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HZL/ZM/ENV/2026 / 184

Date: 21.05.2026

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

Sub: – Six monthly Environment Compliance report for Zawar Group of Mines near Village-Zawar, Dist. Udaipur, Rajasthan of M/S Hindustan Zinc Limited

Ref: - Environment Clearance Letter No. – J-11015/259/2012-IA.II (M), dated 05.01.2017 & J-11015/259/2012-IA-II(M), dated 16.10.2020

Sir,

With reference to aforesaid subject and cited reference, please find enclosed six-monthly compliance report for the conditions stipulated in the Environment Clearances of Zawar Group of Mines near Village-Zawar, Dist. Udaipur, Rajasthan of M/S Hindustan Zinc Limited for the period from October' 2025 to March' 2026 along with monitoring data report for your kind consideration.'

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 endeavour for further improve upon our Environmental Management Practices.

Thanking You,

For Hindustan Zinc Limited

Yours faithfully,



(Anshul Kumar Khandelwal)

CEO- IBU Zawar




Hindustan Zinc Ltd

CC:

- Incharge (Zonal Office)
Central Pollution Control Board,
3rd Floor, Sahkar Bhawan, North T.T. Nagar, Bhopal – 462003
- Member Secretary,
Rajasthan State Pollution Control Board,
4, Institutional Area, Jhalana Doongri, Jaipur 302004 (Raj)
- Regional Officer,
Rajasthan State Pollution Control Board,
F-470, Near UCCI Building, Madri Industrial Area, Udaipur-313003 (Raj)
- → Office Copy Env Cell

Environment Clearance Letter No. – J-11015/259/2012-IA.II (M), dated 05.01.2017

S.No.	SPECIFIC CONDITIONS	COMPLIANCE STATUS
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.	<ul style="list-style-type: none">The directions of the Hon'ble courts shall be adhered to.
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	<ul style="list-style-type: none">Not applicable, as the Jaisamand Wildlife Sanctuary and other protected areas are not falling within the 10 km of aerial distance of mine lease area. Zawar mine lease boundary is outside the eco sensitive zone of Jaisamand wildlife sanctuary. Letter certifying the same by DCF-Wildlife is attached as Annexure-1
3	No mining activities will be allowed in forest area, if any, for which the Forest Clearance is not available.	<ul style="list-style-type: none">We have obtained Forest Diversion/ Clearance for carrying out Mining activities (total forest land: 1537.91 ha which includes diversion of 114.94 ha for surface rights and diversion of 1422.97 ha underground mining). Recent renewal of Forest diversion/ clearance was obtained vide letter no: F.No.8-1/1997-FC dated 23.01.2015
4	The project proponent shall obtain Consent to Operate from the State Pollution Control Board, Rajasthan and effectively implement all the conditions stipulated therein.	<p>Consent to operate have been obtained from the Rajasthan State Pollution Control Board (RSPCB) vide letter no.</p> <ul style="list-style-type: none">CTO for Mines: F(Mines)/Udaipur(Sarada)/53(1)/2016-2017/5003-5007 dated 20/12/2022 valid up to 31.12.2027CTO for Beneficiation Plant: F(HDF)/Udaipur (Sarada)/1(1)/2020-2021/5368-5370 dated 28/12/2022 valid up to 31.12.2027 <p>The conditions stipulated therein are being implemented and complied.</p>

<p>5</p>	<p>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</p>	<p>CAAQMS have been installed at 3 locations as per wind direction with digital display of data in front of the main gate of the mine site. Also provided pH and turbidity meters.</p>  <p>DIGITAL DISPLAY</p>  <p>CAAQM STATION</p>  <p>PH & TURBIDITY METERS</p>
<p>6</p>	<p>The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors. The report on slope and stability monitoring should be sent to MoEF&CC and its Regional office every six-months.</p>	<ul style="list-style-type: none"> • We are maintaining zero discharge from our operations. • We are carrying out mining activities through underground mining method. Waste rock generated is backfilled into underground voids. Part of the waste rock are used for stabilizing slopes of tailing storage facilities. • Presently, there is no storage of waste rock on surface. All initial waste dumps have already been vegetated & rehabilitated.



WASTE DUMP REHABILITATED AND TURNED INTO ROCK GARDEN

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>	<ul style="list-style-type: none"> • We are carrying out mining activities through underground mining method. Waste rock generated is backfilled into underground voids. Part of the waste rock are used for stabilizing slopes of tailing storage facilities. • Presently, there is no storage of waste rock on surface. All initial waste dumps have already been vegetated & rehabilitated.
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>	<ul style="list-style-type: none"> • We are regularly carrying out monitoring and studying invertebrates and aquatic life of water bodies. Study conducted by M/s JM Enviro Net Pvt Ltd indicated that there is no adverse impact of mining operation. Copy of study was submitted in previous compliance report submitted in May 2025.
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>	<ul style="list-style-type: none"> • We are regularly carrying out the ecological survey of plant species and plantation is carrying out regularly in and around our operation. Study conducted by M/s JM Environet Pvt Ltd indicated that there is no adverse impact of mining operation.
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>	<ul style="list-style-type: none"> • We conducted Occupational Health study with respect to the pressure impact on Ear drum in the underground working through M/s Sure Safety and no impact was found.

<p>11</p>	<p>Project Proponent shall carry out vibration studies well before approaching any such habitats or other buildings to evaluate the zone of influence and impact of blasting on the neighborhood. Within 500 meters of such sites vulnerable to blasting vibrations, avoidance of use of explosives and adoption of alternative means of mineral extraction. A provision for monitoring of each blast should be made so that the impact of blasting on nearby habitation and dwelling units could be ascertained. The covenant of lease deed under Rule 31 of MCR 1960 provides that no mining operations shall be carried out within 50 meters of public works such as public roads and buildings or inhabited sites except with the prior permission from the Competent Authority.</p>	<ul style="list-style-type: none"> • Blast Vibration monitoring is being done regularly by inhouse team. CIMFR has been engaged for blast vibration monitoring and other controlling measures. • Controlled blasting with major use of electronic detonator.
<p>12</p>	<p>Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. Belt-conveyors should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.</p>	<ul style="list-style-type: none"> • Water sprinkling is done on haul road in mines on regular basis to arrest fugitive dust if any. • Water sprinklers have been provided at transfer points. • Covered Conveyors have been provided to control fugitive emissions. • Roads at surface are black tarred/ cemented and Mechanised vacuum road sweepers have been deployed to clean roads on the surface to arrest fugitive dust generation. <div data-bbox="813 1164 1444 1512" data-label="Image"> <p>Azimuth: 127 (SE) Pitch: 0.3 (Ea) Time: 11-05-2026 12:11 Note: ZM</p> </div> <p style="text-align: center;">Mechanized vacuum road sweepers</p> <div data-bbox="813 1612 1444 1960" data-label="Image"> <p>Azimuth: 110 (E) Pitch: 4.3 (Ea) Time: 11-05-2026 12:22 Note: ZM</p> </div> <p style="text-align: center;">Water Tanker for dust suppression</p>



Water Fogger Machine

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 MoEFCC.	<ul style="list-style-type: none"> MoEF recognized laboratory are engaged for carrying out environment monitoring. Ambient PM 2.5 monitoring is done at the surface and readings are well within norms.
14	The Project Proponent reported that there are seven Schedule-I species viz. Peafowl (<i>Pavo cristatus</i>), Osprey (<i>Pandion haliaetus</i>), Tawny eagle (<i>Aquila rapax</i>), Crested honey buzzard (<i>Pernisptilorhynchus</i>), Shikra (<i>Accipiter badius</i>), Leopard (<i>Pantherapardus</i>), Indian pangolin (<i>Manis crassicaudata</i>) in the study area. The PP shall implement the Conservation Plan and enhance the budget for implementation of Conservation Plan for Schedule I Species and also increase the budget for plantation/green belt development. The Proponent shall implement the Wildlife Conservation Plan along with the funds so allocated with consultation of Chief Wild Life Warden of the State Govt. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office, Lucknow and the Chief Wild Life Warden of the State Govt.	<ul style="list-style-type: none"> Wild life conservation plan for Schedule-1 for Zawar Mines is approved by Chief Wild Life Warden, Jaipur as per "SOP issued in May 2019". We have deposited an amount of Rs. 3,69,00,000/- in 2022 through online transaction to the account of "Rajasthan Protected Areas, Conservator society, Udaipur". Details of online transaction done is UTR-2052671107403. Amount deposited for contribution towards conservation of wildlife and administrative cost for processing inspections, etc. In 2021, contributed 8.8 lacs rupees to forest department towards development cum maintenance of safari park/ golden park and forest nursery. Site has undertaken various conservation measures for conservation so far: constructed 39 check dams for soil conservation & water recharge and plantation in the lease area. Also, working areas are properly fenced/ boundary in place to avoid any interaction. In 2023-24, an amount of Rs 100 lac deposited to forest department and plantation work carried out on 100 Ha during 2024 monsoon. We have deposited an amount Rs. 16 lacs in May 2025 through online transaction to the amount of "Rajasthan Protected Areas, Conservator society, Udaipur". Details of online transaction done is UTR- 5071089726302. An approval of WLCP as per the Wildlife Protection Act, 2022 is received for Zawar Mines on 10.09.2025. Subsequently, deposited following amount: Rs 50 lacs in May 2025, 50 lacs in Sept 2025 and Rs 50 lacs in Dec 2025 in "UPVAN SARKSHAK, Udaipur" for herbivores augmentation project.
15	Proponent shall carry out monitoring of lead in the blood samples of the employees and the villagers in the areas surrounding the mine in their schedule of health check-up. The nearby water bodies shall be monitored every six months and report submitted to Regional office of the MoEFCC to ascertain impact due to lead contamination.	<ul style="list-style-type: none"> Third party monitoring of lead in blood of employees and villagers is being done and continued. Monitoring reports indicate that lead level in blood is below the norms. Details enclosed in Annexure 5 Monitoring of nearby water bodies is conducted as part of post project monitoring and monitored data enclosed.
16	Implementation of Action Plan on the issues raised during the Public Hearing shall be ensured. The Project	<ul style="list-style-type: none"> We have taken appropriate actions for the issues raised during public hearing. Detailed are enclosed as Annexure 8.

	Proponent shall complete all the tasks as per the Action Plan submitted with budgetary provisions during the Public Hearing.	
17	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.	<ul style="list-style-type: none"> • Blast Vibration monitoring is being done regularly by inhouse team. CIMFR has been engaged for blast vibration monitoring and other controlling measures. • Controlled blasting with major use of electronic detonator
18	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.	<ul style="list-style-type: none"> • Analysis done for Mine dewatering and there is absence of any radioactive elements. (Monitoring report enclosed as Annexure 6.)

