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HINDUSTAN ZINC
Zinc & Silver of India

HZL/RAM/Env/2026-2027/464 20th July' 2026

Member secretary,
Rajasthan Pollution Control Board,
4, Institutional Area,
Jhalana Doongri,
Jaipur.

Sub : Environment Statement of Rampura Agucha Mine for year 2025-2026.

Ref: CTO Mine order No 2022-2023/Mines/10762 dated 28/02/2023.
CTO Mill order No 2023-2024/HDF/9370 dated 14/06/2023.
EC Letter No J-11015/267/2008-IA.II (M) dated 11.12.2009.

Sir,

Please find enclosed herewith the environmental statement for financial year ending on 31st March 2026.

Thanking you

Yours truly,

(Ram Murari)
CEO Agucha IBU

CEO - IBU Agucha
Hindustan Zinc Limited
Rampura Agucha Mines
P.O. Agucha
Distt. Bhilwara (Raj.)

cc to: Regional Officer,
Rajasthan State Pollution Control Board,
18, Azad Nagar, Pannadhay Circle,
Mining Engineer Office Road (Near Telephone Exchange)
Bhilwara (Raj.)

The Joint Director,
Ministry of Environment, Forest & Climate Change,
Integrated Regional Office, A-209&218, Aranya Bhawan,
Jhalana Institutional area Jaipur-302004.

O/C → Environment



**Hindustan Zinc Limited**
Rampura Agucha Mines, P.O. Agucha, Distt. Bhilwara (Rajasthan) - 311 022
M +91-9001294956-57 www.hzlindia.com
Registered Office : Yashad Bhawan, Udaipur (Rajasthan) 313 004
CIN No. L27204RJ1966PLC001208

# FORM – 5

## ENVIRONMENTAL STATEMENT FOR FINANCIAL YEAR ENDING ON 31ST MARCH 2026

## PART – A

| | | | |
|---|---|---|---|
| (i). | Name and address of the owner / occupier of the industry/ operation or process | : | Sh. Arun Misra<br>Chief Executive Officer &<br>Whole Time Director<br>Hindustan Zinc Limited<br>Yashad Bhawan<br>Udaipur 313 001 |
| | Name and address of unit head | : | Sh. Ram Murari<br>CEO -Agucha IBU<br>Hindustan Zinc Limited<br>Rampura Agucha Mine<br>AGUCHA 311 022<br>Distt. Bhilwara (Raj)<br>Phone: 01483 – 229011<br>Fax : 01483 – 229012 |
| (ii). | Industry category | : | Red |
| | Primary (STC code) | | Mining of lead-zinc minerals and ore beneficiation |
| | Secondary (STC code) | | Not Applicable |
| (iii). | Production Capacity -Units | : | 6.15 Mtpa of lead- zinc ore production & 6.50 Mtpa lead zinc ore beneficiation |
| (iv) | Year of establishment | : | Commissioned on 25/03/91 |
| (v). | Date of last environmental statement submitted | : | 16/06/2025 |

## PART – B
## Water and Raw Material Consumption

(i) Water Consumption (m3/day)

| | Cum/day |
|---|---|
| Process | 1353.03 |
| Cooling / Services | 413.50 |
| Domestic | 2098.42 |

| Name of Product | Process water consumption (fresh water) per unit of product output (Ore treatment) | |
|---|---|---|
| | During current year 2024-25 | During current year 2025-26 |
| Lead & Zinc concentrate( Mill) | 0.218 cum/MT | 0.086 cum/MT |

(ii) Raw material consumption

| **Name of raw material** | **Name of product** | **Consumption of raw material per unit of output (gm/MT) *** | |
|---|---|---|---|
| | | **2024-25** | **2025-26** |
| Copper Sulphate | Lead & Zinc Concentrate | 645.29 | 606.81 |
| MIBC | --do-- | 17.95 | 16.96 |
| Hydrated Lime | --do-- | 86.25 | 34.45 |
| Nigrosine | --do-- | 7.51 | 13.09 |
| Xanthate (PEX & SIPX) | --do-- | 141.04 | 145.78 |
| Sodium Cyanide | --do-- | 3.93 | 9.14 |
| Sodium Humate | --do-- | 12.27 | 11.22 |

