

# INDIAN BUREAU OF MINES

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

### Part-I : General Information

#### 1.1.1 Mine Details

Name of the Mine :	30ORI08100	Lease Area (Ha) :	106.1127
Forest Area (Ha) :	103	Mine Code :	30ORI08100
Registration Number :	IBM/5175/2011	Name of lessee :	Indrani
Address of lessee :	A/6, Commercial Estate ,Civil Township, Rourkela	Phone of lessee :	-
Email of lessee :	Uimm.ip@gmail.com	Fax Number :	N/A
Village :	Unchabali	Taluka / Mandal :	Bamebari
District :	Kendujhar	Pincode :	769004
State :	Odisha	Post Office :	N/A
Nearest Police Station :	N/A	Nearest Railway Station :	N/A
Date of Grant of Mining Lease :	1999-02-05	Date of Mining Lease Execution :	1999-02-05
Date of opening in the mine :	Nilsss		

<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 :	N/A	Qualification of Mining Engineer :	N/A
Address of Mining Engineer :	N/A	Phone of Mining Engineer :	N/A
Email of Mining Engineer :	N/A	Fax Number of Mining Engineer :	N/A
Date of Mining Engineer Appointment :	Nil		
<b>Geologist Details</b>			
Name of the Geologist :	N/A	Qualification of Geologist :	N/A
Address of Geologist :	N/A	Phone of Geologist :	N/A
Email of Geologist :	N/A	Fax Number of Geologist :	N/A
Date of Geologist Appointment :	Nil		
<b>Mine Manager Details</b>			
Name of the Mine Manager :	N/A	Qualification of Mine Manager :	N/A
Address of Mine Manger :	N/A	Phone of Mine Manger :	N/A
Email of Mine Manger :	N/A	Fax Number of Mine Manger :	N/A
Date of Mine Manger Appointment :	Nil		

Mineral(s) granted in lease and proved for mining :	IRON ORE,MANGANESE ORE	Date of Approval of Mining Plan / Modified Mining Plan / ROMP with five-year period :	N/A
Method of mining :	Open Cast	Category :	N/A
Nature of Use :	Non Captive		

## Part-II : Other Information

### 2.1.1 : Inspection Details

Inspecting Officer :	ROHITA SETHI
Designation :	ACOM
Name of the Accompanying Official from Mine :	Mr. A. Gurubalasubramaniam , Mr. Purna Chandra Bagdi and other mining officials
Designation of the Accompanying Official :	Mines Manger & Mining Engineer, Geologist and other mining officials
Type of Inspection :	MCDR,MPAS,STR
Date of Inspection :	17/09/2025
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		No Proposal	None	Nil	No Violation	Nil	Nil
2	Number of DTH Boreholes		No Proposal	None	Nil	No Violation	Nil	Nil
3	Number of exploratory pits / trial pits		No Proposal	None	Nil	No Violation	Nil	Nil
4	Number of exploratory Trenches		No Proposal	None	Nil	No Violation	Nil	Nil
5	Lateral exploration status for the lease area	G1	106.11	106.11	0.000	No Violation	Entire Lease area has been explored under G1 Level of exploration.	Nil
6		G2	0.00	None	NIL	No Violation	Nil	Nil
7		G3	0.00	None	Nil	No Violation	Nil	Nil
8		G4	0.00	None	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 &		IRON ORE - Total Reserve as on 30/11/2022 111-5140396tonnes, 121-51064640 (BHJ) Total	IRON ORE - Total Reserve as on 31/03/2025 111-3890416tonnes, 121-51064640 (BHJ) Total	Item-2 of Part V (General Geology & Mining): The details of Mineral Reserves and Resources	Rule 45(7)	The details of Mineral Reserves and Resources estimated for iron ore at the end of the year has not	Nil

