

REGISTERED AD

HZL/SKM/ENV/2025/EC Comp/ 06/157

Date: 30/5/2025

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

**Sub.:** Half yearly EC compliance report of Sindesar Khurd Mine for the period of October 2024 to March 2025

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

Sir,

With reference to aforesaid subject and cited references, it is to inform that we are herewith submitting six monthly compliance report for the conditions stipulated in the Environment Clearances of Sindesar Khurd Mine for the period from **October 2024 to March 2025**.

The copy of above compliance report is also being sent in soft format through email to ([roc.z.lko-mef@gov.in](mailto:roc.z.lko-mef@gov.in); [m\\_env@rediffmail.com](mailto:m_env@rediffmail.com)) for your kind perusal. Also copy of Sindesar Khurd Mine Environmental 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 to further improve our Environmental Management Practices.

Hope the above is in line with statutory requirements.

Thanking you,  
Yours faithfully,

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

Sachin Deshmukh  
Unit Head & Authorized Signatory  
Sindesar Khurd Mines, HZL

Copy to:



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

**Compliance Report of Environmental Clearance**

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

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

**Period of Compliance:** October 2024 to March 2025

Sr No	Condition	Compliance Status
<b>A.</b>	<b>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>

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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 native 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</p>

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		undergone through initial and periodical medical examinations.
11	Project Proponent shall carry out vibration studies well before approaching any such habitats or other buildings to evaluate the zone of influence and impact of blasting on the 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.	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.
12	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.	Being complied, Permanent water sprinkler is provided for main haulage road. Transfer points, loading and unloading points of Ores and roads is being ensured. Dust Extraction systems have been installed in Crushers. All the conveyors are covered to minimise the dust emission. Trial with addition of reagent with water to improve dust suppression has been carried out and sprinkling of the same is being ensured regularly. Heavy duty road sweepers are deployed permanently, and regular road sweeping is being ensured. Avenue plantation along with roads and other areas of mines ensured to mitigate impact of dust. Network of conveyors has been established and shaft has been commissioned, installation of additional crusher in underground is ensured to reduce vehicle movement for Ore movement and dust emission due to vehicle movement.
13	The monitoring of PM 2.5 in the vehicle emission shall be conducted to improve the mine environment and report submitted to the Regional Office of the MoEF & CC.	We are exploring possibility of monitoring the same. We have also submitted request for

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		exemption of this condition to MoEF&CC by our letter No. SKM/ENV/2020/02/396 dated 19.02.2020. Copy enclosed as <b>Annexure – V.</b>
14	Project proponent shall compensate all 581 identified families for land and construction cost, i.e. 3 times of DLC rate for land and 3 times of PWD rate for construction will be provided. Rehabilitation site with construction of roads, community centre, school, hospital and other infrastructures will be provided. The PP has confirmed that equal land will be given as a part of displacement.	The Sindesar Khurd village R&R is currently being undertaken by the district administration and is currently underway. The administration has completed conduct of Public Hearing to discuss draft SIA report. The process of forming a multidisciplinary expert committee to examine the final SIA report has been initiated by District Collector
15	Implementation of conservation of all Schedule-I species as per revised plan submitted to DFO-Rajsamand for approval vide letter no. SKM/ENV/DFO/2018/01 dated 09.01.2018 with budgetary provision of Rs. 2 Crore. The Proponent shall implement the Wildlife Conservation Plan along with the funds so allocated with consultation of Chief Wild Life Warden of the State Govt. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Lucknow and the Chief Wildlife Warden of the State Govt.	As per the direction received from DCF Rajsamand dated 30.03.2022 and as per the revised SOP for WLCP, we have revised the WLCP cost, and Total 210.2 Lakhs administrative fee submitted for the approval of WLCP into RPACS account. and same is under process of approval for further implementation. Copy of forwarding letter is enclosed as <b>Annexure- VI.</b>
16	Implementation of action plan on remedial and preventive actions for lead contamination on human health for the community in consultation with experts with budgetary provisions of Rs 50 Lakhs for conducting various programs in connection to Lead.	Action plan has been made. Awareness programs conducted. In addition to this, High capacity (1500 Liter/Hr) community ROs have been installed at Kothdi, Mehanduriya, Kabra, Gawardi, Rajpura and Railmagra villages. 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.

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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 - VII</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.
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.	Being Complied, 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 withdrawal 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 HZL has agreement with State government for Matrikundia Dam water. NOC for dewatering has been accorded by CGWA for 395 KLD <b>(Copy enclosed as Annexure - VIII).</b>

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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 along with 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- IX.</b>
8	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.	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.
9	Effective safeguard measures such as regular water sprinkling shall be carried out in critical areas prone to air pollution and having high levels of PM10 and PM2.5 such as haul road, loading and unloading point and transfer points. Fugitive dust emissions from all the sources shall be controlled regularly. It shall be ensured that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Monitoring of Ambient Air Quality to be carried out based on the Notification 2009, as amended from time to time by the Central Pollution Control Board.	Being Complied, 3 nos. online monitoring stations installed at site results of the same are being displayed at the main gate. Apart from this Monthly AAQ monitoring from 5 locations from core and buffer zone is being done as per AAQ notification 2009. Water sprinkling on loading and unloading points, transfer points is being done. Permanent water sprinklers are provided at Crushers with venturi spray. Haul roads are being wetted through mobile water sprinkler. Conveyors are covered. Transfer points have dust control

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		<p>system. In addition to above, sprinkling of water through tanker with special reagent to suppress the dust on haul road areas by increasing moisture for settling of dust is being ensured. Photo enclosed as <b>Annexure - X</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 - XI</b>.</p>
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 an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug wall located in village should be incorporated to ascertain the impact of mining over ground water table.</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 - XI</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</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</p>

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	network without appropriately increasing the carrying capacity of such roads.	tarpaulin. Special safety trainings are being imparted to all drivers with reference to our HZLs internal safety standard "Vehicle and Driving Safety". Water sprinkling is being done on the haul roads for dust suppression. Noise is being controlled by equipment designing stage. Widening of road outside mine area has been done.
14	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.	Majority of the mining operations are being done in day time. Illumination is being maintained as such way that there will not be any impact on surrounding villages. Mask lights are established accordingly. Monitoring of noise (Day/Night) is being done. Copy enclosed as <b>Annexure - XII</b> . 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.
15	Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. In case of Belt-conveyors facilities the system should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.	Being Complied, Permanent water sprinklers are provided at main haul road ,Crushers and conveyors. Conveyors are covered. Transfer points have dust control system. In addition to above, Also Successful trials have been taken to use "Dustron" the reagent suppress the dust on haul road areas by increasing moisture for settling of dust and found effective and started using the same. Plantation is done to minimise the impact of dust.
16	Sufficient number of Gullies to be provided for better management of water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.	Our Mine is underground mine. Network of Drains and ponds are provided to collect surface run-off from dump and other areas in mine premises. It also avoids flow of sediments directly natural water bodies. Water is being recycled after necessary precaution of settling of silt

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		material connected through retaining wall / garland drain and desiltation pit.
17	There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.	Deepening of village 8 village ponds and construction of 4 anicuts has been done in different phases to improve water conservation by creating additional volume of 3.88 lakh M3. Copy of photo attached as <b>Annex - XIII</b> .
18	The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/levelling with the help of dozer/compactors.	Regular monitoring of slope stability of waste dump mass is being done. The waste dump consolidation is being done by compactor and dozer on regular basis. The Survey of waste dump is carried out regularly and records maintained. Drain with ponds are provided to collect water.  Report of slope and stability monitoring is being submitted along with half year compliance report. Latest report is enclosed as <b>Annex-III</b> .
19	The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are SO chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adopted to that micro climate.	Noted and shall be complied,  At present waste dump is in active stage. On maturity, inactive waste dump will be reclaimed in scientific manner. Waste rock generated from mining is being used for filling of mine voids and being used in construction work of height raising in tailing dam. Waste remained during closure will be filled back in mine voids at the time of mine closure and scientific reclamation by plantation of suitable species will be ensured at waste dump.
20	The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 60m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the	Being underground mine and is in operation. No top soil removal is envisaged. However necessary precautions will take care for the same.  At present waste dump is in active stage. Prescribed height, width and angle is being maintained. Inactive waste dump will be reclaimed in scientific manner. Waste rock generated from mining is being used for filling of mine voids. Waste

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	<p>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>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 1,12,350 Nos of plants have been planted within mine lease to cover more than 33% area under plantation. Total 3000 Nos of new plants have been planted during FY 2023-24. Further, system of gap filling plantation against plant mortality is in place. Majorly planted species are Cassia Siamea, neem (Azadirachta indica), Saptarni (Alstonia Schlaris), karanj (Ficus Pinnata), Silver oak, Shisham, Ber (Ziziphus mauritiana), Kachnar, dhaak (Butea monosperma), Amaltas (cassia fistula), Bauhnia (Bauhnia purpurea), etc.</p>
23	<p>Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 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</p>	<p>All the requirement of said office memorandum is already covered in various condition of this Environment Clearance letter. Accordingly,</p>

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	part of mine lease areas or Habitations and villages are surrounded by the mine lease area", if any, applicable to the project.	compliance status is also given for each condition.
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>	No livestock grazing or acquisition of grazing land is envisaged. Hence Not Applicable.
25	The project proponent shall take all precautionary measures during mining operation for conservation and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.	Precautionary measures are being taken care for conservation & protection of Biodiversity by various initiatives. WLCP is under approval, As per the direction received from DCF Rajsamand dated 30.03.2022 and as per the revised SOP for WLCP, we have revised the WLCP cost, and Total 210.2 Lakhs administrative fee submitted for the approval of WLCP into RPACS account. and same is under process of approval for further implementation. Copy of forwarding letter is enclosed as <b>Annexure- VI</b> .
26	As per the Company Act, the CSR cost should be 2 % of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio Economic Development of the neighbourhood Habitats which could be planned and executed by the Project Proponent more systematically based on the 'Need based door to door survey' by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and Its Regional Office on six monthly basis.	Being Complied, Dedicated team is available at location to implement the CSR projects identified based on survey conducted by reputed organizations. Progress and quality of Implementation of the same is being is being verified in defined frequency by agency appointed by corporate office. Latest highlights of CSR activity is attached as <b>Annexure – XIV</b> .
27	The Ministry has issued a circular vide no. 22-65/2017-IA.III, dated 1st May2018 on Corporate Environment Responsibility (CER). Accordingly, PP shall comply the circular w.r.t. details of budget and its activities.	Noted and being complied with.
28	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile	Being Complied, As per our safety policy, we do not provide accommodation for housing

## Compliance Report of Environmental Clearance

	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.	at the site. The same is being provided away from the site by our projects contractors with all necessary infra structures. Also infrastructures like Bio-Toilets, safe drinking water and medical health care is being ensured at site.
29	Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs.	Being Complied, Necessary measures have been taken to control the noise levels below 85 dBA. All DGs are having acoustic enclosure. Other noise generating equipment's are placed in closed building in isolated. PPEs including ear plugs/muffs are provided to workers engaged in operations of HEMM, etc.
30	Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluent.	Mine water is reused in operations. Oil and grease trap systems provided in workshop and water is being reused for further operations. Treatment and Quality of the same is being ensured as per prescribed standard.
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: 2019-20 was Rs. 1,27,39,126/- 2020-21 was Rs. 1,15,77,379/- 2021-22 was Rs. 3,23,51,588/- 2022-23 was Rs. 2,17,79,658/- 2023-24 was Rs. 2,32,47,896/- 2024-25 was Rs. 3,03,72,900/-

Compliance Report of Environmental Clearance

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 HZL/SKM/ENV/2024/EC Comp/11/153 dated 31.11.2024 is enclosed as <b>Annexure – XV</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.
39	The project authorities should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the clearance letter informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with the State Pollution Control Board and also at web site of the Ministry of Environment, Forest and Climate Change at www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.	Complied, Published on 06.06.2018 in Rajasthan Patrika & Danik Bhaskar Rajsamand Edition. Copy of the same has been already submitted to MoEF&CC along half yearly EC compliance report. Copy enclosed as <b>Annexure – XVI</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	Noted and shall be complied

## Compliance Report of Environmental Clearance

	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.	
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.

## Annexure-1

### कार्यालय उप वन संरक्षक, राजसमन्द

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

क्रमांक: पत्रा ( ) सर्वे/उवसं/2017-18/

3721

दिनांक: 22-9-17

निमित्त :-

यूनिट हेड  
सिन्देसर खुर्द माईन  
हिन्दुस्तान जिंक लि०  
जिला राजसमन्द।

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

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

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

  
(कुमार स्वामी गुप्ता)  
उप वन संरक्षक  
राजसमन्द

## Annexure-2

**SCS SCS ENVIRO SERVICES PRIVATE LIMITED**

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216



TC-13363

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20241023/07	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AAQ/20241023/07	Date of Report: 31.10.2024

### AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 23.10.2024  
Date of start of testing : 26.10.2024  
Date of end of testing : 31.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'06.86"N  
74°08'42.69"E  
Ambient Temperature : 30.2°C  
Name of Location : Near Encline Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

#### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	83.6 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	65.1 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	40.3 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	10.7 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	18.4 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,031 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.30 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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- This report in full or in part, shall not be used for advertising or as evidence in any court of law.
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- The sample will be destroyed after 15 days from the date of issue of the test report.
- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to Jaipur jurisdiction.



Sample ID No.: SCS/AAQ/20241023/08	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AAQ/20241023/08	Date of Report: 31.10.2024

**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 23.10.2024  
Date of start of testing : 26.10.2024  
Date of end of testing : 31.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'23.58"N  
74°08'50.50"E  
Ambient Temperature : 30.5°C  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	97.4 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	65.8 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	40.9 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.7 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	13.2 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,031 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.25 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt., Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241023/09	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AAQ/20241023/09	Date of Report: 31.10.2024

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 23.10.2024  
Date of start of testing : 26.10.2024  
Date of end of testing : 31.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'14.69"N  
74°08'36.21"E  
Ambient Temperature : 30.8°C  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	96.3 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	68.2 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	42.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.2 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	11.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	916 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.24 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241023/10	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AAQ/20241023/10	Date of Report: 31.10.2024

## AMBIENT AIR QUALITY MONITORING REPORT

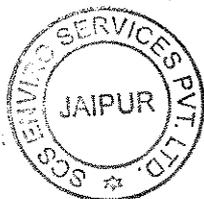
Name of Client : M/s. Hindustan Zinc Limited, SK Mines.  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 23.10.2024  
Date of start of testing : 26.10.2024  
Date of end of testing : 31.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°02'09.80"N  
74°09'21.45"E  
Ambient Temperature : 31.0°C  
Name of Location : Near Bamania Kalan Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	70.0 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	58.9 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	35.1 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	10.8 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	916 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.18 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241023/11	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AAQ/20241023/11	Date of Report: 31.10.2024

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 24.10.2024  
Date of start of testing : 26.10.2024  
Date of end of testing : 31.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°57'30.02"N  
74°08'49.14"E  
Ambient Temperature : 31.2°C  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	93.0 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	60.1 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	36.4 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.2 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	10.8 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	802 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.16 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241023/12	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AAQ/20241023/12	Date of Report: 31.10.2024

## AMBIENT AIR QUALITY MONITORING REPORT

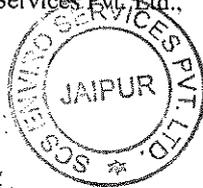
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 24.10.2024  
Date of start of testing : 26.10.2024  
Date of end of testing : 31.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°58'17.08"N  
74°07'58.78"E  
Ambient Temperature : 31.5°C  
Name of Location : Near Rajpura Village  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	100.3 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	69.4 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	42.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.9 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	12.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,145 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.26 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241116/19	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/19(1/2)	Date of Report: 30.11.2024

**AMBIENT AIR QUALITY MONITORING REPORT**

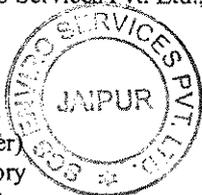
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'06.85"N  
74°08'42.68"E  
Ambient Temperature : 32.0°C  
Name of Location : Near Encline Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	82.4 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	57.5 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	34.8 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	11.5 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	43.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	802 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	40.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.16 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.67 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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- All disputes are subjected to Jaipur jurisdiction.

# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20241116/19	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/19(2/2)	Date of Report: 30.11.2024

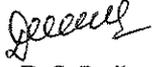
## AMBIENT AIR QUALITY MONITORING REPORT

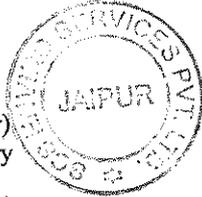
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 25°00'06.85"N  
Location : 74°08'42.68"E  
Ambient Temperature : 32.0°C  
Name of Location : Near Encline Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241116/20	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/20(1/2)	Date of Report: 30.11.2024

**AMBIENT AIR QUALITY MONITORING REPORT**

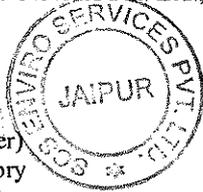
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'23.58"N  
74°08'50.51"E  
Ambient Temperature : 31.8°C  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	114.9 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	67.4 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	40.2 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	8.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	15.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	49.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	916 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	47.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.25 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	1.30 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20241116/20	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/20(2/2)	Date of Report: 30.11.2024

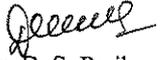
## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 25°00'23.58"N  
Location : 74°08'50.51"E  
Ambient Temperature : 31.8°C  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241116/21	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/21(1/2)	Date of Report: 30.11.2024

**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'14.68"N  
74°08'36.22"E  
Ambient Temperature : 32.0°C  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	80.9 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	55.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	32.9 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	8.9 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	40.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	802 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	37.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.12 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.55 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20241116/21	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/21(2/2)	Date of Report: 30.11.2024

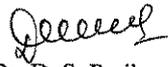
## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 25°00'14.68"N  
Location : 74°08'36.22"E  
Ambient Temperature : 32.0°C  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241116/22	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/22(1/2)	Date of Report: 30.11.2024

**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°02'09.82"N  
74°09'21.44"E  
Ambient Temperature : 31.7°C  
Name of Location : Near Bamania Kalan Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	75.4 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	52.9 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	32.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	6.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	9.1 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	41.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	687 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	36.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.10 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.44 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20241116/22	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/22(2/2)	Date of Report: 30.11.2024

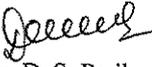
## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 25°02'09.82"N  
Location : 74°09'21.44"E  
Ambient Temperature : 31.7°C  
Name of Location : Near Bamania Kalan Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241116/23	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/23(1/2)	Date of Report: 30.11.2024

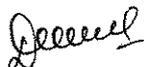
**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°57'30.05"N  
74°08'49.16"E  
Ambient Temperature : 32.6°C  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	88.2 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	59.4 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	35.7 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	10.5 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	43.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	802 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	40.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.16 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.77 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP)	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)
Particulate phase only			

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20241116/23	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/23(2/2)	Date of Report: 30.11.2024

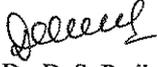
## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariiba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 24°57'30.05"N  
Location : 74°08'49.16"E  
Ambient Temperature : 32.6°C  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241116/24	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/24(1/2)	Date of Report: 30.11.2024

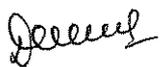
**AMBIENT AIR QUALITY MONITORING REPORT**

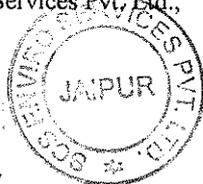
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°58'17.05 "N  
74°07'58.81"E  
Ambient Temperature : 32.3°C  
Name of Location : Near Rajpura Village  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	97.2 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	63.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	38.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.5 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	11.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	18.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	802 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	42.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.20 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.95 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20241116/24	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AAQ/20241116/24(2/2)	Date of Report: 30.11.2024

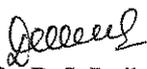
## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 24°58'17.05 "N  
Location : 74°07'58.81"E  
Ambient Temperature : 32.3°C  
Name of Location : Near Rajpura Village  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241228/02	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AAQ/20241228/02	Date of Report: 05.01.2025

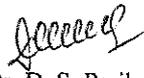
**AMBIENT AIR QUALITY MONITORING REPORT**

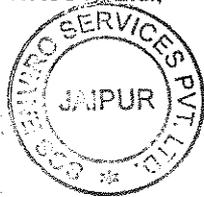
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.12.2024  
Date of start of testing : 31.12.2024  
Date of end of testing : 05.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'06.84"N  
74°08'42.67"E  
Ambient Temperature : 17.5°C  
Name of Location : Near Encline Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	88.2 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	67.4 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	41.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	10.5 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	16.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,260 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.27 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241228/03	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AAQ/20241228/03	Date of Report: 05.01.2025

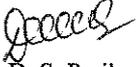
**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.12.2024  
Date of start of testing : 31.12.2024  
Date of end of testing : 05.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'23.56"N  
74°08'50.50"E  
Ambient Temperature : 17.7°C  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	100.8 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	69.3 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	42.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	8.2 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	15.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,145 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.30 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241228/04	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AAQ/20241228/04	Date of Report: 05.01.2025

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.12.2024  
Date of start of testing : 31.12.2024  
Date of end of testing : 05.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of : 25°00'14.65"N  
the Location : 74°08'36.20"E  
Ambient Temperature : 17.9°C  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	109.2 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	74.5 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	44.3 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.8 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	12.5 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,031 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.29 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241228/05	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AAQ/20241228/05	Date of Report: 05.01.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines.  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.12.2024  
Date of start of testing : 31.12.2024  
Date of end of testing : 05.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°02'09.81"N  
74°09'21.46"E  
Ambient Temperature : 17.9°C  
Name of Location : Near Bamania Kalan Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	82.0 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	61.5 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	37.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.9 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	11.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	802 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.20 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241228/06	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AAQ/20241228/06	Date of Report: 05.01.2025

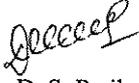
**AMBIENT AIR QUALITY MONITORING REPORT**

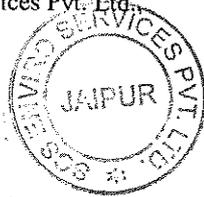
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 29.12.2024  
Date of start of testing : 31.12.2024  
Date of end of testing : 05.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°57'30.04"N  
74°08'49.15"E  
Ambient Temperature : 15.5°C  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	116.4 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	75.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	45.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	11.9 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,031 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.36 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20241228/07	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AAQ/20241228/07	Date of Report: 05.01.2025

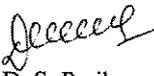
**AMBIENT AIR QUALITY MONITORING REPORT**

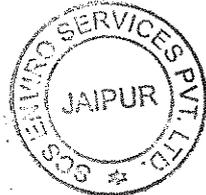
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 29.12.2024  
Date of start of testing : 31.12.2024  
Date of end of testing : 05.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°58'17.07"N  
74°07'58.80"E  
Ambient Temperature : 15.9°C  
Name of Location : Near Rajpura Village  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	119.7 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	73.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	43.4 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	8.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	14.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,260 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.35 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250119/06	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/06(1/2)	Date of Report: 28.01.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'06.82"N  
74°08'42.65"E  
Ambient Temperature : 18.5°C  
Name of Location : Near Encline Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(a)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	95.7 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	68.2 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	41.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	8.9 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	14.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	46.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	1,031 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	48.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.24 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.95 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP)	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)
Particulate phase only			

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory

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- All disputes are subjected to Jaipur jurisdiction.

# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250119/06	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/06(2/2)	Date of Report: 28.01.2025

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 25°00'06.82"N  
Location : 74°08'42.65"E  
Ambient Temperature : 18.5°C  
Name of Location : Near Encline Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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- All disputes are subjected to Jaipur jurisdiction.



Sample ID No.: SCS/AAQ/20250119/07	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/07(1/2)	Date of Report: 28.01.2025

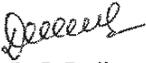
**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines.  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'23.54"N  
74°08'50.48"E  
Ambient Temperature : 18.8°C  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	120.2 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	72.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	43.5 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	9.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	17.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	55.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	1,145 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	52.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.37 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	1.59 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250119/07	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/07(2/2)	Date of Report: 28.01.2025

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the Location : 25°00'23.54"N  
74°08'50.48"E  
Ambient Temperature : 18.8°C  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250119/08	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/08(1/2)	Date of Report: 28.01.2025

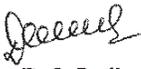
**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines.  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'14.63"N  
74°08'36.18"E  
Ambient Temperature : 19.3°C  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(a)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	99.4 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	60.7 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	35.5 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	10.4 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	43.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	687 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	40.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.15 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.64 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250119/08	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/08(2/2)	Date of Report: 28.01.2025

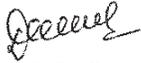
## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the Location : 25°00'14.63"N  
74°08'36.18"E  
Ambient Temperature : 19.3°C  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250119/09	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/09(1/2)	Date of Report: 28.01.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°02'09.70"N  
74°09'21.44"E  
Ambient Temperature : 19.5°C  
Name of Location : Near Bamania Kalan Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	91.6 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	57.5 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	35.1 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	6.7 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	10.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	45.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	802 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	39.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.12 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.56 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250119/09	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/09(2/2)	Date of Report: 28.01.2025

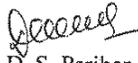
## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 25°02'09.70"N  
Location : 74°09'21.44"E  
Ambient Temperature : 19.5°C  
Name of Location : Near Bamania Kalan Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250119/10	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/10(1/2)	Date of Report: 28.01.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°57'30.01"N  
74°08'49.12"E  
Ambient Temperature : 17.4°C  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	106.5 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	68.3 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	40.4 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.9 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	12.2 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	50.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	916 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	43.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.25 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	1.10 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250119/10	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/10(2/2)	Date of Report: 28.01.2025

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines.  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the Location : 24°57'30.01"N  
74°08'49.12"E  
Ambient Temperature : 17.4°C  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,



Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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- All disputes are subjected to Jaipur jurisdiction.



Sample ID No.: SCS/AAQ/20250119/11	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/11(1/2)	Date of Report: 28.01.2025

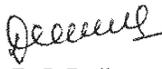
**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°58'17.03 "N  
74°07'58.75"E  
Ambient Temperature : 18.0°C  
Name of Location : Near Rajpura Village  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	116.5 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	70.4 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	41.8 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	8.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	12.9 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	46.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	916 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	40.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.26 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	1.25 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250119/11	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AAQ/20250119/11(2/2)	Date of Report: 28.01.2025

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines.  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.01.2025  
Date of start of testing : 22.01.2025  
Date of end of testing : 28.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 24°58'17.03 "N  
Location : 74°07'58.75"E  
Ambient Temperature : 18.0°C  
Name of Location : Near Rajpura Village  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250227/03	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AAQ/20250227/03	Date of Report: 07.03.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

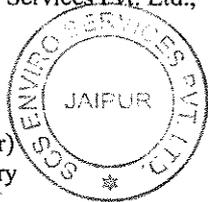
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 27.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of : 25°00'06.80"N  
the Location : 74°08'42.63"E  
Ambient Temperature : 26.7°C  
Name of Location : Near Encline Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	115.6 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	71.7 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	43.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	11.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	17.5 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,374 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.33 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250227/04	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AAQ/20250227/04	Date of Report: 07.03.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

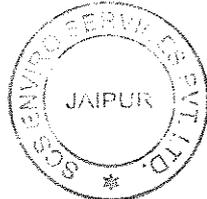
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 27.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'23.53"N  
74°08'50.45"E  
Ambient Temperature : 26.8°C  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	128.9 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	75.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	45.3 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	8.8 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	16.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,260 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.37 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250227/05	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AAQ/20250227/05	Date of Report: 07.03.2025

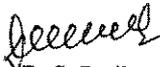
**AMBIENT AIR QUALITY MONITORING REPORT**

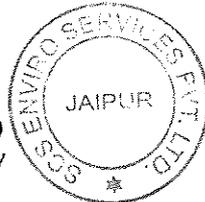
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 27.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of : 25°00'14.65"N  
the Location : 74°08'36.49"E  
Ambient Temperature : 27.0°C  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	122.0 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	80.1 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	48.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	9.2 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	15.7 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,260 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.40 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250227/06	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AAQ/20250227/06	Date of Report: 07.03.2025

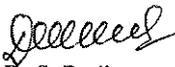
**AMBIENT AIR QUALITY MONITORING REPORT**

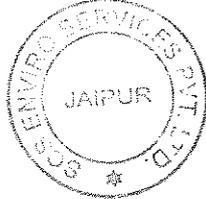
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 27.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of : 25°02'09.59"N  
the Location : 74°09'21.42"E  
Ambient Temperature : 27.2°C  
Name of Location : Near Bamania Kalan Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	98.7 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	65.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	40.3 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.4 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	12.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	916 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.25 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250227/07	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AAQ/20250227/07	Date of Report: 07.03.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

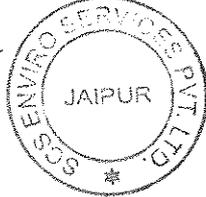
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°57'30.03"N  
74°08'49.13"E  
Ambient Temperature : 26.2°C  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	110.2 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	69.4 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	41.8 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	10.2 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	916 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.30 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250227/08	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AAQ/20250227/08	Date of Report: 07.03.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

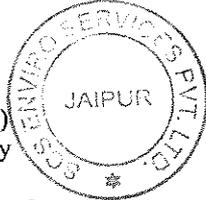
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of : 24°58'17.02"N  
the Location : 74°07'58.74"E  
Ambient Temperature : 26.5°C  
Name of Location : Near Rajpura Village  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO, Pb

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	130.4 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	80.1 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	48.5 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	9.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	16.7 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	1,374 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Lead (Pb)	0.41 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250319/05	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/05(1/2)	Date of Report: 31.03.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'06.82"N  
74°08'42.66"E  
Ambient Temperature : 32.6°C  
Name of Location : Near Encline Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	104.2 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	70.5 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	42.6 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	9.2 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	15.8 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	50.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	1,145 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	44.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.27 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	1.20 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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- All disputes are subjected to Jaipur jurisdiction.

# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250319/05	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/05(2/2)	Date of Report: 31.03.2025

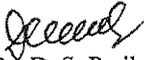
## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 25°00'06.82"N  
Location : 74°08'42.66"E  
Ambient Temperature : 32.6°C  
Name of Location : Near Encline Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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- All disputes are subjected to Jaipur jurisdiction.



