

MCDR-MiFL/Min/7/2024-JBP-IBM-RG-JBP  
MINERALS DEVELOPEMENT AND REGULATION DIVISION  
MCDR INSPECTION REPORT  
Jabalpur regional office

I/31930/2024

S.N.	Particulars	Details
1	Name of the Mine	Jamli Chhoti & Arandi Falia Mn Mine
	Date of Inspection:	28/2/2024
	Name of Inspecting Officer	Mr. Madhavrao Sabre, Sr. Mining Geologist
2	Accompanying Officials :	Mr. S.K Joshi , Lessee representative, Mr. Raval Darshan Pravin Bhai – Mine Manger, Mr. Bhavesh Panchal-Geologist
3	Total Lease Area (Ha) with breakup of Non-forest and forest land	15.26 Ha. Forest land- Nil  Non-forest – 15.26 Ha.
4	Mine code	40MPR639001
5	IBM Registration Number under rule 45 of MCDR,1988	IBM/5228/2011
6	Name of the Lease, Address, Phone, email and fax number	M/s S.R.Ferro Alloys Pliot No. 101-102, Industrial Area, Meghnagar Dist.- Jhabua (M.P) Pin Code-457779
7	Village	Jamli Chhoti & Arandi Falia
8	Taluka/Mandal	Jobat
9	District	Alirajpur
10	Pin code	457990
11	State	M.P.
12	Post Office	Udaigarh
13	Nearest Police Station	Meghnagar
14	Nearest Railway Station	Meghnagar
15	Date of Grant of Mining Lease	28-01-2014
16	Date of Execution	28-01-2014
17	Date of opening of Mine	16-01-2020
18	Date of First Renewal, if applicable and its period & expiry	NA
19	Date of Second Renewal, if applicable and its period & expiry	NA
20	Date of submission of renewal application if Mining Operations are continuig under deemed extension	-NA
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Brajendra Sharma Address –9, Siddheswar Colony, Jhabua. Phone-07390284010 Date of appointment – 16-01-2020 Email- srfa2007@yahoo.com
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Brajendra Sharma Address –9, Siddheswar Colony, Jhabua. Phone-07390-284010 Email-srfa2007@yahoo.com

23	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Raval Darshan Pravinbhai Address – Vill-Jamli Chhoti & Arandi Falia P.O- Jobat Dist.-(M.P) Phone -9737545539 Email- srfa2007@yahoo.com Mo. No. 9737545539 Date of appointment-25/08/2023
24	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine.	Mr. Raval Darshan Pravinbhai Address – Vill-Jamli Chhoti & Arandi Falia P.O- Jobat Dist.-(M.P) Phone -9737545539 Email- srfa2007@yahoo.com Mo. No. 9737545539 Date of appointment-25/08/2023
25	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Mr. Bhavesh Panchal Address: Vill-Jamli Chhoti & Arandi Falia– P.O. Udaigarh, Dist. Alirajpur ( M.P). 4857990 Phone --07390284010 Qualification – M.Sc.Geology Total experience – 2 yrs Email- srfa2007@yahoo.com Date of appointment – 22-07-2022 Mo. No. 8839020404
26	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	MP/Alirajpur/Manganese/RMP-51/2022- 23 , dated 26/04/2023 Plan Proposal Period 2023-24 TO 2027-28
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	MP/Alirajpur/Manganese/RMP-51/2022- 23 , dated 26/04/2023 Plan Proposal Period 2023-24 TO 2027-28-
29	Mineral(s) granted in lease and approved for Mining	Manganese
30	Method of Mining (Opencast, Underground)	Opencast
31	Category (Fully Mechanized, Others or Manual)	Other than Fully Mechanized
32	Captive/Non-Captive	Non-Captive

### Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	26	nil	Violation pointed out.
1b	Exploration over lease area for Geological axis 1 or 2.	-	nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	-	nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	-	13.01 Ha	
1e	Balance reserves as on 01.04.2023		155935	
1f	General remarks of Inspecting officer on geology, exploration etc.	Locally, the sanctioned ML area has the geology of Alirajpur terrain, which is bounded by the Precambrian Banded Gneissic Complex (BGC) and PreCambrian Aravallis. The surface and subsurface exploration proved the mineralization for the manganese ore (Psilomelane), the host rock is phyllites and Quartzitic - phyllites. The geological appraisal has been evaluated with earlier reported exploration, thus carried out exploration proved Mn Ore continuity depth wise and laterally and presently		

	MCDR-MiFLOMn/7/2022-IBP-IBM-ROJBP	<p>pit bottom is showing the mineral continuity up to MRL 350m/369m and is supposed to continue. The ore bearing formation is dipping 40 - 75 towards the South to Southwest direction and running in NE to NNE to SW to WSW direction with following litho unit set up: Quartz - Phyllite and Phyllitic-Quartzites along with Manganese Ore band --- Base unknown --- Manganese Ore Formation: Disseminated form Association: Associated with Phyllite and phyllitic Quartzites Streak: Grayish black Hardness: Between 5-6 Soiling property: It soils to finger Name of the Mn ore: Psilomelane. Presence of Graphite is also visible in the lease area.<b>No exploration work carried out by lessee, violation pointed out For rule 12 (4).</b></p>
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#### Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	In south western part of the lease. Pit no. 16	Work done as per Mining plan	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Yes	As per mining plan	
2c	Stripping ratio or ore to OB ratio	1:1.63	1:2.1	
2d	Quantity of topsoil generation in m <sup>3</sup>	Nil	NA	
2e	Quantity of overburden generation in m <sup>3</sup>	31884 M3	750 m <sup>3</sup>	Violation pointed out
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	There is shortfall for development as work not done against the proposal. It was proposed to generate 31884 M3 OB but only 750 m <sup>3</sup> OB generated for which <b>Violation pointed.</b>		

#### Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed (22-23)	19446	1596 T	Violation pointed
3c	Recovery of Salable/usable mineral from ROM production	100	100	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	0	0	
3f	Quantity of sub-grade mineral generation	0	0	
3g	Grade of sub-grade mineral generation	0	0	
3h	Manual/Mechanized method adopted for segregation from ROM	ROM Sorting	ROM sorting is done by manual means	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	nil	nil	
3j	Provision of drilling & blasting in mineral benches	NA	nil	

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3k	Provision of mining machineries in mineral benches				
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	As per mining plan		
3m	Total area covered under excavation /pits	2.25	2.20		
3n	Ore to OB ratio for the pit/mine during the year	1:1.63	1:2.1		
3o	Total area put in use under different heads at the end of year	2.392	2.307		
3p	Production of ROM mineral during last five-years period, as Applicable	2017-18		-	Violation pointed for less production in year 2022-23
		2018-19		-	
		2019-20		-	
		2020-21	16611	-	
		2021-22	15008	12958.630 T	
		2022-23	19446	1596.0 T	
3q	General remarks of inspecting officer on method of mining etc	Violation pointed for less production and development.			

#### **Solid Waste Management-Dumping**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Yes	Separate dumping of OB done.	
4b	Location of topsoil, OB & mineral reject dumps	Yes given	As per mining plan	
4c	Number of Dumps within lease area and outside lease area	1	1	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	N2487570 to N 2487500, E 457000 TO 457050	As per mining plan	
4e	Number of Active & Alive dumps	1	1	
4f	Number of dead dumps	Nil	nil	
4g	Number of dumps established	Nil	1	
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Garland drain all along the lease area constructed.	
4i	Length of Retaining wall or garland drain all along dump	yes	450 m	
4j	Number of settling ponds	Nil	Nil	
4k	Specific commends of inspecting officer on waste dump management	Small OB dump is there in the lease area. Less development work is taken up . Garland drain is there all along the lease area.		

#### **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	Not proposed	Backfilling work not started as full extraction of mineral not achieved.	
5b	Area under backfilling of mined out area	Not proposed	Not in proposal	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	Not in Proposal of	

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5d	Total area fully reclaimed & rehabilitated	Nil	Mine recently opened.
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mine opened on 16.01.2020. Backfilling work not started as full extraction of mineral not achieved.	

