INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION MCDR INSPECTION REPORT BHUBANESHWAR REGIONAL OFFICE

Gen	eneral				
S N	Particulars	Details			
1	Name of the Mine	Bamebari Iron and Manganese Mine,			
		Tata Steel Limited			
2	Total Lease Area (Ha) with breakup	Original ML Area – 1150.550 Ha.			
	of Non-forest and forest land	RML Applied Area – 464 ha.			
		Final Mine Closure Plan (FMCP) over an area of 686.550 ha			
		out of the original lease area of 1150.550 ha has been			
		approved by Indian Bureau of Mines, Bhubaneswar Region			
		vide letter no. FMCP/FM/04-ORI/BHU/2014-15, dated			
		20.01.2015. The Certificate was also granted vide letter no.			
		T/FMCP/C/01/BHU/2011/267, dated 31.05.2016.			
		Within DML Applied App			
		(Pasarua Foract: 170,157 ha			
		(Reserve Forest: 62.844 Ha			
		DI C Eorest: $1/0.268$ Ha			
		Sabik Forest: 66 126 Ha			
		Total Forest: 448 395 Ha			
		Non-Forest: 15 605 Ha (Govt Land -0.103 Ha + Pvt Land $-$			
		15.502 Ha.)			
3	Mine code	400RI08003			
4	IBM Registration Number under rule	IBM/4376/2011			
	45 of MCDR, 1988				
5	Name of the lessee, Address, phone,	M/s TATA Steel Ltd,			
	email and fax number	Regd. Office: Bombay House, 24 Homi Mody Street,			
		Mumbai – 400 001			
6	Village	Palasa(ka), Kundaposi, Bandhuabeda, Namira, Boneikela,			
		Jadibahal & Jajanga etc.			
7	Taluka/Mandal	Barbil			
8	District	Keonjhar			
9	Pincode	758034			
10	State	ODISHA			
11	Post office	Bamebari			
12	Nearest police station	Joda			
13	Nearest Railway station	Banspani			
14	Date of Grant of Mining Lease	1 st Grant: 30 years from 01.04.1930 to 31.03.1960			
		over 1150.550 ha			
15	Date of Execution	07-07-1931 (Mining Lease)			
16	Date of opening of Mine	05-05-1938			
	Date of first Renewal, if applicable	Grant Order-IIIM(A) 22/62/9819, Dt. 15.10.1962			
	and its period & expiry	Execution- Dt. 28.04.1970			
		Period-01.04.1960 to 31.03.1980			
	Date of second Renewal, if applicable	Grant Order-2851 MG, Bhubaneswar, Dt. 16.02.1982			
	and its period & expiry	Execution- Dt. 15.05.1985			
	Dete of entrying 1	Period-01.04.1980 to 31.03.2000			
	Date of submission of renewal	5 Kenewal – Express order granted by Govt. Of Odisha			
	application II Mining Operations are	over 404 ha to execute the lease in prospective manner till			
	continuing under deemed extension	51.05.2020.			
1					