* Raw material consumption is shown as grams per ton of ore treatment.

| **Production** | **2024-2025 (MT)** | **2025-2026 (MT)** |
|---|---|---|
| Ore treatment | 5471106 | 5764344 |
| Lead Concentrate | 90842.9 | 75338.2 |
| Zinc Concentrate | 1077160.9 | 1122455.3 |

## PART – C

### POLLUTION DISCHARGED TO ENVIRONMENT/UNIT OF OUTPUT

(Parameters as specified in the consent issued)

| Sr. No | Pollutants | | Quantity of pollutants discharged | Concentration of pollutants in discharge (mass/volume) | %age of variation from prescribed standards and reason |
|---|---|---|---|---|---|
| A | Water | | Zero discharge status | No Discharge | Zero discharge is maintained. Water is reclaimed from tailing dam and reused in beneficiation plant. |
| B | Air dust emission from stack (SPM) | Primary Crusher Old | 2.71 kg/day | 34.15 mg/$Nm^3$ | 77.23 % lesser than stack emission standard |
| | | Primary Crusher New | 6.03 kg/day | 29.32 mg/$Nm^3$ | 80.45 % lesser than stack emission standard |
| | | Sec./Ter Crusher | 19.29 kg/day | 28.32 mg/ $Nm^3$ | 81.12 % lesser than standard of stack emission |

## PART – D

### HAZARDOUS WASTE

[As specified under Hazardous and other Waste (Management, & Transboundary Movement) Rules 2016]

| Hazardous wastes | Total quantity generated during the year | |
|---|---|---|
| | 2024-25 | 2025-26 |
| a. From Process | | |
| Decontaminated drums | 570 Nos | 1204 Nos |
| Used oil | 675.6 MT | 677.10 |
| Contaminated cotton rags or other cleaning materials | 1.53 MT | 1.07 MT |
| Oil containing wastes / Residues | 1.2 MT | 1.25 MT |

## PART – E

**Solid Waste**

| Sr. No. | | Total quantity during the year | |
|---|---|---|---|
| | | 2024-25 | 2025-26 |
| A | From process (Tailings)* | 4303103 MT | 4566550 |
| | Tailing as reuse in backfilling | 1512101 MT | 1322799 |
| | Tailing to Tailing Dam | 2791002 MT | 3243751 |
| B | From pollution control facility ** | Nil | Nil |
| C | 1. Quantity recycled or reutilized | Nil | Nil |
| | 2. Solid | Nil | Nil |
| | 3. Disposed*** | Nil | Nil |

* All the tailings of beneficiation plant are being discharged to tailing dam and zero discharge is maintained. Water is reclaimed from tailing dam and is pumped back to beneficiation plant for reuse.

** All the dust slurry transported to process plant and utilized.

*** Used oil sold to registered parties with MoEF / CPCB.

## PART – F

Please specify the characterizations (in terms of composition and quantum) of hazardous as well solid wastes and indicate disposal practice adopted for both these categories of waste.

i. The Solid Waste in form of tailings (Non hazardous) generated from beneficiation plant having following mineralogical composition:

| Particular | % Content |
|---|---|
| Total Lead | 0.04 – 0.45% |
| Total Zinc | 0.19 – 1.55% |
| Total Iron | 3.26 – 10.75% |
| Insoluble | 56.11 –75.57% |
| Gr. Carbon | 2.70 – 4.46% |
| Silica | 36.92 – 49.93% |
| Cd | 0.0006 – 0.0046% |

Tailing in the form of slurry (containing 60% solids) is being discharged in the tailing dam. These solids of the slurry settle, and clear water are reclaimed and put in water recirculation system.

