

INDIAN BUREAU OF MINES

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

Part-I : General Information

1.1.1 Mine Details

Name of the Mine :	SINDESAR KHURD	Lease Area (Ha) :	199.8425
Forest Area (Ha) :	N/A	Mine Code :	34RAJ27002
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 :	Sindesar Khurd	Taluka / Mandal :	Railmagra
District :	RAJSAMAND	Pincode :	313004
State :	Rajasthan	Post Office :	N/A
Nearest Police Station :	N/A	Nearest Railway Station :	N/A
Date of Grant of Mining Lease :	1999-03-20	Date of Mining Lease Execution :	1998-12-14
Date of opening in the mine :	Nilsss		

Nominated Owner Details			
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
Mining Engineer Details			
Name of the Mining Engineer :	Dushyant Tailor	Qualification of Mining Engineer :	BE(Mining) & FCC(U/R)
Address of Mining Engineer :	Sindesar Khurd Mine, Distt.Rajsamand Rajasthan-313211	Phone of Mining Engineer :	8003296135
Email of Mining Engineer :	Dushyant.tailor@vedanta.co.in	Fax Number of Mining Engineer :	N/A
Date of Mining Engineer Appointment :	2018-07-12		
Geologist Details			
Name of the Geologist :	Ranjan Gupta	Qualification of Geologist :	MSC Geology
Address of Geologist :	Sindesar Khurd Mine, Distt.Rajsamand Rajasthan-313211	Phone of Geologist :	9799175999
Email of Geologist :	Ranjan.gupta@vedanta.co.in	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	2024-08-02		
Mine Manager Details			
Name of the Mine Manager :	Ashok Kumar G	Qualification of Mine Manager :	BE Mining FCC UR
Address of Mine Manger :	Sindesar Khurd Mine, Distt.Rajsamand Rajasthan-313211	Phone of Mine Manger :	N/A

Email of Mine Manger :	N/A	Fax Number of Mine Manger :	N/A
Date of Mine Manger Appointment :	2024-09-12		
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 :	2024-07-18 (2024 - 2027)
Method of mining :	Underground	Category :	MECHANISED
Nature of Use :	Captive		

Part-II : Other Information

2.1.1 : Inspection Details

Inspecting Officer :	Kamal Singh
Designation :	Inspection Officer
Name of the Accompanying Official from Mine :	Ranjan Gupta
Designation of the Accompanying Official :	Geologist
Type of Inspection :	MCDR,STOP
Date of Inspection :	10/03/2025
Review year considered for MCDR Inspection :	2023-2024

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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	2023-24 UG Exploration: 85000m & No of BH-500 Surface Exploration: 5000m & No of BH-6	2023-24 UG Exploration : 69662m & No of BH-462 Surface Exploration: 10933m & No of BH- 10	Nil	No Violation	UG exploration is less than proposal for which violation of rule 11(1) of MCDR,2017 has been pointed out by the previous inspecting officer vide letter dated 29.07.2024.	Nil	
2	Number of DTH Boreholes	0	Not Applicable	Nil	No Violation	Nil	Nil	
3	Number of exploratory pits / trial pits	0	Not Applicable	Nil	No Violation	Nil	Nil	
4	Number of exploratory Trenches	0	Not Applicable	Nil	No Violation	Nil	Nil	
5	Lateral exploration status for the lease area	G1	87.7 Ha	87.7 Ha	Nil	No Violation	Nil	Nil
6		G2	14.64 Ha	14.64 Ha	Nil	No Violation	Nil	Nil
7		G3	0	Not applicable	0.000	No Violation	Nil	Nil
8		G4	0.00	Not applicable	Nil	No Violation	Nil	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 = 45430596.00 , Total Resource = 59282067.00	As on 01.04.24 total reserve (In Million tons) Reserve-40.04 Resource-68.92 Total R&R- 108.96	Nil	No Violation	Nil	Nil
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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/ Adit/Incline/Decline	Mode of Entry : Decline, Length/Depth(m) : 11528, Mode of Entry : Incline, Length/Depth(m) : 530, Mode of Entry : Shaft, Length/Depth(m) : 1051.5	Shaft- 1051.5m Decline- 12174m Incline-530m	Nil	No Violation	Nil	Nil
2	Method of Working	VRM/VCR/Long hole Blasting	VRM/VCR/Long hole Blasting	Nil	No Violation	Nil	Nil
3	(i)Shaft	Shaft- 1051.5m	Shaft- 1051.5m	Nil	No Violation	Nil	Nil
4	(ii)Incline/Decline/Ramp	Decline- 12174m Incline-530m	Decline- 12174m Incline-530m	Nil	No Violation	Nil	Nil

