

# INDIAN BUREAU OF MINES

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

### Part-I : General Information

#### 1.1.1 Mine Details

Name of the Mine :	34RAJ26001	Lease Area (Ha) :	3620
Forest Area (Ha) :	1537	Mine Code :	34RAJ26001
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 :	Jawar	Taluka / Mandal :	Girwa
District :	Udaipur	Pincode :	313004
State :	Rajasthan	Post Office :	N/A
Nearest Police Station :	Zawar	Nearest Railway Station :	Zawar
Date of Grant of Mining Lease :	2050-08-30	Date of Mining Lease Execution :	2050-04-01
Date of opening in the mine :	1965-10-22		

<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 :	Prashant Gupta	Qualification of Mining Engineer :	BE Mining
Address of Mining Engineer :	Post: Zawar, Dist: Udaipur	Phone of Mining Engineer :	7023100977
Email of Mining Engineer :	Prashant.gupta@vedanta.co.in	Fax Number of Mining Engineer :	NA
Date of Mining Engineer Appointment :	2012-08-11		
<b>Geologist Details</b>			
Name of the Geologist :	Somdeb Dutta Mal	Qualification of Geologist :	M.Sc. Geology
Address of Geologist :	Post: Zawar, Dist: Udaipur	Phone of Geologist :	9166160954
Email of Geologist :	Somdeb.mal@vedanta.co.in	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	2024-08-30		
<b>Mine Manager Details</b>			
Name of the Mine Manager :	Satish Thakare	Qualification of Mine Manager :	BE Mining
Address of Mine Manger :	Post: Zawar, Dist: Udaipur	Phone of Mine Manger :	8290466074
Email of Mine Manger :	Satish.thakare@vedanta.co.in	Fax Number of Mine Manger :	N/A
Date of Mine Manger Appointment :	2022-04-12		

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 :	N/A
Method of mining :	Underground	Category :	MECHANISED
Nature of Use :	Captive		

## Part-II : Other Information

### 2.1.1 : Inspection Details

Inspecting Officer :	DILIP JAIN
Designation :	SMG
Name of the Accompanying Official from Mine :	1. Satish Thakare 2. Somdeb Dutta Mal 3. Prashant Gupta
Designation of the Accompanying Official :	1. Mine Manager 2. Geologist 3. Mining Engineer
Type of Inspection :	MCDR,STOP
Date of Inspection :	10/07/2025
Review year considered for MCDR Inspection :	2024-2025

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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		460 BHs with 64000 mts of drilling.	682 BHs with 95432 mts of drilling.	Nil	No Violation	Nil	Nil
2	Number of DTH Boreholes		No proposal.	No DTH BHs during reporting year (RY) 2024-25.	Nil	No Violation	Nil	Nil
3	Number of exploratory pits / trial pits		No proposal.	No exploratory pits / trial pits during (RY) 2024-25.	Nil	No Violation	Nil	Nil
4	Number of exploratory Trenches		No proposal.	No exploratory Trenches during (RY) 2024-25.	Nil	No Violation	Nil	Nil
5	Lateral exploration status for the lease area	G1	No proposal of lateral exploration.	Exploration has been carried out depthward due to the vertical or sub-vertical dipping of the ore body/m ineralization.	Nil	No Violation	Exploration has been carried out depthward due to the vertical or sub-vertical dipping of the ore body/m ineralization.	Nil
6		G2	No proposal of lateral exploration.	Exploration has been carried out depthward due to the vertical or sub-vertical dipping of the ore	Nil	No Violation	Exploration has been carried out depthward due to the vertical or sub-vertical dipping of the ore body/m	Nil

