

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/JBP/LST-230

Mine code : 38MPR18135

- (i) Name of the Inspecting Officer and ID No. : **G007) RAGHUBIR SHARAN GARG**
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine Official with Designation : Shubhash Kumar Agrawal , Lessee and Shri Neeraj Agrawa
- (iv) Date of Inspection : 02-DEC-21
- (v) Prev.inspection date : 17-MAR-20

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SAKARI**
- (b) **Registration NO.** : **IBM/1/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : JABALPUR
Village : SAKARI
Taluka : PANAGAR
Post office : CHHATARPUR
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 19-MAR-97
- (h) Weekly day of rest : SAT
2. Address for correspondence : SHRI SUBHASH AGRAWAL
HOUSE NO. 1396, ADHERTAL, JABALPUR (M.P.) 482004
3. (a) Lease Number : MPR2304
- (b) Lease area : 12.71
- (c) Period of lease : 50
- (d) Date of Expiry : 18-MAR-47
4. Mineral worked : LIMESTONE Main
MANGANESE ORE Associated
IRON ORE Associated

5. Name and Address of the

Lessee : SUBHASH AGRAWAL
HOUSE NO. 1396, ADHERTAL,
JABALPUR MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : SUBHASH AGRAWAL
ADHARTAL JABALPUR MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	02-JAN-06
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	13-NOV-09
	:	Mining Scheme rule 12 MCDR1988	29-JAN-13
	:	MP modif under 17(3) MCR 2016	22-FEB-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	16 bore holes, 8 boreholes in 2017-18 and 8 boreholes in 2018-19	Not done	As per approved MPLN, there were proposal of exploration of total 16 borehole, 8 BHLs each in 17-18 and 18-19 which have not been carried out so far. V/L of such deviation was pointed out based on last insp. vide letter dated 05/05/20 followed by SCN dated 31/07/20. Lessee assured to office to carry out the backlog of exploration with submitting copy of work order vide for exploration vide letter dated 29/08/20, but it was found that such work had not completed so far. V/L issued 7/12/21
1b	Exploration over lease area for geological axis 1 or 2	Nil against reviewing year. However total 16 boreholes and 2 trenches were proposed to explore entire area upto nG1 level	Not done	Violation pointed out
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	NA	-

1d	Balance area to be explored to bring Geological axis in 1 or 2	Total 16 boreholes and 2 trenches were proposed to explore entire area upto nG1 level. By the end of 2018-19	Not done	violation pointed out
1e	Balance reserve as on 01/04/20	Reserves in tones-Proved (111)1628641- Limestone, Iron ore - 180515 & Manganese ore 81585	Reserves in tones-Proved - (111) 1 5318421- Limestone, Iron ore - 143930 & Manganese ore 52491	

1f	General remarks of inspecting officers on geology, exploration etc	-	-	Although there were proposal of exploration to carry out total 16 borehole, 8 BHLs each in 17-18 and 18-19 which have not been carried out so far. V/L of such deviation was pointed out based on last insp. vide letter dated 05/05/20 followed by SCN dated 31/07/20. Lessee assured to office to carry out the backlog of exploration with submitting copy of work order for exploration vide letter dated 29/08/20, but it was found that such work had not been started so far. V/L issued 7/12/21
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	It was proposed to work towards SE to SW by formation of 3-4m bench height from 403mRL to 400mRL as earmarked in Plate-7 for the year 2019-20	Mine working was carried out as per the proposed locations	-
		It was proposed to work towards SE to SW by formation of 3-4m bench height from 403mRL to 400mRL as earmarked in Plate-7 for the year 2019-20		
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Benches in Top soil - Nil, Overburden Benches -01, Limestone, Iron Ore & Mn Ore - 1 bench of 4 to 6 m height	Bench working carried out as per the proposals	-
2c	Stripping ratio or ore to OB ratio	Proposed as 1:0.60	1:0.18	-