Sample ID No.: SCS/AAQ/20250319/06	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/06(1/2)	Date of Report: 31.03.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

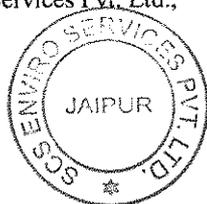
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'23.55"N  
74°08'50.47"E  
Ambient Temperature : 32.9°C  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	114.6 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	67.2 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	40.8 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	8.6 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	15.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	52.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	1,031 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	43.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.28 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.96 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250319/06	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/06(2/2)	Date of Report: 31.03.2025

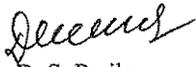
## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines.  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 25°00'23.55"N  
Location : 74°08'50.47"E  
Ambient Temperature : 32.9°C  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250319/07	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/07(1/2)	Date of Report: 31.03.2025

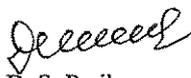
**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°02'09.80"N  
74°09'21.45"E  
Ambient Temperature : 33.2°C  
Name of Location : Near Bamania Kalan Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	85.0 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	54.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	32.6 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	6.5 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	9.4 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	42.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	687 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	36.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.10 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.44 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250319/07	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/07(2/2)	Date of Report: 31.03.2025

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 25°02'09.80"N  
Location : 74°09'21.45"E  
Ambient Temperature : 33.2°C  
Name of Location : Near Bamania Kalan Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250319/08	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/08(1/2)	Date of Report: 31.03.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

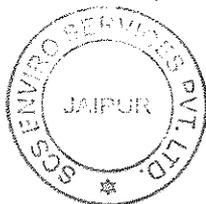
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 25°00'14.69"N  
74°08'36.51"E  
Ambient Temperature : 33.3°C  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	109.5 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	65.3 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	39.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	8.2 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	12.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	46.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	916 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	42.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.18 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	0.99 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2018 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250319/08	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/08(2/2)	Date of Report: 31.03.2025

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the Location : 25°00'14.69"N  
74°08'36.51"E  
Ambient Temperature : 33.3°C  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250319/09	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/09(1/2)	Date of Report: 31.03.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

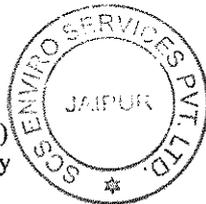
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°57'30.05"N  
74°08'49.15"E  
Ambient Temperature : 32.2°C  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	117.1 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	71.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	43.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	8.4 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	13.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	53.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	1,145 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	46.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.29 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	1.52 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20250319/09	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/09(2/2)	Date of Report: 31.03.2025

## AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 24°57'30.05"N  
Location : 74°08'49.15"E  
Ambient Temperature : 32.2°C  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : As

### RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/AAQ/20250319/10	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/10(1/2)	Date of Report: 31.03.2025

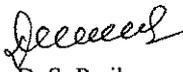
**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinates of the Location : 24°58'17.06 "N  
74°07'58.74"E  
Ambient Temperature : 32.5°C  
Name of Location : Near Rajpura Village  
Parameter required : SPM, PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> O<sub>3</sub>, CO, NH<sub>3</sub>, Pb, Ni, Benzene, B(α)P

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Suspended Particulate Matter	128.2 µg / m <sup>3</sup>	-	IS 5182 (Part 4)
Particulate Matter (PM <sub>10</sub> )	76.5 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	46.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	9.7 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	15.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Ozone (O <sub>3</sub> )	55.0 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 9)
Carbon Monoxide (CO)	1,145 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/013
Ammonia (NH <sub>3</sub> )	46.0 µg / m <sup>3</sup>	400 µg / m <sup>3</sup>	IS 5182 (Part 25)
Lead (Pb)	0.32 µg / m <sup>3</sup>	1 µg / m <sup>3</sup>	IS 5182 (Part 22)
Nickel (Ni)	1.86 ng / m <sup>3</sup>	20 ng / m <sup>3</sup>	IS 5182 (Part 26)
Benzene (C <sub>6</sub> H <sub>6</sub> )	< 1.0 µg / m <sup>3</sup>	5 µg / m <sup>3</sup>	IS 5182 (Part 11)
Benzo(α)Pyrene (BaP) Particulate phase only	< 1.0 ng / m <sup>3</sup>	1 ng / m <sup>3</sup>	IS 5182 (Part 12)

Per pro SCS Enviro Services Pvt. Ltd.,

  
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Authorised Signatory



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Sample ID No.: SCS/AAQ/20250319/10	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AAQ/20250319/10(2/2)	Date of Report: 31.03.2025

**AMBIENT AIR QUALITY MONITORING REPORT**

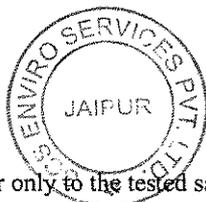
Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.03.2025  
Date of start of testing : 22.03.2025  
Date of end of testing : 31.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
GPS Coordinate of the : 24°58'17.06 "N  
Location : 74°07'58.74"E  
Ambient Temperature : 32.5°C  
Name of Location : Near Rajpura Village  
Parameter required : As

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Arsenic (As)	< 5.5 ng / m <sup>3</sup>	6 ng / m <sup>3</sup>	EPA/625/R-96/010a US EPA IO 3.4

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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## Annexure-3

**CENTRAL INSTITUTE OF MINING & FUEL RESEARCH**  
**(Council of Scientific & Industrial Research)**  
**Barwa Road, Dhanbad – 826 001, Jharkhand**  
**Nagpur Research Center, Mining Technology**  
**17/C, Telenkhedi Area, Civil Line, Nagpur 440001, Maharashtra**

**Visit Report – 21 Aug, 2024, SK Mines, HZL**

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



Part of SSP/N/704/2022-23

**October 2024**



सीएसआईआर-केंद्रीय खनन एवं ईंधन अनुसंधान संस्थान, धनबाद

**CSIR- CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH, DHANBAD**

(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद/ Council of Scientific & Industrial Research)

परियोजना का शीर्षक: विजिट रिपोर्ट - 21 अगस्त, 2024, एसके माइंस, एचजेडएल

**Title of the Project: Visit Report – 21 Aug 2024, SK Mines, HZL**

**प्रायोजक/Sponsor: Hindustan Zinc Limited**

**संदर्भ/Ref. Work order No. Part of (PO No.: 3255768469 / 5100031999 Amendment added: 24/11/2024 LI-20)**

**माह /MONTH: अक्टूबर /October 2024**

*CSIR  
10/10/2024*

**(Dr. John Loui Porathur, Chief Scientist & Project Leader)**

**DISCLAIMER**

1. इस रिपोर्ट में निर्धारित की गई अनुशंसाओं का सख्ती से पालन किया जाए। *Recommendations stipulated in the report should be strictly followed.*
2. इन अनुशंसाओं को एक सक्षम एजेंसी के पर्यवेक्षण में लागू किया जाए। *Recommendations should be implemented under the supervision of a competent agency.*
3. यह रिपोर्ट केवल आपके कार्यालय के आंतरिक उपयोग के लिए है और इसे आपके कार्यालय अथवा आपके कर्मचारियों द्वारा पूर्ण या आंशिक रूप में प्रकाशित न किया जाए। इसे संबंधित सरकारी विभागों के अलावा बाह्य पार्टियों को परिचालित/प्रेषित न किया जाए। उद्योग के लाभ के लिए इस अनुसंधान के परिणामों को प्रकाशित करने का अधिकार सिम्फर के पास सुरक्षित है। *This Report is meant for the internal use of your organization only and it should not be published in full or part by your organization or staff. It should not be circulated/communicated to outside parties except concerned Government departments. CSIR-CIMFR reserves the right to publish the results of research for the benefit of industry.*

किया गया अध्ययन खान प्रबंधन द्वारा उपलब्ध कराए गए आंकड़ों पर आधारित है। रिपोर्ट में उल्लिखित निष्कर्ष और सिफारिशें रिपोर्ट में निर्दिष्ट भू-खनन स्थितियों पर आधारित हैं। इसके अलावा, रिपोर्ट में निर्धारित सिफारिशों के कार्यान्वयन में सीएसआईआर-सीआईएमएफआर का कोई नियंत्रण नहीं है। भू-खनन स्थितियों में परिवर्तन के साथ-साथ उपायों का अनुपालन न करने के कारण होने वाली किसी भी अप्रिय घटना के लिए अनुसंधान दल को जिम्मेदार नहीं ठहराया जाएगा। *The study conducted is based on the data supplied by the mine management. Conclusions & recommendations mentioned in the report are based on the geo-mining conditions specified in the report. Moreover, CSIR-CIMFR has no control in the implementation of the recommendations stipulated in the report. The research team will not be held responsible for any untoward incidences caused by change in geo-mining conditions as well as due to non-compliance of measures.*



## 6.0 STABILITY OF WASTE DUMP

Waste dump is an integral part of ground control management plan. The waste dump on the surface was inspected. A three-dimensional view of the current profile of the waste dump is shown in Figure. 17 & 18. The maximum height of the dump slope is 38.63 metre as shown in figure. 19. Photograph of the dump is shown in figure 20 & 21.

The following are the observations and further recommendations--

1. Surface is properly levelled, and no tension cracks found.
2. With the current bench configuration and geometry of the dump it has good stability and not have any danger of collapse.
3. Wherever the dump boundary comes closer to a haulage road, a protective wall/parapet wall needs to be constructed against the same to avoid roll down of any waste rock into the haulage road.
4. If the height of the dump from the original surface profile is increased more than 20 m, a bench of minimum 10 m width needs to be left prior to starting a second bench.
5. The dump profile movements are continued to be monitored using Total Station Survey on a regular basis.
6. Dumping operation is to be carried out as per the SOP.

Following are bench details:

Waste dump bottom level 521.79mRL

Waste dump top level 560.42mRL

- Bench height 08.21m (Top RL 530, bottom RL 521.79).
- Bench height 9.12m (Top RL 539.12 bottom RL 530)
- Bench height 12.3m (Top RL 551.42 bottom RL 539.12)
- Bench height 9 m (Top RL 560.42 Bottom RL 551.42)

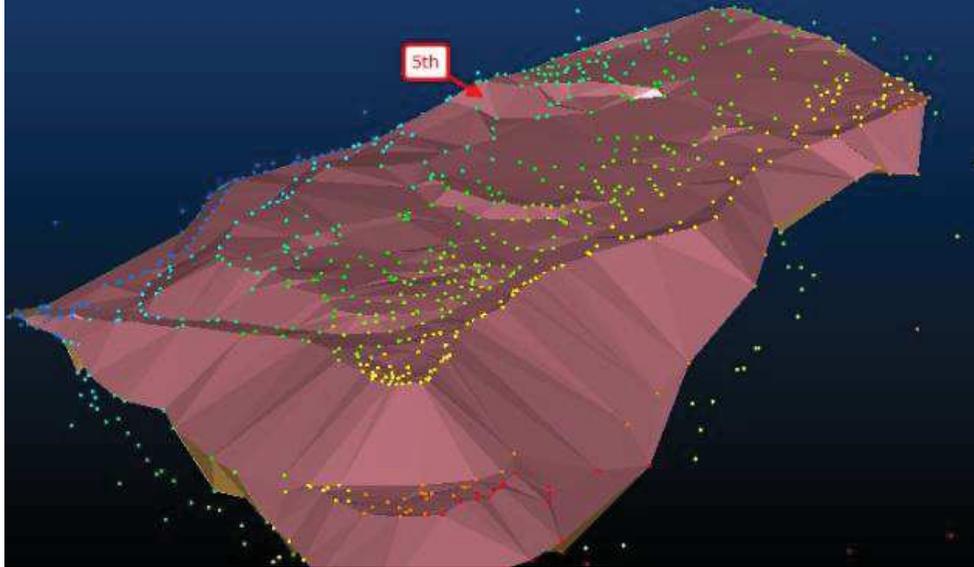


Figure 17: 3D profile of waste dump

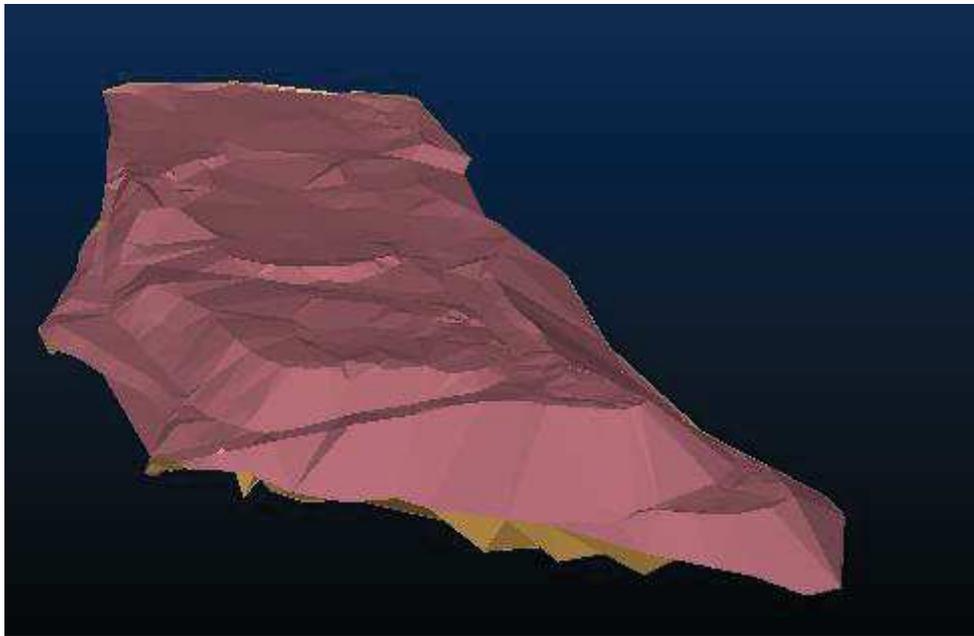


Figure 18: Profile showing waste dump

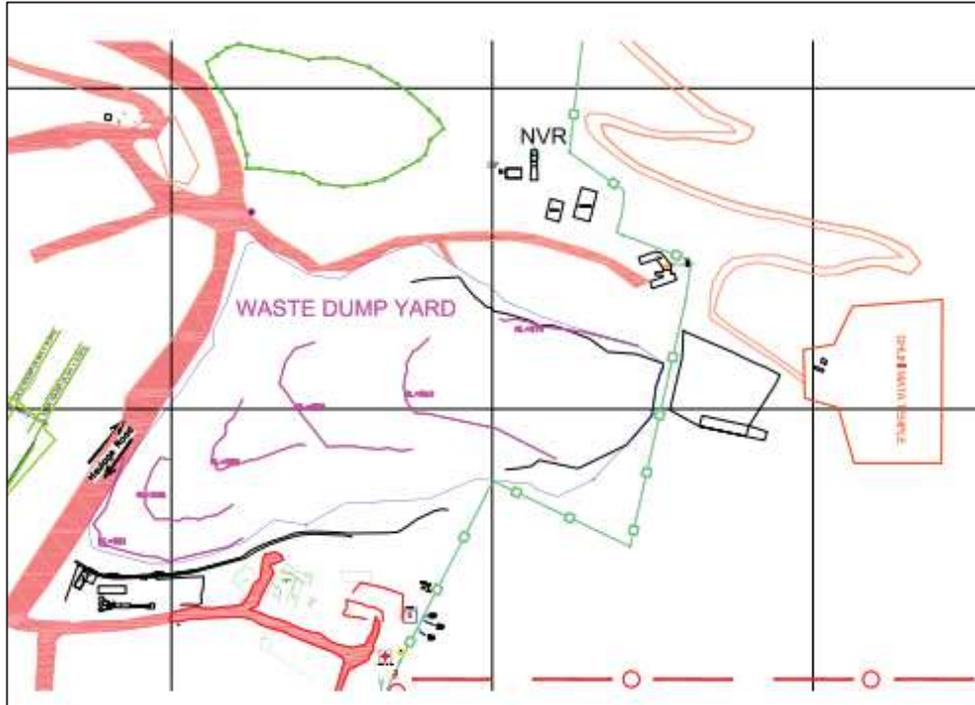


Figure 19: Plan view of the dump



Figure 20: Surface waste dump



Figure 21: Waste dump and haul road

# Annexure- 4

**SCS SCS ENVIRO SERVICES PRIVATE LIMITED**

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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216



