

MCDR INSPECTION REPORT**1.0 GENERAL**

SN	Particulars	Details
1	Name of inspecting office & designation	Shri Ejaj Ahmad Khan, Assistant Mining Geologist, Indian Bureau of Mines, Hyderabad
2	Accompanying Mine Official with Designation	Shri Savapure Gajanan, Mining Engineer
3	Date of inspection	11-12-2024
4	Name of the Mine	Jamdapur Manganese Mine
5	Total Lease Area (Ha) with breakup of Non-forest and forest land	78.68 ha
6	Mine Code	40APR01015
7	IBM Registration Number under rule 45 of MCDR, 1988	IBM/1156/2011
8	Name of the lessee, Address, phone, email and fax number	S.Y. Minerals Pvt. Ltd. Plot No 20 & 21, G.S, Estate, Adilabad, Telangana-504001 Contact: 7396185408, Email: syminerals2009@gmail.com
9	Village	Jamdapur
10	Taluka / Mandal / District	Mandal & District-Adilabad
11	State	Telangana
12	Post office & PIN	Jamdapur -504001
13	Nearest police station	Adilabad
14	Nearest Railway station	Adilabad
15	Date of Grant of Mining Lease	11-02-2008
16	Date of Execution & Date of expiry	01-07-2008 & 30-06-2028
17	Date of opening of Mine	17-04-2009
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 continuing under deemed extension	NA
21	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	SAMRIDH KHANDELWAL 1101, Roshni Co-op Housing Society, Sector 24, Nerul 15th Road, Bandra west, Mumbai – 400050 Cell: 9920230609 , E-mail- adilabadsy@gmail.com
22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Nil
23	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Nil
24	Name of the Mining Engineer, Qualification and total	Savapure Gajanan Village- Kamta, Mandal Jainath

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	experience with Address, phone, email, fax number and date of appointment in mine	Dist. Adilabad -504309 (TS) Contact No: 7396185408 Email: gajanan.gaja1996@gmail.com Date of Appointment : 01-12-2021
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	YES
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modified Mining plan approved Vide letter No AP/ADB/MP/Mn-20/Hyd dated:01-05-2012 Period: 01-04-2011 to 31-03-2014
27	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Previous Review of Mining plan approved Vide letter No AP/ADB/MP/Mn-20/Hyd dated: 09-09-2019 Period: 01-04-2019 to 31-03-2024 Latest Review of Mining plan approved Vide letter No AP/ADB/MP/Mn-20/Hyd dated: 17-01-2024 Period: 01-04-2024 to 31-03-2029
28	Mineral(s) granted in lease and proved for mining	Manganese
29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	A-Mechanised
31	Captive/Non Captive	Non Captive
32	Existing EC Limit and validity	5000 tonnes up to life of mine
33	Status of Financial Assurance as per rule 27 of MCDR, 2017	Financial assurance of Rs. 14,05,000 /- is submitted which is valid up to 31/03/2029

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

1.0 Exploration

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
1a	Backlog of previous year	No proposal	Nil	The entire potentially mineralised area has been explored under G1 level.
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Under G1 Category: 8.25 Ha Non- Mineralised: 70.43 Ha	
1c	Exploration Agency & Expenditure in lakh Rupees during the	Not mentioned in the approved document	–	

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	year			
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	
1e	Balance reserves as on 01.04.2024 (in Tonnes)	As per approved RMP documents dated 17.01.2024, Resource and reserve estimation as on 01.08.2023 Under (111): 21641.25 Tonnes Under (121): 0 Tonnes Under (122): 0 Tonnes Under (211): 4378.68 Tonnes	Under (111): 21540 Tonnes Under (121): 0 Tonnes Under (122): 0 Tonnes Under (211): 4378.68 Tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	Geology of the lease area are belonging to of thin bands of shaly/silicious limestone of Penganga Formation which consists of shaly/silicious limestone, irregular bands of manganese with dip 4 to 10 degree towards NNW. Manganese ore occurs as thin bands with more or less regulars manner below siliceous limestone.		

