

# INDIAN BUREAU OF MINES

## --:-- Inspection Report --:--

### Part-I : General Information

#### 1.1.1 Mine Details

Name of the Mine :	34RAJ27001	Lease Area (Ha) :	1142.21
Forest Area (Ha) :	N/A	Mine Code :	34RAJ27001
Registration Number :	IBM/421/2011	Name of lessee :	HINDUSTAN ZINC LIMITED
Address of lessee :	YASHAD BHAWAN ,Opp Swaroop Sagar, UDAIPUR	Phone of lessee :	0294-6604000
Email of lessee :	Bharat.dave@vedanta.co.in	Fax Number :	N/A
Village :	Dariba	Taluka / Mandal :	Railmagra
District :	RAJSAMAND	Pincode :	313004
State :	Rajasthan	Post Office :	N/A
Nearest Police Station :	Railmagra	Nearest Railway Station :	Fatehnagar
Date of Grant of Mining Lease :	1970-05-30	Date of Mining Lease Execution :	1970-04-07
Date of opening in the mine :	1974-12-28		

<b>Nominated Owner Details</b>			
Name of the Nominated Owner :	N/A	Nominated Owner Address:	N/A
Nominated Owner Mobile :	N/A	Nominated Owner Email :	N/A
Nominated Owner Fax Number :	Nil	Date of Nominated Owner Appointment :	Nil
<b>Mining Engineer Details</b>			
Name of the Mining Engineer :	Rakesh Bonagiri	Qualification of Mining Engineer :	BE (Mining) & 1st Class Mine's Manager Certificate Of Competency (UR)
Address of Mining Engineer :	Rajpura Dariba Lead Zinc Mine Dariba: 313211 Rajasthan	Phone of Mining Engineer :	9929007873
Email of Mining Engineer :	Rakesh.bonagri@vedanta.co.in	Fax Number of Mining Engineer :	N/A
Date of Mining Engineer Appointment :	2024-07-24		
<b>Geologist Details</b>			
Name of the Geologist :	Sandeep Kumar Rajput	Qualification of Geologist :	M.Sc. (Geology) PhD (Geology)
Address of Geologist :	Rajpura Dariba Lead Zinc Mine Dariba: 313211 Rajasthan	Phone of Geologist :	9660356812
Email of Geologist :	Sandeep.rajput@vedanta.co.in	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	2020-06-15		
<b>Mine Manager Details</b>			
Name of the Mine Manager :	Sanjay Kumar	Qualification of Mine Manager :	BE (Mining) & 1st Class Mine's Manager Certificate Of Competency (UR)
Address of Mine Manger :	Rajpura Dariba Lead Zinc Mine Dariba:	Phone of Mine Manger :	8003898834

	313211 Rajasthan		
Email of Mine Manger :	Sanjay.kumar5@vedanta.co.in	Fax Number of Mine Manger :	N/A
Date of Mine Manger Appointment :	2023-07-12		
Mineral(s) granted in lease and proved for mining :	LEAD & ZINC ORE	Date of Approval of Mining Plan / Modified Mining Plan / ROMP with five-year period :	2025-02-21 (2025 - 2029)
Method of mining :	Underground	Category :	MECHANISED
Nature of Use :	Captive		

## Part-II : Other Information

### 2.1.1 : Inspection Details

Inspecting Officer :	RITAM PRADHAN
Designation :	Inspection Officer
Name of the Accompanying Official from Mine :	Dr. Sandeep Kumar Rajput
Designation of the Accompanying Official :	Geologist
Type of Inspection :	MCDR,STOP
Date of Inspection :	22/03/2025
Review year considered for MCDR Inspection :	2023-2024

**2.2.1 : Exploration Details**

S.N.	Items for Reporting		As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Number of Core Boreholes		180	125	55.000	No Violation	During the reporting year 2023-24, shortfall in nos. of bore holes , hence violation of Rule 11(1) of MCDR 2017 issued vide letter dated 19.07.2024 during the previous inspection.	Nil
2	Number of DTH Boreholes		0	0	0.000	No Violation	Nil	Nil
3	Number of exploratory pits / trial pits		0	0	0.000	No Violation	Nil	Nil
4	Number of exploratory Trenches		0	0	0.000	No Violation	Nil	Nil
5	Lateral exploration status for the lease area	G1	74.01	102.39	-28.380	No Violation	the approved Modified Mining Plan dated 21/02/2025 and 19/12/2023	Nil
6		G2	63.57	53.54	10.030	No Violation	the approved Modified Mining Plan dated	Nil

							21/02/2025 and 19/12/2023	
7		G3	78.05	65.17	12.880	No Violation	the approved Modified Mining Plan dated 21/02/2025 and 19/12/2023	Nil
8		G4	0.00	0	0.000	No Violation	the approved Modified Mining Plan dated 21/02/2025 and 19/12/2023	Nil
9	UNFC category wise reported Resources/Reserves as per MP/MMP ROMP  Total Reserves (111, 121 & 122) and Total Mineral Resources (331, 332 & 333 upto 334)	LEAD & ZINC ORE - Total Reserve = 34292448.00 , Total Resource = 39284026.00	As per approved document dated 21/02/2025, the position of reserve and resource as on 01/04/2024 was 37.84 and 49.81 Million tons respectively.	.	No Violation	Nil	Nil	