TC-13363

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

<b>Sample ID No.:</b> SCS/W/20241116/59	<b>Date of Registration:</b> 16.11.2024
<b>Report No. SCS/HZL-SKM/W/20241116/59</b>	<b>Date of Report:</b> 30.11.2024

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Details of Sample : Surface Water from Bamniya Kalan  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.16	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	152.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	47.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl <sup>-</sup> B
Total Hardness as CaCO <sub>3</sub>	104.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	302.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	10.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	312.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	21.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	10.69 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216



TC-13363

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20241116/60	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/W/20241116/60	Date of Report: 30.11.2024

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Details of Sample : Surface Water from Banas River  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.82	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	240.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	225.93 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl- B
Total Hardness as CaCO <sub>3</sub>	244.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	748.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	15.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	763.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	63.34 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.03 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	24.30 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/W/20241116/61	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/W/20241116/61	Date of Report: 30.11.2024

**TEST REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Details of Sample : Surface Water from Raghunathpura  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.33	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	148.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	51.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl- B
Total Hardness as CaCO <sub>3</sub>	116.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	315.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	10.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	325.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	28.62 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	10.69 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/W/20241116/62	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/W/20241116/62	Date of Report: 30.11.2024

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Details of Sample : Surface Water from Bharai Dam  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.29	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	152.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	47.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl- B
Total Hardness as CaCO <sub>3</sub>	112.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	312.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	8.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	320.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	25.38 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	0.03 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	9.72 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216



TC-13363

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20241116/59	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/W/20241116/59	Date of Report: 30.11.2024

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Details of Sample : Surface Water from Bamniya Kalan  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.16	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	152.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	47.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl <sup>-</sup> B
Total Hardness as CaCO <sub>3</sub>	104.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	302.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	10.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	312.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	21.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	10.69 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216



TC-13363

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20241116/60	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/W/20241116/60	Date of Report: 30.11.2024

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Details of Sample : Surface Water from Banas River  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.82	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	240.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	225.93 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl- B
Total Hardness as CaCO <sub>3</sub>	244.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	748.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	15.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	763.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	63.34 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.03 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	24.30 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/W/20241116/61	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/W/20241116/61	Date of Report: 30.11.2024

**TEST REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Details of Sample : Surface Water from Raghunathpura  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.33	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	148.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	51.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl- B
Total Hardness as CaCO <sub>3</sub>	116.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	315.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	10.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	325.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	28.62 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	10.69 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/W/20241116/62	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/W/20241116/62	Date of Report: 30.11.2024

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 17.11.2024  
Date of start of testing : 19.11.2024  
Date of end of testing : 30.11.2024  
Details of Sample : Surface Water from Bharai Dam  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.29	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	152.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	47.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl- B
Total Hardness as CaCO <sub>3</sub>	112.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	312.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	8.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	320.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	25.38 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	0.03 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	9.72 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

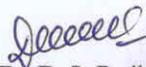
Sample ID No.: SCS/AL/20250227/65	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AL/20250227/65	Date of Report: 07.03.2025

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Aquatic Life and Invertebrates Animals (Fish) collected from Bamniya Kalan (Banas River)  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
Lead as Pb	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	18.5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	25.3 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Nickel as Ni	< 3 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Chromium as Cr	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Mercury as Hg	< 2 PPM	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

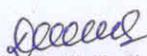
Sample ID No.: SCS/AL/20250227/66	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AL/20250227/66	Date of Report: 07.03.2025

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Aquatic Life and Invertebrates Animals (Fish) collected from Raghunathpura Pond  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
Lead as Pb	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	13.2 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	16.0 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Nickel as Ni	< 3 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Chromium as Cr	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Mercury as Hg	< 2 PPM	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

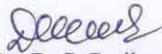
Sample ID No.: SCS/AL/20250227/67	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AL/20250227/67	Date of Report: 07.03.2025

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Aquatic Life and Invertebrates Animals (Fish) collected from Bharai Dam  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
Lead as Pb	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	12.7 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	21.3 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Nickel as Ni	< 3 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Chromium as Cr	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Mercury as Hg	< 2 PPM	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

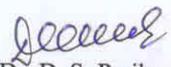
Sample ID No.: SCS/AL/20250227/68	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AL/20250227/68	Date of Report: 07.03.2025

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Vegetable / Crops (Mustard Leaf) collected from Sindesar Khurd  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
Lead as Pb	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	7.8 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	9.6 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Nickel as Ni	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Chromium as Cr	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Mercury as Hg	< 2 PPM	APHA (24 <sup>th</sup> Edition) 3112 B

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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AL/20250227/69	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AL/20250227/69	Date of Report: 07.03.2025

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Vegetable / Crops (Tomato Leaf) collected from Rajpura  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
Lead as Pb	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	14.2 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	22.1 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Nickel as Ni	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Chromium as Cr	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Mercury as Hg	< 2 PPM	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

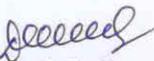
Sample ID No.: SCS/AL/20250227/70	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AL/20250227/70	Date of Report: 07.03.2025

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Vegetable / Crops (Carrot) collected from Bamniya Kalan  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
Lead as Pb	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	14.4 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	26.5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Nickel as Ni	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Chromium as Cr	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Mercury as Hg	< 2 PPM	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

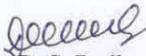
Sample ID No.: SCS/AL/20250227/71	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AL/20250227/71	Date of Report: 07.03.2025

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Vegetable / Crops (Green Chilley) collected from Kantiya Khera  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
Lead as Pb	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	8.8 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	14.5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Nickel as Ni	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Chromium as Cr	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Mercury as Hg	< 2 PPM	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AL/20250227/72	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AL/20250227/72	Date of Report: 07.03.2025

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Vegetable / Crops (Beet Root) collected from Raghunathpura  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
Lead as Pb	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	23.2 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	40.9 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Nickel as Ni	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Chromium as Cr	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Mercury as Hg	< 2 PPM	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

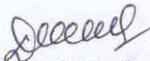
Sample ID No.: SCS/AL/20250227/73	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AL/20250227/73	Date of Report: 07.03.2025

## TEST REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Vegetable / Crops (Wheat Lief) collected from SKM  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
Lead as Pb	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	9.6 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	15.2 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Nickel as Ni	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Chromium as Cr	< 5 PPM	APHA (24 <sup>th</sup> Edition) 3111B
Mercury as Hg	< 2 PPM	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
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Sample ID No.: SCS/W/20250227/45	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/W/20250227/45	Date of Report: 07.03.2025

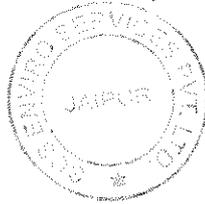
**TEST REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Surface Water from Bamniya Kalan  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.37	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	140.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	57.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl- B
Total Hardness as CaCO <sub>3</sub>	108.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	307.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	15.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	322.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	16.46 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	11.66 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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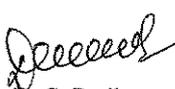
Sample ID No.: SCS/W/20250227/46	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/W/20250227/46	Date of Report: 07.03.2025

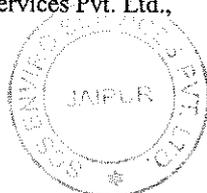
**TEST REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Surface Water from Banas River  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	7.61	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	216.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	121.96 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl B
Total Hardness as CaCO <sub>3</sub>	252.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	525.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	12.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	537.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	40.57 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	0.03 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.03 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	27.22 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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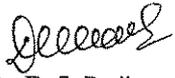
Sample ID No.: SCS/W/20250227/47	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/W/20250227/47	Date of Report: 07.03.2025

**TEST REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Surface Water from Raghunathpura  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.45	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	268.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	67.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl- B
Total Hardness as CaCO <sub>3</sub>	252.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	556.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	13.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	569.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	70.71 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	0.03 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.03 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	31.10 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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Sample ID No.: SCS/W/20250227/48	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/W/20250227/48	Date of Report: 07.03.2025

**TEST REPORT**

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Sampling : 28.02.2025  
Date of start of testing : 02.03.2025  
Date of end of testing : 07.03.2025  
Details of Sample : Surface Water from Bharai Dam  
Sample submitted by : SCS Representative

Parameter	Results	Protocol
pH	8.30	APHA (24 <sup>th</sup> Edition) 4500 H
Total Alkalinity as CaCO <sub>3</sub>	176.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2320
Chloride as Cl	65.98 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 Cl- B
Total Hardness as CaCO <sub>3</sub>	128.00 Mg / L	APHA (24 <sup>th</sup> Edition) 2340 C
Total Dissolved Solids	355.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 C
Total Suspended Solids	10.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 D
Total Solids	365.0 Mg / L	APHA (24 <sup>th</sup> Edition) 2540 B
Sulphate as SO <sub>4</sub>	19.72 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 E
Lead as Pb	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Zinc as Zn	0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Iron as Fe	0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Copper as Cu	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cadmium as Cd	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cyanide as CN	< 0.02 Mg / L	APHA (24 <sup>th</sup> Edition) 4500 CN-C&E
Nickel as Ni	< 0.01 Mg / L	APHA (24 <sup>th</sup> Edition) 3111B
Cobalt as Co	< 0.05 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 Co
Magnesium as Mg	13.61 Mg / L	APHA (24 <sup>th</sup> Edition) 3500 B
Arsenic as As	< 0.002 Mg / L	APHA (24 <sup>th</sup> Edition) 3114 B
Mercury as Hg	< 0.001 Mg / L	APHA (24 <sup>th</sup> Edition) 3112 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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

**Sub.:** Exemption of EC condition **"The monitoring of PM2.5 in the vehicle emission shall be conducted to improve the mine environment and report submitted to the Regional office of the MoEFCC.**

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

Sir,

With reference to aforesaid subject, we would like to bring to your kind notice that Ministry of Environment, Forest & Climate Change(MoEF&CC) has accorded the Environment Clearance for our project proposal of "Expansion of Sindesar Khurd Lead -Zinc underground mine from 4.5 million TPA to 6.0 million TPA ore production (ROM) basis and beneficiation from 5.0 million TPA to 6.5 TPA, located at Sindesar Khurd village Tehsil: Relmagra, District, 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

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

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

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

Thanking you.

Yours faithfully,

  
19/02/2020  
Sanjay Kumar Sharma  
Unit Head - Sindesar Khurd Mine

CC to:

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

## Annexure-6

### कार्यालय उप वन संरक्षक वन्यजीव राजसमन्द

क्रमांक एफ(उपसवजी/सर्वे/2024  
निमित्त

383J

दिनांक 24-04-24

मुख्य वन संरक्षक  
वन्यजीव उदयपुर।

विषय- Approval of wildlife conservation plan, Schedule -I Species for Sindesar Khurd Mines of M/s Hindusthan Zinc Limited located at village Sindesar Khurd, Tehsil Railmagra Dist. Rajsamand (MI.No. 07/95)

संदर्भ- प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक राज. जयपुर के पत्रांक 212 दिनांक 28.01.2022 के कम में

महोदय

उपरोक्त विषयान्तर्गत निवेदन है संदर्भित पत्र से मैसर्स हिन्दुस्तान जिंक लि. दरीबा राजसमन्द का wildlife conservation plan (200 lakh) for Hindustan Zinc Ltd. Sindesar khurd, Mines MI.No. 07/95 का 10.51 करोड रूपये की वन्यजीव संरक्षण योजना (WCP) बनाने हेतु निर्देशित किया गया था।

मैसर्स हिन्दुस्तान जिंक लि. दरीबा राजसमन्द के पत्रांक दिनांक 23.03.2024 द्वारा 10.51 करोड रूपये की वन्यजीव संरक्षण योजना (WCP) तैयार कर इस कार्यालय को अनुमोदनार्थ प्रस्तुत किया गया है। उल्लेखनीय है कि प्रयोक्ता अभिकरण को RPACS खाते में वन्यजीव संरक्षण योजना (WCP) 10.51 करोड की कुल 20 प्रतिशत (10.51X20/100=2.102करोड) राशि जमा करवानी थी, जिसमें से 40 लाख दिनांक 13.04.2021 एवं 170.20 लाख दिनांक 21.06.2023 को कुल राशि 2.102 करोड रूपये जमा करवा दिया गये है।

इस कार्यालय द्वारा वन्यजीव संरक्षण योजना (WCP) में वांछित पूर्ति उपरान्त अनुमोदन कराने हेतु संलग्न प्रेषित है।

संलग्न- प्रस्ताव 2 प्रतियों

भवदीय

(सुदर्शन शर्मा)

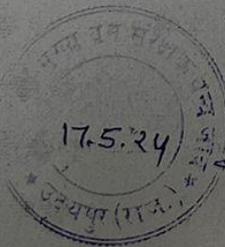
उप वन संरक्षक  
वन्यजीव राजसमन्द  
दिनांक

क्रमांक एफ(उपसवजी/सर्वे/2024

प्रतिलिपी- निम्न को सूचनार्थ एवं आवश्यक कार्यवाही हेतु प्रेषित है।

1. प्रधान मुख्य वन संरक्षक एवं मुख्य वन्यजीव प्रतिपालक राज. जयपुर
2. मैसर्स हिन्दुस्तान जिंक लिमी. दरीबा राजसमन्द

उप वन संरक्षक  
वन्यजीव राजसमन्द



RajKaj Ref  
6771236



Signature valid

Digitally signed by Sudarshan Sharma  
Designation: Deputy Conservator Of  
Forest  
Date: 2024.04.24 15:34:42 IST  
Reason: Approved

## Annexure-7

## 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 (RJ-35620)
e-LORA Institution Number	RJ-35620
SSR Reporting period	JAN-2025

## Inventory of the Nucleonic Gauges/Sources

1.	Total number of Nucleonic Gauge (NG) devices/sources in possession of your institution:	34
2.	Total number of NG devices/sources not in use:	0
3.	Total number of NG devices/sources which are disused and to be disposed off :	0
4.	Steps being taken to dispose of disused sources, if any:	NA