2d	Quantity of topsoil generation in m3	Not Proposed as there is no top soil.	NA	-
2e	Quantity of overburden generation in m3	5912CUM	9056CUM	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			More or less development work is as per proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Limestone, Iron Ore & Mn production proposed from respective pits of 03 nos.	Mine working were carried out more or less as per proposals. Trial pit proposed near BP no. 10 found digged and converted into a small pit was not proposed in the mining plan. Pit was found extended on Khasara No. 106 outside of the lease area to an extent of about 30mX20m area. Fact has been brought to the notice of State Govt. by sending a copy of violation letter.	Deviation noticed and accordingly pointed out in violation letter.About illegal mining state government informed vide letter dated 07/12/2021
3b	Quantity of ROM mineral production proposed	Limestone - 40,066 tonnes Iron Ore- 24,389 tonnes & Mn-10,044 tonnes	Limestone - 29236.tonnes Iron Ore16585.0 tonnes & Mn- 5940.0 tonnes acheived in 2020-21	Moreor less as per proposal , less than 30% deviation.
3c	Recovery of sailable/usable mineral from ROM production	Limestone recovery of 95%, Iron ore- 90% & Mn ore- 45% proposed	More of less acheived as per the proposals	No remarkable deviation.
3d	Quantity of mineral reject generation	Proposed 285CuM	Not generated during the year	-

3e	Grade of mineral rejects generation and threshold value declared.	Above the prescribed threshold value & below the cut of grade	Not applicable	-
3f	Quantity of sub grade mineral generation.	285 CuM during the year 2019-20	NA	There is no reporting of sub grade mineral generation.
3g	Grade of sub grade mineral generation	Above threshold & below the cut of proposed	Reportedly there is no generation of sub grade mineral.	-
3h	Manual / Mechanised method adopted for segregating from ROM	Manual sizing & sorting proposed	Manual sizing & sorting as per proposed	No deviation observed.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Not done	No deviation
3j	Provision of drilling and blasting in mineral benches	There is proposal of drilling with 110mm dia Wagon drill and blasting with blast design 1mx1.5mx3.0m(B xSxD)	Reportedly at present drilling and blasting is not carried out by the lessee as explosive license has not been acquired so far probably due to not receiving of NOC from Panchayat.	Contractual blasting is most probably on practice. After getting explosive license, regular blasting as per requirement may be carried out.
3k	Provision of mining machineries in mineral benches	Back Hoe Ex-210, 0.9 Cum capacity TATA Dumper model 2515, 10 T capacity Tractor mounted Air Compressor Jack Hammer with Drill rods Water Tanker - 10 KL	Back Hoe Ex-210, 0.9 Cum capacity TATA Dumper model 2515, 10 T capacity Tractor mounted Air Compressor Jack Hammer with Drill rods Water Tanker -10 KL	No deviation

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB bench height as 2-3 m & Bench height in mineral proposed as 4-6mts	At some extent bench height is not regular due to quality constraints	-
3m	Total area covered under excavation/pits	2.51 Ha area was proposed in approved MMP period i.e. 2017-18 to 2021-22	1.990Ha as on 01.04.2021, less excavated area due low production during the year 2020-21	there is no remarkable deviation.
3n	Ore to OB ratio for the pit/mine during the year.	Proposed as 1:0.30	Acheived as 1:0.17	-
3o	Total area put in use under different heads at the end of year	As per the previous approved MMP Pits-2.51hect, Waste Dump. 1.524hect, Mineral Storage- 1.17hect Road-0.50hect Green Belt- 1.38hect	As per the AR2020-21 Pits-1.99hect Waste dump-1.019 Mine Office, Road etc. - 0.50hect Green Belt-1.055 Mineral storage 1.7hect.	In account of mineral storage larg area of lease covered. Dispatch of mieral from the lease area is too low incomprision to the production. About there is mineral stock of about 3.90lakh tonne of limestone/manganes e ore and iron ore.