Environment Clearance Letter No. – J-11015/259/2012-IA.II (M), dated 05.01.2017

S.No.	STANDARD CONDITIONS	COMPLIANCE STATUS
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.	<ul style="list-style-type: none">Presently, mine is in operation stage. This point is noted for future adherence and compliance.
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.	<ul style="list-style-type: none">Complied. Mining is carried out as per Mine plan duly approved by IBM vide letter no. E11996-MCDR-MPC0Zn/1/2024-AJM-IBM_RO_AJM Date-04/03/2025
3	No change in the calendar plan including excavation, quantum of mineral and waste should be made.	<ul style="list-style-type: none">Calendar plan, as per approved mine plan, is being adhered to.
4	The project proponent shall obtain necessary prior permission of the competent authorities for drawl of requisite quantity of water (surface water and ground water) for the project.	<ul style="list-style-type: none">Water is drawn from Captive Tidi Dam with permission of Water Resources department, Govt. of Rajasthan vide agreement dated 17.09.1976 and amended time to time.
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).	<ul style="list-style-type: none">Mining is being carried out as per the Mining Plan duly approved by IBM vide letter no. E11996-MCDR-MPC0Zn/1/2024-AJM-IBM_RO_AJM Date-04/03/2025 and as per the guidelines of DGMS.
6	The lands which are not owned by Proponent, mining will be carried out only after obtaining the consents from all the concerned land owners as per the provisions of the Mineral Concession Rules, 1960 and MMDR Act, 1957.	<ul style="list-style-type: none">Noted and Complied.
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.	<ul style="list-style-type: none">Digital processing of the entire lease area using remote sensing technique is being carried out regularly once in three yearsLast study was done in August 2024. Copy of report was submitted in previous compliance report submitted in November 2024.
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	<ul style="list-style-type: none">Monitoring is being done for ambient air quality and effluent and monitored data are enclosed herewith.Display board has been placed near main gate.Required details is uploaded on company website https://www.hzlindia.com/ at Sustainability section > Environment compliance > Zawar Mines

	and Climate Change shall also be referred in this regard for its compliance.	
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	<ul style="list-style-type: none"> • Water sprinkling is carried out at loading, unloading and transfer points. • Closed Conveyors are provided to control fugitive emissions. • Regular water sprinkling is done at haul roads underground. • Roads are regularly cleaned via mechanized vacuum sweeper to control fugitive dust. • Ambient Air Monitoring is being carried out monthly at 8 stations and are within limits. • Detailed reports are enclosed as Annexure - 2.
10	Regular monitoring of ground water level and quality shall be carried out in and around the mine lease by establishing a network of existing wells and constructing new piezometers during the mining operation. The project proponent shall ensure that no natural water course and/or water resources shall be obstructed due to any mining operations. The monitoring shall be carried out four times in a year pre-monsoon (April-May), monsoon (August), post-monsoon (November) and winter (January) and the data thus collected may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board.	<ul style="list-style-type: none"> • Ground water level and quality is being monthly monitored through network of piezometers & wells in and around mine area. • Monitoring reports are being submitted to MoEF, IRO, Jaipur and CPCB, Bhopal on six monthly basis as part of 6 monthly compliance of EC and to Central Ground Water Authority. • No natural water course and/or water resources have been obstructed due to any mining operations. • Detailed reports are enclosed as Annexure-3
11	Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table.	<ul style="list-style-type: none"> • The natural water bodies and streams which are flowing in and around the village are not being disturbed. There are no perennial nallah in and around the lease. • Entire freshwater requirement is sourced from a captive surface water source i.e Tidi dam. No ground water is extracted for industrial use except for the ground water intersection due to mining. • Pre-mining ground water tables are not available as modern mining is going on in the area since 1950. Ground water recharge structures are being constructed for ground water recharge. • Ground water level and quality is being regularly monitored through network of piezometers & key wells in and around mine area. • Detailed reports are enclosed as Annexure-3
12	Regular monitoring of water quality upstream and downstream of water bodies shall be carried out and	<ul style="list-style-type: none"> • Ground water level and quality is being regularly monitored through network of piezometers & key wells in and around mine area.


	<p>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>	<ul style="list-style-type: none"> Monitoring reports are being submitted to MoEF, IRO, Jaipur and CPCB, Bhopal on six monthly basis as part of 6 monthly compliance of EC and to Central Ground Water Authority. Detailed reports are enclosed as Annexure-3
13	<p>Transportation of the minerals by road passing through the village shall not be allowed. A 'bypass' road should be constructed (say, leaving a gap of at least 200 meters) for the purpose of transportation of the minerals so that the impact of sound, dust and accidents could be mitigated. The project proponent shall bear the cost towards the widening and strengthening of existing public road network in case the same is proposed to be used for the Project. No road movement should be allowed on existing village road network without appropriately increasing the carrying capacity of such roads.</p>	<ul style="list-style-type: none"> Road used for transportation of ore does not pass through any village.
14	<p>The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night PPS must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day light/night hours.</p>	<ul style="list-style-type: none"> Mining being underground, there is no such impact. Also, nearby villages are far away from the surface infrastructures in the core zone. Noise level monitored are well within the limit.
15	<p>Main haulage road in the mine should be provided with permanent water sprinklers and other roads should be regularly wetted with water tankers fitted with sprinklers. The material transfer points should invariably be provided with Bag filters and or dry fogging system. In case of Belt- conveyors facilities the system should be fully covered to avoid air borne dust; Use of effective sprinkler system to suppress fugitive dust on haul roads and other transport roads shall be ensured.</p>	<ul style="list-style-type: none"> Being underground mines, main haulage roads are underground. Water sprinkling is carried out to suppress fugitive dust on haul roads All the roads used for ore transportation are tarred/ cemented.
16	<p>Sufficient number of Gullies to be provided for better management of</p>	<ul style="list-style-type: none"> There are no artificial gullies in the mine lease because of absence of surface waste dump.

	<p>water. Regular Monitoring of pH shall be included in the monitoring plan and report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p>	
<p>17</p>	<p>There shall be planning, developing and implementing facility of rainwater harvesting measures on long term basis and implementation of conservation measures to augment ground water resources in the area in consultation with Central Ground Water Board.</p>	<ul style="list-style-type: none"> • The captive Tidi dam with a capacity of 8.5 mcm constructed by HZL is a major rainwater harvesting measure form which the water is sourced for the project. • We have constructed 39 rainwater harvesting around all mines. <div data-bbox="927 551 1406 904" data-label="Image"> </div> <p data-bbox="1110 920 1225 947" style="text-align: center;">TIDI DAM</p> <div data-bbox="887 987 1358 1245" data-label="Image"> </div> <p data-bbox="1066 1256 1193 1283" style="text-align: center;">Checkdam</p> <div data-bbox="898 1323 1361 1760" data-label="Image"> </div> <p data-bbox="1066 1771 1193 1798" style="text-align: center;">Checkdam</p>
<p>18</p>	<p>The Project Proponent has to take care of gullies formed on slopes. Dump mass should be consolidated with proper filling/leveling with the help of dozer/compactors.</p>	<ul style="list-style-type: none"> • We are carrying out mining activities through underground mining methods. Waste rock generated is backfilled into underground voids. Part of the waste rock is used for stabilizing slopes of tailing storage facilities. • Presently, there is no storage of waste rock on surface. All initial waste dumps have already been vegetated & rehabilitated.

19	<p>The reclamation at waste dump sites shall be ecologically sustainable. Scientific reclamation shall be followed. The local species may be encouraged and species are so chosen that the slope, bottom of the dumps and top of the dumps are able to sustain these species. The aspect of the dump is also a factor which regulates some climatic parameters and allows only species adopted to that micro climate.</p>	<ul style="list-style-type: none"> • All the initial waste dumps have been reclaimed and became ecologically sustainable. • No fresh waste dumps in the mine lease.
20	<p>The top soil, if any, shall temporarily be stored at earmarked site(s) only and it should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation. The over burden (OB) generated during the mining operations shall be stacked at earmarked dump site(s) only and it should not be kept active for a long period of time. The maximum height of the dumps shall not exceed 8m and width 20 m and overall slope of the dumps shall be maintained to 45°. The OB dumps should be scientifically vegetated with suitable native species to prevent erosion and surface run off. In critical areas, use of geo textiles shall be undertaken for stabilization of the dump. The entire excavated area shall be backfilled and afforested. Monitoring and management of rehabilitated areas should continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p>	<ul style="list-style-type: none"> • The project is expansion of an underground mine and beneficiation plant within existing area. Thus, no topsoil is generated. • We are carrying out mining activities through underground mining methods. Waste rock generated is backfilled into underground voids. Part of the waste rock is used for stabilizing slopes of tailing storage facilities. • Presently, there is no storage of waste rock on surface. All initial waste dumps have already been vegetated & rehabilitated. • Compliance reports are submitted to MoEF, IRO Jaipur and CPCB, Bhopal on six monthly basis.
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</p>	<ul style="list-style-type: none"> • The waste generated from the mine development work is dumped in the voids created due to stopping. Part of the waste rock is utilized for covering slope of tailing storage facility. • Being underground mine, there is no generation of overburden and hence no OB dumps are there. • Drains are maintained at required places like around tailing storage facilities, inside beneficiation plants. The drains are cleaned and maintained on regular basis. • The concentrate from the beneficiation plant is accommodated in concentrate stockpile yards having covered sheds and is secured by stone masonry walls of appropriate height. • Concentrate from the stockpile yard is directly loaded into trucks mechanically/ manually for end use at captive smelter.

	<p>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>	
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>	<ul style="list-style-type: none"> • Till date, plantation has been done in 170.85 ha in including rehabilitated areas, around beneficiation plant, Mines, roads and township. • We have also carried out plantation in nearby forest area through forest department in 75 ha in RDF 1 & RDF 2 during FY 2019-20 and 75 ha in RDF 1 & RDF 2 during FY 2021-22 and 100 Ha in RDF scheme in 2024 at Shitala mata area and in safety zone in 2025-26. • During last 3 years, carried out 5000 nos at Zawar Nikunj, 2500 nos at TSF area, 1000 nos in gap filling in rock garden and township, 5000 nos in Rava village, 1000 nos in near puliya, hospital and CPP area.
23	<p>Project Proponent shall follow the mitigation measures provided in Office Memorandum No. Z-11013/57/2014-IA.II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area", if any, applicable to the project.</p>	<ul style="list-style-type: none"> • There is no adverse impact on the habitations as our mining activities are underground and suitable measures have been taken wrt environment management.
24	<p>The Project Proponent shall make necessary alternative arrangements, where required, in consultation with the State Government to provide alternate areas for livestock grazing, if any. In this context, Project Proponent should implement the directions of the Hon'ble Supreme Court with regard to acquiring grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded against felling and plantation of such trees should be promoted.</p>	<ul style="list-style-type: none"> • No grazing land has been acquired as part of operations.
25	<p>The project proponent shall take all precautionary measures during mining operation for conservation</p>	<ul style="list-style-type: none"> • Wild life conservation plan for Schedule-1 for Zawar Mines is approved by Chief Wild Life Warden, Jaipur as per "SOP issued in May 2019".