Subsequent to promulgation of the MMDR (Amendment) Act, 2015. The lease has been extended till 31.03.2030 over an area of 1150 ha with a notation as "The lessee has applied for a reduced area of 464 ha of the said lease". The uspplementary lease deed of same was executed vide registration no. 1031500250 Dated 08.05.2015 17 Date of Expiry 31.03.2030 18 Name of the Nominated Owner with Address, phone, email, fax number Managing Director and date of appointment M.S Tata Steel Limited, Jamshedpur, Dist-East Singbhum Phone-0657.2424002 19 Name of the Mine Agent with Mr. Shambhu Nath Jha, Address, phone, email, fax number and date of appointment Agent & Chief, Manganese Group of Mines, AT/PO, Bichhakund, VIA – Joda, Dist. Keonjhar, PIN – 758034 20 Name of the Mine Manager with Mr. Amulya Kumar Panda, AMIE & FCC Bamebari, fax number and date of appointment in mines Bamebari Iron and Manganese Mines, At/PO, Banebari 21 Name of the Mines Manager with McMars, Mointent - 21.03.2024 Core Bamebari 20 Name of the Mines Manager with McMars, And/PO, Banebari Na/PO, Banebari 21 Name of the Mining Engineer, Mr. Alok Singh Sardar, BTech. (Mining), Outlification and total experience experience - 8.5 Years Na/PO, Bamebari 21 Name of the Mining Engineer, Mr. Alok Sangh Ardar, Singh Sardar, Singh Sardar, Singh Sardar, Singh Sardar, Sardari (Patasteel.com Dt. of Appointment - 30.5.2023 21 Name of the Mining Engineer, Mr. Alok Singh Sar			
and date of appointment Pate of Expiry 31.03.2030 18 Name of the Nominated Owner with Address, phone, email, fax number Mr. Thachat Viswanath Narendran MAddress, phone, email, fax number Mr. Thachat Viswanath Narendran MA Managing Director M/S Tata Steel Limited, Jamshedpur, Dist-East Singbhum Phone-0657-2424602 Fax-022-66657724, Email: mdoffice@tatasteel.com JHARKHAND-831001 Dt. of Appointment OB (Factor) and date of appointment Agent & Chief, Manganese Group of Mines, AT/PO. Bichhakund, VIA – Joda, Dist. Keonjhar, PIN – 758034 19 Name of the Mine Agent with Address, phone, email, fax number and date of appointment Mr. Amulya Kumar Panda, AMIE & FCC 20 Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines Mr. Anulya Kumar Panda, AMIE & FCC 21 Name of the Mining Engineer, With Address, mobile no, email, fax number and date of appointment in mines Mr. Atualya Kumar Brach, Mile & Mile ACC 22 Name of the Mining Engineer, With Address, mobile no, email, fax number appointment in mine Mr. Atualya Kumar Brach, MIE & FCC 23 Name of the Geologist, Qualification appointment in mine Mr. Atualya Kumar Brach, MIE & FCC 24 Name of the Mining Engineer, With Address, mobile no, email, fax number and date of ap			Subsequent to promulgation of the MMDR (Amendment) Act, 2015, the lease has been extended till 31.03.2030 over an area of 1150 ha with a notation as "The lessee has applied for a reduced area of 464 ha of the said lease". The
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 Name of the Mine Agent with Mr. Flacha Viswahali (Viswahali) (Valehulan) Name of the Mine Agent with Mr. Shamblu Nath Jha, Address, phone, email, fax number Agent & Chief, Manganese Group of Mines, AT/PO. Bichhakund, VIA – Joda, Dist. Keonjhar, PIN – 758034 Name of the Mines Manager with Mr. Shamblu Nath Jha, Address, phone, email, fax number Agent & Chief, Manganese Group of Mines, AT/PO. Bichhakund, VIA – Joda, Dist. Keonjhar, PIN – 758034 Phone – 9438887778 Email: jhasn@tatastel.com Dt. of Appointment – 21.03.2024 Name of the Mines Manager with Mr. Anulya Kuma Panda, AMIE & FCC Bamebari Iron and Manganese Mines, At/PO. Bamebari Via-Joda Dist-Keonjhar Odisha-758034 Tel: 9153981181 Email: anulya@tatastel.com Date of the Mining Engineer, Mr. Alok Singh Sardar, B. Tech. (Mining), Qualification and total experience With Address, mobile no, email, fax number and date of appointment in mine Via-Joda Dist-Keonjhar Odisha-758034 Tel: 9153981181 Email: anulya@tatastel.com Date of the Geologist, Qualification and total experience – 8.5 Years with Address, mobile no, email, fax number and date of appointment in mine Xia/phone number and date of Dist-Keonjhar, Odisha-758034 Tel: 7763807661, Email: angeeth@tatastel.com Dt. of Appointment-30.05.2022 Name of the Geologist, Qualification and total experience – 11 yrs. Bamebari Iron and Manganese Mine, At/PO- Bamebari, Via-Joda, Dist-Keonjhar, 75807661, Email: angeeth@tatastel.com Dt. of Appointment-15.05.2023 Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. No specific conditions have been imposed in the approval letter. The details are furnished below in tabular form. 	1/	Name of the Nominated Owner with	S1.05.2030 Mr. Theobet Viewenoth Nerondron