| | | | |
|---|---|---|---|
| ii. | Over burden | - | Quantity: 1177350 MT<br>This over burden does not contain any minerals and are inactive rocks. This waste is dumped in the non-mineralized zone area with 7 X 20 m lifts with 20 m benches between successive lifts. Waste rocks are utilized in tailing dam height raising purpose. |
| iii. | Used Oil | - | 677.10 MT of used oil is recovered from different machinery and heavy earth movers. Used oil is stored in drums and kept in the specified area for disposal to registered re-refiners with MoEFCC/CPCB. |
| iv. | Discarded Containers and bags | - | Discarded containers of chemicals are stored in the earmarked place, decontamination is Carried out before disposal to TSDF. |

## PART – G

**Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production:**

Beneficiation plant is discharging the tailing slurry, which contains about 40% water and 60% solids. For this purpose tailing dam was constructed having an area of 1.30 sq. km. to collect water in down streamside. The pumps are installed at tailing dam to pump this water to reclaim pump house sump and from there it is pumped to beneficiation plant for reuse. To meet out water requirement, radial well constructed in Banas River bed and laid down 60 kms long pipe line for supply of water for industrial and domestic use. The water requirement for process plant is met by 60% reclaimed water of tailing dam and 40% by fresh water. The tailing dam is constructed with bottom and inside walls lined with impervious soil and HDPE for containment of tailings. The reclaimed water is used in plant to reduce the fresh water consumption by about 60%. The mine pit water is being used in process plant. Thus conserves water a natural resource.

## PART – H

**Addition measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution.**

The following works are completed to improve the working environment

1. Regular sprinkling on Haul roads for dust suppression.
2. Cleaning of industrial roads and yards by Mechanical Road Sweepers.
3. Regular plantation on matured benches, periphery, road side etc.
4. Application of geotextiles over waste dump slope at critical locations for reducing fugitive dust caused by high-speed wind and improving slope stability.