				body/mineralization			ineralization.	
7		G3	No proposal of lateral exploration.	Exploration has been carried out depthward due to the vertical or sub-vertical dipping of the ore body/mineralization	Nil	No Violation	Exploration has been carried out depthward due to the vertical or sub-vertical dipping of the ore body/mineralization.	Nil
8		G4	Nil	Nil	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)		As per approved document dated 04/03/2025, the position of reserve and remaining resource as on 01/04/2024 was 13.328 and 31.848 million tons respectively.	As per annual return 2024-25, the position of reserve and remaining resource as on 31/03/2025 was 17.409 and 33.07 million tons respectively.	The position of reserve and remaining resource as on 01/04/2024 furnished in annual return 2024-25 is not matching with the reserve and remaining resource figures furnished in approved Review of Mining Plan dated 04/03/2025	No Violation	Violation rule 45(7) of MCDR, 2017 is being issued.	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	Adit / Shaft/ Decline.	Adit / Shaft/ Decline.	Nil	No Violation	Nil	Nil
2	Method of Working	Underground- Mechanized.	Underground- Mechanized.	Nil	No Violation	Nil	Nil
3	(i)Shaft	No proposal of Shaft sinking.	Nil	Nil	No Violation	Nil	Nil
4	(ii)Incline/Decline/Ramp	1900 meters	1029 meters	871 meters.	Rule 11(1)	Decline development of 1029 meters have been carried out against the approved proposal of 1900 meters.	Nil
5	(iii)Raises/Winzes	1100 meters	348 meters	752 meters.	Rule 11(1)	Vertical development of 348 meters have been carried out against the approved proposal of 1100 meters.	Nil
6	(iv)Adit	No proposal.	Nil	Nil	No Violation	Nil	Nil
7	(v)Haulage	No specific proposal on haulage drive development meters. The	Haulage development meters considier under Drive/level development.	Nil	No Violation	Nil	Nil

		proposal has been consider under level (horizontal) development.					
8	(vi)Cross-Cut	No specific proposal on x-cuts. The proposal has been consider under level (horizontal) development.	X-cut development meters considier under Drive/level development.	Nil	No Violation	Nil	Nil
9	(vii)Ore-Drive/Levels	10600 meters	3886 meters	6714 meters	Rule 11(1)	Horizontal development of 3886 meters have been carried out against the approved proposal of 10600 meters.	Nil
10	Number of stopes under development during the year	20 Stope blocks at different levels.	10 Stope blocks at different levels.	Nil	No Violation	Due to limited or less development, production could not be carried out from all propsoed stope blocks.Violation of rule 11(1) of MCDR, 2017 is being issued for less development.	Nil
11	Number of Levels	18 levels.	09 levels.	09 levels.	No Violation	Due to limited or less development, production could not be carried out from all propsoed stope blocks. Violation of rule	Nil

						11(1) of MCDR, 2017 is being issued for less development.	
12	Level Interval (in Meter)	25 meter	25 meter	Nil	No Violation	Nil	Nil
13	Quantum of Ore Generated while Development during the year (inT)	280000 tons	297358 tons	17358 Tons	Rule 11(1)	The development ore production exceeded the proposed quantity, whereas the actual development was less compared to the proposed development during the reporting year.	Nil
14	Ore Recovery in the development	100%	100%	Nil	No Violation	Nil	Nil
15	Quantity of waste generation in m3	108148	108400	Nil	No Violation	Nil	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	18 levels.	09 levels.	09 levels.	No Violation	Due to limited or less development, production could not be carried out from all proposed stope blocks. Violation of rule 11(1) of MCDR, 2017 is being issued for less development.	Nil
2	Number of stopes for production	20 Stope Blocks.	10 Stope Blocks.	10 Stope Blocks.	No Violation	Due to limited or less development, production could not be carried out from all proposed stope blocks. Violation of rule 11(1) of MCDR, 2017 is being issued for less development.	Nil
3	Quantity of ROM mineral production from stopes	1120000	684663	435337.000	No Violation	Reduced development during the year resulted in lower production from stopes. Violation of rule 11(1) of MCDR, 2017 is being issued for less development.	Nil
4	Recovery of salable/usable mineral quantity from ROM production in T)	1300000	982021	317979.000	No Violation	The entire Run-of-Mine (ROM) material is considered usable for the purpose of beneficiation.	Nil