### 2.3.2 : Development - Underground Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Mode of Entry Shaft/	1.Ramp 2.Main	1.Ramp 2.Main	NIL	No Violation	Nil	Nil

	Adit/Incline/Decline	Shaft 3.Auxiliary Shaft	Shaft 3.Auxiliary Shaft				
2	Method of Working	VRM/VCR/Long hole Blasting	VRM/VCR/Long hole Blasting	NIL	No Violation	Nil	Nil
3	(i)Shaft	0	0	0.000	No Violation	Nil	Nil
4	(ii)Incline/Decline/Ramp	934m	601m	333m	No Violation	Due to ground challenges.	Nil
5	(iii)Raises/Winzes	1200m	1173m	27m	No Violation	Due to ground challenges.	Nil
6	(iv)Adit	0	0	0.000	No Violation	Nil	Nil
7	(v)Haulage	0	0	0.000	No Violation	Nil	Nil
8	(vi)Cross-Cut	5879m	5574m	305m	No Violation	Due to ground challenges.	Nil
9	(vii)Ore-Drive/Levels	2083m	2884m	-801m	No Violation	Due to ground challenges.	Nil
10	Number of stopes under development during the year	150	125	25.000	No Violation	Due to less development	Nil
11	Number of Levels	30	25	5.000	No Violation	Due to less development	Nil
12	Level Interval (in Meter)	25	25	0.000	No Violation	Nil	Nil
13	Quantum of Ore Generated while Development during the year (inT)	99,699.84	138463	-38,763.16	No Violation	Nil	Nil

14	Ore Recovery in the development	100%	100%	0	No Violation	.	Nil
15	Quantity of waste generation in m3	Proposed U/G waste generation quantity was 129374 m3 or 349311 MT.	The quantity of U/G waste generated due to U/G mine development during the year was 116220 m3 or 313793 MT	13154m3	No Violation	.	Nil

#### 2.4.2 Exploitation - Underground Mine Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Number of levels for production	30	25	5.000	No Violation	Nil	Nil
2	Number of stopes for production	169	125	44.000	No Violation	Nil	Nil
3	Quantity of ROM mineral production from stopes	1650050	1205366	444684.000	No Violation	Nil	Nil
4	Recovery of salable/usable mineral quantity from ROM production in T)	100%	100%	NIL	No Violation	Nil	Nil
5	Total Production (Development + stopes)	1750050	1343829	406221.000	No Violation	Nil	Nil

6	Overall recovery in %	100	100	0.000	No Violation	Nil	Nil
7	Quantity of mineral reject generation	0	0	0.000	No Violation	Nil	Nil
8	Grade of salable/usable mineral quantity	2.03%-10.17%	Not applicable	Recheck	No Violation	Nil	Nil
9	Manual / Mechanized method adopted for segregating mineral reject from ROM	No proposal	Not applicable	NIL	No Violation	Nil	Nil
10	Any analysis or beneficiation study proposed & carried out for mineral reject	No proposal	Not applicable	NIL	No Violation	Nil	Nil
11	Provision of drilling & blasting	Development blasts using burn cut pattern Blast Hole Stopping in stopes	Development blasts using burn cut pattern Blast Hole Stopping in stopes	NIL	No Violation	Nil	Nil
12	Provision of mining machineries underground	As per approved Review of Mining Plan	As per proposal	NIL	No Violation	Nil	Nil

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### 2.4.3 : Exploitation - Dump Working Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Number of dumps proposed for production	No proposal	0	NIL	No Violation	Nil	Nil
2	Quantity of dump material handling Proposed (in Tonne)	No proposal	0	NIL	No Violation	Nil	Nil
3	Recovery of salable/usable mineral from dump production (in Tonne)	No proposal	0	NIL	No Violation	Nil	Nil
4	Production from dump(s) during the year	0.00	0	0.000	No Violation	Nil	Nil
5	Quantity of mineral reject generation	No proposal	0	NIL	No Violation	Nil	Nil
6	Grade of mineral reject generation and threshold value declared	No proposal	Not applicable	NIL	No Violation	Nil	Nil
7	Any analysis or beneficiation study proposed & carried out for mineral reject	No proposal	Not carried out	NIL	No Violation	Nil	Nil
8	Manual / Mechanized method adopted for dump working	No proposal	Not applicable	NIL	No Violation	Nil	Nil