3p	Production of ROM mineral during the last five year period as applicable	2016-17-: Limestone- 13297 MT, Iron Ore-10080 MT & Mn ore-68580MT 2017-18-: Limestone- 39224 MT, Iron Ore-29178 MT & Mn ore-0MT 2018-19-: Limestone 21758tonne, Iron ore 35596tonne, and Manganese ore 18257tonne total 75611tonne, 2019-20: Limestone - 40066tone, Iron Ore 24389tonne and Mangnese ore - 10044tonne total 74499tonne, 2020-21: Limestone - 40721tone, Iron Ore 22960tonne and Mangnese ore - 7517tonne total 74499tonne,	2016-17-: Limestone- 9000. MT, Iron Ore-0 MT 2017-18-: Limestone- 22100 MT, Iron Ore-0 MT & Mn ore-0 MT 2018-19-: Limestone- 17374 MT, Iron Ore-6680 MT & Mn ore-14832. MT 2019-20 : Limestone- 28089 MT, Iron Ore-362 MT & Mn ore-8322 MT 2020-21 : Limestone- 29236.000 MT, Iron Ore- 16585 MT & Mn ore-5940 MT	Against the total targeted production of 74499 tonne 51,000tonne mineral produced from the mine. In general there is low mineral dispatch incomprison to production.
3q	General remarks of inspecting officers on method of mining etc.		Adopted method of mining is almost suitable for the type of deposit and level of production required. Mineral dispatch from the mine is very low resulting there are huge mineral stock lies in the lease area .	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping/stacking for IB waste & subgrade ore on earmarked locations.	Area occupied by dumping & stacking are in addition to the proposed area for the purpose. Almost reportedly 3,90,000 tonne mineral stacked within the lease area. Further there is a new dump of about 70mX50mX10-12m of overburden other than the prioposal between BP.No. 7 & 8 were observed.	Violation of rule 11(1) pointed out.
4b	Location of topsoil, OB and mineral reject dumps	Considering no top soil,topsoil dump was not proposed. Total four temporary overburden dumps, one on western part of the lease area and rest three on Northern part of the lease area were proposed	Considering no top soil,tyopsoil dump was not proposed. Total four temporary overburden dumps, one on western part of the lease area and rest three on Northern part of the lease area were proposed but, in fact dumping of overburden were not seen in the proposed site may be due dispute with the land owner and ultimately a new waste dump has been developed nearby area of BP No. 7 & 8	voilation pointed out.
4c	Number of dumps within lease area and outside of lease area	Total four temporary OB dumps were proposed.	One dump covering 70mX50mX10-12m were seen between BP. No 7 & 8	violation pointed out.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	All the four dumps were proposed outside of the ultimate pit limit.	Only existing waste dump is in area within ultimate pit limit located near BP no. 7 7 8 spreadover an area of 70mX50mX10-12m	Deviation pointed out
4e	Number of active and alive dumps.	Four Waste dumps	Only one	-
4f	Number of dead dumps.	none	None	-
4g	Number of dumps established.	Not proposed as thereis no old dump.	NA	-

4h	Whether Retaining wall or garland drain all along dumps are there.	proposed	prepared	-
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not available	-
4j	Number of settling ponds	Not proposed	1	-
4k	Specific comments of inspecting officer on waste dump management			There is a waste dump of 70mX50mX10-12m needs teracing . During inspection fact brought to notice of lessee . lessee assured to take care related with dump management.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Not Proposed	None of the pits area is partly or fully mineral exhausted.	
5b	Area under backfilling of mined out area	Not Proposed	None of the area backfilled in ML area so far	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	There is no top soil within the proposed five year working.	Not Applicable	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	None of area fully reclaimed & rehabilitated	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	None of pits area are fully mineral exhausted so far & therefore the scope of reclamation by backfilling doesn't exist at present.
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Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted before 1st July of every year	For year 2020-21 PMCP report not submitted within time limit as per the provisions of Rule 26 of MCDR,2018	Violation u/r 26(2) of MCDR,17 pointed out & issued.
6b	Area available for rehabilitation (ha) .	Not Proposed	No area is available for rehabilitation.	
6c	afforestation done (ha).	75 saplings proposed to be planted	50 saplings planted with 70% survival rate	
6d	No. of saplings planted during the year	75 saplings proposed to be planted	50 saplings planted with 80% survival rate	
6e	Cumulative no .of plants	NA	NA	
6f	Any other method of rehabilitation	Not proposed .	Not Applicable	
6g	Cost incurred on watch and care during the year	Not Proposed	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Not Proposed.	NA	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not Proposed	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not Proposed	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not Proposed	NA
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not Proposed	NA
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed	NA
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not Proposed	NA