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

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

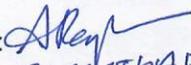
**DETAILS OF NUCLEONIC GAUGES**

S.No	Make & Model of nucleonic devices	Number of nucleonic devices	Serial number of nucleonic device	Source & Activity	Location/Plant name	* Stray Radiation Level from External housing of device ( $\mu\text{Sv/hr}$ or mR/hr)		Reference No. of NOC issued by AERB/BARC	the device ( In use/ To be installed/ To be disposed off)
						5 cm	100 cm		
1	Berthold LB491	1	463-02-10	Cs137 & 15mCi	U/F HYDROFILL	2.01	0.14	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
2	Berthold LB491	1	464-02-10	Cs137 & 15mCi	U/F HYDROFILL	1.83	0.21	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
3	Berthold LB491	1	465-02-10	Cs137 & 15mCi	REGRIND CYCLONE FEED	1.32	0.33	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
4	Berthold LB491	1	466-02-10	Cs137 & 10mCi	PR-SEC CYCLONE STR-1	1.68	0.09	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
5	Berthold LB491	1	467-02-10	Cs137 & 10mCi	PR-SEC CYCLONE STR-2	1.54	0.12	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
6	Berthold LB491	1	468-02-10	Cs137 & 10mCi	TDPH	1.13	0.08	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
7	Berthold LB491	1	469-02-10	Cs137 & 10mCi	TDPH	1.23	0.09	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
8	Berthold LB491	1	470-02-10	Cs137 & 10mCi	TDPH	1.18	0.12	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
9	Berthold LB491	1	471-02-10	Cs137 & 10mCi	TAILING THICKENER	1.34	0.25	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
10	Berthold LB491	1	472-02-10	Cs137 & 6mCi	Zn THICKENER	1.66	0.38	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
11	Berthold LB491	1	473-02-10	Cs137 & 20mCi	Pb THICKENER	2.15	0.35	AERB/RSD/NG/NR435/2010/2641 Dt 22/03/2010	in Use
12	Berthold LB491	1	1017-06-10	Cs137 & 10mCi	TAILING THICKENER	1.72	0.47	AERB/RSD/NG/NR435/2011/2067 Dt.15/02/2011	in Use
13	E&H FQG31	1	TB616	Cs137 & 200mCi	Shaft Orebin High	2.08	0.45	AERB/RSD/NG/NR435/2010/9983 Dt.14/10/2010	in Use
14	E&H FQG31	1	TB617	Cs137 & 200mCi	PCH HIGH LEVEL	1.95	0.8	AERB/RSD/NG/NR435/2010/9983 Dt.14/10/2010	in Use
15	Berthold LB491	1	1372-08-12	Cs137 & 20mCi	CYCLONE FEED HYDROFILL	1.75	0.45	AERB/RSD/NG/NR435/2012/10504 Dt.23/08/2012	in Use
16	Berthold LB491	1	1373-08-12	Cs137 & 20mCi	CYCLONE FEED HYDROFILL	1.85	0.29	AERB/RSD/NG/NR435/2012/10504 Dt.23/08/2012	in Use
17	Berthold LB491	1	1374-08-12	Cs137 & 10mCi	HYDROFILL Mixing Tank U/f	2.52	0.63	AERB/RSD/NG/NR435/2012/10504 Dt.23/08/2012	in Use
18	Berthold LB491	1	1375-08-12	Cs137 & 10mCi	HYDROFILL Mixing Tank U/f	1.66	0.45	AERB/RSD/NG/NR435/2012/10504 Dt.23/08/2012	in Use
19	Berthold LB491	1	1514-08-13	Cs137 & 50mCi	PASTE FILL- TAILING THICKN	3.5	0.22	AERB/RSD/NG/NR435/2013/11772 Dt.02/09/2013	in Use
20	Berthold LB491	1	1515-08-13	Cs137 & 50mCi	PASTE FILL- TAILING THICKN	2.9	0.21	AERB/RSD/NG/NR435/2013/11772 Dt.02/09/2013	in Use
21	Berthold LB491	1	1516-08-13	Cs137 & 20mCi	PASTE FILL-1	1.41	0.12	AERB/RSD/NG/NR435/2013/11772 Dt.02/09/2013	in Use
22	Berthold LB491	1	1599-09-13	Cs137 & 20mCi	PASTE FILL-1	1.33	0.09	AERB/RSD/NG/NR435/2013/12841 Dt.24/09/2013	in Use
23	FQG60	1	LB000D01145	Cs137 & 5mCi	REGRIND CYCLONE FEED	0.61	0.29	16-NGPROC-128695	in Use
24	FQG60	1	LB000C01145	Cs137 & 1mCi	ZN THICKENER ST-2	3.6	0.64	16-NGPROC-128694	in Use
25	FQG60	1	LB000901145	Cs137 & 3mCi	TAILING THICKENER ST-2	1.88	0.23	16-NGPROC-128693	in Use
26	FQG61	1	LB004B0113F	Cs137 & 30mCi	LEAD THICKENER ST-2	2.16	0.96	16-NGPROC-128687	in Use
27	FQG61	1	LB004A0113F	Cs137 & 10mCi	TAILING BATTERY 1	2.18	0.3	16-NGPROC-128693	in Use
28	FQG60	1	LB000D01145	Cs137 & 2mCi	TAILING BATTERY 2	2.15	0.35	16-NGPROC-128692	in Use
29	FQG60	1	LB000D01145	Cs137 & 2mCi	TAILING BATTERY 3	1.23	0.43	16-NGPROC-128691	in Use
30	FQG60	1	LB000801145	Cs137 & 2mCi	PASTEFILL BATTERY -1	2.32	0.46	16-NGPROC-128690	in Use
31	FQG60	1	LB000A01145	Cs137 & 3mCi	PASTEFILL BATTERY -2	3.62	0.34	16-NGPROC-128688	in Use
32	FQG60	1	LB000B01145	Cs137 & 3mCi	GRINDING CYCLONE FEED	0.96	0.21	16-NGPROC-128689	in Use
33	V.G. Khlopin Radium Institute/AM234	1	Am241.25.16	Am241/30mCi	Mill-2-MSA	2.85	0.51	16-NGPROC-135237	in Use
34	V.G. Khlopin Radium Institute/AM234	1	Am241.17.17	Am241/30mCi	Mill-3-MSA	3.15	0.67	18-NGPROC-264321	in Use

**Declaration:**

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

Radiation Safety Officer

Signature:   
Name: A. RAJASEKAR  
Date: 21/01/2025



(Seal of the Institution)

Employer/Licensee

Signature:   
Name: ANSHUL KUMAR KHANDEJWAL  
Date: 21/01/2025

## Annexure-8



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

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

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

Project Name:		M/s Hindustan Zinc Limited											
Project Address:		M/s Hindustan Zinc Limited											
Village:		Sindesarkhurd		Block:		Railmagra							
District:		Rajsamand		State:		Rajasthan							
Pin Code:													
Communication Address:		M/s Hindustan Zinc Limited, Sindesar Khurd Mines, Po Dariba, , 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/3/2024/10407			2. Date of Issuance	31/12/2024								
3. Application No.:	21-4/308/RJ/MIN/2008			4. Category: (GWRE 2023)	Over Exploited								
5. Project Status:	Existing With Additional Ground Water Requirment			6. NOC Type:	Renewal								
7. Valid from:	24/09/2024			8. Valid up to:	23/09/2026								
9. Ground Water Abstraction Permitted:													
Fresh Water		Saline Water		Dewatering		Total							
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	m <sup>3</sup> /day	m <sup>3</sup> /year						
0.00	0.00			395.00	144175.00	395.00	144175.00						
10. Details of ground water abstraction /Dewatering structures													
Total Existing No.:3							Total Proposed No.:0						
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu	
Dewatering Structure*	0	0	0	0	0	3	0	0	0	0	0	0	
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps													
11. Ground Water Abstraction/Restoration Charges paid (Rs.):							2883500.00						
12. Environment Compensation (if applicable) paid (Rs.):							0.00						
13. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.					No. of Piezometers			Monitoring Mechanism					
								Manual	DWLR**	DWLR With Telemetry			
**DWLR - Digital Water Level Recorder					1			0	1	0			

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

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये  
SAVE WATER - SAVE LIFE

Annexure-9



**HINDUSTAN ZINC LIMITED**

**COMPREHENSIVE HYDROGEOLOGICAL  
REPORT**

**FOR**

**SINDESAR KHURD MINE**

**IN**

**VILLAGE: SINDESAR KHURD, BLOCK: RAILMAGRA  
TEHSIL: RAILMAGRA, DIST.: RAJSAMAND  
STATE: RAJASTHAN**

**SEPTEMBER 2024**

**Revision: Nil**

<b>Prepared By</b>		
<b>FLOODKON CONSULTANTS LLP B-125, LOGIX TECHNOVA, SECTOR-132, NOIDA, UTTAR PRADESH-201304 Accredited by QCI – NABET</b>		 <b>(Project Coordinator)</b>

### 2.3 Land Use/ Land Cover of the Surrounding area

Land cover indicates the physical land type such as forest, wetlands, agricultural land and water types whereas Land use documents how people are using the land. Changes in the landcover can lead to significant contributions to stream and recharge, runoff as well as soil erosion through complex interactions among vegetation, soils, geology, terrain and climate processes.

For the year 2022, the Land use/Landcover (LU/LC) for the study area has been prepared using the ESRI Land use/Landcover (LU/LC) timeseries layer derived from ESA sentinel – 2 imageries at 10 m resolution. The LU/LC map of the study area is provided on Plate 2.4.

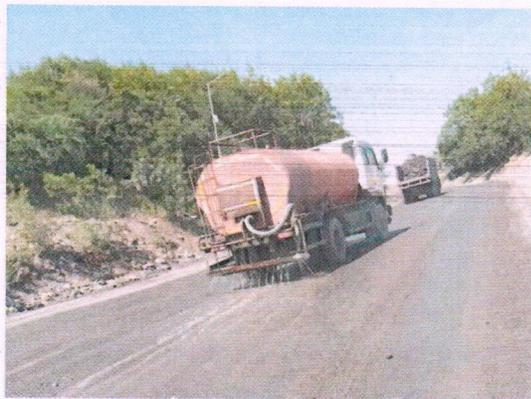
From the LU/LC, it can be observed that in Core zone (2 Km), the area is majorly occupied by agricultural land followed by built-up area and barren land. The remaining other classes occupy less than 5% of the Core zone. Whereas in the Buffer zone (10 Km), the area is majorly occupied by agricultural land followed by Barren Land and built-up area. The remaining other classes occupy less than 5% of the Buffer zone. Table 2.1 shows the distribution of different classes in the core and buffer zone.

**Table 2.1 Land use/ land cover of the study area**

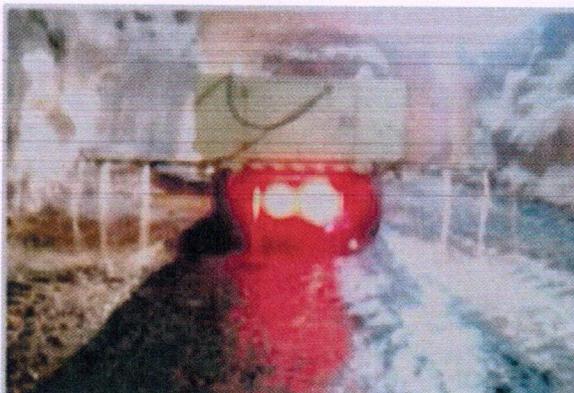
	Description	Core Zone (2 Km)		Buffer Zone (10 Km)	
		Area (ha)	Area %	Area (ha)	Area %
	Water Body	0.02	0.00	175.26	0.46
	Forest Area	9.46	0.34	261.2	0.68
	Agricultural Land	2326.08	82.65	29926.48	78.11
	Built-up Area	265.66	9.44	3007.95	7.85
	Wasteland	1.34	0.05	507.99	1.33
	Barren Land	211.72	7.52	4433.92	11.57
	<b>Total</b>	<b>2814.28</b>	<b>100.00</b>	<b>38312.80</b>	<b>100.00</b>

# Annexure-10

## 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



Analyzing for an Assured  
Future

# NOIDA TESTING LABORATORIES

(A Government of India Approved Testing Laboratory)

(An ISO : 9001 : 2015, ISO 45001 : 2018 (OH&S) Certified & NABL Accredited Laboratory)  
MoEF & CC (Ministry of Environment, Forest & Climate Change), UPPCB Recognized Laboratory

+91-9313611642, 8510081921, 7503031145, 8527870572, 7503031146, 9999794369



TC-6814

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue	ULR No.
Water	W-241224-09	28/12/2024	TC681424000012538F

Name of Client : M/s Hindustan Zinc Limited.

Address of Client : Sindesar Khurd Mine, Village Sindesar Khurd,  
Tehsil Relmagra, District Rajsamand, Rajasthan-313329.

Sample Description : Ground Water Sample Marked as Pz-1 & Pz-2  
Sample Submitted By : Client

Date of Receipt Sample : 07.12.2024  
Sample Quantity : 2.0 L Bottle  
Analysis Duration : 07.12.24 to 11.12.24  
Sample Condition : OK & Sealed

S. No.	Parameter	Units	Sample Code		Protocol	IS-10500:2012	
			Pz-1	Pz-2		Requirement (Acceptable Limit)	Permissible Limit
1.	pH (at 25°C)	--	7.40	7.51	IS-3025(P-11)	6.5 to 8.5	No relaxation
2.	Electrical Conductivity (at 25°C)	µS/cm	2190	2850	IS-3025(P-14)	-	-
3.	Total Dissolve Solids	mg/l	1300	1680	IS-3025(P-16)	500	2000
4.	Colour	Hazen	BDL	BDL	IS-3025(P-04)	5	15
5.	Turbidity	NTU	BDL	1.0	IS-3025(P-10)	1	5
6.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	260	300	IS: 3025 (P- 23)	200	600
7.	Calcium as Ca	mg/l	84.17	116.23	IS: 3025 (P- 40)	75	200
8.	Magnesium as Mg	mg/l	46.21	55.94	IS: 3025 (P-46)	30	100
9.	Total Hardness as CaCO <sub>3</sub>	mg/l	400	520	IS: 3025 (P- 21)	200	600
10.	Chloride as Cl	mg/l	309.90	374.88	IS: 3025 (P- 32)	250	1000
11.	Sulphate as SO <sub>4</sub>	mg/l	148.50	162.40	IS: 3025 (P- 24)	200	400
12.	Nitrate as NO <sub>3</sub>	mg/l	20.40	18.30	IS: 3025 (P- 34)	45	No relaxation
13.	Fluoride as F	mg/l	1.10	1.00	IS: 3025 (P-60)	1	1.5
14.	Iron as Fe	mg/l	BDL	BDL	IS: 3025(P-53)	0.3	No relaxation
15.	Lead as Pb	mg/l	BDL	BDL	IS-3025(P-47)	0.01	No relaxation
16.	Cadmium as Cd	mg/l	BDL	BDL	IS: 3025 (P- 41)	0.003	No relaxation
17.	Zinc as Zn	mg/l	BDL	BDL	IS: 3025 (P- 49)	5	15
18.	Copper as Cu	mg/l	BDL	BDL	IS: 3025 (P-42)	0.05	1.5
19.	Chromium as Cr+6	mg/l	BDL	BDL	IS-3025(P-52)	-	-
20.	Nickel as Ni	mg/l	BDL	BDL	IS: 3025 (P-52)	0.02	No relaxation
21.	Manganese as Mn	mg/l	BDL	BDL	IS-3025(P-59)	0.1	0.3
22.	Dissolved Oxygen	mg/l	4.2	3.8	IS:3025(Part-38)	-	-

BDL: Below Detection Limit

### Notes:

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TC-6814

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue	ULR No.
Water	W-241224-010	28/12/2024	TC681424000012539F

Name of Client : M/s Hindustan Zinc Limited.