5	Total Production (Development + stopes)	1300000	982021	317979.000	No Violation	Reduced development during the year resulted in lower ROM production.	Nil
6	Overall recovery in %	100% usable.	100% as entire ROM is feedable to beneficiation plant.	Nil	No Violation	Nil	Nil
7	Quantity of mineral reject generation	1170000 tons (mill tailing)	887652 tons (mill tailing)	Nil	No Violation	Mill tailing of 887652 tons generated during RY has been reported as Mineral Reject.	Nil
8	Grade of salable/usable mineral quantity	>3% (Pb+Zn)	5.5 % (Pb+Zn)	Nil	No Violation	Nil	Nil
9	Manual / Mechanized method adopted for segregating mineral reject from ROM	Mechanized.	Mechanized.	Nil	No Violation	Nil	Nil
10	Any analysis or beneficiation study proposed & carried out for mineral reject	No proposal for reporting Year.	5.2MTPA beneficiation plant is present within the lease area. The process includes crushing and grinding of ROM, Classification, differential floatation cell etc.	Nil	No Violation	ROM from other mines, i.e., Mochia, Baroi, and Zawarmala, is also beneficiated in the same plant.	Nil
11	Provision of drilling & blasting	Drilling by EHS and blasting by ANFO/ bulk	As per proposal.	Nil	No Violation	Nil	Nil

		emulsion.					
12	Provision of mining machineries underground	Front end loader, truck, Blast hole drill rig, Crusher, Air compressor, rock drill, pump, ventilation fans, winding engine.	As per proposal.	Nil	No Violation	Nil	Nil

#### 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.	Not applicable.	Nil	No Violation	Nil	Nil
2	Quantity of dump material handling Proposed (in Tonne)	No proposal.	Not applicable.	Nil	No Violation	Nil	Nil
3	Recovery of salable/usable mineral from dump production (in Tonne)	No proposal.	Not applicable.	Nil	No Violation	Nil	Nil
4	Production from dump(s) during the year	No proposal.	Not applicable.	Nil	No Violation	Nil	Nil
5	Quantity of mineral reject generation	1170000 tons (mill tailing)	887652 tons (mill tailing)	Nil	No Violation	Mill tailings amounting to 887,652 tons generated during the reporting year have been	Nil

						reported as mineral reject.	
6	Grade of mineral reject generation and threshold value declared	The threshold value is not prescribed for Pb-Zn mineral.	The reported grade of mill tailing is 0.4 % (Pb+Zn).	Nil	No Violation	Nil	Nil
7	Any analysis or beneficiation study proposed & carried out for mineral reject	No proposal.	Not applicable.	Nil	No Violation	Nil	Nil
8	Manual / Mechanized method adopted for dump working	No proposal.	Not applicable.	Nil	No Violation	Nil	Nil

### 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 generation. Developmental waste was proposed to dispose in UG stopes as well as for tailing dam construction. Mineral reject (Mill tailing) has been proposed to	No topsoil was generated during the reporting year. Waste was disposed of in underground voids, and mill tailings were disposed of in the Tailing Storage Facility (TSF-1).	Nil	No Violation	Nil	Nil