2.0 Development

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
2a	Location of development w.r.t. lease area (Range in UTM/Local Coordinate/Plot No./Location)	E 241674-241750 N 2183501-2183548	As proposed co-ordinates.	No deviation noticed.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil: 01 no. Overburden: 01 no. Mineral/Ore: 01 no.	Topsoil: 01 no. Overburden: 01 no. Mineral/Ore: 01 no.	
2c	Stripping ratio or ore to OB ratio	1 : 4.9	1:5.8	
2d	Quantity of topsoil generation in m ³	1486 m ³	140 m ³	Due to less production in F.Y-2023-24.
2e	Quantity of overburden generation in m ³	4313 m ³	411 m ³	Due to less production in F.Y-2023-24.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mining operation has been carried out as per approved Review Mining plan.		

3.0 Exploitation

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
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3a	Number of pits proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	2629 tonnes	211 tonnes	Deviation noticed and Violation issued.
3c	Recovery of saleable/usable mineral from ROM production	100%	100%	Low grade Mn ore Blended with high grade Mn ore
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	NA	
3f	Quantity of sub-grade mineral generation	No proposal	NA	
3g	Grade of sub-grade mineral generation	No proposal	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	ROM is being segregated manually.	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No	No	
3j	Provision of drilling & blasting in mineral benches	Jackhammer drilling machine of 33 mm diameter proposed to be used & blasting is being carried out using ANFO with detonators	Drilling & blasting operations are been carried out as per proposals	
3k	Provision of mining machineries in mineral benches	Yes, proposed.	Using Combination of excavators and tippers for production and development.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	3 meter height of OB benches proposed	Yes 3 meter height maintained for using excavator.	
3m	Total area covered under excavation/pits	0.18 ha	Within proposal excavation work have been carried out.	
3n	Ore to OB ratio for the pit/mine during the year	1 : 5.1	1 : 6	
3o	Total area put in use under	Pit- 1.03 ha	Pit- 1.58 ha	

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	different heads at the end of year	Waste/reject- 0 ha Road – 0.31 ha Other- 0.12 ha Reclaimed 6.46 ha	Waste/reject- 0.0 Road – 0.25 ha Other- 0.02 ha Reclaimed 4.88ha	
3p	Production of ROM mineral during last five-year period, as applicable (in Metric Tonnes)	F.Y. 2019-20: 3188 Metric Tonnes F.Y. 2020-21: 2859 Metric Tonnes F.Y. 2021-22: 2974 Metric Tonnes F.Y. 2022-23: 2909 Metric Tonne F.Y. 2023-24: 2629 Metric Tonnes	F.Y. 2019-20: 179 Metric Tonnes F.Y. 2020-21: 512 Metric Tonnes F.Y. 2021-22: 834 Metric Tonnes F.Y. 2022-23: 1318 Metric Tonne F.Y. 2023-24: 211 Metric Tonnes	Less production. Violation pointed out for less production during F.Y -2023-24
3q	General remarks of inspecting officer on method of mining etc.	Open cast mining method with Mechanised equipment like Excavator, Jackhammer drill has been employed.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	Yes	Separate stacking of mineral and topsoil have been done	
4b	Location of topsoil, OB & mineral reject dumps (Range in UTM/Local Coordinate/Plot No./Location)	In-between UTM co-ordinates Mineral/Ore: N2183466 to N2183486 and E241364 to E241398 Topsoil Stack: N2183452 to N2183468 and E241428 to E241466	Same was observed during inspection.	
4c	Number of dumps within lease area and outside lease area	No dump	Two temporary small waste dumps were observed beside pits within Lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 14)	No proposal, waste will be utilized for backfilling of mined out area	Waste is being utilized for backfilling of area	
4e	Number of active & alive dumps	No proposal	Nil	

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4f	Number of dead dumps	No proposal	Nil	
4g	Number of dumps stabilised	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer	Waste and the topsoil have been utilized for backfilling and topsoil spread over backfilled pit for cultivation.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Concurrent backfilling has been proposed.	Same was observed during inspection	
5b	Area under backfilling of mined out area	1.18 ha	0.45 ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Yes, top soil is to be spread in a proper manner over backfilled area so that the land is restored to its near to the original condition	Top soil generated during the year is 140 m ³ , during the year reclamation of 0.45 ha has been carried out	
5d	Total area fully reclaimed & rehabilitated	1.18 ha of area proposed to be reclaimed	0.45 reclamation has been carried out	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Nil		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23. Details should be given in the format as given in Annexure-20.	As per rule 26(2), lessee has to submit the annual report before 1st day of July of every year.	Submitted in 25-06-2024	