Address of Client : Sindesar Khurd Mine, Village Sindesar Khurd,  
Tehsil Relmagra, District Rajsamand, Rajasthan-313329.

Sample Description : Ground Water Sample Marked as Pz-3 & Pz-4  
Sample Submitted By : Client

Date of Receipt Sample : 07.12.2024  
Sample Quantity : 2.0 L Bottle  
Analysis Duration : 07.12.24 to 11.12.24  
Sample Condition : OK & Sealed

S. No.	Parameter	Units	Sample Code		Protocol	IS-10500:2012	
			Pz-3	Pz-4		Requirement (Acceptable Limit)	Permissible Limit
1.	pH (at 25°C)	--	7.30	7.74	IS-3025(P-11)	6.5 to 8.5	No relaxation
2.	Electrical Conductivity (at 25°C)	µS/cm	1050	990	IS-3025(P-14)	-	-
3.	Total Dissolve Solids	mg/l	615	580	IS-3025(P-16)	500	2000
4.	Colour	Hazen	BDL	BDL	IS-3025(P-04)	5	15
5.	Turbidity	NTU	BDL	BDL	IS-3025(P-10)	1	5
6.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	110	120	IS: 3025 (P- 23)	200	600
7.	Calcium as Ca	mg/l	48.10	40.08	IS: 3025 (P- 40)	75	200
8.	Magnesium as Mg	mg/l	19.46	17.02	IS: 3025 (P-46)	30	100
9.	Total Hardness as CaCO <sub>3</sub>	mg/l	200	170	IS: 3025 (P- 21)	200	600
10.	Chloride as Cl	mg/l	184.94	164.95	IS: 3025 (P- 32)	250	1000
11.	Sulphate as SO <sub>4</sub>	mg/l	84.50	69.30	IS: 3025 (P- 24)	200	400
12.	Nitrate as NO <sub>3</sub>	mg/l	11.70	10.60	IS: 3025 (P- 34)	45	No relaxation
13.	Fluoride as F	mg/l	0.90	0.85	IS: 3025 (P-60)	1	1.5
14.	Iron as Fe	mg/l	BDL	BDL	IS: 3025(P-53)	0.3	No relaxation
15.	Lead as Pb	mg/l	BDL	BDL	IS-3025(P-47)	0.01	No relaxation
16.	Cadmium as Cd	mg/l	BDL	BDL	IS: 3025 (P- 41)	0.003	No relaxation
17.	Zinc as Zn	mg/l	BDL	BDL	IS: 3025 (P- 49)	5	15
18.	Copper as Cu	mg/l	BDL	BDL	IS: 3025 (P-42)	0.05	1.5
19.	Chromium as Cr+6	mg/l	BDL	BDL	IS-3025(P-52)	--	-
20.	Nickel as Ni	mg/l	BDL	BDL	IS: 3025 (P-52)	0.02	No relaxation
21.	Manganese as Mn	mg/l	BDL	BDL	IS-3025(P-59)	0.1	0.3
22.	Dissolved Oxygen	mg/l	4.0	4.2	IS:3025(Part-38)	-	-

BDL: Below Detection Limit

### Notes:

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*J. Shekhar*  
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TC-6814

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue	ULR No.
Water	W-241224-011	28/12/2024	TC681424000012540F

Name of Client : M/s Hindustan Zinc Limited.

Address of Client : Sindesar Khurd Mine, Village Sindesar Khurd,  
Tehsil Relmagra, District Rajsamand, Rajasthan-313329.

Sample Description : Ground Water  
Sample Marked as Pz-5

Sample Submitted By : Client

Date of Receipt Sample : 07.12.2024  
Sample Quantity : 2.0 L Bottle

Analysis Duration : 07.12.24 to 11.12.24  
Sample Condition : OK & Sealed

S. No.	Parameter	Units	Sample Code	Protocol	IS-10500:2012	
			Pz-5		Requirement (Acceptable Limit)	Permissible Limit
1.	pH (at 25°C)	--	7.39	IS-3025(P-11)	6.5 to 8.5	No relaxation
2.	Electrical Conductivity (at 25°C)	µS/cm	1020	IS-3025(P-14)	-	-
3.	Total Dissolve Solids	mg/l	590	IS-3025(P-16)	500	2000
4.	Colour	Hazen	BDL	IS-3025(P-04)	5	15
5.	Turbidity	NTU	2.0	IS-3025(P-10)	1	5
6.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	110	IS: 3025 (P- 23)	200	600
7.	Calcium as Ca	mg/l	44.09	IS: 3025 (P- 40)	75	200
8.	Magnesium as Mg	mg/l	17.02	IS: 3025 (P-46)	30	100
9.	Total Hardness as CaCO <sub>3</sub>	mg/l	180	IS: 3025 (P- 21)	200	600
10.	Chloride as Cl	mg/l	174.95	IS: 3025 (P- 32)	250	1000
11.	Sulphate as SO <sub>4</sub>	mg/l	70.10	IS: 3025 (P- 24)	200	400
12.	Nitrate as NO <sub>3</sub>	mg/l	11.20	IS: 3025 (P- 34)	45	No relaxation
13.	Fluoride as F	mg/l	0.90	IS: 3025 (P-60)	1	1.5
14.	Iron as Fe	mg/l	BDL	IS: 3025(P-53)	0.3	No relaxation
15.	Lead as Pb	mg/l	BDL	IS-3025(P-47)	0.01	No relaxation
16.	Cadmium as Cd	mg/l	BDL	IS: 3025 (P- 41)	0.003	No relaxation
17.	Zinc as Zn	mg/l	BDL	IS: 3025 (P- 49)	5	15
18.	Copper as Cu	mg/l	BDL	IS: 3025 (P-42)	0.05	1.5
19.	Chromium as Cr+6	mg/l	BDL	IS-3025(P-52)	-	-
20.	Nickel as Ni	mg/l	BDL	IS: 3025 (P-52)	0.02	No relaxation
21.	Manganese as Mn	mg/l	BDL	IS-3025(P-59)	0.1	0.3
22.	Dissolved Oxygen	mg/l	4.4	IS:3025(Part-38)	-	-

BDL: Below Detection Limit

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TC-6814

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue	ULR No.
Water	W-241224-012	28/12/2024	TC681424000012541F

Name of Client : M/s Hindustan Zinc Limited.

Address of Client : Sindesar Khurd Mine, Village Sindesar Khurd,  
Tehsil Relmagra, District Rajsamand, Rajasthan-313329.

Sample Description : Ground Water  
Sample Marked as K-1 & K-2

Sample Submitted By : Client

Date of Receipt Sample : 07.12.2024  
Sample Quantity : 2.0 L Bottle

Analysis Duration : 07.12.24 to 11.12.24  
Sample Condition : OK & Sealed

S. No.	Parameter	Units	Sample Code		Protocol	IS-10500:2012	
			K-1	K-2		Requirement (Acceptable Limit)	Permissible Limit
1.	pH (at 25°C)	--	7.76	7.44	IS-3025(P-11)	6.5 to 8.5	No relaxation
2.	Electrical Conductivity (at 25°C)	µS/cm	1600	1750	IS-3025(P-14)	-	-
3.	Total Dissolve Solids	mg/l	960	1030	IS-3025(P-16)	500	2000
4.	Colour	Hazen	BDL	BDL	IS-3025(P-04)	5	15
5.	Turbidity	NTU	BDL	1.0	IS-3025(P-10)	1	5
6.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	200	230	IS: 3025 (P- 23)	200	600
7.	Calcium as Ca	mg/l	64.13	68.14	IS: 3025 (P- 40)	75	200
8.	Magnesium as Mg	mg/l	29.18	36.48	IS: 3025 (P-46)	30	100
9.	Total Hardness as CaCO <sub>3</sub>	mg/l	280	320	IS: 3025 (P- 21)	200	600
10.	Chloride as Cl	mg/l	264.92	279.91	IS: 3025 (P- 32)	250	1000
11.	Sulphate as SO <sub>4</sub>	mg/l	116.80	122.50	IS: 3025 (P- 24)	200	400
12.	Nitrate as NO <sub>3</sub>	mg/l	16.30	19.70	IS: 3025 (P- 34)	45	No relaxation
13.	Fluoride as F	mg/l	1.10	1.00	IS: 3025 (P-60)	1	1.5
14.	Iron as Fe	mg/l	0.02	BDL	IS: 3025(P-53)	0.3	No relaxation
15.	Lead as Pb	mg/l	BDL	BDL	IS-3025(P-47)	0.01	No relaxation
16.	Cadmium as Cd	mg/l	BDL	BDL	IS: 3025 (P- 41)	0.003	No relaxation
17.	Zinc as Zn	mg/l	BDL	BDL	IS: 3025 (P- 49)	5	15
18.	Copper as Cu	mg/l	BDL	BDL	IS: 3025 (P-42)	0.05	1.5
19.	Chromium as Cr+6	mg/l	BDL	BDL	IS-3025(P-52)	-	-
20.	Nickel as Ni	mg/l	BDL	BDL	IS: 3025 (P-52)	0.02	No relaxation
21.	Manganese as Mn	mg/l	BDL	BDL	IS-3025(P-59)	0.1	0.3
22.	Dissolved Oxygen	mg/l	4.0	4.3	IS:3025(Part-38)	-	-

BDL: Below Detection Limit

**Notes:**

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TC-6814

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue	ULR No.
Water	W-241224-013	28/12/2024	TC681424000012542F

Name of Client : M/s Hindustan Zinc Limited.

Address of Client : Sindesar Khurd Mine, Village Sindesar Khurd,  
Tehsil Reimgara, District Rajsamand, Rajasthan-313329.

Sample Description : Ground Water  
Sample Marked as K-3 & K-4

Sample Submitted By : Client

Date of Receipt Sample : 07.12.2024

Analysis Duration : 07.12.24 to 11.12.24

Sample Quantity : 2.0 L Bottle

Sample Condition : OK & Sealed

S. No.	Parameter	Units	Sample Code		Protocol	IS-10500:2012	
			K-3	K-4		Requirement (Acceptable Limit)	Permissible Limit
1.	pH (at 25°C)	--	7.63	7.50	IS-3025(P-11)	6.5 to 8.5	No relaxation
2.	Electrical Conductivity (at 25°C)	µS/cm	1260	2350	IS-3025(P-14)	-	-
3.	Total Dissolve Solids	mg/l	745	1440	IS-3025(P-16)	500	2000
4.	Colour	Hazen	BDL	BDL	IS-3025(P-04)	5	15
5.	Turbidity	NTU	BDL	BDL	IS-3025(P-10)	1	5
6.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	180	310	IS: 3025 (P- 23)	200	600
7.	Calcium as Ca	mg/l	60.12	96.19	IS: 3025 (P- 40)	75	200
8.	Magnesium as Mg	mg/l	26.75	43.78	IS: 3025 (P-46)	30	100
9.	Total Hardness as CaCO <sub>3</sub>	mg/l	260	420	IS: 3025 (P- 21)	200	600
10.	Chloride as Cl	mg/l	209.93	379.88	IS: 3025 (P- 32)	250	1000
11.	Sulphate as SO <sub>4</sub>	mg/l	130.10	160.50	IS: 3025 (P- 24)	200	400
12.	Nitrate as NO <sub>3</sub>	mg/l	14.50	23.60	IS: 3025 (P- 34)	45	No relaxation
13.	Fluoride as F	mg/l	1.20	1.20	IS: 3025 (P-60)	1	1.5
14.	Iron as Fe	mg/l	BDL	0.03	IS: 3025(P-53)	0.3	No relaxation
15.	Lead as Pb	mg/l	BDL	BDL	IS-3025(P-47)	0.01	No relaxation
16.	Cadmium as Cd	mg/l	BDL	BDL	IS: 3025 (P- 41)	0.003	No relaxation
17.	Zinc as Zn	mg/l	BDL	BDL	IS: 3025 (P- 49)	5	15
18.	Copper as Cu	mg/l	BDL	BDL	IS: 3025 (P-42)	0.05	1.5
19.	Chromium as Cr+6	mg/l	BDL	BDL	IS-3025(P-52)	-	-
20.	Nickel as Ni	mg/l	BDL	BDL	IS: 3025 (P-52)	0.02	No relaxation
21.	Manganese as Mn	mg/l	BDL	BDL	IS-3025(P-59)	0.1	0.3
22.	Dissolved Oxygen	mg/l	4.0	3.9	IS:3025(Part-38)	-	-

BDL: Below Detection Limit

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TC-6814

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue	ULR No.
Water	W-241224-014	28/12/2024	TC681424000012543F

Name of Client : M/s Hindustan Zinc Limited.

Address of Client : Sindesar Khurd Mine, Village Sindesar Khurd,  
Tehsil Relmagra, District Rajsamand, Rajasthan-313329.

Sample Description : Ground Water  
Sample Marked as K-5 & K-6

Sample Submitted By : Client

Date of Receipt Sample : 07.12.2024

Analysis Duration : 07.12.24 to 11.12.24

Sample Quantity : 2.0 L Bottle

Sample Condition : OK & Sealed

S. No.	Parameter	Units	Sample Code		Protocol	IS-10500:2012	
			K-5	K-6		Requirement (Acceptable Limit)	Permissible Limit
1.	pH (at 25°C)	--	7.64	7.31	IS-3025(P-11)	6.5 to 8.5	No relaxation
2.	Electrical Conductivity (at 25°C)	µS/cm	3140	2910	IS-3025(P-14)	-	-
3.	Total Dissolve Solids	mg/l	1950	1800	IS-3025(P-16)	500	2000
4.	Colour	Hazen	BDL	BDL	IS-3025(P-04)	5	15
5.	Turbidity	NTU	2.0	BDL	IS-3025(P-10)	.1	5
6.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	360	340	IS: 3025 (P- 23)	200	600
7.	Calcium as Ca	mg/l	140.28	128.26	IS: 3025 (P- 40)	75	200
8.	Magnesium as Mg	mg/l	55.94	53.50	IS: 3025 (P-46)	30	100
9.	Total Hardness as CaCO <sub>3</sub>	mg/l	580	540	IS: 3025 (P- 21)	200	600
10.	Chloride as Cl	mg/l	489.85	479.85	IS: 3025 (P- 32)	250	1000
11.	Sulphate as SO <sub>4</sub>	mg/l	170.80	155.10	IS: 3025 (P- 24)	200	400
12.	Nitrate as NO <sub>3</sub>	mg/l	19.40	20.30	IS: 3025 (P- 34)	45	No relaxation
13.	Fluoride as F	mg/l	1.35	1.25	IS: 3025 (P-60)	1	1.5
14.	Iron as Fe	mg/l	BDL	BDL	IS: 3025(P-53)	0.3	No relaxation
15.	Lead as Pb	mg/l	BDL	BDL	IS-3025(P-47)	0.01	No relaxation
16.	Cadmium as Cd	mg/l	BDL	BDL	IS: 3025 (P- 41)	0.003	No relaxation
17.	Zinc as Zn	mg/l	BDL	BDL	IS: 3025 (P- 49)	5	15
18.	Copper as Cu	mg/l	BDL	BDL	IS: 3025 (P-42)	0.05	1.5
19.	Chromium as Cr+6	mg/l	BDL	BDL	IS-3025(P-52)	-	-
20.	Nickel as Ni	mg/l	BDL	BDL	IS: 3025 (P-52)	0.02	No relaxation
21.	Manganese as Mn	mg/l	BDL	BDL	IS-3025(P-59)	0.1	0.3
22.	Dissolved Oxygen	mg/l	3.8	4.4	IS:3025(Part-38)	-	-

BDL: Below Detection Limit

### Notes:

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TC-6814

## TEST CERTIFICATE

Test Report of	Report Code	Date of Issue	ULR No.
Water	W-241224-015	28/12/2024	TC681424000012544F

Name of Client : M/s Hindustan Zinc Limited.