Address, prione, email, fax number Mail arg Director and date of appointment M/S Trat Steel Limited, Jamshedpur, Dist-East Singhhum Phone-0657-2424602 Fax-022-66657724, Email: mdoffice@tatasteel.com JHARKHAND-831001 19 Name of the Mine Agent with Address, phone, email, fax number and date of appointment M/S Tsambhu Nath Jha, Agent & Chief, Manganese Group of Mines, AT/PO, Bichhakund, VIA – Joda, Dist. Keonjhar, PIN – 758034 20 Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines Mr. Anulya Kumar Panda, AMIE & FCC 21 Name of the Mining Engineer, Qualification and total experience with Address, mobile no, email, fax/phone number and date of appointment in mine Mr. Alok Singh Sardar, B.Tech. (Mining), Experience - 8.5 Years with Address, mobile no, email, fax/phone number and date of appointment in mine 22 Name of the Geologist, Qualification and total experience with Address, mobile no, email, fax/phone number and date of appointment in mine Mr. Alok Singh Sardar, B.Tech. (Mining), Experience - 8.5 Years with address, Experience - 11 yrs. 22 Name of the Geologist, Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine Shri Sangeeth G, M.Sc. (Applied Geology) and total experience with Address, mobile no, email, fax number and date of appointment in mine Shri Sangeeth G, M.Sc. (Applied Geology) and total experience with Address, mobile no, email, fax number and date of appointment in mine 22 Date of Approval of Review of Mining Plan/Modified Minin	10	Address phone small for number	Managing Director
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 Disk Lass Singonum Phone-0657-2424602 Fax-022-66657724, Email: mdoffice@tatasteel.com JHARKHAND-831001 Dt. of Appointment: -01.11.2013 Name of the Mine Agent with Address, phone, email, fax number and date of appointment Ar T/PO. Bichhakund, VIA – Joda, Dist. Keonjhar, PIN – 758034 Phone – 943887778 Email: jhasn@tatasteel.com Dt. of Appointment – 21.03.2024 Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines Ar PO- Bamebari Via-Joda Dist - Keonjhar Odisha-758034 Tel: 9153981181 Email: anulya@tatasteel.com Date of appointment: 09.07.2024 Name of the Mining Engineer, with Address, mobile no, email, fax/phone number and date of appointment in mine Dist - Keonjhar, Odisha-758034 Tel: 9153981181 Email: anulya@tatasteel.com Date of appointment: 09.07.2024 Name of the Geologist, Qualification And total experience estimation and total experience estimation and total experience with Address, mobile no, email, fax number and date of appointment in mine Tel: 8769579977 Email: alok.sardar1@tatasteel.com Dt. of Appointment-30.05.2022 Name of the Geologist, Qualification Shri Sangeeth G, M.Sc. (Applied Geology) Experience - 11 yrs. Bamebari Iron and Manganese Mine, At/PO- Bamebari, Via-Joda, Dist - Keonjhar Odisha-758034 Tel: 7763807661, Email: sangeeth@tatasteel.com Dt. of Appointment-15.05.2023 Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. No specific conditions have been imposed in the appro		and date of appointment	Dist East Singhhum
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 Quantication and total experience Experience - 8.5 Years with Address, mobile no, email, fax/phone number and date of appointment in mine 22 Name of the Geologist, Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine 22 Name of the Geologist, Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine 23 Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific conditions have been imposed in the approval letter. The details are furnished below in tabular form. 	21	Name of the Mining Engineer,	Mr. Alok Singh Sardar, B. Iech. (Mining),
 With Address, mobile no, email, Banebari fron and Manganese Mines, At/PO- Banebari, fax/phone number and date of appointment in mine Dist- Keonjhar, Odisha-758034 Tel: 8769579977 Email: alok.sardar1@tatasteel.com Dt. of Appointment-30.05.2022 Name of the Geologist, Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine Banebari Iron and Manganese Mine, At/PO- Bamebari, Via-Joda, Dist- Keonjhar Odisha-758034 Tel: 7763807661, Email: sangeeth@tatasteel.com Dt. of Appointment-15.05.2023 Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. No specific conditions have been imposed in the approval letter. The details are furnished below in tabular form. 		Quantication and total experience	Experience - 8.5 Years Domohori Iron and Manganasa Minas At/DO Domohori
1ax/pilotic fullible fullible and date of Dist-Reonjhar, Odisha-758034 appointment in mine Tel: 8769579977 Email: alok.sardarl@tatasteel.com Dt. of Appointment-30.05.2022 22 Name of the Geologist, Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine Shri Sangeeth G, M.Sc. (Applied Geology) Experience – 11 yrs. Bamebari Iron and Manganese Mine, At/PO- Bamebari, Via-Joda, Dist- Keonjhar Odisha-758034 Tel: 7763807661, Email: sangeeth@tatasteel.com Dt. of Appointment-15.05.2023 Date of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. No specific conditions have been imposed in the approval letter. The details are furnished below in tabular form.		with Address, mobile no, email,	Damedan non and Manganese Mines, AUPO- Damedan, Dist Koopiber Odisha 758024
appointment in mine Tet. 8709379977 Email: alok.sardar1@tatasteel.com Dt. of Appointment-30.05.2022 22 Name of the Geologist, Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine Shri Sangeeth G, M.Sc. (Applied Geology) Experience – 11 yrs. Bamebari Iron and Manganese Mine, At/PO- Bamebari, Via-Joda, Dist- Keonjhar Odisha-758034 Tel: 7763807661, Email: sangeeth@tatasteel.com Dt. of Approval of Review of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any. No specific conditions have been imposed in the approval letter. The details are furnished below in tabular form.		appointment in mine	Dist- Reoligital, Ouisila-758054 T_{el} : 8760570077
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		No specific conditions have been importabular form.	osed in the approval letter. The details are furnished below in