	<p>and protection of endangered fauna, if any, spotted in the study area. Action plan for conservation of flora and fauna shall be prepared and implemented in consultation with the State Forest and Wildlife Department. A copy of action plan shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office.</p>	<ul style="list-style-type: none"> • We have deposited an amount of Rs. 3,69,00,000/- in 2022 through online transaction to the account of "Rajasthan Protected Areas, Conservator society, Udaipur". Details of online transaction done is UTR-2052671107403. Amount deposited for contribution towards conservation of wildlife and administrative cost for processing inspections, etc. • In 2021, contributed 8.8 lacs rupees to forest department towards development cum maintenance of safari park/ golden park and forest nursery. • Site has undertaken various conservation measures for conservation so far: constructed 39 check dams for soil conservation & water recharge and plantation in the lease area. Also, working areas are properly fenced/ boundary in place to avoid any interaction. • In 2023-24, an amount of Rs 100 lac deposited to forest department and plantation work carried out on 100 Ha during 2024 monsoon. • We have deposited an amount Rs. 16 lacs in May 2025 through online transaction to the amount of "Rajasthan Protected Areas, Conservator society, Udaipur". Details of online transaction done is UTR-5071089726302. • An approval of WLCP as per the Wildlife Protection Act, 2022 is received for Zawar Mines on 10.09.2025. • Subsequently, deposited following amount: Rs 50 lacs in May 2025, 50 lacs in Sept 2025 and Rs 50 lacs in Dec 2025 in "UPVAN SARKSHAK, Udaipur" for herbivores augmentation project.
26	<p>As per the Company Act, the CSR cost should be 2% of average net profit of last three years. Hence CSR expenses should be as per the Company Act/Rule for the Socio Economic Development of the neighborhood Habitats which could be planned and executed by the Project Proponent more systematically based on the Need based door to door survey by established Social Institutes/Workers. The report shall be submitted to the Ministry of Environment, Forest and Climate Change and its Regional Office on six monthly basis.</p>	<ul style="list-style-type: none"> • CSR expenditure is being done for the Socio Economic Development of the neighborhood based on the Need based door to door survey by established Social Institutes/Workers. • Sakhi: 4978 women connected through 405 SHGs, 32 VOs and 1 federation Sakhi Shakti Samiti Zawar Mines under Sakhi project. Through inter loaning women have saved Rs. 4.55 crores, disbursed total loan of Rs. 28.69 crores and earned interest of Rs. 8 Lakhs. Sakhi Namkeen Unit set up in Paduna, directly employing 6 Rural Women for manufacturing & packaging unit and supporting 17 women as Business Sakhis. The unit did sales worth Rs. 9,38,694.00 lakhs from October 2025 till March 2026. • Samadhan: Under Samadhan Project Zawar Mata Farmer Producer Organisation with 1830 shareholders were operational at since more than one year, also conducted Annual General Meeting with all the shareholders for transparency, ownership and accountability for the Farmer Producer Organisation by the CEO. • Shiksha Sambal: HZL is Lending support in improving the board results of 1200+ students under Shiksha Sambal Project in 12 Govt Schools and as a part of which 3 camps were organized bringing together 800+ students at these Schools (Summer camp, Diwali camp and Winter Learning Camps) for better coverage and preparation of the exams.

		<ul style="list-style-type: none"> • Mobile Health Vehicle: Mobile Health Van provides door to door consultation across 24 villages. On an average more than 11,722 beneficiaries are reached from October 2025 till March 2026 for primary health care services. • Zinc Kaushal Kendra: 225 youth trained in trades Including Unarmed Security Guards and F&B service Management in Financial Year 2025-26. 176 trainees have been placed with esteemed organizations like TCS, Taj Hotels and Club Mahindra with average package of Rs. 14,500 with food and accommodation services. • Unchi Udaan: Under Unchi Udaan program, 16 students from Zawar Mines are supported for residential education and coaching for engineering entrances above 8th standard.
27	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<ul style="list-style-type: none"> • There are no construction labor residing in the site.
28	<p>Measures should be taken for control of noise levels below 85 dBA in the work environment. Workers engaged in operations of HEMM, etc. should be provided with ear plugs / muffs</p>	<ul style="list-style-type: none"> • Following noise control measures have been taken: <ul style="list-style-type: none"> ○ Specifying permissible noise level limit for equipment below 85 dB(A) ○ Acoustic enclosures with insertion loss of at least 25 dB(A) ○ Suitable evasee at the outlet of ventilation fans ○ Plantation for attenuation of noise • Employees are provided with ear plugs / muffs with proper training and awareness for its usage • Monitoring results are attached as Annexure – 4.
29	<p>Industrial waste water (workshop and waste water from the mine) should be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended from time to time. Oil and grease trap should be installed before discharge of workshop effluents.</p>	<ul style="list-style-type: none"> • Oil and grease trap is provided at workshop and water is reused for alternate uses. We maintain Zero Liquid Discharge at our site and we have installed 4 MLD treatment plant for treatment of process water. • Sewage is treated and reused for plantation and dust suppression. • Two STP's with combined capacity of 450 KLD have been provided  <p style="text-align: center;">4MLD HRSCC Plant</p>



Oil Water Separator



Ramnagar STP



Ashoknagar STP

30	Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on safety and health aspects.	<ul style="list-style-type: none"> • Personnel Protective Equipments (PPEs) are provided to the workers. • Initial and refreshers training are also provided covering safety and occupational health aspects. Regular safety interactions are also carried out.
31	A separate environmental management cell with suitable qualified personnel should be set-up under the control of a Senior Executive, who will report directly to the Head of the Organization.	<ul style="list-style-type: none"> • There is a separate Environment Management cell with qualified environmental professionals headed by AGM- Environment under the direct control of CEO- IBU Zawar and Corporate HSE.
32	The funds earmarked for environmental protection measures should be kept in separate account and should not be diverted for other purpose. Year wise expenditure should be reported to the Ministry and its Regional Office.	<ul style="list-style-type: none"> • Being complied regularly. • Year wise expenditure are reported to MoEF, Integrated Regional Office, Jaipur. Expenses during Oct'25 to Mar'26 is Rs. 404.738 lacs.
33	The project authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	<ul style="list-style-type: none"> • Project is expansion of existing underground mines, no land development is required.

34	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment, Forest and Climate Change, its Regional Office, Central Pollution Control Board and State Pollution Control Board.	<ul style="list-style-type: none"> • Six monthly reports are being submitted on regular basis for the EC.
35	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information / monitoring reports.	<ul style="list-style-type: none"> • Noted and complied.
36	A copy of clearance letter will be marked to concerned Panchayat / local NGO, if any, from whom suggestion / representation has been received while processing the proposal.	<ul style="list-style-type: none"> • No suggestion / representation has been received from any Panchayat / local NGO.
37	State Pollution Control Board should display a copy of the clearance letter at the Regional office, District Industry Centre and Collector's office/ Tehsildar's Office for 30 days.	<ul style="list-style-type: none"> • Copies of Environment Clearance have been submitted to RSPCB Regional Office, District Industry Centre and Collector's office/ Tehsildar's Office.
38	<p>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</p> <p>www.environmentclearance.nic.in and a copy of the same should be forwarded to the Regional Office.</p>	<ul style="list-style-type: none"> • It was advertised in Rajasthan Patrika and Dainik Bhaskar. • Advertisements are attached as Annexure-7.

Environment Clearance Letter No. – J-11015/259/2012-IA-II(M), dated 16.10.2020

S.No.	Specific Conditions	Compliance Status
(a)	Gap plantation shall be carried in consultation with State Forest Department in the total Mining lease area where the surface rights were not acquired. These plantations shall be maintained and monitoring to be done to achieve the survival rate of 90%.	<ul style="list-style-type: none">• We have also carried out plantation in nearby forest area through forest department in 75 ha in RDF 1 & RDF 2 during FY 2019-20 and 75 ha in RDF 1 & RDF 2 during FY 2021-22 and 100 Ha in RDF scheme in 2024 at Shitala mata area and in safety zone in 2025-26.• During last 3 years, carried out 5000 nos at Zawar Nikunj, 2500 nos at TSF area, 1000 nos in gap filling in rock garden and township, 5000 nos in Rava village, 1000 nos in near puliya, hospital and CPP area.
(b)	The conversation plan for Schedule-I species reported in the study are namely. 1 reptilian (Bengal Monitor Lizard), 3 avifaunal (Osprey, Indian Peafowl and White rumped Vulture), 2 mammalians (Indian Pangolin and Indian Leopard) and 1 butterfly (Crimson Rose) should be prepared and implemented in consultation with State Forest Department including the recommendations of the Chief Wildlife Warden.	<ul style="list-style-type: none">• Wild life conservation plan for Schedule-1 for Zawar Mines is approved by Chief Wild Life Warden, Jaipur as per "SOP issued in May 2019".• We have deposited an amount of Rs. 3,69,00,000/- in 2022 through online transaction to the account of "Rajasthan Protected Areas, Conservator society, Udaipur". Details of online transaction done is UTR- 2052671107403. Amount deposited for contribution towards conservation of wildlife and administrative cost for processing inspections, etc.• In 2021, contributed 8.8 lacs rupees to forest department towards development cum maintenance of safari park/ golden park and forest nursery.• Site has undertaken various conservation measures for conservation so far: constructed 39 check dams for soil conservation & water recharge and plantation in the lease area. Also, working areas are properly fenced/ boundary in place to avoid any interaction.• In 2023-24, an amount of Rs 100 lac deposited to forest department and plantation work carried out on 100 Ha during 2024 monsoon.• We have deposited an amount Rs. 16 lacs in May 2025 through online transaction to the amount of "Rajasthan Protected Areas, Conservator society, Udaipur". Details of online transaction done is UTR- 5071089726302.• An approval of WLCP as per the Wildlife Protection Act, 2022 is received for Zawar Mines on 10.09.2025.• Subsequently, deposited following amount: Rs 50 lacs in May 2025, 50 lacs in Sept 2025 and Rs 50 lacs in Dec 2025 in "UPVAN SARKSHAK, Udaipur" for herbivores augmentation project.
(c)	As proposed no additional water shall be used for the proposed expansion. The requirement shall be met from the existing daily water demand of 14,000 KLD, out of which 2,400 KLD water is used for mining purpose, 8,600 KLD for beneficiation plant and 3,000 KLD for domestic use which is drawn from Tidi Dam through pipeline.	Total water requirement for Mines, beneficiation and domestic purposes is kept below the 14,000 cum/day/. Source of fresh water is Tidi dam (surface water).

(d)	The project proponent should obtain the NOC from the CGWA regarding the intersection of workings with the groundwater table.	NOC for ground water intersection from CGWA for all the four operating mines i.e. Mochia Mines, Balaria Mine, Baroi Mine and Zawarmala mine are in place.
(e)	Mist spraying arrangements shall be provided to suppress the dust emission at the loading, crushing and transfer points. The effective water spraying arrangements shall be made at the tailing dam to control the air borne dust.	We have provided suitable water spraying arrangement for water spraying to arrest fugitive dust generation. Also, moisture is maintained in ore while loading and crushing. Water is sprinkled in the tailing storage facility on a regular basis.
(f)	The project proponent should implement all the additional measures that are proposed in the present application.	Noted and complied.