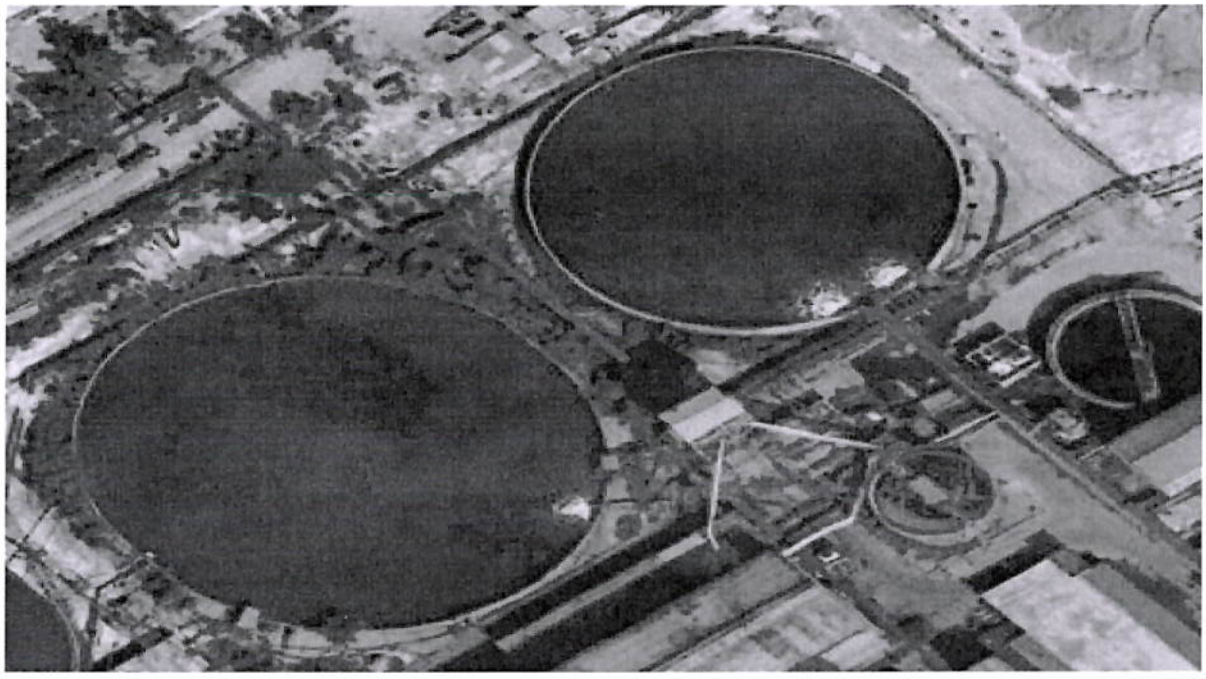
## PART-I

**Any other particulars for improving the quality of the environment:**

1. **Air pollution control**

- Dust from ore crushing and handling equipment is being controlled by dust extraction system through wet scrubber, dust suppression system & dust extraction system.
- Fortnightly monitoring of ambient air quality at 6 locations and stack emissions from crushing section stack for suspended particulate matter.
- Haul road fugitive emission controlled by regular water sprinkling with dust suppression by 40 KL (4 Nos.) water sprinkler tankers.
- Mechanical truck mounted road sweeper for road cleaning.

2. **Water pollution control**:
   - Water quality of wells and piezometers around the mine complex is being monitored on quarterly basis.
   - Tailing treatment and disposal: Tailings of beneficiation plant are treated with hydrated lime prior to pumping to the tailing dam and reclaimed water is pumped back to plant for reuse.
   - Reclaim water reservoir of 50,000-m3 & 35000-m3 capacity, to reduce the water evaporation losses at tailing dam. Water from all the sources is pumped to this reservoir for recycling.



**3. Noise and vibration control**

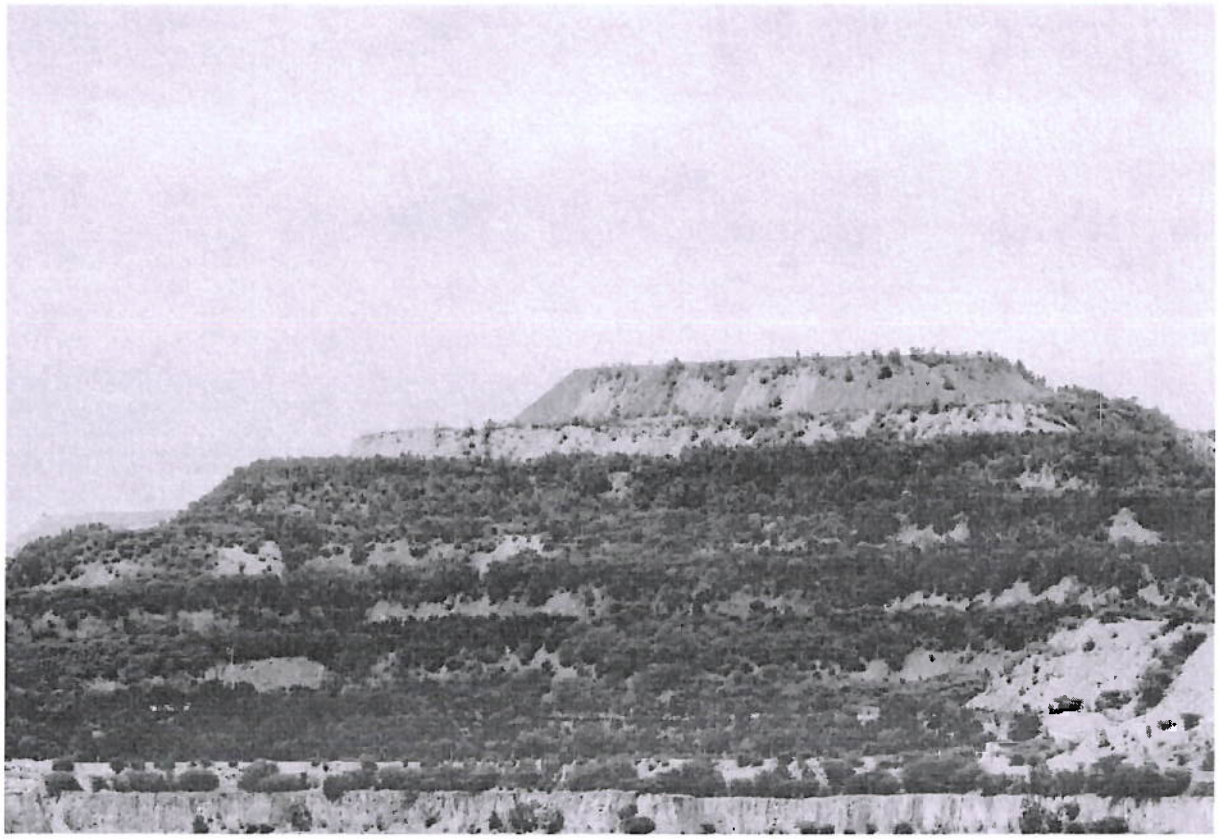
Cabins of all the HEMM are air-conditioned. Sound level of mining equipment, beneficiation plant is regularly monitored. Long hole blasting technique is used in mine stope, and Ground vibrations are regularly monitored by internal and external agencies.