	Mining Plan / Scheme of Mining	Approval Letter No. & Date	Period	
	Mining Plan	CAL/KJ/MP-248, Dt. 14.06.1993	1992-93 to 1996-97	
	Review & Scheme of Mining	314(3)/97 MCCM(C)/MI/S-7, Dt.11.06.1998	1997-98 to 2003-04	
	Modification of Scheme of Mining	BBS/KJ/Mn/MS Bamebari, Dt.24.03.2005	2003-04 to 2004-05	
	Scheme of Mining	MS/OTF-Mech/11-ORI/BHU 2007-08, Dt.05.12.2007	2005-06 to 2009-10	
	Scheme of Mining	MS/OTF.MECH/06-ORI/BHU/2010-11, Dt. 09.06.2010	2010-11 to 2014-15	
	Final Mine Closure Plan	FMCP/FM/04-ORI/BHU/2014-15, Dated. 20 area of 686.550 hect.	0.01.2015 over an	
	Scheme of Mining	MS/OTFM/32-ORI/BHU/2014-15 Dt. 26.03.2015	2015-16 to 2019-20	
	Modification of Review of Mining Plan	MSM/FM/05-ORI/BHU/2018-19, Dt. 04.05.2018	2018-29 to 2019-20	
	Review of Mining Plan	RMP/A/08-ORI/BHU/2020-21, Dtd. 03.08.2020	2020-21 to 2024-25	
24	Mineral(s) granted in lease	and Manganese and Iron Ore		
25	proved for mining Method of Mining (Open-	cast, Opencast		
	Underground)			
26	Category (Fully Mechanised, Ot or Manual)	hers A-OTFM		
27	Captive/Non-Captive	Captive		
28	Present EC Capacity	Production of Mn. Ore – 83200 Tonnes	Production of Mn. Ore – 83200 Tonnes/Annum.	