कार्यालय उप वन संरक्षक, वन्यजीव उदयपुर

बड़ी रोड देवाली, पोस्ट बाँसा न. 161, फोन 0294-2453686
Email ID - dclw.udpr.forest@rajasthan.gov.in

क्रमांक: एक 9(10 किमी-469)सर्वे/उपवा/वजी/2023-24/6485 दिनांक: 14/08/2023

नियंत्रित

राज्य अभियन्ता,
उदयपुर

विषय राष्ट्रीय उद्यान/वन्यजीव अभयारण्य की सीमा से 10 किमी. परिधि से बाहर होने या नही होने के आरम्भ का प्रमाण पत्र के संबंध में।
संदर्भ शासकीय पत्रांक 2652 दिनांक 04.08.2023 एवं इस कार्यालय का पत्रांक 11715 दिनांक 29.11.2018 के क्रम में।

महोदय,

उपरोक्त विषयानुसार प्रासंगिक पत्र के क्रम में लेख है कि मैसर्स हिन्दुस्तान जिंक लिमिटेड, घराद भवन, बरखुण्डा राउर, उदयपुर के पत्र में सजीव लेड जिंक एवं सिन्डर राउर पट्टा संख्या - 03/1989, निकट ग्राम जारूर, तहसील ससदा, जिला उदयपुर के सम्बंध में राष्ट्रीय उद्यान/वन्यजीव अभयारण्य की सीमा से 10 किमी की परिधि में होने या नही होने का आरम्भ प्रमाण पत्र माहा गया है। जिसके क्रम में उक्त अधिदेत क्षेत्र के जीपीएस सिद्धि की जांच की गयी, जिसके अनुसार उक्त अधिदेत क्षेत्र इस वन्यजन्तु के अभयारण्य की सीमा से विन्नातुर है-

क्र.सं.	विषय	सूचना			
		Pillar No.	Latitude	Longitude	
1.	अधिदेत खनन क्षेत्र की सीमा रक्तमों का नियंत्रण	Block No.-A(1)			
		11	24 20 55.69	73 41 25 35	
		12	24 21 42.3	73 41 17.06	
		13	24 22 15.95	73 40 55.84	
		14	24 22 51.59	73 41 21.31	
		15	24 22 50.06	73 42 9.83	
		1	24 22 12.95	73 44 20.54	
		2	24 21 19.08	73 45 12.24	
		3	24 20 19.52	73 43 57.28	
		4	24 20 18.2	73 43 22.67	
		5	24 19 1.1	73 42 4.88	
		8	24 19 0.3	73 40 23.24	
		9	24 20 48.07	73 40 24.17	
		10	24 20 49.24	73 41 0.64	
		11	24 20 54.95	73 41 25.41	
		Block No.- B (3)			
		8	24 16 19.37	73 41 47.03	
		20	24 16 30.81	73 42 48 18	
		28	24 16 25.64	73 42 54.56	
		27	24 14 49.31	73 43 6.58	
		22	24 14 48.65	73 43 0.24	
		26	24 14 54.57	73 42 51.35	
		25	24 14 47.59	73 42 44.97	
24	24 14 42.66	73 42 7.5			
23	24 16 18.8	73 41 46.32			
2.	सज्जनगढ़ वन्यजीव अभयारण्य की सीमा से दूरी	23.085 किलोमीटर			
3.	सज्जनगढ़ वन्यजीव अभयारण्य के ईको सॉनितिव ज़ोन की सीमा से दूरी	21.450 किलोमीटर			
4.	जयसामन्द वन्यजीव अभयारण्य की सीमा से दूरी	10.800 किलोमीटर			
5.	जयसामन्द वन्यजीव अभयारण्य के ईको सॉनितिव ज़ोन की सीमा से दूरी	3.180 किलोमीटर			
6.	फुलवाड़ी की नाल, वन्यजीव अभयारण्य की सीमा से दूरी।	35.490 किलोमीटर			
7.	फुलवाड़ी की नाल, वन्यजीव अभयारण्य के ईको सॉनितिव ज़ोन की सीमा से दूरी।	25.490 किलोमीटर			

अतः उक्त अधिदेत खनन क्षेत्र की सीमा से 10 किमी की परिधि में कोई भी सजीव उद्योग/वन्य अभयारण्य स्थित नहीं है।

Signature valid

Digitally signed by Arun Kumar
Designation: Deputy Conservator
Of Forest
Date: 2023.08.13 10:12:39 IST
Reason: Approved

Raj/Kaj/Ref No. : 4305772



ANNEXURE – 2

AIR MONITORING AT ZAWAR GROUP OF MINES								
STACK MONITORING (All units are in mg/Nm³)								
Sampling Points	Parameters	Prescribed Limits	Oct-25	Nov-25	Dec-25	Jan-26	Feb-26	Mar-26
Mochia Crusher Stack	SPM	150	27.2	28.5	28.6	28.2	29.4	26.0
Balaria Crusher Stack	SPM	150	26	25.4	28.9	28.5	29.0	26.9
DE - 2 (Mill 2)	SPM	150	26.9	25.7	28.2	27.7	28.5	27.4
DG Set 6 MW	SPM	75	-	-	48	-	-	51
	NOX (as NO ₂) (At 15% O ₂ , dry basis in ppm)	710	-	-	606	-	-	590
	CO	150	-	-	115.7	-	-	108.7
	NMHC (as C)	100	-	-	78.3	-	-	77.5

AMBIENT AIR QUALITY MONITORING (All units are in µg/m³)							
Oct -25							
S.No.	STATIONS	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Pb
1	Mill Office	72.6	44	9.5	15.2	1031	0.26
2	Mochia Mine	60.4	35.5	6.5	10.1	802	0.11
3	Balaria Mine	55.9	33.2	7.1	10.5	802	0.14
4	Administrative Block	76	47.5	10.3	16.4	1145	0.29
5	Zawar Mala Mine	59.5	35.2	6.9	10.3	802	0.14
6	Baroi Mine	56.5	34.2	7.6	9.9	687	0.12
Prescribed Limits		100	60	80	80	2000	1

Nov -25							
S.No.	STATIONS	PM₁₀	PM_{2.5}	SO₂	NO_x	CO	Pb
1	Mill Office	57.3	33.8	6.9	9.7	687	0.12
2	Mochia Mine	62.7	37.6	7.5	10.2	916	0.13
3	Balaria Mine	55	33	6.6	9.7	687	0.11
4	Administrative Block	68.5	40.9	8.3	13	1031	0.22
5	Zawar Mala Mine	59	35.8	6.6	9.5	802	0.13
6	Baroi Mine	57.7	35	6.9	9.2	802	0.14
Prescribed Limits		100	60	80	80	2000	1

Dec -25							
S.No.	STATIONS	PM₁₀	PM_{2.5}	SO₂	NO_x	CO	Pb
1	Mill Office	65.1	39.4	7.6	12.5	916	0.2
2	Mochia Mine	59.6	35.4	7.2	11.8	916	0.18
3	Balaria Mine	56.1	34.3	6.8	10.4	802	0.15
4	Administrative Block	74.6	44.2	12.5	21.7	1260	0.37
5	Zawar Mala Mine	60.4	35.8	7.3	11.5	802	0.15
6	Baroi Mine	63.8	38.0	7.4	11.3	916	0.22
Prescribed Limits		100	60	80	80	2000	1

Jan -26							
S.No.	STATIONS	PM₁₀	PM_{2.5}	SO₂	NO_x	CO	Pb
1	Mill Office	75.0	47.0	11.2	16.6	1145	0.30
2	Mochia Mine	62.7	38.0	6.9	10.8	916	0.14
3	Balaria Mine	58.2	35.0	7.3	12.0	916	0.15
4	Administrative Block	79.5	48.0	12.0	18.7	1260	0.33
5	Zawar Mala Mine	64.0	38.5	7.6	11.8	916	0.18
6	Baroi Mine	60.6	36.0	7.8	10.5	802	0.13
Prescribed Limits		100	60	80	80	2000	1

Feb -26							
S.No.	STATIONS	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Pb
1	Mill Office	59.0	35.4	6.7	9.5	687	0.13
2	Mochia Mine	64.8	38.7	7.2	10.5	916	0.14
3	Balaria Mine	57.5	34.3	6.6	9.5	802	0.12
4	Administrative Block	77.8	46.5	8.4	13.0	916	0.21
5	Zawar Mala Mine	58.7	35.0	6.8	9.1	916	0.14
6	Baroi Mine	59.6	36.0	6.8	9.1	802	0.15
Prescribed Limits		100	60	80	80	2000	1

Mar -26							
S.No.	STATIONS	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Pb
1	Mill Office	67.9	40.6	7.3	12.9	916	0.20
2	Mochia Mine	59.8	35.9	7.8	11.4	804	0.12
3	Balaria Mine	56.1	35.2	6.3	11.2	802	0.14
4	Administrative Block	77.2	46.4	12.8	23.2	1145	0.39
5	Zawar Mala Mine	61.5	36.9	7.5	12.2	802	0.16
6	Baroi Mine	68.9	40.6	8.2	11.8	916	0.29
Prescribed Limits		100	60	80	80	2000	1

ANNEXURE – 3

Ground Water Quality at Zawar Group of Mines								
Nov-25								
S.No.	Parameters	IS : 10500:2012		Zawarmata Hand pump	Zawarmata Well	Naka bazar Well	Mahadev ki Nai Well	Tiger Well
		Acceptable	Permissible					
1	pH	6.5-8.5	No Relaxation	7.65	7.93	7.92	7.19	7.55
2	Chlorides	250	1000	55.98	53.98	53.98	87.97	69.98
3	TSS	-	-	<5	<5	<5	<5	<5
4	Zinc	5	15	0.02	0.02	0.02	0.10	0.04
5	Lead	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
6	Iron	0.3	No Relaxation	0.02	0.02	0.02	0.04	0.03
7	Copper	0.05	1.5	<0.01	<0.01	<0.01	<0.01	<0.01
8	Cadmium	0.003	No Relaxation	<0.003	<0.003	<0.003	<0.003	<0.003
9	Cyanides	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
10	Nickel	0.02	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
12	Chromium	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
13	Total Organic Carbon	-	-	<5	<5	<5	6.5	7.1

Except pH all values are in mg/lit.

Ground Water Quality at Zawar Group of Mines

Dec-25

S.No.	Parameters	IS : 10500:2012		Zawarmata Hand pump	Zawarmata Well	Naka bazar Well	Mahadev ki Nal Well	Tiger Well
		Acceptable	Permissible					
1	pH	6.5-8.5	No Relaxation	7.49	7.43	7.76	8.01	7.44
2	Chlorides	250	1000	49.98	69.98	57.98	47.98	71.98
3	TSS	-	-	<5	<5	<5	<5	<5
4	Zinc	5	15	0.02	0.06	0.02	0.05	0.03
5	Lead	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
6	Iron	0.3	No Relaxation	0.02	0.04	0.02	0.02	0.03
7	Copper	0.05	1.5	<0.01	<0.01	<0.01	<0.01	<0.01
8	Cadmium	0.003	No Relaxation	<0.003	<0.003	<0.003	<0.003	<0.003
9	Cyanides	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
10	Nickel	0.02	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
12	Chromium	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
13	Total Organic Carbon	-	-	<2	<2	<2	<2	2.5

Except pH all values are in mg/lit.