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6b	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	Area proposed for rehabilitation-1.18 ha Afforestation not proposed on mined out area. Mined out area proposed to restore by doing agriculture activity after reclamation. Plantation of 140 plants is proposed in barrier zone.	Rehabilitation done- 0.45 ha Afforestation not carried out on mined out area. Mined out area is restored by doing agriculture activity after reclamation. Plantation of 140 plants has done in barrier zone.	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	i) Voids available for backfilling (L X B X D) 0.18 ha ii) Void filled by waste/tailings -0.18 ha iii) Afforestation on the backfilled area - 0 iv) Rehabilitation by making water reservoir -0 v) Any other specific means – Reclamation & rehabilitation of land by levelling with top soil & make it suitable for cultivation- 1.18 ha	i) Voids available for backfilling (L X B X D) 0.45 ha ii) Void filled by waste/tailings -0.45 ha iii) Afforestation on the backfilled area - 0 iv) Rehabilitation by making water reservoir -0 v) Any other specific means – Reclamation & rehabilitation of land by levelling with top soil & make it suitable for cultivation- 0.45 ha	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No proposal	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Monitoring is to be done	Monitoring is being carried out	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Nil.		

7.0 Mineral Conservation

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM generated is to be sorted and sized manually & dispatched	Sizing, sorting & grading work is being carried out.	

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	Manual	
7c	Different grade of mineral sorted out at mines	Grade wise sorting and sizing is to be carried out manually to obtain required grade	Sorting & sizing carried out manually	
7d	Any beneficiation process at mines	No proposed	nil	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Nil.		

8.0 Environment

SN	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	Top soil proposed to be removed and stack it separately for utilisation.	Top soil is being utilized for restoration of land	
8b	Concurrent use or storage of topsoil	Proposal to restore the top soil temporarily and to be utilized for spreading over backfilled area	Top soil is being stacked separately and utilized over backfilled area	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Yes	Separate dumping of waste and stacking of mineral and topsoil have been carried out.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Yes, Overburden waste used for backfilling of mined out pit.	Same was noticed during inspection.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Mined out area is being backfilled by waste and levelled. The top soil to be spread on top layer and restore to ground level bring utilized.	-do-	
8f	Baseline information on existence of plantation & additional plantation done	Plantation of 140 sapling is proposed to	-do-	

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	(Rule 44)	planted during year 2023-24		
8g	Survival rate	--	40%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling arrangement to be done to suppress the dust generation	Same was noticed during inspection.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Mined out area is being backfilled, levelled and make it suitable for agriculture.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted up to – Nov 2024 A.R. submitted up to- Year 2023-24	Return are submitted in time

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer- Savapure Gajanan Geologist- Aglave Suchit	Mining engineer & Geologist were present during inspection	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Pit- 1.58 ha Reclaimed 4.88 h Waste/reject- 0.0 Road – 0.25 ha Other- 0.02 ha	Area under Pit- 1.58 ha Reclaimed 4.88 h Waste/reject- 0.0 Road – 0.25 ha Other- 0.02 ha	
9d	Scrutiny of Annual return on Afforestation	140 plants	Near about 50 plants were observed.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral reject – nil	The information furnished in the Annual returns submitted for the year 2023-24 is found correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Below 25% Mn 229.63 tonnes Between 25 to 35% Mn 277.09 tons	-do-	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine Price/Sale Value below 25% mn is 4374.66 & Between 25 to 35% Mn is Rs 8550.35 Production cost Rs	-do-	

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		4295 per tonne		
9i	Scrutiny of Annual return on fixed assets	Rs. 1000000/.	Rs. 1000000/.	
9k	Scrutiny of Annual return on mining machineries	Back hoe of 0.9 cum, Tractor 40 HP & Air compressor of 25 cum/Mn	Back hoe of 0.9 cum, Tractor 40 HP & Air compressor of 25 cum/Mn	Verified from logbooks.

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out: - **Rule 11(1), 31(4), 34A (1) of MCDR 2017**

Ejaj Ahmad Khan

(Assistant Mining Geologist)