Exploration

S.N.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	Core – NIL RC – NIL Total – NIL	RC – 18 Nos. – 876 m Total – 18 Nos. – 876 m.	V/L for backlog exploration already issued on 4/1/24
1b	Exploration over lease area for Geological axis 1 or 2.	Not Specified	G1: 2.750 G2: 3.112	Total Lease Status as on 01-04-2024 G1: 118.476 G2: 91.829
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not Specified	26.28 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	253.70 На	V/L for backlog exploration already issued on 4/1/24
1e	Balance reserves as on 01.04.2024 (Mn. Ore)	-	2611076 Tonnes(+10% Mn)	Balance resources as on 31.3.2024
	Balance reserves as on 01.04.2024 (Iron Ore)	-	671047 Tonnes(+45% Fe	Balance resources as on 31.3.2024

1f	General remarks of inspecting	Bamebari Iron & Manganese deposit lies in the western portion	
	Officer on Geology, exploration	of Singhbhum-Orissa Craton. Manganese mineralization is	
	etc.	mainly confined to the weathered shale horizon. General strike	
		of the formation is NS to NE-SW with dip varying from 10 to	
		30 degree towards west. Manganese ore occurs as lenses and	
		pockets (length of a meter to 200 m & thickness 2 to 49 m) in	
		association with laterite, cherty & jaspery quartzite, shale and	
		iron ore. Backlog exploration reported to be not carried out due	
		to non-availability of statutory clearances. However, V/L	
		already pointed out for deviation of exploration for speed-up of	
		action.	

Development

S.N.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	Proposed Extent of Development-	Actual Extent of Development-	
		Bamebari – No development proposal.	Bamebari – No development carried out.	
		Joribar - 11288N- 11630N & 12312E- 12790E from 492 mRL to 636 mRL	Joribar - 11285N- 11622N & 12288E- 12789E from 505 mRL to 630 mRL	
		Bonaikela - 4244- 4394N & 4861E- 5037E from 560 mRL to 600 mRL	Bonaikela - No development carried out during the year	Due to want of Forest Clearance.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Separate benches for OB and Ore maintained wherever possible due to pocket deposit nature of manganese ore	As per the proposals.	
2c	Stripping ratio or ore to OB ratio	(In-situ CuM : CuM) Bamebari – Nil Joribar – 1 : 2.15 Bonaikela – 1 : 21.03 Avg. 1 : 3.02 (Ore includes Mn. Ore & Iron Ore Mineral Rejects)	(In-situ CuM : CuM) Bamebari – Nil Joribar – 1 : 8.11 Bonaikela – Nil Avg. 1 : 8.11 (Ore includes Mn. Ore & Iron Ore Mineral Rejects)	Ore & OB Ratio increased due to less excavation of Manganese Ore & in-situ Iron Ore Mineral Rejects from the Mn. Ore Pit. (Only at Joribar Block)
2d	Quantity of topsoil generation in m ³	No proposals	Nil	
2e	Quantity of overburden/waste generation in m ³	Bamebari – Nil Joribar – 431666 Bonaikela – 201662 Total –633328	Bamebari – Nil Joribar – 279188.578 Bonaikela – Nil Total – 279188.578	Due to working at Joribar Block only and pending FC.

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S.N.	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	Bamebari Block – Nil Joribar Block – 1 No. Bonaikela Block – 1 No.	Bamebari Block – Nil Joribar Block – 1 No. Bonaikela Block – Nil	Due to pending FC
3b	Quantity of ROM mineral production proposed (Mn. Ore in Tonnes)	Bamebari – Nil Joribar – 446749 Bonaikela – 23251 Total – 470000	Bamebari – Nil Joribar – 82885 Bonaikela – Nil Total – 82885	
3с	Recovery of salable/usable mineral from ROM production	100%	100%	Mn Content >10%
3d	Quantity of mineral reject generation (Mn. Ore in Tonnes)	Bamebari – Nil Joribar – 214727 Bonaikela – 5273 Total – 220000	Bamebari – Nil Joribar – 6397.765 Bonaikela – Nil Total – 6397.765	Total Generation 11370.865 Tonnes and 4973.100Tonnes consumed by blending with upper grade.
	Quantity of mineral reject generation (Iron Ore in Tonnes)	Bamebari – Nil Joribar – 26598 Bonaikela – Nil Total – 26598	Bamebari – Nil Joribar – 2571 Bonaikela – Nil Total – 2571	In-situ excavation Concurrent to development of Mn. Ore Pits
Зе	Grade of mineral reject generation and threshold value declared	Threshold Value Mn. Ore - Mn>10% Iron Ore - Fe>45% Generation - Mn Ore - Mn Content - 10-25% Iron Ore - Fe Content - 45-58%	Threshold Value Mn. Ore - Mn>10% Iron Ore - Fe>45% Generation - Unprocessed Mn Ore - Mn Content - 19.75 % Processed Mn. Ore - Mn Content - 21.91% Unprocessed Iron Ore - Fe Content - 47.17 %	Threshold value of Iron Ore : +45 % Fe ; & Mn-ore +10 % Mn; Sub-grade/MR of iron ore incidentally generated and stacked separately.
3f	Quantity of sub-grade mineral generation	Same as para 3d		Sub-grade mineral/ mineral reject are being stacked separately & MR of Mn ore is being utilized by blending based on market demand.
3g	Grade of sub-grade mineral generation	Same as para 3e		
3h	Manual / Mechanised method adopted for	Manual	Manual	-