Address of Client : Sindesar Khurd Mine, Village Sindesar Khurd,  
Tehsil Relmagra, District Rajsamand, Rajasthan-313329.

Sample Description : Ground Water  
Sample Marked as K-7 & K-8

Sample Submitted By : Client

Date of Receipt Sample : 07.12.2024

Analysis Duration : 07.12.24 to 11.12.24

Sample Quantity : 2.0 L Bottle

Sample Condition : OK & Sealed

S. No.	Parameter	Units	Sample Code		Protocol	IS-10500:2012	
			K-7	K-8		Requirement (Acceptable Limit)	Permissible Limit
1.	pH (at 25°C)	--	7.66	7.52	IS-3025(P-11)	6.5 to 8.5	No relaxation
2.	Electrical Conductivity (at 25°C)	µS/cm	1980	2400	IS-3025(P-14)	-	-
3.	Total Dissolve Solids	mg/l	1240	1420	IS-3025(P-16)	500	2000
4.	Colour	Hazen	BDL	BDL	IS-3025(P-04)	5	15
5.	Turbidity	NTU	BDL	1.0	IS-3025(P-10)	1	5
6.	Total Alkalinity as CaCO <sub>3</sub>	mg/l	260	310	IS: 3025 (P- 23)	200	600
7.	Calcium as Ca	mg/l	88.18	96.19	IS: 3025 (P- 40)	75	200
8.	Magnesium as Mg	mg/l	31.62	41.34	IS: 3025 (P-46)	30	100
9.	Total Hardness as CaCO <sub>3</sub>	mg/l	350	410	IS: 3025 (P- 21)	200	600
10.	Chloride as Cl	mg/l	294.91	369.89	IS: 3025 (P- 32)	250	1000
11.	Sulphate as SO <sub>4</sub>	mg/l	139.40	160.20	IS: 3025 (P- 24)	200	400
12.	Nitrate as NO <sub>3</sub>	mg/l	21.60	26.70	IS: 3025 (P- 34)	45	No relaxation
13.	Fluoride as F	mg/l	1.10	1.25	IS: 3025 (P-60)	1	1.5
14.	Iron as Fe	mg/l	0.03	BDL	IS: 3025(P-53)	0.3	No relaxation
15.	Lead as Pb	mg/l	BDL	BDL	IS-3025(P-47)	0.01	No relaxation
16.	Cadmium as Cd	mg/l	BDL	BDL	IS: 3025 (P- 41)	0.003	No relaxation
17.	Zinc as Zn	mg/l	BDL	BDL	IS: 3025 (P- 49)	5	15
18.	Copper as Cu	mg/l	BDL	BDL	IS: 3025 (P-42)	0.05	1.5
19.	Chromium as Cr+6	mg/l	BDL	BDL	IS-3025(P-52)	-	-
20.	Nickel as Ni	mg/l	BDL	BDL	IS: 3025 (P-52)	0.02	No relaxation
21.	Manganese as Mn	mg/l	BDL	BDL	IS-3025(P-59)	0.1	0.3
22.	Dissolved Oxygen	mg/l	4.0	3.8	IS:3025(Part-38)	-	-

BDL: Below Detection Limit

### Notes:

- The results given above are related to the tested sample, as received & mentioned parameters. The customer asked for the above tests only.
- Responsibility of the Laboratory is limited to the invoiced amount only.
- This test report will not be generated again, either wholly or in part, without prior written permission of the laboratory.
- The test samples will be disposed of after two weeks from the date of issue of test report, unless until specified by the customer.

*Sheelosh*  
CHECKED BY

*(Signature)*  
AUTHORIZED SIGNATORY



Laboratory : GT-20, Sector-117, NOIDA, Gautam Budh Nagar - 201316

Branch Office : IP-2, Haridwar, Uttarakhand | Gayatri Nagar, Kathgodam, Haldwani, Uttarakhand

E.: noida.laboratory@gmail.com, info@noidalabs.com W.: www.noidalabs.com

# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241023/16	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AN/20241023/16	Date of Report: 31.10.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 23.10.2024  
Date of start of testing : 23.10.2024  
Date of end of testing : 24.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Encline Area  
Parameter required : Ambient Noise

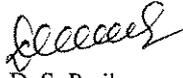
### Results

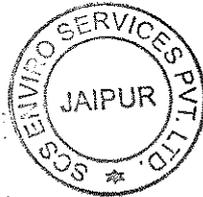
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	69.1	58.4

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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- This report cannot be reproduced without the written permission of the director.
- The sample will be destroyed after 15 days from the date of issue of the test report.
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- All disputes are subjected to Jaipur jurisdiction.

# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241023/17	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AN/20241023/17	Date of Report: 31.10.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 23.10.2024  
Date of start of testing : 23.10.2024  
Date of end of testing : 24.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	55.7	48.2

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm  
2. Night time if from 10.00 pm to 6 am  
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.  
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JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241023/18	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AN/20241023/18	Date of Report: 31.10.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 23.10.2024  
Date of start of testing : 23.10.2024  
Date of end of testing : 24.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : Ambient Noise

### Results

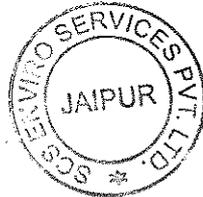
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	73.3	56.6

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241023/19	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AN/20241023/19	Date of Report: 31.10.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 23.10.2024  
Date of start of testing : 23.10.2024  
Date of end of testing : 17.08.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Bamania Kalan Area  
Parameter required : Ambient Noise

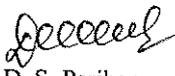
### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	54.6	44.2

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm  
2. Night time if from 10.00 pm to 6 am  
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241023/20	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AN/20241023/20	Date of Report: 31.10.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 24.10.2024  
Date of start of testing : 24.10.2024  
Date of end of testing : 25.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : Ambient Noise

### Results

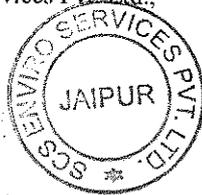
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	62.1	52.0

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm  
2. Night time if from 10.00 pm to 6 am  
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JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241023/21	Date of Registration: 23.10.2024
Report No. SCS/HZL-SKM/AN/20241023/21	Date of Report: 31.10.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 24.10.2024  
Date of start of testing : 24.10.2024  
Date of end of testing : 25.10.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Rajpura Village  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	58.7	44.8

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
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JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241116/28	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AN/20241116/28	Date of Report: 30.11.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 16.11.2024  
Date of end of testing : 17.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Encline Area  
Parameter required : Ambient Noise

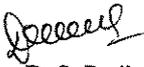
### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	64.9	62.3

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241116/29	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AN/20241116/29	Date of Report: 30.11.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 16.11.2024  
Date of end of testing : 17.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	56.5	50.7

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
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Dr. D. S. Parihar  
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CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241116/30	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AN/20241116/30	Date of Report: 30.11.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 16.11.2024  
Date of end of testing : 17.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	53.0	44.6

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
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JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241116/31	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AN/20241116/31	Date of Report: 30.11.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 16.11.2024  
Date of start of testing : 16.11.2024  
Date of end of testing : 17.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Bamania Kalan Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	53.8	43.9

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241116/32	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AN/20241116/32	Date of Report: 30.11.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 17.11.2024  
Date of start of testing : 17.11.2024  
Date of end of testing : 18.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	56.2	47.0

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
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(Technical Manager)  
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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241116/33	Date of Registration: 16.11.2024
Report No. SCS/HZL-SKM/AN/20241116/33	Date of Report: 30.11.2024

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 17.11.2024  
Date of start of testing : 17.11.2024  
Date of end of testing : 18.11.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Rajpura Village  
Parameter required : Ambient Noise

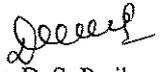
### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	54.3	44.8

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241228/11	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AN/20241228/11	Date of Report: 05.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.12.2024  
Date of start of testing : 28.12.2024  
Date of end of testing : 29.12.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Encline Area  
Parameter required : Ambient Noise

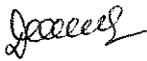
### Results

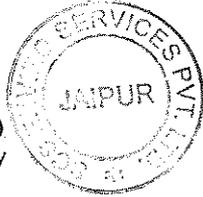
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	69.1	58.4

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241228/12	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AN/20241228/12	Date of Report: 05.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.12.2024  
Date of start of testing : 28.12.2024  
Date of end of testing : 29.12.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	55.7	48.2

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241228/13	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AN/20241228/13	Date of Report: 05.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.12.2024  
Date of start of testing : 28.12.2024  
Date of end of testing : 29.12.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : Ambient Noise

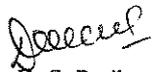
### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	73.3	56.6

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241228/14	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AN/20241228/14	Date of Report: 05.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.12.2024  
Date of start of testing : 28.12.2024  
Date of end of testing : 29.12.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Bamania Kalan Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	54.6	44.2

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241228/15	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AN/20241228/15	Date of Report: 05.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.12.2024  
Date of start of testing : 28.12.2024  
Date of end of testing : 29.12.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	62.1	52.0

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20241228/16	Date of Registration: 28.12.2024
Report No. SCS/HZL-SKM/AN/20241228/16	Date of Report: 05.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 28.12.2024  
Date of start of testing : 28.12.2024  
Date of end of testing : 29.12.2024  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Rajpura Village  
Parameter required : Ambient Noise

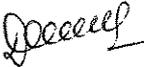
### Results

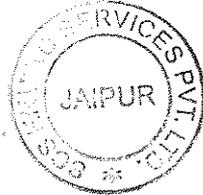
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	60.1	44.4

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00am to 10 pm
2. Night time if from 10.00 pm to 6 am
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250119/15	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AN/20250119/15	Date of Report: 28.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 19.01.2025  
Date of end of testing : 20.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Encline Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	70.2	62.1

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250119/16	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AN/20250119/16	Date of Report: 28.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 19.01.2025  
Date of end of testing : 20.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : Ambient Noise

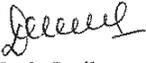
### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	57.4	51.6

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250119/17	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AN/20250119/17	Date of Report: 28.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 19.01.2025  
Date of end of testing : 20.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	71.1	59.3

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to Jaipur jurisdiction.

# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250119/18	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AN/20250119/18	Date of Report: 28.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.01.2025  
Date of start of testing : 19.01.2025  
Date of end of testing : 20.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Bamania Kalan Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	56.6	46.5

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250119/19	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AN/20250119/19	Date of Report: 28.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines.  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.01.2025  
Date of start of testing : 20.01.2025  
Date of end of testing : 21.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : Ambient Noise

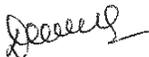
### Results

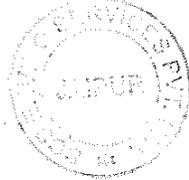
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	58.8	54.6

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250119/20	Date of Registration: 19.01.2025
Report No. SCS/HZL-SKM/AN/20250119/20	Date of Report: 28.01.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.01.2025  
Date of start of testing : 20.01.2025  
Date of end of testing : 21.01.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Rajpura Village  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	60.3	48.5

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm  
2. Night time if from 10.00 pm to 6 am  
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.  
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250227/12	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AN/20250227/12	Date of Report: 07.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 27.02.2025  
Date of start of testing : 27.02.2025  
Date of end of testing : 28.02.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Encline Area  
Parameter required : Ambient Noise

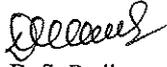
### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	69.5	65.1

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250227/13	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AN/20250227/13	Date of Report: 07.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 27.02.2025  
Date of start of testing : 27.02.2025  
Date of end of testing : 28.02.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : Ambient Noise

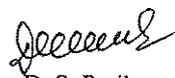
### Results

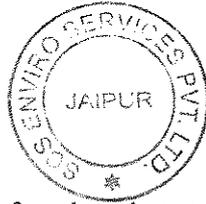
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	57.1	52.0

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250227/14	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AN/20250227/14	Date of Report: 07.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 27.02.2025  
Date of start of testing : 27.02.2025  
Date of end of testing : 28.02.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	72.8	49.7

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
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Sample ID No.: SCS/AN/20250227/15	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AN/20250227/15	Date of Report: 07.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 27.02.2025  
Date of start of testing : 27.02.2025  
Date of end of testing : 28.02.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Bamania Kalan Area  
Parameter required : Ambient Noise

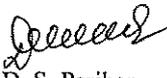
### Results

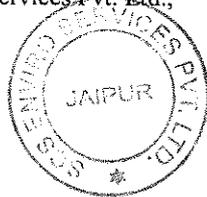
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	54.9	44.2

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250227/16	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AN/20250227/16	Date of Report: 07.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 27.02.2025  
Date of start of testing : 27.02.2025  
Date of end of testing : 28.02.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : Ambient Noise

### Results

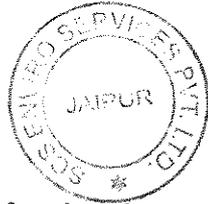
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	60.3	52.8

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250227/17	Date of Registration: 27.02.2025
Report No. SCS/HZL-SKM/AN/20250227/17	Date of Report: 07.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 27.02.2025  
Date of start of testing : 27.02.2025  
Date of end of testing : 28.02.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Rajpura Village  
Parameter required : Ambient Noise

### Results

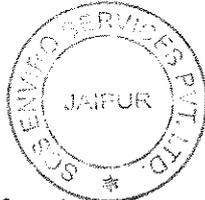
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	53.9	44.5

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250319/14	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AN/20250319/14	Date of Report: 31.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 19.03.2025  
Date of end of testing : 20.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Encline Area  
Parameter required : Ambient Noise

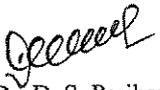
### Results

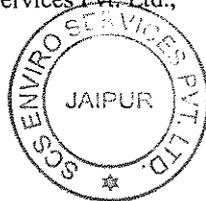
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	70.6	61.5

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
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(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250319/15	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AN/20250319/15	Date of Report: 31.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 19.03.2025  
Date of end of testing : 20.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Mine Boundary in NW Direction Area  
Parameter required : Ambient Noise

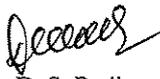
### Results

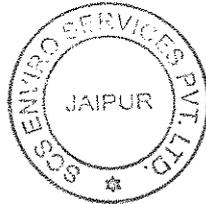
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	56.1	50.2