	333 upto 334)	Resource 211-104 932.8tonnes, 221- 14685440tonnes manganese ore- Nil	Resource 211-104 932.8tonnes, 221- 14685440tonnes manganese ore- Nil	estimated for iron ore at the end of the year has not been reported correctly as per the last approved document after depleting the production from the Reserve part achieved subsequently up to 31/03/2025. The same may be rectified.		reported correctly in the Annual return.	
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### 2.3.1 : Development - Opencast Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Location of development w.r.t. lease area	Pit : Existing Quarry & Direction : SE, direction	Pit : Existing Quarry & Direction : SE, direction	Nil	No Violation	Nil	Nil
2	Quantity of overburden generation in m3	81218.78	160020	During the year 2024-25, the waste of 160020Cum has been generated against the proposal of	Rule 11(1)	Excess overburden production against the approved proposal.	Nil

				81218.78Cum. It is observed that the actual generation of waste is more than 97% of the proposed waste.			
3	Quantity of topsoil generation in m3	No Proposal	None	Nil	No Violation	Nil	Nil
4	Stripping ratio : ore to OB ratio	6.16	0.41	Nil	No Violation	Considered ore to OB ratio t/t as per approved RMP.	Nil

#### 2.4.1 Exploitation - Opencast Mine Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Number of pits / Blocks proposed for production	Pit ID : Existing Quarry (1)	Existing Quarry (1)	Nil	No Violation	Nil	Nil
2	Quantity of ROM mineral production proposed (in T)	1000752.70	131730	For the Year 2024-25, It is observed that the actual ROM production of 131730 tonnes including Mineral Reject (+45 to -55%	Rule 11(1)	Less production quantity achieved against the proposed production.	Nil

				<p>Fe-47640tonnes) has been carried out against the proposal of 1000752.70 tonnes of ROM production including Mineral Reject (+45 to -55% Fe-97776tonnes). Hence, it is observed that only 13.16% ROM production quantity has been achieved. Also there is a major variation in grade of Iron Ore (Mineral Reject, +45 to -55% Fe) produced in the mine with respect to the approved proposal.</p>			
3	Recovery of salable/usable mineral quantity from ROM production in T)	902976.70	84090	818886.700	No Violation	Violation pointed out for less production	Nil
4	Quantity of mineral reject/Sub-grade generation	97775.98	47640	50135.980	No Violation	Violation pointed out for less production	Nil
5	Grade of mineral reject/sub-grade generation as per threshold value declared	45 % Fe- 55 % Fe Threshold 45% Fe	45 % Fe- 55 % Fe Threshold 45% Fe.	Nil	No Violation	Nil	Nil
6	Manual/Mechanised method adopted for segregating subgrade/mineral rejects	Fully Mechanized Method	Fully Mechanized Method	Nil	No Violation	Nil	Nil

	from ROM						
7	Whether height of benches in Overburden & mineral suitable for method of mining proposed in mining plan	Bench height in Mineral and OB-10m	Bench height has not been maintained as per the proposal	During the site inspection it was observed that benches formation in the existing pit is irregular and have not been advanced systematically as per the proposal.	Rule 11(1)	Bench height has not been maintained as per the proposal	Nil
8	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	BHJ beneficiation study proposed	BHJ beneficiation study has been carried out	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	Nil	Nil	No Violation	Nil	Nil
2	Quantity of dump material handling Proposed (in Tonne)	No Proposal	Nil	Nil	No Violation	Nil	Nil
3	Recovery of salable/usable mineral from dump production (in Tonne)	No Proposal	Nil	Nil	No Violation	Nil	Nil
4	Production from dump(s) during the year	No Proposal	Nil	Nil	No Violation	Nil	Nil
5	Quantity of mineral reject generation	No Proposal	Nil	Nil	No Violation	Nil	Nil
6	Grade of mineral reject generation and threshold value declared	No Proposal	Nil	Nil	No Violation	Nil	Nil
7	Any analysis or beneficiation study proposed & carried out for mineral reject	No Proposal	Nil	Nil	No Violation	Nil	Nil
8	Manual / Mechanized method adopted for dump working	No Proposal	Nil	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)	Dump Type : Waste, Dump ID : waste dump	As per proposal	Nil	No Violation	Nil	Nil
2	Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	Dump Type : Waste, Dump ID : waste dump, Latitude : 21:52:21.21 , 21:52:24.33, Longitude: 85:25:55.36 , 85:25:53.72	During the reporting year waste dumping has not been carried out on the earmarked area.	During the site inspection it was observed that complete waste material dumping has been carried out on the existing waste dump instead of the prosed earmarked area for waste dumping i.e. between 337852E to 338017E and 2419434N to 2419652N.	Rule 11(1)	Dumping has not been carried out on the earmarked area.	Nil
3	Number of active & Inative dumps	02	02	0.000	No Violation	Nil	Nil
4	Number of dead dumps	02	02	Nil	No Violation	Nil	Nil
5	Number of dumps proposed for stabilished	Year : 2024-2025, Dump ID : OB Dump-2, two terraces	As per proposal	Nil	No Violation	Nil	Nil