Exploitation

	sogragating from POM			
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	1.StudyonMechanizedprocessingofManganese Ore2.Studyforbeneficiation of Low/SubGradeManganese OreandFines carried out.	Study Done	
Зј	Provision of drilling & blasting in mineral benches	Deep hole Drilling blasting Depth of hole = 6 m +10% subgrade =8.8m Spacing= 3m Burden= 2.5 m Volume= 60 CuM Specific Gravity=2.5 Tonnage/Hole= 150 Tonnes Powder factor= 6.0 kg/Tonne	As per the proposals.	
3k	Provision of mining machineries in mineral benches	Excavator (Backhoe) – 4 Nos. Dumpers – 21 Nos. Drill (100mm Dia) – 3 Nos. Dozer – 3 Nos. FE Loader - 2 Nos. Grader – 1 No.	As per the proposals.	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height: 6-8 m Bench Width: 8-10 m	Height – 6-8 m Width- 8-10m	
3m	Total area covered under excavation/pits	92.698 ha.	88.763 ha.	Development could not be. enhanced due to delay in processing of fresh Environment Clearance for enhanced production.
3n	Ore to OB ratio for the pit/mine during the year	(In-situ CuM : CuM) Bamebari – Nil Joribar – 1 : 2.15 Bonaikela – 1 : 21.03 Avg. 1 : 3.02 (Ore includes Mn. Ore & Iron Ore Mineral Rejects)	(In-situ CuM : CuM) Bamebari – Nil Joribar – 1 : 8.11 Bonaikela – Nil Avg. 1 : 8.11 (Ore includes Mn. Ore & Iron Ore Mineral Rejects)	Ore & OB Ratio increased due to less excavation of Manganese Ore & in-situ Iron Ore Mineral Rejects from the Mn. Ore Pit. (Only at Joribar Block)

30	Total area put in use under different heads at the end of year	At the end of 31.03.2025: Area Excavated:	Actual as on 31.03.2024 (in ha.)- Area Excavated:	Infrastructure – 2 ha. land is being temporarily
	5	101.138 ha	88.763 ha	utilised by NHAI
		Storage of topsoil:	Storage of topsoil: 0	at Bonaikela
		0.450 ha	ha.	Block
		Waste Dump: 57.166	Waste Dump: 46.884	
		ha	ha	Road - Widening
		Mineral Storage:	Mineral Storage:	of NH 215 by
		14.708 ha	10.347 ha	NHAI effected
		Infrastructure	Infrastructure	the increase of
		(Workshop,	(Workshop,	2.5 ha. at
		Magazine etc.):	Magazine etc.): 6.096	Bonaikela Block
		5.451 ha	ha	
		Roads: 11.420 ha	Roads: 11.482 ha	
		Railways: 0 ha	Railways: 0 ha	
		Greenbelt: 17.150 ha	Greenbelt: 21.336 ha	
		Tailing Pond: 0 ha	Tailing Pond: 0 ha	
		ETP: 0 ha	ETP: 0 ha	
		Mineral Separation	Mineral Separation	
		Plant: 0 ha	Plant: 0 ha	
		Township Area:	Township Area:	
		24.35 ha	24.35 ha	
2		Total - 231.833 ha.	1 otal - 209.258 ha.	
3p	Production of ROM	Mn. Ore	Mn. Ore	
	mineral during last live-			
	Year period, as applicable	07000	02222	Unit in Tonnoo
	Voor 2020 21	9/002	92223	Unit in Tonnes
	Year 2021-22	90400	07037 56193	
	1 cal- 2021-22 Voor 2022 22	213080	30102 92072	
	1 car- 2022-25	434600	030/3	
	rear-2023-24	470000	82883	

Solid Waste Management-Dumping

S.N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of	Separate Dumps for	As per proposals.	
	topsoil, OB & mineral	topsoil, OB and mineral		
	reject (Rule 32, 33)	reject has been proposed.		
4b	Location of topsoil,	Waste Dump -	Waste Dump -	Due to delay in
	OB & mineral reject	Bamebari – Back filling	Bamebari – 2182N-	processing of
	dumps	of quarry within the	2494N & 3047E-3433E	fresh
		extent of 2182N - 2730N	from 577 mRL to 587	Environment
		& 3047E - 3543E from	mRL (Disposed to cover	Clearance
		590 mRL to 620 mRL	up the backlog extent)	and FC.
		(Extent of Phase 1 for the		
		period 2020-23)		
			No disposal over the	
		Joribar – Dump D#1	proposed extent due to	
		12285N-12418N &	want of FC.	
		13154E-13514E from		
		516mRL to 545 mRL		
			Bonaikela Block – No	
		Bonaikela Block – 4395N	generation of waste due	
		– 4606N & 4890E -	to no development.	
		5180E from 580 mRL to	Mineral Reject Dumps-	
		600 mRL	_	

		Mineral Reject Dumps- Bamebari Block – Mn. Ore – No generation was proposed.	Bamebari Block – No generation of MR due to no operation.	
		Iron Ore – No generation was proposed. Joribar Block – Mn. Ore - 11620N- 11731N & 12456E - 12807E from 590 to 620 mRL Iron Ore - 11600N – 11697N & 12800E - 13034E from 565 to 575 mRL	Joribar Block (temporary in pit stacking due to want of Forest Clearance over proposed area) Mn. Ore – 11620 N- 11726N & 12588E- 12796E from 620 to 623 mRL Iron Ore – 11600N – 11737N & 12912E – 13046E from 558 to 577 mRL	
		Bonaikela Block – Mn. Ore - 4033N – 4193N & 4980E – 5088E from 517 to 523 mRL Iron Ore - 3842N - 3854N & 5054E - 5122E (within Ore Stack Area)	Bonaikela Block - No generation of MR due to no operation	
4c	Number of dumps within lease area and outside lease area	 Back Filling Site at Bamebari Block (Backlog area) No. at Bonaikela Block 	1 Back filling site at Bamebari Block	
4d	Location of dumps w.r.t. ultimate pit limit	Same as Point No. 4b	Same as Point No. 4b	
4e	Number of active & alive dumps	OB of Bamebari and Joribar: Proposed for backfill in Bamebari Pit. 1 No. at Bonaikela Block.	As per proposal at Bamebari Block. Dump at Bonaikela Block could not be developed due to no operation.	
4f	Number of dead dumps	Bamebari:3 Nos. Joribar: 2 Nos. Bonaikela: 2 Nos.	Bamebari:3 Nos. Joribar: 2 Nos. Bonaikela: 2 Nos.	
4g	Number of dumps stabilized	Bamebari:3 Nos. Joribar: 1 No. fully stabilized, 1 No. partially stabilized. Bonaikela: 2 Nos.	Bamebari:3 Nos. Joribar: 1 No. fully stabilized, 1 No. partially stabilized. Bonaikela: 2 Nos.	
4h	Whether Retaining wall or garland drain all along dumps are there	Joribar Block – 302m	Joribar Block – 150m	The retaining wall & garland drain of 302m were proposed near