Ground Water Quality at Zawar Group of Mines

Jan-26

S.No.	Parameters	IS : 10500:2012		Zawarmata Hand pump	Zawarmata Well	Naka bazar Well	Mahadev ki Nal Well	Tiger Well
		Acceptable	Permissible					
1	pH	6.5-8.5	No Relaxation	7.70	7.17	7.96	7.04	7.59
2	Chlorides	250	1000	37.99	103.97	59.98	63.98	67.98
3	TSS	-	-	<5	<5	<5	<5	<5
4	Zinc	5	15	0.02	0.06	0.02	0.05	0.03
5	Lead	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
6	Iron	0.3	No Relaxation	0.02	0.03	0.02	0.02	0.03
7	Copper	0.05	1.5	<0.01	<0.01	<0.01	<0.01	<0.01
8	Cadmium	0.003	No Relaxation	<0.003	<0.003	<0.003	<0.003	<0.003
9	Cyanides	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
10	Nickel	0.02	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
12	Chromium	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
13	Total Organic Carbon	-	-	<1	4.3	<1	6.3	3.2

Except pH all values are in mg/lit.

Ground Water Quality at Zawar Group of Mines

Mar-26

S.No.	Parameters	IS : 10500:2012		Zawarmata Hand pump	Zawarmata Well	Naka bazar Well	Mahadev ki Nal Well	Tiger Well
		Acceptable	Permissible					
1	pH	6.5-8.5	No Relaxation	7.89	7.78	7.99	8.09	8.12
2	Chlorides	250	1000	65.98	61.98	65.98	83.97	67.98
3	TSS	-	-	<5	<5	<5	<5	<5
4	Zinc	5	15	0.03	0.04	0.03	0.08	0.05
5	Lead	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
6	Iron	0.3	No Relaxation	0.02	0.04	0.02	0.02	0.03
7	Copper	0.05	1.5	<0.01	<0.01	<0.01	<0.01	<0.01
8	Cadmium	0.003	No Relaxation	<0.003	<0.003	<0.003	<0.003	<0.003
9	Cyanides	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
10	Nickel	0.02	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01	<0.01	<0.01	<0.01
12	Chromium	0.05	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01
13	Total Organic Carbon	-	-	<5	<5	<5	<5	<5

Except pH all values are in mg/lit.

Piezometer Well Water Quality at Zawar Group of Mines

Dec-25

S.No.	Parameters	IS : 10500:2012		Near Bridge Vala Pâtel House (Pz - 01)	Near In front of Old Tailing Dam (Pz -02)	Near Tailing Dam Pump House (Pz - 03)	Near Magazine Area (Pz -04)	Near Below Tailing Pipe Lines (Pz -05)	Near Way to Tailing Dam Road (Pz -06)
		Accept able	Permissible						
1	pH	6.5-8.5	No Relaxation	6.66	7.9	6.87	7.04	7.28	7.25
2	Chlorides	250	1000	17.99	17.99	105.97	103.97	33.99	39.99
3	Zinc	5	15	0.12	0.43	0.05	0.13	0.11	0.07
4	Lead	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
5	Iron	0.3	No Relaxation	<0.01	<0.01	0.06	0.06	0.02	<0.01
6	Copper	0.05	1.5	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
7	Cadmium	0.003	No Relaxation	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8	Nickel	0.02	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9	Chromium	0.05	No Relaxation	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
10	Cyanide	0.05	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12	Total Organic Carbon	-	-	<2	<2	3.6	2.8	<2	<2

Except pH all values are in mg/lt

Piezometer Borewell/Handpump Water Quality at Zawar Group of Mines						
Dec-25						
S.No.	Parameters	IS : 10500:2012		Borewell Kheda Falan	Handpump Kheda Falan	Borewell Naya Kheda
		Acceptable	Permissible			
1	pH	6.5-8.5	No Relaxation	6.63	6.74	7.52
2	Chlorides	250	1000	55.98	61.98	51.98
3	TSS	-	-	<5	<5	<5
4	Zinc	5	15	<0.01	<0.01	<0.01
5	Lead	0.01	No Relaxation	<0.01	<0.01	<0.01
6	Iron	1.0	No Relaxation	0.03	0.02	0.03
7	Copper	0.05	1.5	<0.01	<0.01	<0.01
8	Cadmium	0.003	No Relaxation	<0.003	<0.003	<0.003
9	Cyanides	0.05	No Relaxation	<0.01	<0.01	<0.01
10	Nickel	0.02	No Relaxation	<0.01	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01	<0.01
12	Chromium	0.05	No Relaxation	<0.01	<0.01	<0.01
13	Total Organic Carbon	-	-	<2	<2	3.4
Except pH all values are in mg/lit						

Piezometer Well Water Quality at Zawar Group of Mines

Mar-26

S.No.	Parameters	IS : 10500:2012		Near Bridge Vala Patel House (Pz - 01)	Near In front of Old Tailing Dam (Pz -02)	Near Tailing Dam Pump House (Pz - 03)	Near Magazine Area (Pz -04)	Near Below Tailing Pipe Lines (Pz -05)	Near Way to Tailing Dam Road (Pz -06)
		Accepta ble	Permissible						
1	pH	6.5-8.5	No Relaxation	7.53	7.11	6.84	7.14	7.04	7.10
2	Chlorides	250	1000	45.98	65.97	103.96	61.98	259.98	63.97
3	Zinc	5	15	0.13	0.44	0.06	0.10	0.08	0.12
4	Lead	0.01	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
5	Iron	0.3	No Relaxation	<0.01	<0.01	0.07	0.06	0.02	<0.01
6	Copper	0.05	1.5	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
7	Cadmium	0.003	No Relaxation	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8	Nickel	0.02	No Relaxation	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
9	Chromium	0.05	No Relaxation	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
10	Cyanide	0.05	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
12	Total Organic Carbon	-	-	<5	<5	<5	<5	<2	<5

Except pH all values are in mg/lit

Piezometer Borewell/Handpump Water Quality at Zawar Group of Mines						
Mar-26						
S.No.	Parameters	IS: 10500:2012		Borewell Kheda Falan	Handpump Kheda Falan	Borewell Naya Kheda
		Acceptable	Permissible			
1	pH	6.5-8.5	No Relaxation	6.93	7.54	7.5
2	Chlorides	250	1000	83.97	99.96	101.96
3	TSS	-	-	6	<5	<5
4	Zinc	5	15	<0.01	<0.01	<0.01
5	Lead	0.01	No Relaxation	<0.01	<0.01	<0.01
6	Iron	1.0	No Relaxation	0.06	0.02	0.03
7	Copper	0.05	1.5	<0.01	<0.01	<0.01
8	Cadmium	0.003	No Relaxation	<0.003	<0.003	<0.003
9	Cyanides	0.05	No Relaxation	<0.01	<0.01	<0.01
10	Nickel	0.02	No Relaxation	<0.01	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01	<0.01
12	Chromium	0.05	No Relaxation	<0.01	<0.01	<0.01
13	Total Organic Carbon	-	-	<5	<5	<5

Except pH all values are in mg/lit

Tidi Upstream and Downstream Water Quality at Zawar Group of Mines

Nov-25 (Except pH all values are in mg/ltr)					
S. No.	Parameters	IS : 10500:2012		Tidi Upstream	Tidi Downstream
		Acceptable	Permissible		
1	pH	6.5-8.5	No Relaxation	8.35	8.37
2	Chlorides	250	1000	57.98	59.98
3	TSS	-	-	8	6
4	Zinc	5	15	0.08	0.07
5	Lead	0.01	No Relaxation	<0.01	<0.01
6	Iron	0.3	No Relaxation	0.02	0.02
7	Copper	0.05	1.5	<0.01	<0.01
8	Cadmium	0.003	No Relaxation	<0.003	<0.003
9	Cyanides	0.05	No Relaxation	<0.01	<0.01
10	Nickel	0.02	No Relaxation	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01
12	Chromium	0.05	No Relaxation	<0.01	<0.01
13	Sulphate	200	400	72.25	66.20

Dec-25 (Except pH all values are in mg/ltr)					
S. No.	Parameters	IS : 10500:2012		Tidi Upstream	Tidi Downstream
		Acceptable	Permissible		
1	pH	6.5-8.5	No Relaxation	8.11	8.17
2	Chlorides	250	1000	63.98	59.98
3	TSS	-	-	9	8
4	Zinc	5	15	0.08	0.08
5	Lead	0.01	No Relaxation	<0.01	<0.01
6	Iron	0.3	No Relaxation	0.03	0.03
7	Copper	0.05	1.5	<0.01	<0.01
8	Cadmium	0.003	No Relaxation	<0.003	<0.003
9	Cyanides	0.05	No Relaxation	<0.01	<0.01
10	Nickel	0.02	No Relaxation	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01
12	Chromium	0.05	No Relaxation	<0.01	<0.01
13	Sulphate	200	400	115.84	109.40

Jan-26 (Except pH all values are in mg/lt)					
S. No.	Parameters	IS : 10500:2012		Tidi Upstream	Tidi Downstream
		Acceptable	Permissible		
1	pH	6.5-8.5	No Relaxation	8.22	8.29
2	Chlorides	250	1000	63.98	67.98
3	TSS	-	-	7	8
4	Zinc	5	15	0.05	0.05
5	Lead	0.01	No Relaxation	<0.01	<0.01
6	Iron	0.3	No Relaxation	0.02	0.03
7	Copper	0.05	1.5	<0.01	<0.01
8	Cadmium	0.003	No Relaxation	<0.003	<0.003
9	Cyanides	0.05	No Relaxation	<0.01	<0.01
10	Nickel	0.02	No Relaxation	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01
12	Chromium	0.05	No Relaxation	<0.01	<0.01
13	Sulphate	200	400	34.30	37.13

Mar-26 (Except pH all values are in mg/lt)					
S. No.	Parameters	IS : 10500:2012		Tidi Upstream	Tidi Downstream
		Acceptable	Permissible		
1	pH	6.5-8.5	No Relaxation	7.99	8.07
2	Chlorides	250	1000	65.97	61.97
3	TSS	-	-	11	10
4	Zinc	5	15	0.08	0.03
5	Lead	0.01	No Relaxation	<0.01	<0.01
6	Iron	0.3	No Relaxation	0.03	0.03
7	Copper	0.05	1.5	<0.01	<0.01
8	Cadmium	0.003	No Relaxation	<0.003	<0.003
9	Cyanides	0.05	No Relaxation	<0.01	<0.01
10	Nickel	0.02	No Relaxation	<0.01	<0.01
11	Cobalt	-	-	<0.01	<0.01
12	Chromium	0.05	No Relaxation	<0.01	<0.01
13	Sulphate	200	400	25.42	26.87