5	(iii)Raises/Winzes	Nil	Nil	Nil	No Violation	Nil	Nil
6	(iv)Adit	Nil	Nil	Nil	No Violation	Nil	Nil
7	(v)Haulage	Nil	Nil	Nil	No Violation	Nil	Nil
8	(vi)Cross-Cut	Nil	Nil	Nil	No Violation	Nil	Nil
9	(vii)Ore-Drive/Levels	Nil	Nil	Nil	No Violation	Nil	Nil
10	Number of stopes under development during the year	169	133	36.000	No Violation	Nil	Nil
11	Number of Levels	07	07	0.000	No Violation	Nil	Nil
12	Level Interval (in Meter)	Variable 20-30m	Variable 25-30m	Nil	No Violation	Nil	Nil
13	Quantum of Ore Generated while Development during the year (inT)	Nil	Nil	Nil	No Violation	Nil	Nil
14	Ore Recovery in the development	As per proposal	100%	Nil	No Violation	Nil	Nil
15	Quantity of waste generation in m3	A total of 625607 cum or 1751702 MT of UG waste has been proposed to be generate through UG development.	A total of 520236 cum or 1456661 MT of waste generated through UG development out of which 272067 cum or 761787 MT was dumped at	Nil	No Violation	Nil	Nil

			surface, rest waste muck was internally dumped into the mined out void stopes				
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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	7	7	0.000	No Violation	Nil	Nil
2	Number of stopes for production	Number of Stopes : 169	133	Nil	No Violation	Nil	Nil
3	Quantity of ROM mineral production from stopes	5095515	5650483tons	Nil	No Violation	Nil	Nil
4	Recovery of salable/usable mineral quantity from ROM production in T)	6000000	2023-24: 5650483 T	Nil	No Violation	Nil	Nil
5	Total Production (Development + stopes)	6000000	5650483tons	Nil	No Violation	Nil	Nil
6	Overall recovery in %	90	90	0.000	No Violation	Nil	Nil
7	Quantity of mineral reject generation	No proposal for mineral reject generation.	No Mineral Reject generation. Whole ROM	Nil	No Violation	Nil	Nil

		However, 5485265 T reject in the form of mill tailing was proposed.	beneficiated. After beneficiation 5561570 T reject in the form of mill tailing generated during the year.				
8	Grade of salable/usable mineral quantity	4.8	Pb-1.9%, Zn-2.83%	Nil	No Violation	Nil	Nil
9	Manual / Mechanized method adopted for segregating mineral reject from ROM	Froth Flotation method proposed.	Froth Flotation method adopted for segregation during mineral beneficiation	Nil	No Violation	Nil	Nil
10	Any analysis or beneficiation study proposed & carried out for mineral reject	No proposal of any fresh beneficiation study.	Beneficiation facility of 6.5MTPA is already in place.	Nil	No Violation	Nil	Nil
11	Provision of drilling & blasting	Drilling Blasting Proposed	Blast hole stoping method with post filling adopted in mine.	Nil	No Violation	Drilling and blasting have been carried out as per proposal for UG mine development and stope production.	Nil
12	Provision of mining machineries underground	1.Dumper-31 nos 2.Laud haul dumper-24nos 3. Rock Drill (ELEC.)-28nos 4 Air Compressor (20.000 CUM/MN)-14Nos 5. Blast Hole	1.Dumper- 31 nos 2.Laud haul dumper-24nos 3. Rock Drill (ELEC.)-28nos 4 Air Compressor (20.000 CUM/MN)-14Nos 5. Blast Hole	Nil	No Violation	Nil	Nil

		Drill (ELEC.)-105mm- 11 Nos 6. Others (Non - Elec)-18 Nos 7. Other HEM Machinery-43 Nos	Drill (ELEC.)-10 5mm-11 Nos 6. Others (Non - Elec)-18 Nos 7. Other HEM Machinery-43 Nos				
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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	Not proposed	Not applicable	Nil	No Violation	Nil	Nil
2	Quantity of dump material handling Proposed (in Tonne)	Not proposed	Not applicable	Nil	No Violation	Nil	Nil
3	Recovery of salable/usable mineral from dump production (in Tonne)	Not proposed	Not applicable	Nil	No Violation	Nil	Nil
4	Production from dump(s) during the year	0.00	Not applicable	Nil	No Violation	Nil	Nil
5	Quantity of mineral reject generation	Not proposed	Not applicable	Nil	No Violation	Nil	Nil
6	Grade of mineral reject generation and threshold value declared	Not proposed	Not applicable	Nil	No Violation	Nil	Nil
7	Any analysis or beneficiation study proposed & carried out for mineral reject	Not proposed	Not applicable	Nil	No Violation	Nil	Nil
8	Manual / Mechanized method adopted for dump working	Not proposed	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)	No proposal of topsoil. Proposed UG waste generation is 625607 cum or 1751702 MT, out of which 27846 cum Waste is proposed to dispose in UG stopes voids and 597761 cum on surface dumping. 2587389cum or 5485265 MT reject (Mill tailing) generation has been proposed. Out of which 883904 cum utilization for paste filling & 1703485 cum disposal in Tailing Pond.	Being UG mine no Topsoil generation. 520236 cum or 1456661 MT waste generated. Out of which 272067 cum or 761787 MT dumped on surface Dump and rest of the waste dumped in UG voids. 2623282cum/ 5561570 MT reject in the form of tailing reject generated . Out of this 1573969 cum/3336815MT utilized and rest quantity dumped in Tailing Dam.	Nil	No Violation	Nil	Nil
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	No Top soil dump. Location of Waste dump is 2765716N to 2766204N, 413915E to 413846E	No Top Soil generation. UG waste dumped on location 2765716N to 2766204N, 413915E to 413846E	Nil	No Violation	Nil	Nil