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250319/16	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AN/20250319/16	Date of Report: 31.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 19.03.2025  
Date of end of testing : 20.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Sindesar Khurd Village Area  
Parameter required : Ambient Noise

### Results

Parameter	Results dB (A)	
	Day Time	Night Time
Leq	70.9	62.5

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250319/17	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AN/20250319/17	Date of Report: 31.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 19.03.2025  
Date of start of testing : 19.03.2025  
Date of end of testing : 20.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Bamania Kalan Area  
Parameter required : Ambient Noise

### Results

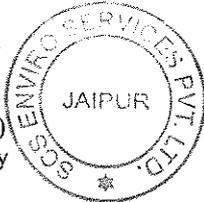
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	55.9	48.4

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority

Per pro SCS Enviro Services Pvt. Ltd.,

  
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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250319/18	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AN/20250319/18	Date of Report: 31.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.03.2025  
Date of start of testing : 20.03.2025  
Date of end of testing : 21.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Tailing Dam Pump House Area  
Parameter required : Ambient Noise

### Results

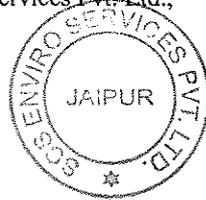
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	59.4	52.0

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
4. Mixed categories of areas may be declared as one of the four above mentioned categories by the competent authority

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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20250319/19	Date of Registration: 19.03.2025
Report No. SCS/HZL-SKM/AN/20250319/19	Date of Report: 31.03.2025

## AMBIENT NOISE MONITORING REPORT

Name of Client : M/s. Hindustan Zinc Limited, SK Mines,  
Address of Client : P. O.: Dariba - 313211, Distt. Rajsamand, Rajasthan  
Date of Monitoring : 20.03.2025  
Date of start of testing : 20.03.2025  
Date of end of testing : 21.03.2025  
Duration of sampling : 24 Hrs.  
Type of Industry : Mining of Non-Ferrous Metals  
Name of Location : Near Rajpura Village  
Parameter required : Ambient Noise

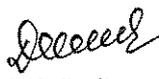
### Results

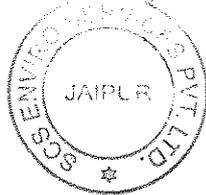
Parameter	Results dB (A)	
	Day Time	Night Time
Leq	58.4	49.2

Category of Zones	Leq in dB(A)	
	Day	Night
Industrial	75	70
Commercial	65	55
Residential	55	45
Silence	50	40

1. Day time if from 6.00 am to 10 pm
2. Night time if from 10.00 pm to 6 am
3. Silence zone is an area comprising not less than 100 meters around hospitals, educational institutions, courts, religious places or any other area which is declared as such by the competent authority.
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Rainwater Harvesting through pond deepening of nearby Villages.



## WATER AUGMENTATION PROJECT AT RDC



Before  
Rejuvenation



After  
Rejuvenation



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

### MAKHANPURIYA WATER AUGMENTATION PROJECT



Pre-monsoon picture



Post-monsoon picture

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

### ANJANA WATER AUGMENTATION PROJECT



Before pond deepening



Pre-monsoon picture



Post-monsoon picture

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

## Annexure-14

### Q3 Highlights:

#### Nandghar Inauguration:

Inauguration of Nandghar in Madara panchayat, in the presence of CEO-HZL, Mr. Arun Misra, MP- Rajsamand, Smt. Mahima Kumari Mewar & MLA-Nathdwara, Shri Vishvaraj Singh Mewar. 31 nandghars were inaugurated and handed over to govt. the event saw participation of more than 700 people.



#### Interaction with Chairman:

Beneficiaries of Sakhi, ME, Samadhan & ZKK projects interact with Chairman Vedanta - Mr. Anil Agarwal & Chairperson HZL – Ms. Priya Agarwal Hebbar.



## **Safety at Community:**

In line with community safety, various community safety awareness initiatives were taken by CSR Master trainers across projects at RDC. A series of awareness sessions were done on topics like household basic safety, electrical safety, agricultural safety, road safety, general safety, fire safety etc.

In the quarter 42 sessions were conducted covering a total of 1471 beneficiaries.



## **Education:**

### **Diwali Classes:**

Diwali classes conducted in all 10 shiksha sambal schools covering 420 students to keep students connected to studies during long breaks.



### **Winter Classes:**

Winter camp in Shiksha sambal program in 8 government schools reaching out to more than 250 students. Book for friend activity started in schools by distributing books that students will interchange amongst themselves.



## Nandghar:

Rajasthan govt and Vedanta limited have signed a MOU for conversion of Anganwadi into Nandghar. With the support of ICDS department Rajsamand, Vedanta is working towards conversion of Anganwadi into Nandghar. Below is the update of the same:

Details of Nandghar					
District	1 <sup>st</sup> Phase	2 <sup>nd</sup> Phase Status of work			
Rajsamand	Completed	Total visited	Total Selected	Completed	Work Under Progress
No of Aanganwadi to Nandghar	177	857	449	161	288



## Zinc Kaushal

- In the 3<sup>rd</sup> Quarter, a total of 135 new trainees have been enrolled and **90** are trained and 76 are placed in esteemed organizations.
- Graduation ceremony of 51 trainees from GDA and RSE done in the presence of Mr. Bharath Kathiriya CFO – RDM & SKM.

- 27<sup>th</sup> batch of unarmed security guard students from Zinc Kaushal Kendra were given exposure visit at SK mines.
- AIDS awareness street play done by GDA trainees in Railmagra on world AIDS day
- **Cancer Awareness Session:** Prevention, Vaccination and Women Health & Hygiene



### **Samadhan:**

Animal health camps conducted in 16 villages under covering more than 8000 animals benefitting more than 800 families.

Replication production: 45 quintals of Tomato and Chilli produced in replication plots of vegetables. One plot of Marigold also done.

Kisan Diwas was celebrated along with FPO members and community members.

Revenue of 56.73 lacs generated by FPO in the current FY.



**Sakhi and Microenterprises:**





➤ **Sakhi Highlights:**

- Nukad natak in Shivpura and Makanpuriya along with Awareness rally against domestic violence.
- Exposure visit of 5 members of Executive committee of Sakhi Samridhi federation to Pune for understanding the working and importance of Mahasangh.
- 34 Safety map & Human right rallies, awareness skit, essay writing, games were organized as part of Uthori awareness with the help of Balika SHGs covering more than 900 participants.

➤ **Microenterprise Highlights:**



- Training center for stitching started at Railmagra, providing training to 25 trainees in 2 batches.
- Diwali stall setup at RDC with special products for Diwali like Handmade Diyas by specially abled children of Jeevan Tarang and sweets made for Diwali.
- Business sakhi sales of more than 2.75 lacs done.

## Water:

Water supplied through RO and ATMs – 11.38 lakh litre

Following villages are being provided with the water tanker facility:

- Sindesar Khurd
- Sunariya Kheda
- Makanpuriya
- Raghunathpura

## Community Asset Creation:

A total 5 infrastructure works including Bitumen Road in Raghunathpura & Kotdi-Kesarpura, Gravel Road near pond in SK, Cremation shed in Shivpura and School toilet in Shivpura were completed. 27 construction works initiated in the last quarter by engaging local stakeholders and Bhoomi Poojan.



Cremation shed & Sitting Platform – Shivpura



Raghunathpura Bitumen road



SK Pond Gravel Road



Bhoomi Pujan with Community & stakeholders

## Other Highlights:

- Coaching program which prepares students for government competitive examinations started benefitting 140 students.
- Extended support to Rajasthan U-14 national volleyball team with playing kits, they represented the state at national level and won the silver medal.



## Success Stories:

- **Sensational Siblings:**

Name	Soniya Gadri	Madan Gadri
Trade	USG	USG
Village	Bamaniya Kala	Bamaniya Kala
Organization	Ananta Hospital	Adani Hospital
Salary	12000	22000

Soniya and Madan, siblings from a humble farming family, have become an inspiration for the youth in their village. Their father works as a farmer, and their mother is a homemaker. Soniya first learned about the Zinc Kaushal program through a mobilization drive and expressed interest in the Unarmed Security Guard (USG) trade. She enrolled in the special women batch, completed her training, and successfully secured a position with a reputed organization.

Seeing Soniya's success, her brother Madan was motivated to follow in her footsteps. He also enrolled in the USG training program and secured placement in Adani Hospital.



## Q4 Impact Points – RDC

- Inauguration\* of Nandghar in Kabra, in the presence of MLA-Rajsamand, Ms. Deepti Kiran Maheshwari, CEO-HZL, Mr. Arun Misra, Vedanta-Group CSR Head Ms. Anupam Nidhi, IBU-CEO Rajpura Dariba Complex, Mr. Balwant Singh Rathore. 70 Nandghars were inaugurated and handed over to govt. the event saw participation of more than 600 people.
- Sakhi Utsav Celebration at RDC with more than 1000 women joining each other in celebration of progress. The event was graced by MLA Rajsamand Ms. Deepti Maheshwari, IBU CEO Mr. Balwant Singh Rathore, DSC Head Mr. Deepkumar Agarwal, and many other members of the location level leadership along with local stakeholders like Sarpanches. The event saw great participation from Sakhis in games like Rasa kashi, Jalebi Race Kabaddi etc. and many cultural performances with a message to society.
- Farmers showcased improved breeds of cattle achieved via artificial insemination done through our Samadhan project done in calf rally appreciating progressive farmers.
- 28 Volunteers participating in various activities contributing 51 volunteering hours while taking career counselling sessions, Doubt clearing, Mental health and Exam preparation sessions etc.
- Sales and Marketing lab inaugurated at Zinc Kaushal by IBU CEO Mr. Balwant Singh Rathore.
- 3\* new RO hubs established in nearby panchayats increasing clean water availability to nearby community fostering their health and safety.
- Workshop cum women's day celebration with Jal Sakhis done at RDC with all the RO operators of all locations and awarding the best performing operators.
- sports tournaments were supported by providing kits, mementos etc. benefitting more than athletes.
- construction works initiated in the last quarter by engaging local stakeholders and Bhoomi Poojan.
- infrastructure works including
- Annual meeting with District Education department and principals of all govt schools for giving an update and taking their inputs on Shiksha Sambal project.
- 181\* Trainees from were placed in esteemed organizations with and average monthly salary of more than 15000 INR taking total placed students to 345\*.
- 28th batch of unarmed security guard students from Zinc Kaushal Kendra were given exposure visit at RD mines to enhance their understanding of the security work performed in our industries.

**REGISTERED A/D**

HZL/SKM/ENV/2024/EC Comp/ 11153

30.11.2024

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 2024 to September 2024

**Ref.:** Environmental Clearance vide no. J-11015/7/2017-1A.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 2024 to September 2024.

The copy of above compliance report is also being sent in soft format through email to (roc.z.lko-mef@gov.in; m\_env@rediffmail.com) for your kind perusal. Also copy of Sindesar Khurd Mine Environmental Compliance has been uploaded on company website <https://www.hzllndia.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 to further improve our Environmental Management Practices.

Hope the above is in line with statutory requirements.

Thanking you,  
Yours faithfully,

  
**Shri Sufal Mehrotra**  
Engg. Head & Authorized Signatory  
Sindesar Khurd Mines, HZL

**Sufal Mehrotra**  
Head Engineering  
Sindesar Khurd Mine  
Hindustan Zinc Limited  
PO: Dariba, Distt. Rajsamand  
Rajasthan, Pin 313211

Copy to:

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

# राजसमंद. नाथद्वारा

कांकरोली • खोईदा • राजनगर

दैनिक भास्कर

उदयपुर, बुधवार 06 जून, 2018

रेलमगरा • लमनोर • देलवाड़ा

(भतीजा, भतीजा)

आरोपी।

कर सजा दिलवाई।  
ना : चारभुजा थाना क्षेत्र  
की 14 वर्षीय नाबालिग  
झा निवासी नारायणसिंह  
न प्रियंका 29 जनवरी  
फुसला कर घूमने जाने  
ले गए। तीनों ही लांबोडी  
नाथ लेकर देपुर नाथद्वारा  
भगवान के मंदिर गए, जहां  
या। उसके बाद चारों ही  
ठके दर्शन करने गए। जहां  
वीलाल ने दुष्कर्म करने के  
तौर उसकी बहन चली गई।  
ना वापस देवनारायण मंदिर  
वीलाल ने दुष्कर्म किया।  
दोन देवीलाल पीड़िता को  
था और नारायणसिंह के  
न किया।

## हिन्दुस्तान जिंक लिमिटेड

रजि. ऑफिस: गणद भवन, उदयपुर-313 004  
PBX No. 0294-6604000, CIN-L27204RJ1966PLC001208, www.hzindia.com

सिन्देसर खुर्द लेड-जिक खनन परियोजना  
ग्राम सिन्देसर खुर्द, तहसील रेलमगरा, जिला राजसमन्द (राज.)  
पर्यावरण स्वीकृति प्राप्ति सूचना बाबत

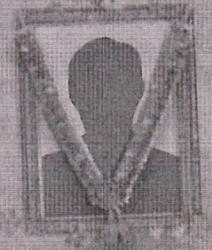
सर्वसाधारण को सूचित किया जाता है कि भारत सरकार के वन एवं पर्यावरण मंत्रालय, नई दिल्ली के पत्र क्रमांक J-11015/7/2017-IA.II(M), दिनांक 31.05.2018 के द्वारा हिन्दुस्तान जिंक लिमिटेड की सिन्देसर खुर्द खदान (एम.एल.नं 07/95, खनन पट्टा क्षेत्र 199.84 हेक्टेयर) की वर्तमान उत्पादन क्षमता 45 लाख मेट्रिक टन प्रतिवर्ष लेड-जिक प्रतिवर्ष खनिज अयस्क उत्पादन से बढ़ाकर 60 लाख मेट्रिक टन लेड-जिक प्रतिवर्ष खनिज अयस्क उत्पादन एवम लेड-जिक अयस्क सज्जीकरण 50 लाख मेट्रिक टन प्रतिवर्ष से बढ़ाकर 65 लाख मेट्रिक टन प्रतिवर्ष हेतु पर्यावरण स्वीकृति प्रदान कर दी गई है।

इसकी प्रति राजस्थान राज्य प्रदूषण नियंत्रण मंडल, जयपुर कार्यालय में उपलब्ध है। साथ ही वन एवम पर्यावरण मंत्रालय, नई दिल्ली की वेबसाइट <http://envfor.nic.in> पर भी उपलब्ध है।

राजीव बोरा  
युनिट हेड  
सिन्देसर खुर्द माईन्स

दैनिक भास्कर

अपनों को अर्पित कीजिए  
शब्दों के श्रद्धा सुमन



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rajasthanpatrika.com

राजस्थान पत्रिका . उदयपुर . बुधवार . 06.06.2018

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## हिन्दुस्तान जिंक लिमिटेड

रजि. ऑफिस: गणद भवन, उदयपुर-313 004  
PBX No. 0294-6604000, CIN-L27204RJ1966PLC001208, www.hzindia.com

सिन्देसर खुर्द लेड-जिक खनन परियोजना  
ग्राम सिन्देसर खुर्द, तहसील रेलमगरा, जिला राजसमन्द (राज.)  
पर्यावरण स्वीकृति प्राप्ति सूचना बाबत

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राजीव बोरा  
युनिट हेड

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