Ground Water Level Monitoring at Zawar Group of Mines

S.No.	Piezometers	Oct-25(m)	Nov-25(m)	Dec-25(m)	Jan-26(m)	Feb-26(m)	Mar-26(m)
1.	Near Bridge (Vala Patel House) (Pz - 01)	1.05	1.12	1.21	1.36	1.48	1.92
2.	Near In front of Old Tailing Dam (Pz - 02)	5.76	5.81	5.62	7.46	7.71	8.11
3.	Near Tailing Dam Pump House(Pz - 03)	1.11	1.73	1.88	1.84	2.15	2.56
4.	Near Magazine Area(Pz - 04)	3.07	3.12	3.40	6.23	6.43	6.90
5.	Near Below Tailing Pipe Lines(Pz - 05)	4.55	4.63	4.33	5.84	6.18	6.55
6.	Near Way to Tailing Dam Road(Pz - 06)	1.58	1.66	1.71	2.50	2.89	3.50

S.No.	Wells in the area	Oct-25(m)	Nov-25(m)	Dec-25(m)	Jan-26(m)	Feb-26(m)	Mar-26(m)
1.	Zawarmata Well	2.03	3.105	3.157	3.296	4.768	4.915
2.	Mahadev ki Nal Well	0.963	1.440	1.495	1.507	4.265	4.46

DETAILS OF QUARTERLY STP ANALYSIS REPORT

S.No.	Parameters	Standard	Ashok Nagar			Ram Nagar		
			Oct - 25	Nov -25	Dec-25	Oct - 25	Nov -25	Dec-25
1	Total Suspended Solids	Not to exceed 100 mg/l	10	19	14	15	12	14
2	pH Value	Between 5.5 to 9	7.58	7.21	7.22	7.14	7.42	7.18
3	Oil and Grease	Not to exceed 10 mg/l	<5	<5	<5	<5	<5	<5
4	Ammonical Nitrogen (as N)	Not to exceed 50 mg/l	<5	<5	<5	<5	<5	<5
5	Biochemical Oxygen Demand	Not to exceed 30 mg/l	8	8	8.5	7	6	8
6	Chemical Oxygen Demand	Not to exceed 250 mg/l	45	47	44	40	33	40
7	Nitrate	Not to exceed 50 mg/l	24.15	20.1	32.5	33.2	17.5	35.2

DETAILS OF QUARTERLY STP ANALYSIS REPORT

S.No.	Parameters	Standard	Ashok Nagar			Ram Nagar		
			Jan - 26	Feb -26	Mar-26	Jan - 26	Feb -26	Mar-26
1	Total Suspended Solids	Not to exceed 100 mg/l	12	16	16	14	13	18
2	pH Value	Between 5.5 to 9	7.04	7.43	7.26	7.24	7.32	7.08
3	Oil and Grease	Not to exceed 10 mg/l	<5	<5	<5	<5	<5	<5
4	Ammonical Nitrogen (as N)	Not to exceed 50 mg/l	<5	<5	<5	<5	<5	<5
5	Biochemical Oxygen Demand	Not to exceed 30 mg/l	7.6	8	7	8	7.9	8
6	Chemical Oxygen Demand	Not to exceed 250 mg/l	40	45	40	45	38	40
7	Nitrate	Not to exceed 50 mg/l	28.4	30.3	32.5	30.8	32.1	35.2

ANNEXURE – 4

AMBIENT NOISE MONITORING AT ZAWAR GROUP OF MINES [in dB (A)]		
Stations/Month	Dec-25	
	Day	Night
Mill Gate	59.4	51.2
Mochia Mine	66.8	56.4
Balaria Mine	67.6	58.4
Administrative Block	59.2	51.5
Zawar Mala Mine	60.1	50.3
North Baroi Mine	62.6	53.0
Hydrofill Plant	61.4	50.6
Dry Tailing Plant	62.3	52.5
Hospital	57.4	50.9
Ramnagar Colony	52.0	43.0
West Mochia Mine	58.9	51.4
Central Baroi Mine	61.8	53.7
DAV School	53.2	44.1
Permissible Limit	75 dB (A)	70 dB (A)

AMBIENT NOISE MONITORING AT ZAWAR GROUP OF MINES [in dB (A)]		
Stations/Month	Mar-26	
	Day	Night
Mill Office	63.7	52.9
Central Mochia Mine	59.3	55.9
Balaria Mine	65.6	57.6
Administrative Block	52.8	43.9
Zawar Mala Mine	58.4	51.0
North Baroi Mine	64.6	53.1
Hydrofill Plant	67.8	50.2
Dry Tailing Plant	68.0	52.4
Hospital	54.5	42.6
Ramnagar Colony	51.3	42.2
West Mochia Mine	61.5	52.0
Central Baroi Mine	58.4	55.7
DAV School	53.2	41.3
Permissible Limit	75 dB (A)	70 dB (A)

ANNEXURE-5

S.R. No.	Date	Name	Age	Gender	Value
1	13/08/2025	Heera Lal	39	M	43.63
2	15/08/2025	Laxman Meena	30	M	44.41
3	14/08/2025	Ram Lal	36	M	73.39
4	14/08/2025	Shankar Meena	42	M	70.72
5	15/08/2025	Rakesh Kumar	45	M	33.07
6	15/08/2025	Laxman Meena	54	M	44.51
7	15/08/2025	Rajat Porwal	25	M	55.27
8	15/08/2025	Salauddin Khan	24	M	33.34
9	14/08/2025	Babu Lal	46	M	83.4
10	13/08/2025	Ramesh Chandra	41	M	49.02
11	08/12/2025	Ramesh Kumar Meena	40	M	64.6
12	08/12/2025	Rahul Kumar Jaiswal	34	M	86.7
13	15/08/2025	Shivram	45	M	32.28
14	15/08/2025	Charat Kumar	35	M	58.55
15	15/08/2025	Mohan Lal Meena	56	M	38.27
16	14/08/2025	Manohar Singh	32	M	96.85
17	15/08/2025	Raja Ram	46	M	86.47
18	14/08/2025	Naveen Singh	34	M	80.12
19	08/12/2025	Pappu	45	M	77
20	14/08/2025	Lokesh Meena	30	M	70.72
21	14/08/2025	Pathelal	48	M	72.45
22	14/08/2025	Govind	30	M	69.38
23	08/12/2025	Shakil	33	M	56.39
24	15/08/2025	Badda Meena	52	M	66.59
25	08/12/2025	Harish Kumar Meena	25	M	51.66
26	08/12/2025	Babulal Meena	42	M	96.63
27	08/12/2025	Rajkumar Meena	33	M	51.96
28	15/08/2025	Ramesh Chandra	56	M	40.14
29	14/08/2025	Kapil Meena	30	M	76.3
30	15/08/2025	Lokesh Kumar	33	M	24.3
31	14/08/2025	Laxman Lal Meena	46	M	72.66
32	15/08/2025	Narayan Singh	46	M	55.5
33	13/08/2025	Goutam Lal	52	M	63.49
34	13/08/2025	Prakash Choudhry	45	M	58.25
35	13/08/2025	Lokesh Chandra Kumar	32	M	68.97
36	14/08/2025	Arjun Singh	31	M	89.45
37	15/08/2025	Tarun Pareek	26	M	91.64
38	15/08/2025	Lal	47	M	64.64
39	13/08/2025	Nanji	43	M	57.51

40	08/12/2025	Babu Lal	39	M	93.84
41	08/12/2025	Dinesh Kumar	48	M	43.48
42	14/08/2025	Dashrath Meena	39	M	69.62
43	08/12/2025	Ganesh Meena	51	M	55.36
44	15/08/2025	Bhagwati Lal	44	M	62.54
45	14/08/2025	Hakra	55	M	75.89
46	15/08/2025	Lal	55	M	69.9
47	13/08/2025	Varun Kumar	34	M	93.07
48	15/08/2025	Jayesh Mevada	31	M	43.68
49	14/08/2025	Bhimraj Meena	35	M	33.75
50	14/08/2025	Pamak Paras Kumar	27	M	50.02
51	14/08/2025	Amba Lal	47	M	56.31
52	13/08/2025	Rajkumar	39	M	31.74
53	08/12/2025	Sumanth Chitteti	27	M	72.68
54	14/08/2025	Heera Lal Meena	36	M	53.48
55	13/08/2025	Mangu Nath	54	M	73.07
56	08/12/2025	Dhan Bahadur	57	M	78.25
57	14/08/2025	Uday Lal Meena	43	M	64.92
58	14/08/2025	Chandrashekhar	33	M	89.02
59	15/08/2025	Babu Lal	48	M	28.5
60	15/08/2025	Daivid Kumar	33	M	84.42
61	15/08/2025	Dabai	57	M	31.31
62	15/08/2025	Gupta	23	M	38.19
63	14/08/2025	Mayank Audichya	30	M	37.76
64	15/08/2025	Ashish Paliwal	32	M	71.25
65	15/08/2025	Toshit Ojha	29	M	48.26
66	14/08/2025	Deepak Kumar Patel	32	M	81.66
67	08/12/2025	Akaksh Meena	25	M	80.02
68	14/08/2025	Love Kumar	29	M	76.96
69	14/08/2025	Narayan	45	M	98.73
70	14/08/2025	Brij Mohan Choudhry	54	M	84.56
71	15/08/2025	Bhupendra Singh Rathod	30	M	39.3
72	13/08/2025	Pushpraj Singh	33	M	81.98
73	14/08/2025	Harish Kumar Meena	32	M	98.32
74	15/08/2025	Sanjay Manjhi	43	M	83.74
75	13/08/2025	Avinash Linda	30	M	70.34
76	14/08/2025	Munna Verma	33	M	75.37
77	15/08/2025	Abhishek Baranwal	31	M	38.88
78	08/12/2025	Anjit Turkar	33	M	95.72
79	14/08/2025	Moti Lal Meena	47	M	68.6
80	15/08/2025	Bhaghwathilal	45	M	60.9
81	08/12/2025	Prem Chand Patel	49	M	65.42
82	14/08/2025	Rajendra Singh	39	M	89.33