		dispose in Tailing Storage Facility (TSF-1).					
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	Top Soil: No proposal. Waste: underground voids as well as for tailing dam construction. Tailing: Baroi tailing dam (TSF-1).	Top Soil: No top soil generation during RY. Waste: Underground voids. Tailing: Baroi tailing dam (TSF-1).	Nil	No Violation	Nil	Nil
3	Number of active & Inative dumps	No proposal of waste dumping.	Not applicable.	Nil	No Violation	Nil	Nil
4	Number of dead dumps	No proposal.	Not applicable.	Nil	No Violation	Nil	Nil
5	Number of dumps proposed for stabilished	No proposal.	Not applicable.	Nil	No Violation	Nil	Nil
6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	Not applicable as no active/dead waste dump in lease area.	Not applicable.	Nil	No Violation	A total of 2.69 hectares of old waste dump area has been rehabilitated in lease area.	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	about 97% of the waste was proposed to be disposed of in underground voids, and the remaining quantity was proposed to be used in tailing dam construction.	The entire quantity of generated waste has been disposed of in underground voids.	Nil	No Violation	Nil	Nil
2	For Underground, number of exploited stopes under filling/stowing	There was no specific proposal pertaining to the number of exploited stopes proposed for filling/stowing	The details of backfilled stopes by waste and hydrofill is attached.	Nil	No Violation	The details of backfilled stopes by waste and hydrofill is attached.	<a href="#">Balaria backfilling details.pdf</a>
3	For Underground, number of exploited stopes abandoned after filling	There was no specific proposal pertaining to the number of exploited stopes abandoned after filling.	Not applicable as no proposal.	Nil	No Violation	Nil	Nil
4	Total area fully reclaimed & rehabilitated	Not applicable, being an underground mine.	Not applicable as no proposal.	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.	5 Hectare area with 5000 number of saplings.	5 Hectare area with 5000 number of saplings.	Nil	No Violation	Nil	Nil
2	Rehabilitation by making water reservoir	No proposal.	None.	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) 5000 saplings ii) 5 Hectare iii) Plantation.	i) 5000 saplings ii) 5 Hectare iii) Plantation.	Nil	No Violation	Nil	Nil
4	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring has been proposed in both the core and buffer zones.	Environmental monitoring is being carried out in both the core and buffer zones. A few reports have been checked, and the parameters were found to be within permissible limits.	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
1	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch. No grade wise sorting.	The entire ROM is dispatched to the mineral beneficiation plant located within the lease area.	Nil	No Violation	Nil	Nil
2	Different grade of mineral sorted out at mines	Not applicable as no grade wise sorting.	Not applicable.	Nil	No Violation	Nil	Nil
3	Any beneficiation process at mines	A beneficiation facility of 5.2 million tons capacity exists within the lease area.	A beneficiation facility with a capacity of 5.2 million tons exists within the lease area. The process includes crushing and grinding of ROM, classification, differential flotation cells, and related operations.	Nil	No Violation	ROM from other mines, i.e., Mochia, Baroi, and Zawarmala, is also beneficiated in the same plant.	Nil
4	For Underground, compliance of Rule	Not applicable,	Not applicable.	Nil	No Violation	Nil	Nil

	16 (Sub-grade mineral is below cut-off value for the lease) - Sub-grade generation - Sub-grade brought to the surface	since no sub-grade generation occurred during the reporting year 202425.					
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	No proposal.	Not applicable.	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	No proposal of top soil generation.	No topsoil generation, being an underground mining operation.	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.	Not applicable.	Nil	No Violation	Nil	Nil
3	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal, being an underground mining operation.	Not applicable.	Nil	No Violation	Nil	Nil
4	Plantation & Survival rate	5 Hectare area with 5000 number of saplings. no proposal on survival rate.	5 Hectare area with 5000 number of saplings. Survival rate : 90%	Nil	No Violation	Nil	Nil
5	Water sprinkling on roads to control airborne dust	Water sprinkling over roads using a water tanker has been proposed to control airborne dust particles.	Water sprinkling is carried out through fixed sprinklers at the crusher and stockpile, and by two water tankers on roads to control airborne dust from mining activities.	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	Monthly return to be submitted before 10th day of every month for preceding month and annual return to be submitted before 1day of July for preceding financial year.	Monthly and annual returns of the reporting year (RY) 2024-25 has been submitted within stipulated time under MCDR, 2017.	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 the MCDR, 2017, mining engineer and a geologist are to be appointed in the mine.	In compliance with Rule 55 of the MCDR, 2017, Mr. Prashant Gupta has been appointed as the Mining Engineer and Mr. Somdeb Dutta Mal as the Geologist for the mine.	Nil	No Violation	Nil	Nil
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	As per approved document dated 04/03/2025, the position of reserve and remaining	As per annual return 2024-25, the position of reserve and remaining resource as on	The figures for reserves and resources at the beginning of the year 01/04/2024 were furnished	Rule 45(7)	The position of reserve and remaining resource as on 01/04/2024 furnished in	Nil