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### 2.5.1 : OB/Waste Dumps Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Separate dumping of topsoil, OB & mineral rejects, fines, tailings (Rule 36,37)	Separate dumping of waste rock	Waste dumped in waste dump	NIL	No Violation	Nil	Nil
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	Dumping of the waste has been proposed over the existing waste dump as well as backfilling in UG voids.	As per proposal.	NIL	No Violation	Nil	Nil
3	Number of active & Inative dumps	Dump ID : WD-1, Dump Type : Waste, Dump Status : Active	Dump ID : WD-1, Dump Type : Waste, Dump Status : Active	NIL	No Violation	Nil	Nil
4	Number of dead dumps	0	0	0.000	No Violation	Nil	Nil
5	Number of dumps proposed for stabilished	0	0	0.000	No Violation	Nil	Nil
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	Not proposed	Not applicable	0.000	No Violation	Nil	Nil

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**2.6.2 : Solid Waste Management - Backfilling (Underground) Details**

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	For Underground, Percentage of Waste backfilled underground itself	45%	42%	3%	No Violation	Nil	Nil
2	For Underground, number of exploited stopes under filling/stowing	169	125	44.000	No Violation	Nil	Nil
3	For Underground, number of exploited stopes abandoned after filling	0	0	0.000	No Violation	Nil	Nil
4	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	NIL	No Violation	Nil	Nil

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**2.7.1 : Progressive Mine Closure Plan (PMCP) Details**

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Compliance on reclamation and rehabilitation by backfilling/Other means  Total area and numbers of plantation proposed.	Backfilling: 428191 m3 Area : 2.05, No. of Plant : 1800	Backfilling: 334381 m3 Area : 2.08, No. of Plant : 5800	.	No Violation	Nil	Nil
2	Rehabilitation by making water reservoir	Not proposed	Not applicable	NIL	No Violation	Nil	Nil
3	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No. of Plants: 1800 Area: 2.05 ha Method: Plantation	No. of Plants: 5800 Area: 2.08 ha Method: Plantation	.	No Violation	Nil	Nil
4	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal of environment monitoring has been envisaged	Environment monitoring carried out regularly.	NIL	No Violation	Nil	Nil

**2.8.1 : Mineral Conservation Details**

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
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1	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal of grade wise sorting of ROM.	Entire ROM was transported/dispached to beneficiation plant.	NIL	No Violation	Nil	Nil
2	Different grade of mineral sorted out at mines	Not proposed	Not applicable	NIL	No Violation	Nil	Nil
3	Any beneficiation process at mines	1.1 MTPA beneficiation plant installed within lease area. The process includes mainly crushing and grinding of ROM , classification , differential flotation cells, concentrate thickeners, filters, tailing dewatering, & backfilling system	Beneficiation of ROM was carried out at Dariba and SK beneficiation plant.	NIL	No Violation	Nil	Nil
4	For Underground, compliance of Rule 16 (Sub-grade mineral is below cut-off value for the lease) - Sub-grade generation - Sub-grade brought to the surface	No such proposal	Not applicable	NIL	No Violation	Nil	Nil
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	No such proposal	Not applicable	NIL	No Violation	Nil	Nil

### 2.9.1 : Environment Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Separate removal and utilization of topsoil	No proposal of top soil generation during the RY 2023-24.	No top soil generated during the RY 2023-24.	NIL	No Violation	Nil	Nil
2	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal for OB & reject & fine. Proposal given for Waste rock and tailing to use in backfilling of UG mined out voids/stopes.	Waste rock and tailing used for backfilling UG mined out voids/stopes.	NIL	No Violation	Nil	Nil
3	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal during the reporting year.	Not applicable	NIL	No Violation	Nil	Nil
4	Plantation & Survival rate	Plantation : 1800, Survival Rate : 90	Plantation : 5800, Survival Rate : 85	NA	No Violation	Nil	Nil
5	Water sprinkling on roads to control airborne dust	Proposal given for water sprinkling on roads to control air born dust.	Water sprinkling on roads to control air borne dust due to mining activity has been observed.	NIL	No Violation	Nil	Nil

**2.10 : Annual Return Details**

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Submission of Online Monthly and Annual returns in prescribed period or not	As per rule 45 of MCDR, 2017 monthly and annual returns to be submitted to IBM.	Monthly and annual return for the RY 2023 24 has been submitted.	NIL	No Violation	Nil	Nil
2	Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017	Appointment as per rule	Appointed	NIL	No Violation	Nil	Nil
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	No	No	NIL	No Violation	Nil	Nil
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	Not Applicable	Not Applicable	Not Applicable	No Violation	Nil	Nil
5	Notices and Returns for the lease area submitted or not where fine applicable	Submission within time limit	Submitted within time limit	NIL	No Violation	Nil	Nil
6	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-Mine price and cost of production is given as Rs7532.60 per tonne.	The information given appears to be in order.	NIL	No Violation	Nil	Nil

**2.11 : SDF Details**

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Start Ratings accorded for mine during last 3 years	Above 3 star	Above 3 star	NIL	No Violation	Nil	Nil

**Part-III : Other Reports****3.1.1 : Upload Other Reports**

S.N.	Reports File	Remark   File Description
1	<a href="#">Dariba_compressed.pdf</a>	stoping report

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**Part-IV : Summary Details**

**4.1 : Summary of Violations**

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
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Esigned by:  RITAM PRADHAN  
Date: 08/05/2025 06:41:49 PM