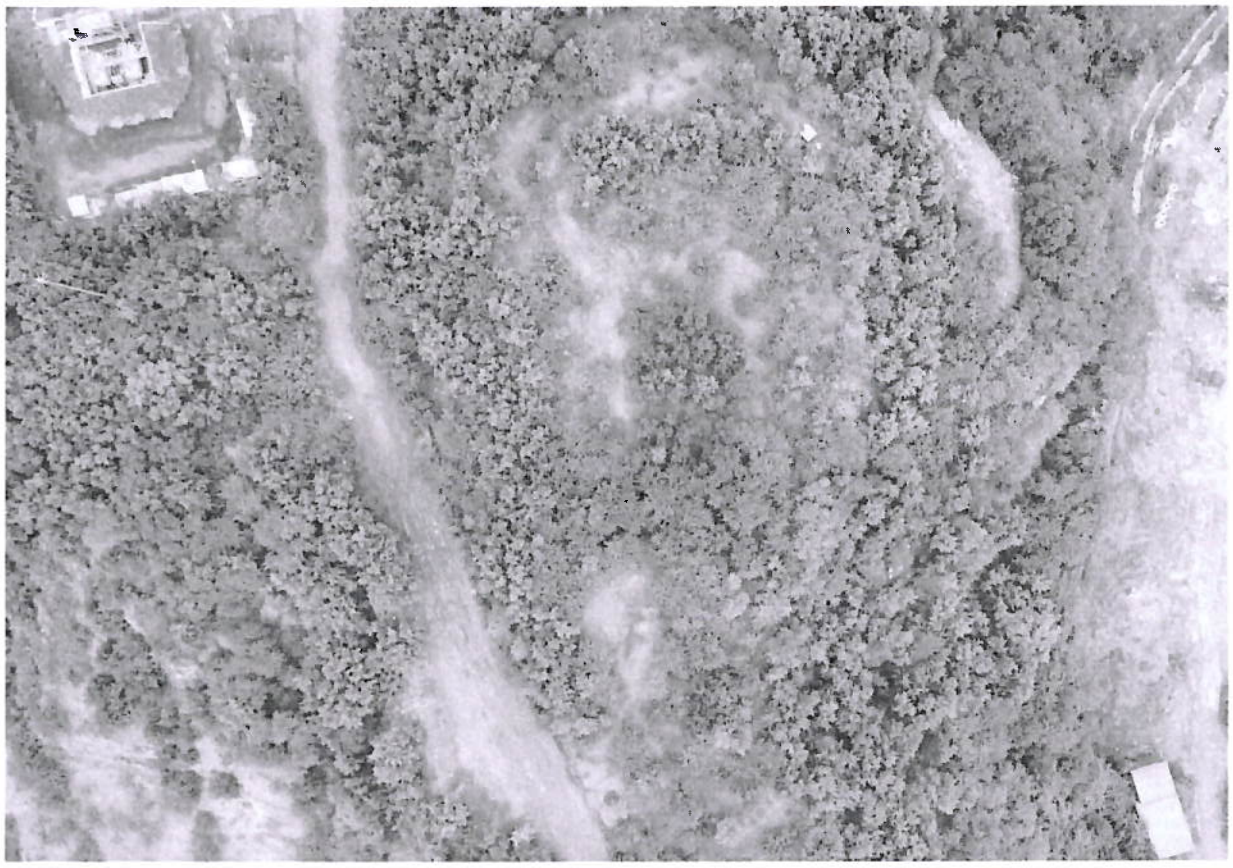
**4. Waste dump management**

Overburden is dumped in the form of 7 X 20 m lifts with an ultimate height of 140 m and having an angle of 45° and the overall slope of 27°. The rock faces are dozed and covered with the available top soil and saplings are planted on the inactive benches and slopes.

**5. Plantation & Geotextiles**

- Till March 2026, 762103 Nos Plants in 348 Hectares area are surviving