6p	Compliance of environmental monitoring (core zone and buffer zone)	Periodical Air, Water, Noise monitoring Proposed	Yes, Compliances of environmental monitoring is being carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Implementation of PMCP like plantation on barren area seen.. Periodic Env. monitoring is being carried out by outsourced consultant.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes, ROM mineral dispatch, grade wise sorting within the lease area proposals made in the approved document.	Yes this being carried out in the ML area regularly after excavation from the respective benches from the proposed locations.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Proposed for manual sizing & sorting grade wise.	Yes, sizing & sorting of ore are done through manual means.	
7c	Different grade of mineral sorted out at mines.	Manual sorting for different grade of Iron & Mn ore proposed	Carried out as per the given proposals	Yes as per the proposals in the approved document, the same is being followed.
7d	Any beneficiation process at mines .	No beneficiation process proposed	Not done	Manual sizing & sorting proposed in approved document

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Proposed for systematic and scientific method of mining operations, including manual sizing & sorting.	Lessee following the system of operation with all out effort to achieve the maximum output.	Mining operations are being carried out systematically.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals given	NA	Top soil generation not proposed in approved document.
8b	Concurrent use or storage of topsoil	Not Proposed	Nil	Top soil generation not proposed in approved document.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for IB/OB developed out of ROM earmarked	As per the approved document Separate dump for OB/IB out of ROM ear marked.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No specific proposals given in the document as such, since there is no present scope.	No scope to undertake such restoring work in the mine in the present situations.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not Proposed	Presently scope doesnot exisits.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposals of 75 saplings to be planted were given	50 saplings planted during the year	No information furnished in approved document about cumulative plantation.
8g	Survival rate	Proposed as 80%	Proposed as 80%	
8h	Water sprinkling on roads to control airborne dust	Yes provisions made for sprinkling of water on the haul roads to suppress the dust.	Lessee provided with vehicle for water sprinkling in the haul roads, other areas of the movements of the vehicles to suppress the dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is not much satisfactory as plantation not done up to that extent. Hence, it was instructed to propose at least 100 sapling/year. stablisation of new dump.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. submitted upto- October, 21 A.R. submitted upto- 2020-21	Annual Return for the year 2020-21 submitted within time limit.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	given	Gurmeet Singh Dhillon, Mining Engineer was appointed	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	given	Open cast workings=1.99 ha, waste disposal=1.019Ha Infrastructure=0.50 ha, Green Belt=1.055Ha	About 1.7hect area of lease area occupied by mineral stack. Area of stack gradually increases as dispatch of mineral from the lease area is comperatively less.
9d	Scrutiny of Annual return on afforestation	Plantation detail given	-	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	285CUM	Not generated during the year	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Different position of opening stocks, despatches, etc are given separately for limestone, Iron ore & Manganese Ore	The given information is appropriate, and satisfactory.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given	1. Information with respect to NMET not given. 2. For the calculation of cost of production royalty has not been taken into account in the plea that there is no dispatch of mineral during the year. 3. Depriciation cost is taken a notional amount (Rs. 0.19 per tonne while there are Front end loader , dumpers tanker etc.	About NMET violation pointed out.

9h	Scrutiny of Annual return on fixed assets	given	1..Depriciation cost is taken a notional amount(Rs. 0.19 per tonne while there are Front end loader , dumpers tanker etc.
9k	Scrutiny of Annual return on mining machineries	given	NA

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	07-DEC-21			
MCDR17	Rule 11(4)	07-DEC-21			
	Rule 26(2)	07-DEC-21			
	Rule 27(2)	07-DEC-21			
MCDR17	Rule 31(4)	07-DEC-21			
MCDR17	Rule 33	07-DEC-21			
MCDR17	Rule 45(7) (a)	07-DEC-21			

Date :

(RAGHUBIR SHARAN GARG)

Indian Bureau of Mines