4i	Length of Retaining wall or garland drain all along dump	Joribar Block – 302m	Joribar Block – 150m	extension of Waste Dump (D#1) at Joribar Block, but could not done due to no extension for want of Forest Clearance. 150m done for strengthening of existing walls
4j	Number of settling ponds	Nil	Nil	

Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Bamebari Block -Back filling of quarry within the extent of 2182N - 2730N & 3047E - 3543E from 590 mRL to 620 mRL (Backlog Area)	Bamebari Block – Back filling site within the extent of 2182N-2494N & 3047E-3433E from 577 mRL to 587 mRL (Disposed to cover up the backlog extent)	Less area due to no development at Bamebari Block.
5b	Area under backfilling of mined out area	Nil	0.958 ha.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No generation of Topsoil.	NIL	
5d	Total area fully reclaimed & rehabilitated	Not proposed	NIL	

Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). (Hard copy same provided)	To be submitted by 30 th Jun every year	Submitted on time	NIL
бb	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii)No. of saplings planted during the year iv)Cumulative no. of plants v) Any other specific method of rehabilitation vi)Cost incurred on watch & care during the year	Waste Dump – 1.000 ha at Joribar Block.	Nil	No Plantation at Joribar Block over proposed dump extension of Dump D#1 which has not been developed due to non-availability of Forest Clearance over the proposed area.

бс	Complianceonreclamationandrehabilitationbybackfillingi)i)Voidsavailableforbackfilling (L *B * D)ii)Voidfilledbywaste/tailingsiii)Afforestationonthebackfilled areaiv)Rehabilitationbymaking water reservoirv)v)Anyotherspecificmeansother	i) Bamebari Block - Back filling of quarry within the extent of 2182N - 2730N & 3047E - 3543E from 590 mRL to 620 mRL (Backlog Area) ii) Nil iii) 2.350 ha. iv) Nil v) Nil	 i) Bamebari Block Back filling site within the extent of 2182N-2494N & 3047E-3433E from 577 mRL to 587 mRL (Disposed to cover up the backlog extent) ii) Nil iii) 3.251 ha. iv) Nil v) Nil 	
6d	ComplianceofRehabilitationofwasteland within leasei)Afforestationii)Area rehabilitated (ha)iii)Methodofrehabilitation	There was no proposal for rehabilitation of waste land.	Nil	
бе	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring of Ambient Air Quality in core zone and Buffer zone as per the Standard. Monitoring of Quality of Surface Water, Ground Water, Drinking Water & Wastewater. Noise level to be monitored on quarterly basis. Blast Vibration: At the time of blasting.	AmbientAirQualityincorezoneisbeingmonitored twice aweekatweekatfourlocations(corezone)and3villages(bufferzone)onceinamonth.ThequalityforSurfaceWater,GroundWater,DrinkingWater &WastewateratregularintervalNoiselevelisbeingmonitoredonquarterlybasis.BlastVibration:Atthetimeofblasting.	

Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	470000 Tonnee	82885 Tonnes	No ROM is directly dispatched from the mine.
				Grade-wise

7h	Mathad of grade wise mineral corting i.e.			sorting being within area.	is done lease
70	manual or mechanical	Manual	Manual		
7c	Different grade of mineral sorted out at mines	Chemical Grade - (Mn> 48% & Fe< 4%) (+10 -75mm, +6 -25mm, -10mm) High Grade - (Mn>46%) (+10 -75mm, +6 -25mm, -10mm) Medium Grade - (Mn>35% & Mn< 26%) (+10 -75mm, +6 -25mm, -10mm) Low Grade - (Mn >25% & < 35%) (+10 -75mm, +6 -25mm, -10mm) Sub Grade / MR- (Mn> 10% & Mn < 25%) (All Size)	As per proposals		
7d	Any beneficiation process at mines	Nil	Nil		

Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil	No such proposals.	Nil	
8b	Concurrent use or storage of topsoil	No such proposals.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate Dumps for Overburden, and Mineral rejects (Mn.Ore & Iron Ore) Proposed	Carried out as per approved proposals.	
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Backfillingofexhaustedpit(BamebariBlockBacklogarea_	Backfilling is in progress over the backlog area. New dump is yet to	

		Dehebilitetion of	he developed	
		Renabilitation of	be developed.	
		inactive slopes of		
		Waste Dumps		
		(Bonaikela Block)		
8e	Phased restoration,	Bamebari Block -	Bamebari Block -	
	reclamation and	Rehabilitation of	Rehabilitation of	
	rehabilitation of lands	Dump Slopes (Back	Dump Slopes (Back	
	affected by mining	filling area)– 2.35 ha.	filling area)– 3.251 ha.	
	operations (Pits, dumps etc)	with 5875 Nos. of	with 8300 Nos. of	
		saplings.	saplings.	
			Joribar Block – The	
		Joribar Block –	D#1 dump could not	
		Rehabilitation of	be extended as	
		Dump (D#1) – 1 ha	proposed due to want	
		with 2500 Nos of	of forest clearance	
		soplings	of forest creaturee.	
		sapings.		
0.6	Dessing information on	2200 Nee of Conlines	Comied out as non	
81	Baseline information on	8300 Nos. of Saplings	Carried out as per	
	existence of plantation &	plantation during FY	proposal	
	additional plantation done	23-24		
8g	Survival rate	85%	90%	
8h	Water sprinkling on roads to	To maintain the	Carried out as per the	
	control airborne dust	ambient air quality as	proposals.	
		per the National		
		Standard		
		Stundurd.		