83	15/08/2025	Kumar	27	M	23.95
84	15/08/2025	Sanjay Kumar	34	M	44.46
85	13/08/2025	Dharma	44	M	51.13
86	15/08/2025	Mahender Kumar	26	M	74.13
87	13/08/2025	Prabhu Lal Meena	35	M	98.36
88	08/12/2025	Heera Lal Patel	57	M	43.7
89	08/12/2025	Sujit Kumar	28	M	92.9
90	14/08/2025	Shankar Lal Meena	32	M	91.38
91	13/08/2025	Mukesh	30	M	67.28
92	14/08/2025	Bhehru Lal Meena	24	M	47.15
93	15/08/2025	Rajendra Nath	52	M	46.73
94	14/08/2025	Patel Abhinav	30	M	96.67
95	08/12/2025	Manilal Meena	40	M	95.17
96	14/08/2025	Mahendra	37	M	90.64
97	15/08/2025	Nanji Meena	40	M	93.19
98	15/08/2025	Sohan Lal Meena	35	M	22.57
99	15/08/2025	Ram Chandra Meena	41	M	62.75
100	14/08/2025	Narendra Meena	36	M	52.15
101	08/12/2025	Harmandeep Singh	35	M	40.33
102	15/08/2025	Ramesh Kumar	39	M	54.2
103	13/08/2025	Kelash Chand Meena	45	M	51.22
104	13/08/2025	Suresh Kumar	40	M	74.18
105	13/08/2025	Bhupendra Singh	36	M	51.86
106	14/08/2025	Lal Chand Meena	29	M	71.93
107	13/08/2025	Sanjay Kumar Meena	30	M	90.36
108	15/08/2025	Pawan	28	M	52.52
109	14/08/2025	Vinod	44	M	73.84
110	13/08/2025	Jai Krishna Damor	35	M	77.04
111	14/08/2025	Gandla Satish	32	M	68.62
112	14/08/2025	Sohan Lal Meena	40	M	63.43
113	14/08/2025	Shaligram	41	M	80.43
114	15/08/2025	Meena	50	M	45.37
115	08/12/2025	Rakesh Kumar Bagora	40	M	31.8
116	14/08/2025	Dilip Singh	29	M	47.35
117	14/08/2025	Kundan Singh Bhati	39	M	92.06
118	15/08/2025	Sama Naresh Reddy	31	M	31.46
119	08/12/2025	Hurma Ram	58	M	56.93
120	15/08/2025	Bhawani Singh	32	M	17.14
121	08/12/2025	Siddhant Sharma	33	M	90.56
122	15/08/2025	Vijay Meena	42	M	19.98
123	13/08/2025	Mohan Lal	42	M	64.39
124	15/08/2025	Homa	52	M	64.5
125	15/08/2025	Raj Kumar	30	M	21.17

126	15/08/2025	Hari Ram	46	M	63.67
127	08/12/2025	Madukar Ellandula	24	M	46.97
128	14/08/2025	Nathu Lal	56	M	55.26
129	13/08/2025	Balu Ram	40	M	45.68
130	15/08/2025	Kishan Patel	28	M	44.16
131	13/08/2025	Rakesh Kumar	33	M	62.84
132	15/08/2025	Altaf Husain	28	M	35.62
133	15/08/2025	Amrish Gupta	39	M	28.57
134	15/08/2025	Sonu Soni	27	M	46.67
135	14/08/2025	Ranjeet Singh	37	M	96.66
136	15/08/2025	Kishan Das V	34	M	50.42
137	14/08/2025	Ashok Nath Jogi	41	M	82.76
138	14/08/2025	Ramesh Lal	35	M	56.86
139	15/08/2025	Akash Singh	31	M	48.59
140	08/12/2025	Mubarik Husain	30	M	48.28
141	13/08/2025	Vijay Singh	35	M	45.36
142	14/08/2025	Mava Ram Meena	36	M	82.85
143	13/08/2025	Ramesh Kumar Meena	31	M	39.88
144	14/08/2025	Mangi Lal	37	M	71.66
145	14/08/2025	Bholanath	47	M	84.33
146	14/08/2025	Chunni Lal	41	M	76.03
147	14/08/2025	Suryakant Behera	53	M	97.48
148	15/08/2025	Prabhu Lal	48	M	71.54
149	13/08/2025	Ankit Sharma	30	M	67.42
150	14/08/2025	Jagdish Katal	38	M	79.62



Original

ULR NO: TC531220000000851F

TC-5312

Modern Test Centre

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- (Accredited To NABL through ISO/IEC 17025:2017)
- (Recognized by BIS vide OSL Code-5123116)

Off:-Gandhi Nagar 5th line Extn. East, Berhampur-760001, Dist-Ganjam (Odisha)Lab:-Neelanchala Nagar 3rd lane, Berhampur-760010, Dist-Ganjam (Odisha), Phone:-0680 2403321-22Visit us: www.moderntestcenter.comMail: - moderntestcenter@gmail.com

Ref: - 26308/MTC/LF/7.8/14/2020

DATE: 20/07/2020

TEST CERTIFICATE

Issued to: M/s. Hindustan Zinc Limited, Zawar Mines
PO: Zawar Mines
Udaipur, Pin: 313901.

LOCATION: BALARIYA MINE

Customer Reference No: Nil Dt. 08/07/2020

Date of Initiation of Test : 20/07/2020

Date of Receipt: 20/07/2020

Date of Completion of Test: 20/07/2020

TEST CERTIFICATE NO: 2113 18896**DATE: 20/07/2020****TEST CERTIFICATE AS PER IS 14194 (PART- 1 & PART-2): 2013****PART A: PARTICULARS OF SAMPLE SUBMITTED**

a) Nature of sample	: Dewatering Water	f) Quantity	: 1 No's
b) Grade / Variety/ Type/Class/Size etc:	: 1 lit bottle	g) Mode of packing	: Packed in Carton
c) Brand Name, if any	: Not available	h) Condition of Seal of	: Not applicable
d) Name of the test suggested	: Beta Emitters & Alpha Emitters	Certifying Body Or the Regulatory authority	
e) Batch No. & Date of Manufacture /Collection/Sampling	: Batch No: Not Specified DOS: 06/07/2020	i) Any other information	: No Specific Observation

PART B: SUPPLEMENTARY INFORMATIONS

a) Reference to sampling by-lab/submitted by party : Sample submitted by SCS Enviro Services, Jaipur, Rajasthan

By Lab: i) Location : -----

ii) Date & time of collection : -----

iii) Name of lab representative : -----

(Wherever applicable)

b) Supporting documents like graphs, tables,
Sketches for the measurements taken and
The results derived, if any to be attached : -----

c) Deviation from the test methods as

Prescribed in relevant ISS / Work

Instructions, if any

: No deviation

d) Deviation from environmental condition, if any

: No deviation

PART C: TEST RESULTS

Sl. No	Parameter	Specified value maximum as per IS 10500:2012	Result
1	Beta Emitters	1 Bq.l ⁻¹	BDL
2	Alpha Emitters	0.1 Bq.l ⁻¹	BDL

N.B:- BDL is below detection limit of the detector.

The DL for Beta Emitters is 0.134 Bq.l⁻¹The DL for Alpha Emitters is 0.007 Bq.l⁻¹**PART D: REMARKS**

- 1) The results stated above relates to the sample tested only.
- 2) This report in full or in part shall not be published, advertised, used for any legal action unless prior permission has been secured from the competent Authority of the laboratory.
- 3) The sample shall be kept for three month after the test and can be returned on request or shall be destroyed. Any customer complain or by regulatory authority shall be entertained, if and only if the complain is registered within one month from date of report.

For Modern Test Centre

Signature with seal

Authorized Signatory

21401



Original

ULR NO: TC53122000000852F

TC-5312

Modern Test Centre

✓ (Accredited To AERB vide certificate No: AERB/RSD/ACC-16/R-3/2017/1073)
 ✓ (Accredited To NABL through ISO/IEC 17025:2017)
 ✓ (Recognized by BIS vide OSL Code-5123116)
Off:-Gandhi Nagar 5th line Extn. East, Berhampur-760001, Dist-Ganjam (Odisha)
Lab:-Neelanchala Nagar 3rd lane, Berhampur-760010, Dist-Ganjam (Odisha), Phone:-0680 2403321-22
 Visit us: www.moderntestcenter.com Mail: - moderntestcenter@gmail.com
 Ref: - 26309/MTC/LF/7.8/14/2020 DATE: 20/07/2020

TEST CERTIFICATE

Issued to: M/s. Hindustan Zinc Limited, Zawar Mines
 PO: Zawar Mines
 Udaipur, Pin: 313901.

LOCATION: BAROI MINE

Customer Reference No: Nil Dt. 08/07/2020
Date of Receipt: 20/07/2020

Date of Initiation of Test : 20/07/2020
Date of Completion of Test: 20/07/2020
DATE: 20/07/2020

TEST CERTIFICATE NO: 2113 18897

TEST CERTIFICATE AS PER IS 14194 (PART-1 & PART-2): 2013

PART A: PARTICULARS OF SAMPLE SUBMITTED

a) Nature of sample	: Dewatering Water	f) Quantity	: 1 No's
b) Grade / Variety/ Type/Class/Size etc:	: 1 lit bottle	g) Mode of packing	: Packed in Carton
c) Brand Name, if any	: Not available	h) Condition of Seal of	: Not applicable
d) Name of the test suggested	: Beta Emitters & Alpha Emitters	Certifying Body Or the Regulatory authority	
e) Batch No. & Date of Manufacture /Collection/Sampling	: Batch No: Not Specified DOS: 06/07/2020	i) Any other information	: No Specific Observation

PART B: SUPPLEMENTARY INFORMATIONS

- a) Reference to sampling by-lab/submitted by party : Sample submitted by SCS Enviro Services, Jaipur, Rajasthan
- By Lab: i) Location : -----
 ii) Date & time of collection : -----
 iii) Name of lab representative (Wherever applicable) : -----
- b) Supporting documents like graphs, tables, Sketches for the measurements taken and The results derived, if any to be attached : -----
- c) Deviation from the test methods as Prescribed in relevant ISS / Work Instructions, if any : No deviation
- d) Deviation from environmental condition, if any : No deviation

PART C: TEST RESULTS

Sl. No	Parameter	Specified value maximum as per IS 10500:2012	Result
1	Beta Emitters	1 Bq.l ⁻¹	BDL
2	Alpha Emitters	0.1 Bq.l ⁻¹	BDL

N.B:- BDL is below detection limit of the detector.
 The DL for Beta Emitters is 0.134 Bq.l⁻¹
 The DL for Alpha Emitters is 0.008 Bq.l⁻¹

PART D: REMARKS

- The results stated above relates to the sample tested only.
- This report in full or in part shall not be published, advertised, used for any legal action unless prior permission has been secured from the competent Authority of the laboratory.
- The sample shall be kept for three month after the test and can be returned on request or shall be destroyed. Any customer complain or by regulatory authority shall be entertained, if and only if the complain is registered within one month from date of report.

For Modern Test Centre
Shankar Khata
 Signature with seal
 Authorised Signatory

21401



Original

ULR NO: TC531220000000853F

TC-5312

Modern Test Centre

- (Accredited To AERB vide certificate No: AERB/RSD/ACC-16/R-3/2017/1073)
- (Accredited To NABL through ISO/IEC 17025:2017)
- (Recognized by BIS vide OSL Code-5123116)

Off:-Gandhi Nagar 5th line Extn. East, Berhampur-760001, Dist-Ganjam (Odisha)Lab:-Neelanchala Nagar 3rd lane, Berhampur-760010, Dist-Ganjam (Odisha), Phone:-0680 2403321-22Visit us: www.moderntestcenter.comMail: - moderntestcenter@gmail.com

Ref: - 26310/MTC/LF/7.8/14/2020

DATE: 20/07/2020

TEST CERTIFICATE

Issued to: M/s. Hindustan Zinc Limited, Zawar Mines
PO: Zawar Mines
Udaipur, Pin: 313901.