in acquired land of lease area of which 15000 saplings was planted in 2025-26.
- In township 75.0771 hectares land was acquired and 50.98 hectares has been covered by greenbelt.
- Extensive plantation has been carried out along various road sides connected to plant and colony.





- Geotextile Laying on waste dump slopes for rehabilitation or green belt development

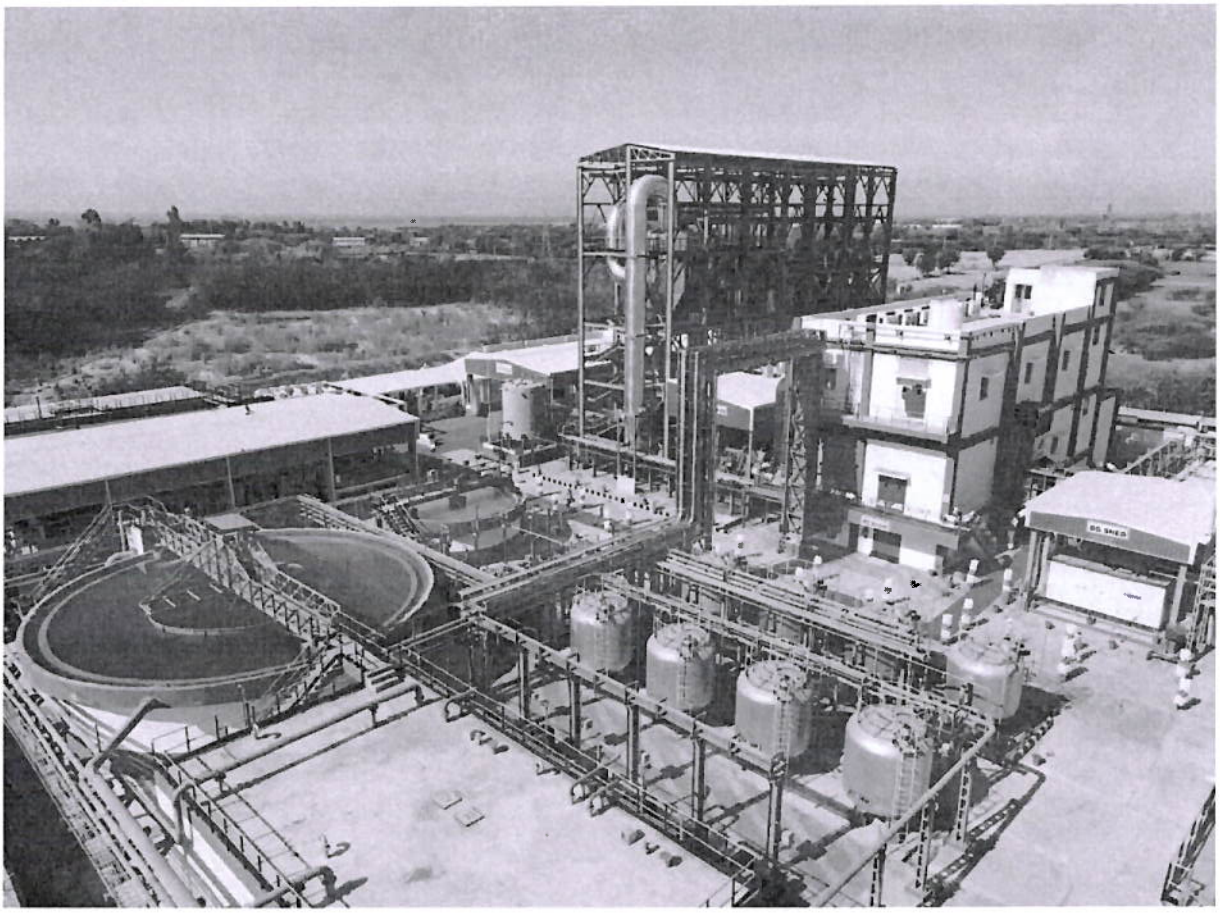
6. **Environmental awareness**:

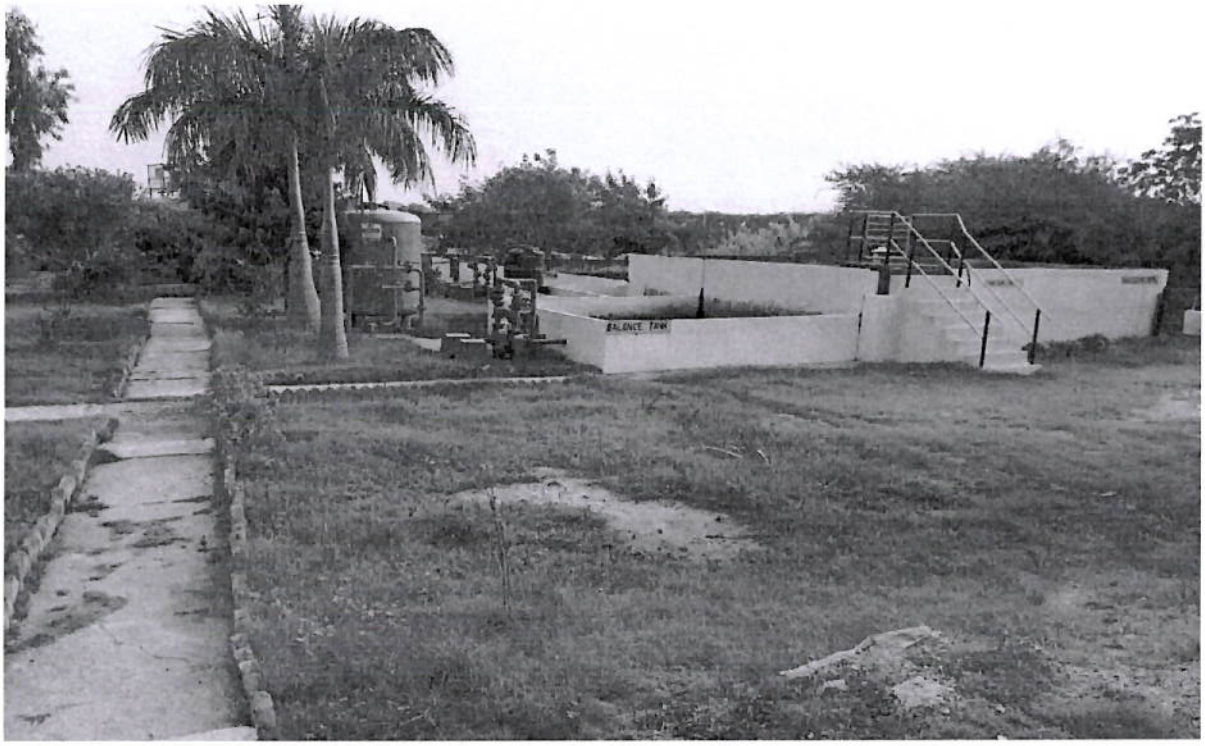
- The IBM Ajmer Region organized Mines Environment and Mineral Conservation Week, hosted by Rampura Agucha Mine. During the celebration, various activities were conducted to enhance environmental awareness among employees, including poster, slogan, and speech competitions.
- World Environment Day was celebrated on 5th June 2026.
- External audits were conducted for ISO 14001, ISO 9001, ISO 45001, and ISO 50001 standards.
- Legal training was conducted on environmental rules, regulations, and sustainability.
- Environmental awareness is included as part of workplace training at the Vocational Training Centre, as per VT rules.
- An online quiz was conducted for employees on the occasion of World Environment Day.
- Awareness skits were conducted on waste and water management.
- Week-long celebrations were organized for Energy Conservation Day and World Water Conservation Day.
- World Earth Day was celebrated at Government School, Agucha, where awareness was provided to students.