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**Progressive Mine Closer Plan**

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule 26(2). Details should be given in the format as given in Annexure-20	Yes	Yes submitted	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	Nil	Nil	
	ii) Afforestation done (ha)	1 ha	0.04 Ha	
	iii) No.of saplings planted during the year	500	Nil	Violation pointed
	iv) Cumulative no. of plants	Nil	Nil	
	v) Any other specific method of rehabilitation	Nil	nil	
	vi) Cost incurred on watch & care during the year	-	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L*B*D) ii) Void filled by waste/tailings iii) Afforestation on the backfilling iv) Rehabilitation by making water reservoir v) Any other specific means	Nil	Mine started recently on 16.01.2020 So no voids available for backfilling	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	Yes	Plantation not done as per proposal.	Violation pointed
6e	Compliance of Environment monitoring (core zone & buffer zone)	Yes	complied	
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	During the reporting year Plantation not taken up so violation pointed.		

**Mineral Conservation**

S.N.	Item	Proposals	Actual Work	Remarks
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7a	ROM mineral dispatch of grade wise sorting within lease area	Yes	Grade wise sorting within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	manual	
7c	Different grade of mineral sort out at mine	Blew 25 % Mn	Below 25% Mn is produced from Mine.	
7d	Any beneficiation process at mines	Nil	nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Grade wisorting within lease is done area by manual means.		

### Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Not proposed	Not proposed in reporting year	
8b	Concurrent use or storage of topsoil	Not proposed	Not proposed in reporting year	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Yes	Done as per proposals	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NA	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Yes	Plantation not done	Violation pointed.
8g	Survival rate	75%	Nil	
8h	Water sprinkling on roads to control airborne dust	Yes	Done regularly	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Plantation work not taken up. Water sprinkling on roads to control airborne dust done by 10000 L tanker.		

### Compliance of Rule 45

S.N.	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns	AR submitted on 29.06.23, further Monthly returns submitted on time.	

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9b	Scrutiny of Annual return of information on Mining Engineer, Geologist and Manager	Yes furnished. Mining engineer: Mr. Raval Darshan Pravinbhai Geologist: Mr. Bhavesh Panchal	Appointed. Form C, submitted.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Nil	scrutinized Under O/c working :0.96 Ha, waste disposal: 1.1 Ha, occupied by roads :0.11 ha, Garland drains: 0.077 Ha.
9d	Scrutiny of Annual return on afforestation	Violation pointed	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or grade ore	Below 25% Mn, Stock 1307.250 T at Mine site	Nil
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Rs 3649.21 /Tonne	No exploration work is taken up , but exploration cost of Rs 170.67/ tonne is furnished. Violation pointed for same.
9i	Scrutiny of Annual return on Fixed assets	Rs 1623715/-	Nil
9k	Scrutiny of Annual return on mining Machineries	Backhoe of 1cum :1Nos Water tanker of 10000L :1Nos Dumpers,19 tonner : 03 Nos	Nil

Violation Pointed : **For Rule 11(1) of MCDR 2017**

1. Only 1596 tonnes of Manganese ore production is raised during 2022-23 against the proposed 19446 tonnes.
2. It was proposed to produce 31884 m<sup>3</sup> of Overburden during 2022-23 but only 750 m<sup>3</sup> is produced.
3. It was proposed to drill 26 core boreholes but no exploration work taken up till date.
4. Plantation has not been done.

Violation Pointed : **For Rule 12(4) of MCDR 2017**

5. Entire lease The entire lease area has not been explored fully to identify the potentially mineralized area and thus detailed exploration over the potentially mineralized area has not been carried out in the manner specified in the Minerals (Evidence of Mineral Contents) Rules within a period of five years from the date of commencement of these rules.

Violation pointed : **For Rule 45(7) of MCDR 2017**

6. No exploration work is taken up , but exploration cost of Rs 170.67/ tonne is furnished