3	Number of active & Inative dumps	Dump ID : WD-1, Dump Type : Waste, Dump Status : Active	One active dump exist within lease area.	Nil	No Violation	Nil	Nil
4	Number of dead dumps	No proposal	None	Nil	No Violation	Nil	Nil
5	Number of dumps proposed for stabilished	No proposal	None	Nil	No Violation	Nil	Nil
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	No proposal for the year 2023-24.	None	Nil	No Violation	Nil	Nil

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	40	48	-8.000	No Violation	Nil	Nil
2	For Underground, number of exploited stopes under filling/stowing	Nil	Nil	Nil	No Violation	Nil	Nil
3	For Underground, number of exploited stopes abandoned after filling	169	133	36.000	No Violation	Nil	Nil
4	Total area fully reclaimed & rehabilitated	No proposal	Not applicable	NIL	No Violation	Nil	Nil

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.	(i) Voids available for backfilling (L x B x D) : 1850000 cum (ii) Voids filled by waste / tailings : 1203081 cum (iii) An area of 0.50 hectare with 1250 number of saplings.	(i)Actual 1765775 cum voids available during the year. (ii) Voids filled by waste / tailings : 1203081 cum (ii)1525303 cum (iii) During the year 2023-24 a total 3000 nos. of saplings were planted. The cumulative plantation upto 2023-24 is 112350.	Nil	No Violation	(i) Void less available due less production (ii) Backlog of previous year was available for backfill	Nil
2	Rehabilitation by making water reservoir	No proposal	Being UG mine 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	(i) During the year 2023-24 total sapling was proposed over an area 0.5 hect. (ii) No proposal. (iii) No proposal	(i) During the year 2023-24 total sapling carried out over an area 0.5 hect. (ii) Not applicable (iii) Not applicable	Nil	No Violation	Nil	Nil

4	Compliance of Environmental monitoring (core zone & buffer zone)	Proposal of environment monitoring in core & buffer zone has been given	Environment monitoring in core & buffer zone is being carried out and parameters are found to be within permissible limit.	Nil	No Violation	Nil	Nil
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2.8.1 : Mineral Conservation Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	None	Nil	No Violation	Nil	Nil
2	Different grade of mineral sorted out at mines	No proposal	None	Nil	No Violation	Nil	Nil
3	Any beneficiation process at mines	Three beneficiation plants are in operation with capacity of 3.0mtpa, 2.0mtpa & 1.50mtpa.	Three beneficiation plants are in operation with capacity of 3.0mtpa, 2.0mtpa & 1.50mtpa	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 proposal	None	Nil	No Violation	Nil	Nil
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	No proposal	None	Nil	No Violation	Nil	Nil

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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	Not Proposed	Being UG mine no Topsoil generation	Nil	No Violation	Nil	Nil
2	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed	Not applicable	Nil	No Violation	Nil	Nil
3	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Not applicable	Nil	No Violation	Nil	Nil
4	Plantation & Survival rate	Plantation : 1250, Survial Rate : 90	Plantation : 3000 Survial Rate : 85	Nil	No Violation	Nil	Nil
5	Water sprinkling on roads to control airborne dust	Water sprinkling has been proposed	Water sprinkling is done on haul road in underground and truck mounted road sweepers are used on metalled roads	Nil	No Violation	Nil	Nil

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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	Last Annual Returns : No, Last Monthly Returns : Yes - March 2025 - Submitted on : 2025-04-09	Monthly and Annual return of the year 2023- 24 has been submitted by the lessee timely.	Nil	No Violation	Nil	Nil
2	Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017	As per rule 55 of MCDR 2017	As per rule the Mining Engineer, Geologist and Mine Manager have been appointed at the mine & details furnished.	Nil	No Violation	Nil	Nil
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	As per rule 45(7) of MCDR 2017	No	Nil	No Violation	Nil	Nil
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	As per rule 24, 25 of MCDR,2017	Not applicable	Nil	No Violation	Nil	Nil
5	Notices and Returns for the lease area submitted or not where fine applicable	As per rule	Submitted	Nil	No Violation	Nil	Nil
6	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	5802.13 Rs/per Tonne Ex mine price & Production cost given	Exmine price & production cost given. Being captive use sale value is not given.	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	Stoping report SK mine HZL.pdf	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:  Kamal Kumar Singh
Date: 08/05/2025 06:22:17 PM