		resource as on 01/04/2024 was 13.328 and 31.848 million tons respectively.	31/03/2025 was 17.409 and 33.07 million tons respectively.	incorrectly.		annual return for the year 2024-25 is not matching with the reserve and remaining resource figures furnished in approved Review of Mining Plan dated 04/03/2025	
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	Not applicable as lease is valid up to the year March 2030.	Not applicable.	Nil	No Violation	Nil	Nil
5	Notices and Returns for the lease area submitted or not where fine applicable	Notices and returns required to be submitted under various provisions of the MCDR, 2017.	Notices and Returns submitted as per MCDR, 2017.	Nil	No Violation	Nil	Nil
6	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	As per annual return 2024-25, the cost of ore mineral produced has been furnished as 5889.31 per tons.	As per the expenses furnished in the annual return, the cost of ore/mineral produced has been estimated at 6,754.62 per ton.	Deviation in cost of production.	Rule 45(7)	The cost of ore mineral produced has been furnished as 5889.31 per tons in annual return 2024-25, whereas as per the expenses furnished in the annual return, the cost of ore/mineral produced has been estimated at 6,754.62 per ton.	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	As per Rule 35 of the MCDR, 2017, the holder of a mining lease is required to achieve at least a three-star rating.	A 4-star rating was achieved during the year 2022-23 & 2023-24. A 5-star rating has been filed for the year 202425. The validation process for the 202425 star rating is yet to commence.	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="#">Balaria Stopping Report.pdf</a>	Balaria Stopping report for stopes namely WBP1, WBP2, RRP1.

## 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
1	Development - Method of Underground : (ii)Incline/Decline/Ramp	1900 meters	1029 meters	871 meters.	Rule 11(1)	Decline development of 1029 meters have been carried out against the approved proposal of 1900 meters.	Nil
2	Development - Method of Underground : (iii)Raises/Winzes	1100 meters	348 meters	752 meters.	Rule 11(1)	Vertical development of 348 meters have been carried out against the approved proposal of 1100 meters.	Nil
3	Development - Method of Underground : (vii)Ore-Drive/Levels	10600 meters	3886 meters	6714 meters	Rule 11(1)	Horizontal development of 3886 meters have been carried out against the approved proposal of 10600 meters.	Nil

4	Development - Method of Underground : Quantum of Ore Generated while Development during the year (inT)	280000 tons	297358 tons	17358 Tons	Rule 11(1)	The development ore production exceeded the proposed quantity, whereas the actual development was less compared to the proposed development during the reporting year.	Nil
5	Annual Return : Whether incomplete or false or wrong returns submitted (Rule 45(7))	As per approved document dated 04/03/2025, the position of reserve and remaining resource as on 01/04/2024 was 13.328 and 31.848 million tons respectively.	As per annual return 2024-25, the position of reserve and remaining resource as on 31/03/2025 was 17.409 and 33.07 million tons respectively.	The figures for reserves and resources at the beginning of the year 01/04/2024 were furnished incorrectly.	Rule 45(7)	The position of reserve and remaining resource as on 01/04/2024 furnished in annual return for the year 2024-25 is not matching with the reserve and remaining resource figures furnished in approved Review of Mining Plan dated 04/03/2025	Nil
6	Annual Return : Scrutiny of Annual return on sale value, Ex. Mine price & production cost	As per annual return 2024-25, the cost of ore mineral produced has been furnished as 5889.31 per tons.	As per the expenses furnished in the annual return, the cost of ore/mineral produced has been estimated at 6,754.62 per ton.	Deviation in cost of production.	Rule 45(7)	The cost of ore mineral produced has been furnished as 5889.31 per tons in annual return 2024-25, whereas as per the expenses furnished in the	Nil

						annual return, the cost of ore/mineral produced has been estimated at 6,754.62 per ton.	
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Final Submitted

Esigned by:  DILIP JAIN  
Date: 14/08/2025 05:38:39 PM