LOCATION: MOCHIA MINE

Customer Reference No: Nil Dt. 08/07/2020
Date of Receipt: 20/07/2020

Date of Initiation of Test : 20/07/2020

Date of Completion of Test: 20/07/2020

TEST CERTIFICATE NO: 2113 18898**DATE: 20/07/2020****TEST CERTIFICATE AS PER IS 14194 (PART-1 & PART-2): 2013****PART A: PARTICULARS OF SAMPLE SUBMITTED**

a) Nature of sample	: Dewatering Water	f) Quantity	: 1 No's
b) Grade / Variety/ Type/Class/Size etc:	: 1 lit bottle	g) Mode of packing	: Packed in Carton
c) Brand Name, if any	: Not available	h) Condition of Seal of	: Not applicable
d) Name of the test suggested	: Beta Emitters & Alpha Emitters	Certifying Body Or the Regulatory authority	
e) Batch No. & Date of Manufacture /Collection/Sampling	: Batch No: Not Specified DOS: 06/07/2020	i) Any other information	: No Specific Observation

PART B: SUPPLEMENTARY INFORMATIONS

a) Reference to sampling by-lab/submitted by party : Sample submitted by SCS Enviro Services, Jaipur, Rajasthan

By Lab: i) Location :

ii) Date & time of collection :

iii) Name of lab representative :

(Wherever applicable)

b) Supporting documents like graphs, tables, Sketches for the measurements taken and The results derived, if any to be attached :

c) Deviation from the test methods as Prescribed in relevant ISS / Work Instructions, if any : No deviation

d) Deviation from environmental condition, if any : No deviation

PART C: TEST RESULTS

Sl. No	Parameter	Specified value maximum as per IS 10500:2012	Result
1	Beta Emitters	1 Bq.l ⁻¹	BDL
2	Alpha Emitters	0.1 Bq.l ⁻¹	BDL

N.B:- BDL is below detection limit of the detector.

The DL for Beta Emitters is 0.134 Bq.l⁻¹The DL for Alpha Emitters is 0.007 Bq.l⁻¹**PART D: REMARKS**

- 1) The results stated above relates to the sample tested only.
- 2) This report in full or in part shall not be published, advertised, used for any legal action unless prior permission has been secured from the competent Authority of the laboratory.
- 3) The sample shall be kept for three month after the test and can be returned on request or shall be destroyed. Any customer complain or by regulatory authority shall be entertained, if and only if the complain is registered within one month from date of report.

For Modern Test Centre
Shankar Khater
Signature with seal
Authorized Signatory
21402



Original

ULR NO: TC53122000000850F

TC-5312

Modern Test Centre

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 - (Accredited To NABL through ISO/IEC 17025:2017)
 - (Recognized by BIS vide OSL Code-5123116)
- Off:-Gandhi Nagar 5th line Extn. East, Berhampur-760001, Dist-Ganjam (Odisha)
 Lab:-Neelanchala Nagar 3rd lane, Berhampur-760010, Dist-Ganjam (Odisha), Phone:-0680 2403321-22
 Visit us: www.moderntestcenter.com Mail: - moderntestcenter@gmail.com
 Ref: - 26307/MTC/LF/7.8/14/2020 DATE: 20/07/2020

TEST CERTIFICATE

Issued to: M/s. Hindustan Zinc Limited, Zawar Mines
 PO: Zawar Mines
 Udaipur, Pin: 313901.

LOCATION: ZAWARMALA MINE

Customer Reference No: Nil Dt. 08/07/2020
 Date of Receipt: 20/07/2020

Date of Initiation of Test : 20/07/2020
 Date of Completion of Test: 20/07/2020
 DATE: 20/07/2020

TEST CERTIFICATE NO: 2113 18895

TEST CERTIFICATE AS PER IS 14194 (PART- 1 & PART-2): 2013

PART A: PARTICULARS OF SAMPLE SUBMITTED

a) Nature of sample	: Dewatering Water	f) Quantity	: 1 No's
b) Grade / Variety/ Type/Class/Size etc:	1 lit bottle	g) Mode of packing	: Packed in Carton
c) Brand Name, if any	: Not available	h) Condition of Seal of	: Not applicable
d) Name of the test suggested	: Beta Emitters & Alpha Emitters	Certifying Body Or the Regulatory authority	
e) Batch No. & Date of Manufacture /Collection/Sampling	: Batch No: Not Specified DOS: 06/07/2020	i) Any other information	: No Specific Observation

PART B: SUPPLEMENTARY INFORMATIONS

- a) Reference to sampling by-lab/submitted by party : Sample submitted by SCS Enviro Services, Jaipur, Rajasthan
- By Lab: i) Location :
- ii) Date & time of collection :
- iii) Name of lab representative :
- (Wherever applicable)
- b) Supporting documents like graphs, tables, Sketches for the measurements taken and The results derived, if any to be attached :
- c) Deviation from the test methods as Prescribed in relevant ISS / Work Instructions, if any : No deviation
- d) Deviation from environmental condition, if any : No deviation

PART C: TEST RESULTS

Sl. No	Parameter	Specified value maximum as per IS 10500:2012	Result
1	Beta Emitters	1 Bq.l ⁻¹	BDL
2	Alpha Emitters	0.1 Bq.l ⁻¹	BDL

N.B:- BDL is below detection limit of the detector.
 The DL for Beta Emitters is 0.114 Bq.l⁻¹
 The DL for Alpha Emitters is 0.007 Bq.l⁻¹

PART D: REMARKS

- 1) The results stated above relates to the sample tested only.
- 2) This report in full or in part shall not be published, advertised, used for any legal action unless prior permission has been secured from the competent Authority of the laboratory.
- 3) The sample shall be kept for three month after the test and can be returned on request or shall be destroyed. Any customer complain or by regulatory authority shall be entertained, if and only if the complain is registered within one month from date of report.

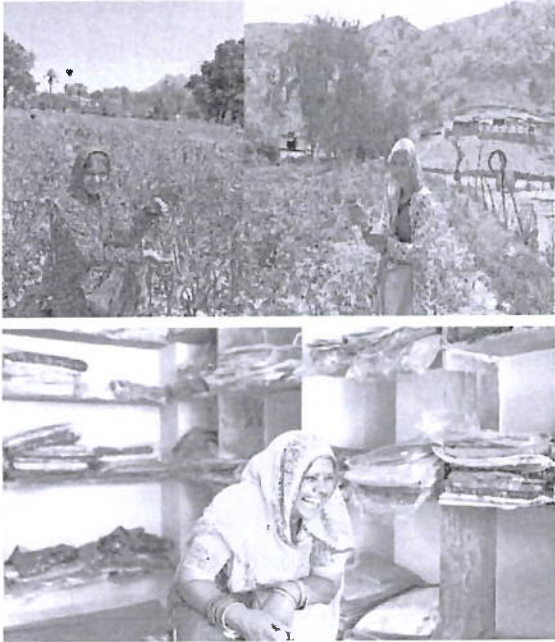

For Modern Test Centre
 Shankar Khatu
 Signature with seal
 Authorized Signatory


21399

ANNEXURE-8

Compliance status of Commitments made during previous public hearing

S. No.	Issues	Action taken
1	<p>Appreciation for education especially Girl's education.</p> 	<ul style="list-style-type: none"> • Education of 47 meritorious girls from nearby villages are supported for higher education by at Vedanta PG college Ringus in FY 2025-26. • HZL is lending support in improving the board results of 1200+ students under Shiksha Sambal Project in 12 Govt Schools and as a part of which 3 camps were organized bringing together 800+ students of these Schools (Summer Camp, Winter camp & Diwali Learning Camp) for better coverage and preparation of the exams. • Since its inception, 14 students from Zawar have been selected under the Unchi Udaan Project. They receive full support for residential schooling and education from Class 9 to 12, along with coaching for engineering entrance examinations. • At Zinc Kaushal Kendra 310 youth trained till now in two trades, Unarmed Security Guards (USG) and Guest and Services Associate (GSA) trainees placed at renowned organizations including TCS, Taj Hotels and Club Mahindra with average salary Rs 14,500/- with services of food and accommodation.

S. No.	Issues	Action taken
2	<p>Demand for set-up of more industries in the area for employment generation.</p> 	<p>Sakhi</p> <p>4978 women connected through 405 SHGs, 32 VO's and 1 federation Sakhi Shakti Samiti Zawar Mines under Sakhi project. Through inter loaning women have saved Rs. 4.55 crores, disbursed total loan of Rs. 28.69 crores and earned interest of Rs. 8 Lakhs.</p> <p>Sakhi Namkeen Unit set up in Paduna, directly employing 6 Rural Women for manufacturing & packaging unit and supporting 17 women as Business Sakhis. The unit did sales worth Rs. 9,38,694.00 lakhs from October 2025 till March 2026.</p> <p>Samadhan</p> <p>Under Samadhan Project Zawar Mata Farmer Producer Organisation with 1830 shareholders were operational at since more than one year, also conducted Annual General Meeting with all the shareholders for transparency, ownership and accountability for the Farmer Producer Organisation by the CEO.</p>
3	<p>Appreciation for maintaining good environment and plantation in the area.</p> 	<p>We are regularly carrying out plantation in and around our mine operations. Over last 5 years, we have completed plantation in 225 ha area through forest department under RDF scheme-1&2. In 2021, also planted in 75 ha through forest department under RDF scheme-1&2 and 100 Ha in RDF scheme in 2024 planted 2500 nos. of plantation at tailing storage facility and 1000 nos. as gap plantation in mine area. In 2025, we planted 5000 native and fruit-bearing trees (6-8ft) at locations provided by the key stakeholders.</p>
4	<p>Chances of dust generation from Tailing Dam.</p>	<p>Various dust control measures like water sprinkling is being done continuously and same will be continued. Compaction of tailing after disposal is being done.</p>
5	<p>General problem of tree felling by villagers in the area.</p>	<p>Plantation of 5000+ Fruit bearing trees (6-8ft) at various site with the support of Panchayat.</p>

S. No.	Issues	Action taken
6	Improvement of road network in the area. (Maintenance and augmentation of Roads)	<p>There has been construction of various roads to improve the commute in the villages:</p> <ul style="list-style-type: none"> • Construction of 1000 RM CC Road in Kanpur • Construction of 1000 RM CC Road in Newatalai • Construction of 550 RM CC Road in Tidi Nal • Construction of 300 RM CC Road in Ramanath • Construction of 200 RM CC Road in Zawarmala 
7	Water conservation and harvesting measures.	New Rainwater harvesting structures (39 structures) along with deepening / de-silting of existing rainwater harvesting structures for the period of FY 17 to FY 22
8	Drinking water problem- Kanpur village	<p>Regular supply of drinking water to the villagers of Kanpur has been ensured through tankers.</p> 