6	Stabilization Technique (Terracing, plantation, geo-textiles etc.)	Plantation	Terracing, plantation, geo-textiles	Nil	No Violation	Nil	Nil
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### 2.6.1 : Solid Waste Management - Backfilling (Opencast) Details

S.N.	Items for Reporting	As Per Approved Mining Plan	Actual	Deviation	Violation under Rule	Remark	Remark File
1	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposal	Nil	Nil	No Violation	Nil	Nil
2	Year-wise area under backfilling of mined out area	No Proposal	Nil	Nil	No Violation	Nil	Nil
3	Year-wise topsoil generation, Utilization and Stored proposal (in m3)	Generated :0.00 Utilized :0.00 Stored :0.00	None	Nil	No Violation	Nil	Nil
4	Total area fully reclaimed & rehabilitated	No proposal	None	Nil	No Violation	Nil	Nil
5	Locations of proposed reclamation & rehabilitated	No proposal	None	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.	Plantation : Location :Near MLB K, Area : 0.16, No. of Plant : 256 Plantation : Location :Near MLB K, Area : 0.16, No. of Plant : 256	14.419 Ha 1.6 Ha /8100 nos of saplings.	Nil	No Violation	Plantation has been carried out near Mining Lease Boundary	Nil
2	Rehabilitation by making water reservoir	No Proposal	Nil	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 Proposal	Nil	Nil	No Violation	Nil	Nil
4	Compliance of Environmental monitoring (core zone & buffer zone)	To be done as per MOEF & CC , Guide line.	Monitoring has been carried out as per the MOEF & CC Guidelines	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	45 Fe to 65 Fe	45 Fe to 65 Fe	Nil	No Violation	Nil	Nil
2	Different grade of mineral sorted out at mines	45 Fe to 65 Fe	45% to 51% Fe 55% to below 58% Fe, 58% to below 60% Fe, 60% to below 62% Fe, Below 62% Fe (CLO any size)	Nil	No Violation	Nil	Nil
3	Any beneficiation process at mines	No Proposal	Nil	Nil	No Violation	Nil	Nil
5	Utilization of Mineral Rejects or Sub-grade (Blending at ROM stage, Blending after Processing etc.)	Blending of Subgrade	Mineral reject or subgrade blended at ROM stage	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	None	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	None	Nil	No Violation	Nil	Nil
3	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	None	Nil	No Violation	Nil	Nil
4	Plantation & Survival rate	Plantation : 256, Survial Rate : 70	8100 & 85%	Nil	No Violation	Nil	Nil
5	Water sprinkling on roads to control airborne dust	Regular water spraying on haul roads, waste dumps and maintaining the approach road	Regular water spraying on haul roads, waste dumps and maintaining the approach road	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	Monthly returns under Rule 45(5)(b)(i) of MCDR 2017 by 10th day of every month. Annual return in Form G1 to be submitted under Rule 45(5)(c)(i) of MCDR 2017 by 1st July of every year	Except June-2024MR, all monthly returns during the reporting year are submitted within the stipulated time period. AR for the year 2024-25 submitted on 26/06/2025.	Monthly Return for the month of Jue-2024 has not been submitted by the Lesse within the stipulated time period. Penalty Notice issued vide this office Letter no. MCDR-MiFLOFE /20/2023-BBS-IBMROBBS dated 22/07/2024.	No Violation	Monthly Return for the month of Jue-2024 has not been submitted by the Lesse within the stipulated time period for which Penalty Notice have been issued vide this office Letter no. MCDR-MiFLOFE /20/2023-BBS-IBMROBBS dated 22/07/2024 though MCDR file.	Nil
2	Appointment of Mining Engineer & Geologist as per provisions of Rule 55 of MCDR,2017	Mining engineer- Purna Chandra Bagdi, Manager- A.Gurubalasubramaniam. Geologist Padmalochan Behera	Mining engineer- Purna Chandra Bagdi, Manager- A.Gurubalasubramaniam. Geologist Padmalochan Behera	Nil	No Violation	Nil	Nil
3	Whether incomplete or false or wrong returns submitted (Rule 45(7))	To be submitted correctly	Annua Return for the year 2024-25 has not been submitted correctly.	On scrutiny of the annual return submitted under Rule 45(5)(c)(ii) of MCDR 2017 for the year	Rule 45(7)	Annua Return for the year 2024-25 has not been submitted correctly.	Nil