7. **Water Conservation Measures:**

- A 4,000 KLD capacity wastewater treatment plant was installed at Rampura Agucha Mine, resulting in water savings of 1.3 million $m^3$ per annum.
- Reclaim water from the tailing dam was blended with fresh water in the mill to reduce Banas River water consumption. Total reclaim water addition during FY 2025-26 was 30.087 million m3.
- Reclaim water is used in place of fresh water in all de-dusting systems and flocculant preparation tanks.

- Artificial groundwater recharge structures with a total capacity of 8.72 MCM were created across four blocks of Bhilwara district.
- The 425 KL/day sewage treatment plant at the residential colony and the 300 KL/day sewage treatment plant at the mine area are operated efficiently.
- Rainwater is collected in the sump and pumped back for reuse.





## 8. Awards:

- Rampura Agucha Mine has been awarded ICMM membership.
- Rampura Agucha Mine, Hindustan Zinc Limited, has achieved Zinc Mark certification.
- Rampura Agucha Mine has been awarded the prestigious 5-Star Rating for FY 2023-24 by the Indian Bureau of Mines, Ministry of Mines, Government of India, for the second consecutive year.
- During the 36th MEMC Week, Rampura Agucha Mine secured the overall 1st prize, along with several other awards, including 1st prize for Systematic and Scientific Development, 1st prize for Publicity and Propaganda, 2nd prize in Afforestation, and 2nd prize in Mineral Beneficiation.
- Rampura Agucha Mine was awarded by the Department of Energy, Government of Rajasthan, in 2023 and 2024 for Significant Specific Energy Consumption Improvement in the mining industry and investment in energy efficiency measures.
- Rampura Agucha Mine secured the overall 1st position in the Underground Mine category during the 36th Mines Environment and Mineral Conservation Week 2025.
- Rampura Agucha Mine secured the overall 1st position in the Underground Metal Mine category under the aegis of DGMS during the 39th Mine Safety Week 2025.
- Rampura Agucha Mine received the prestigious 29th Bhamashah Award 2025 in Jaipur. RAM CSR was ranked third among 135 awardees and first among all HZL locations.
- Rampura Agucha Mine was awarded the Quality Excellence Award in recognition of its consistent high performance and adherence to quality standards.

CEO - IBU Agucha
Hindustan Zinc Limited
Rampura Agucha Mines
PO - Agucha
Distt. - Bhilwara (Raj.)