Compliance of Rule 45

Com	munee of Rule 16			
S.N.	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Submitting the MRs/	ARs on-time	
S.N.	Item	Details GIVEN in A.R.	Actual in field	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager – Mr. Niranjan Kumar Mining Engineer – Mr. Alok Singh Sardar	Manager – Mr. Niranjan Kumar Mining Engineer – Mr. Alok Singh Sardar	
		Geologist – Mr. Sangeeth G	Geologist – Mr. Sangeeth G	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under Mining – 88.763 ha Reclaimed / Rehabilitated – 20.815 ha. Used for Waste Disposal – 46.884 ha. Occupied by Plant, Building,	Area covered under Mining – 88.763 ha Reclaimed / Rehabilitated – 20.815 ha. Used for Waste Disposal – 46.884 ha. Occupied by Plant, Building, residential, welfare	

9d Scrutiny of Annual return on afforestation Scrutiny of Annual return on mineral reject generation (Grade & quantity) 8300 Nos. of Saplings 8300 Nos. of Saplings Survival Rate - 90% 9e Scrutiny of Annual return on mineral reject generation (Grade & quantity) 8300 Nos. of Saplings 8300 Nos. of Saplings Saplings Survival Rate - 90% Survival Rate - 90% 9e Scrutiny of Annual return on mineral reject generation (Grade & quantity) Mo Ore - Ma Content - 19.75 % Tonnes 8300 Nos. of Saplings Survival Rate - 85% 9f Scrutiny of Annual return on mineral reject generation (Grade & quantity) Production during 202:3274 - Mn. Dioxide - 957 Tonnes Actual also as per AR 9f Scrutiny of Annual return on mineral reject generation (Grade & quantity) Production during 202:324 - Mn. Dioxide - 1957.57 Appear to be correct. 9f Scrutiny of Annual return on mineral reject generation (Grade & quantity) Production during 202:324 - Mn. Dioxide - Nil 46% & above - 235% & above but below 35% - 21916.945 Tonnes Blow 25% - 6397.765 Tonnes Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Blow 25% - 6397.765 Tonnes Tonnes Appear to be correct. 21016.945 Tonnes Blow 25% - 6397.765 Tonnes Tonaes Appear to be correct.	9d Scrutiny of Annual return on afforestation Scrutiny of Annual return on mineral reject generation (Grade & quantity) Scrutiny of Annual return on afforestation Scrutiny of Annual return on mineral reject generation (Grade & quantity) Sord Rose A Bell Stord Rose A Bell Stord Rose A Bell Survival PMCP during the year - 3.251 ha. Survival PMCP during the year - 3.251 ha. 9e Scrutiny of Annual return on afforestation Stord Rose Bell Stord Rose Bell Stord Rose A Bell Survival PMCP during the year - 3.251 ha. Survival PMCP during the year - 3.251 ha. 9e Scrutiny of Annual return on mineral reject generation (Grade & quantity) Mn Ore - Mn Content - 19.75 % Content - 19.75 % Content - 19.75 % Tonnes AtR 9f Scrutiny of Annual return on ROM stock and/or graded ore ROM stock and/or graded or ROM stork and/or graded or ROM stork an							
Scrutiny of Annual return on mineral reject generation (Grade & quantity) Mn Ore – Mn Artual also as per Content – 19.75 % Closing Balance – - From unprocessed ore - 235793 Tonnes Actual also as per AR 9e Scrutiny of Annual return on (Grade & quantity) Mn Ore – Mn Actual also as per - From unprocessed ore - 235793 Tonnes AR 9e Scrutiny of Annual return on ROM stock and/or graded ore Mn Ore – Fe Content – 47.17 % - From unprocessed ore - 95952.5 Tonnes AR 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.578 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Scruting of Annual return on ROM stock and/or graded ore Appear to be correct. 9f Scruting of Annual return on ROM stock and/or graded ore Appear to be correct. 9f Scruting of Annual return on ROM stock and/or graded ore Appear to be correct. 9f Scruting of Annual return on ROM stock and/or graded ore Appear to be correct. 9f Scruting of Annual return on ROM stock and/or graded ore Appear to be correct. 9f Scruting of Annual return on ROM stock and/or graded ore Appear to be correct.	9e Scrutiny of Annual return on mineral reject generation (Grade & quantity) Mn Ore Mn Actual also as per AR 9e Scrutiny of Annual return on Grade & quantity) Mn Ore AR Actual also as per AR 9e Scrutiny of Annual return on Grade & quantity) Mn Ore AR Actual also as per AR 9e Scrutiny of Annual return on ROM of Grade & quantity) Mn Ore AR AR 9e Scrutiny of Annual return on ROM of Grade & quantity) Mn Ore AR AR 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.578 Appear to be correct. Image: Additional Ad	9d	Scrutiny of Annual return on afforestation	residential, welfare buildings & Roads – 41.928 ha. Others (Storage of Topsoil, Mineral Storage, & Green Belt) – 31.683 ha. Work done under PMCP during the year – 3.251 ha. 8300 Nos. of Saplings within lease area	buildings & Roads – 41.928 ha. Others (Storage of Topsoil, Mineral Storage, & Green Belt) – 31.683 ha. Work done under PMCP during the year – 3.251 ha. 8300 Nos. of Saplings within lease area	Survival 90%	Rate	
9e Scrutiny of Annual return on mineral reject generation (Grade & quantity) Mn Ore - Mn Mn Ore - Mn Content - 19.75 % Closing Balance - - From unprocessed ore - 235793 Tonnes AR 9e Scrutiny of Annual return on mineral reject generation (Grade & quantity) Mn Ore - Mn Closing Balance - - From unprocessed ore - 235793 Tonnes AR 9f Scrutiny of Annual return on ROM stock and/or graded ore How stock and/or graded ore Production during 2023-24 - Mn. Dioxide - Nil 46% & above - 40318.578 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Erom processed or - NIL Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Erom processed or - NIL Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Erom processed or - NIL Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Erom processed or - NIL Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Erom processed or - NIL Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Erom processed or - NIL Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Erom processed or - NIL Appear to be correct.	Sapings outside Sapings outside Sapings outside Sapings outside Say 9e Scrutiny of Annual return on mineral reject generation (Grade & quantity) Mn Ore – Mn Content – 19.75 % Closing Balance – - From unprocessed ore - 235793 Tonnes AR - From processed ore – 115229.95 Tonnes - From processed ore – 95952.5 Tonnes - 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.578 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 203-24 – Mn. Dioxide – Nil 46% & above – 40318.578 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 25% & above but below 46% – 14251.712 Tonnes 25% & above but below 25% – 21916.945 Tonnes Appear to be correct.			10899 Nos. of	10899 Nos. of	Survival	Rate	-
9e Scrutiny of Annual return on mineral reject generation (Grade & quantity) Mn Ore - Mn Content - 19.75 % Closing Balance - - From unprocessed ore - 235793 Tonnes Actual also as per AR 9f From processed ore - 115229.95 Tonnes From processed ore - 115229.95 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 - Mn. Dioxide - Nil 46% & above - 40318.578 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 - Mn. Dioxide - Nil 46% & above - 40318.578 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2057-64 above - 40318.578 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2057-64 above - 40318.578 Tonnes Appear to be correct. 9f Scruting of Annual return on ROM stock and/or graded ore Production during 25% & above but below 35%- 21916.945 Tonnes Bolow 25% - 6397.765 Tonnes Total - 82885 Tonnes Appear to be correct.	9e Scrutiny of Annual return on mineral reject generation (Grade & quantity) Mn Ore – Mn Content – 19.75 % Closing Balance – - From unprocessed ore - 235793 Tonnes Actual also as per AR 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.578 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.578 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.5778 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.5778 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.5778 Tonnes Appear to be correct. 9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 25% & above but below 35%- 21916.945 Tonnes Appear to be correct.			lease area.	lease area.	83%		
9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.578 Tonnes 35% & above but below 46% - 14251.712 Tonnes 25% & above but below 35%- 21916.945 Tonnes Below 25% - 6397.765 Tonnes Total – 82885 Tonnes Appear to be correct. Closing Stock as on 31.03.2024 Mn. Dioxide – Appear to be correct.	9f Scrutiny of Annual return on ROM stock and/or graded ore Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.578 Tonnes 35% & above but below 46% - 14251.712 Tonnes 25% & above but below 35%- 21916.945 Tonnes Below 25% - 6307 765 Tonnes	9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mn Ore – Mn Content – 19.75 % Closing Balance – - From unprocessed ore - 235793 Tonnes - From processed ore – 115229.95 Tonnes Iron Ore – Fe Content – 47.17 % - From unprocessed ore – 95952.5 Tonnes From processed ore – NIL	Actual also as per AR			
1.402 Tonnes	Total – 82885 Tonnes	9f	Scrutiny of Annual return on ROM stock and/or graded ore	Production during 2023-24 – Mn. Dioxide – Nil 46% & above – 40318.578 Tonnes 35% & above but below 46% – 14251.712 Tonnes 25% & above but below 35% – 21916.945 Tonnes Below 25% – 6397.765 Tonnes Total – 82885 Tonnes Closing Stock as on 31.03.2024	Appear to be correct. Appear to be correct.			

		1522.040		
		Tonnes		
		35% & above but		
		below 46% -		
		810.642 Tonnes		
		25% & above but		
		below 35%-		
		18604.362 Tonnes		
		Below 25% -		
		351022.952 Tonnes		
		Total – 371961.398		
		Tonnes		
9g	Scrutiny of Annual return on	Ex-Mines Price -	Appears to be correct	
-	sale value, Ex. Mine price &	Rs.		
	production cost	5948.18 /T (=Cost		
	-	of Production)		
9i	Scrutiny of Annual return on	Rs. 12,86,15,652/-	Appears to be correct	
	fixed assets			
9k	Scrutiny of Annual return on	Excavator	Appears to be correct	
	mining machineries	(Backhoe) – 3		
	-	Nos.		
		Dumpers – 21		
		Nos.		
		Drill (100mm Dia)		
		- 1 Nos.		
		Dozer – 1 Nos.		
		FE Loader- 1 Nos.		
		Crader 1 No		

Date:19.02.2025

Sujit Kumar Jena Junior Mining Geologist