2024-25 the following deficiencies were observed.

1.Item-12 of Part I (General): From the last approved Review and updation of mining plan it is observed that area put on use at start of plan period for under mining was 46.77ha, OB dump site-22.48ha, whereas in submitted annual return for the year 2024-25 it is reported that area under current (O-C)

working-34.974ha , use for waste disposal-22.598ha

. 2.The submitted KML/KMZ file has not been prepared correctly. Only Mining Lease boundary layers have been given.

3.Item-2 of Part V (General Geology & Mining): The details of Mineral Reserves and

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Resources estimated for Iron ore at the end of the year has not been reported correctly as per the last approved document after depleting the production from the Reserve part achieved subsequently up to 31/03/2025. 4.I tem-1.Exploration : No exploration cost has been reported against the drilled boreholes. 5.Part-VII- Cost of Production: Also the exploration cost has not been considered for calculation of cost of production. 6.Since there is discrepancy in the reported exploration cost, the cost of production per tonne also has to be corrected accordingly incorporating corrections under the relevant item cost/ton. 7.From the submitted

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				PMCP report it is observed that no backfilling work has been carried out during the reporting year, also no such proposal was in the approved mining plan, however in Item-4 of Part V (General Geology & Mining), it is reported as 160020Cum of OB backfilled.			
4	Status of Approval of FMPCP u/r 24, 25 of MCDR,2017	NA	NA	NA	No Violation	NA	Nil
5	Notices and Returns for the lease area submitted or not where fine applicable	To be submitted within time	All returns and notices Submitted with in the time period except MR, June-2024.	Penalty Notice already issued vide this office Letter no. MCDR -MiFL0FE/20/20 23-BBS- IBMROBBS dated 22/07/2024.	No Violation	Penalty Notice already issued vide this office Letter no. MCDR -MiFL0FE/20/20 23-BBS- IBMROBBS dated 22/07/2024.	Nil
6	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Fines- 45-51% Fe- sale value- 9955710,Ex-mines pr-2200 51-55% Fe- sale value- 78165965. 7,Ex-mines pr-2451, 55-58% Fe sale value- 105 174262.5,Ex-mines pr-3050,	Appears to be correct	Nil	No Violation	Nil	Nil

		58-60% Fe- sale value- 51338151, Ex-mines pr-4101, 60-62% Fe- sale value- 17 5419521,Ex-mines pr-4180, Below 62% Fe (CLO any size) -sale value- 175419521 Ex-mines price-5093,					
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**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	Year of Submission : 2023-2024 , Rating : 3 Stars	2023-24 4 Star	Nil	No Violation	Nil	Nil

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### Part-III : Other Reports

#### 3.1.1 : Upload Other Reports

S.N.	Reports File	Remark   File Description
1	Nil	Nil

### 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	Exploration : 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)	IRON ORE - Total Reserve as on 30/11/2022 111-5140396tonnes, 121-51064640 (BHJ) Total Resource 211-104932.8tonnes, 221-14685440tonnes manganese ore- Nil	IRON ORE - Total Reserve as on 31/03/2025 111-3890416tonnes, 121-51064640 (BHJ) Total Resource 211-104932.8tonnes, 221-14685440tonnes manganese ore- Nil	Item-2 of Part V (General Geology & Mining): The details of Mineral Reserves and Resources estimated for iron ore at the end of the year has not been reported correctly as per the last approved document after	Rule 45(7)	The details of Mineral Reserves and Resources estimated for iron ore at the end of the year has not reported correctly in the Annual return.	Nil

				depleting the production from the Reserve part achieved subsequently up to 31/03/2025. The same may be rectified.			
2	Development - Opencast : Quantity of overburden generation in m3	81218.78	160020	During the year 2024-25, the waste of 160020Cum has been generated against the proposal of 81218.78Cum. It is observed that the actual generation of waste is more than 97% of the proposed waste.	Rule 11(1)	Excess overburden production against the approved proposal.	Nil
3	Exploitation - Opencast Mine : Quantity of ROM mineral production proposed (in T)	1000752.70	131730	For the Year 2024-25, It is observed that the actual ROM production of 131730 tonnes including Mineral Reject (+45 to -55% Fe-47640tonnes) has been carried out against the proposal of 1000752.70 tonnes of ROM production including Mineral	Rule 11(1)	Less production quantity achieved against the proposed production.	Nil

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				<p>Reject (+45 to -55% Fe-97776tonnes). Hence, it is observed that only 13.16% ROM production quantity has been achieved. Also there is a major variation in grade of Iron Ore (Mineral Reject, +45 to -55% Fe) produced in the mine with respect to the approved proposal.</p>			
4	Exploitation - Opencast Mine : Whether height of benches in Overburden& mineral suitable for method of mining proposed in mining plan	Bench height in Mineral and OB-10m	Bench height has not been maintained as per the proposal	During the site inspection it was observed that benches formation in the existing pit is irregular and have not been advanced systematically as per the proposal.	Rule 11(1)	Bench height has not been maintained as per the proposal	Nil
5	OB / Waste Dumps details : Location of Topsoil, OB/Waste, Mineral Reject dumps, Tailings and Fines	<p>Dump Type : Waste, Dump ID : waste dump, Latitude : 21:52:21.21 , 21:52:24.33, Longitude: 85:25:55.36 , 85:25:53.72</p>	During the reporting year waste dumping has not been carried out on the earmarked area.	During the site inspection it was observed that complete waste material dumping has been carried out on the existing waste dump instead of the prosed	Rule 11(1)	Dumping has not been carried out on the earmarked area.	Nil

				earmarked area for waste dumping i.e. between 337852E to 338017E and 2419434N to 2419652N.			
6	Annual Return : Whether incomplete or false or wrong returns submitted (Rule 45(7))	To be submitted correctly	Annua Return for the year 2024-25 has not been submitted correctly.	<p>On scrutiny of the annual return submitted under Rule 45(5)(c)(ii) of MCDR 2017 for the year 2024-25 the following deficiencies were observed.</p> <p>1.Item-12 of Part I (General): From the last approved Review and updation of mining plan it is observed that area put on use at start of plan period for under mining was 46.77ha, OB dump site-22.48ha, whereas in submitted annual return for the year 2024-25 it is reported that area under current (O-C) working-34.974ha , use for waste disposal-22.598ha</p>	Rule 45(7)	Annua Return for the year 2024-25 has not been submitted correctly.	Nil

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. 2.The submitted KML/KMZ file has not been prepared correctly. Only Mining Lease boundary layers have been given.

3.Item-2 of Part V (General Geology & Mining): The details of Mineral Reserves and Resources estimated for Iron ore at the end of the year has not been reported correctly as per the last approved document after depleting the production from the Reserve part achieved subsequently up to 31/03/2025.

4.Item-1.Exploration : No exploration cost has been reported against the drilled boreholes.

5.Part-VII- Cost of Production: Also the exploration cost has not been considered for calculation of cost of production.

6. Since there is discrepancy in the reported exploration cost, the cost of production per tonne also has to be corrected accordingly incorporating corrections under the relevant item cost/ton. 7. From the submitted PMCP report it is observed that no backfilling work has been carried out during the reporting year, also no such proposal was in the approved mining plan, however in Item-4 of Part V (General Geology & Mining), it is reported as 160020Cum of OB backfilled.

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Esigned by: ROHITA SETHI  
Date: 13/10/2025 11:09:40 AM