

I/12254/2023

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-83

Mine code : 38MPR18041

- (i) Name of the Inspecting : S025) IBRAHIM SHARIEF
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 19-MAY-22
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : KACHHAGAWAN (8.30HECT)
- (b) Registration NO. :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : KACHHGAWAN
Taluka : VIJRAGHAVGARH
Post office : DIWAN SIDING
Pin Code : 483880
FAX No. : 07674-232580
E-mail : snsahr@sancharnet.in
Phone : 07674- 232042, 232089
- (f) Police Station :
- (g) First opening date : 01-JAN-83
- (h) Weekly day of rest : WED
2. Address for : SHRI MADAN LAL GROVER
correspondance CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0205
(b) Lease area : 8.3
(c) Period of lease : 40
(d) Date of Expiry : 03-MAY-22
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : MADAN LAL GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : MADAN LAL GROVER
CIVIL LINES KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	11-JUL-96
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	20-OCT-04
		Mining Scheme rule 12 MCDR1988	31-AUG-09
		Mining Scheme rule 12 MCDR1988	31-MAY-12
		MP review under 17(1) MCR 2016	31-MAR-17

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There is no exploration proposal during the year	No exploration carried out during the year	
1b	Exploration over lease area for geological axis 1 or 2	G1 scale of exploration to be carried out	Exploration had been done up to G2 scale level so far	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee has to carry out exploration	Lessee carried out the exploration	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire mineralised area has been explored in G1 scale	Lease area has been explored in G2 scale	Exploration is preposed in the recnt RMP submitted.
1e	Balance reserve as on 01/04/20		1.25 million tonnes as on 01.04.2022	
1f	General remarks of inspecting officers on geology, exploration etc			The lease area from a part of the Semri Group and comprises rocks belonging to Rohtas formation of lower Vindhyan system consists limestone which is grey, light gray, fine to Medium Grained and Slightly fractured. limestone is soft and stratified. The limestone is bedded with intercalations of argillaceous material and inter bedded with shale. The general strike of limestone is N65°E- S65°W and the amount of dip is about 5° to 45° with average dip of 25° towards North westerly.

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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Mining operations are proposed to be carried out on Western and Northern side of lease area in between the grids N2652770 to N2652960 and E 447200 to E 447360 by maintaining bench height of 6 meters	Mining operations had been carried out in between the grid lines N2652590 to N2652920 and E 447200 to E 447360 by maintaining bench height of more than 6 meters and at some places about 27 meters bench height	Violation was pointed out in this regard.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden and Mineral benches is to be maintained separately	Overburden and Mineral benches are found maintained separately	
2c	Stripping ratio or ore to OB ratio	1 : 0.65	1 : 0.2	
2d	Quantity of topsoil generation in m3	4500 cum	9100 cum	Thickness of top is more than the anticipated
2e	Quantity of overburden generation in m3	5900 cum	5075 cum	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Quarry was developed by maintaining bench of more than 6 meters as proposed and deviation in excavatio than the propositals is observed, hence violation was pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit is proposed for production	Production is being carried out from One Pit only	
3b	Quantity of ROM mineral production proposed	50600 Tonnes	49930 Tonnes	

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3c	Recovery of sailable/usable mineral from ROM production	100%	100%
3d	Quantity of mineral reject generation	No generation of Mineral reject is anticipated	No Mineral reject generated
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Nil
3f	Quantity of sub grade mineral generation.	No generation of Sub grade ore is anticipated	No sub grade generated
3g	Grade of sub grade mineral generation	Not applicable	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted for segregation of mineral	As proposed
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal of carrying out any beneficiation study	No beneficiation study carried out
3j	Provision of drilling and blasting in mineral benches	Deep hole Drilling with spacong of 2.5 meters and Burden of 2.0 meters and Blasting with High Explosives is proposed to excavate mineral	Drilling & Blasting is being carried out in mineral bench as proposed
3k	Provision of mining machineries in mineral benches	Excavator- 1.2 cum- 1 No., Dumper- 10 Tonne- 3 No., 16 Tonnes-2 No. Rock Drill- 01 No.	Above machineries are found deployed in the lease

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes boom length of 1.2 cum capacity excavator is suitable for bench height of 6 meters.	Yes suitable	
3m	Total area covered under excavation/pits	3.10 Ha	2.862 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.65	1 : 0.2	
3o	Total area put in use under different heads at the end of year	5.75 Ha area is proposed for mining and allied activities	About 5.75 Ha is utilised for Mining and allied activities	
3p	Production of ROM mineral during the last five year period as applicable	2017-18- 50005 2018-19- 50400 2019-20- 50040 2020-21- 50040 2021-22- 50600	2017-18- 8400 2018-19- 44860 2019-20- 49930 2020-21- 49757 2021-22- 49930	in Tonnes
3q	General remarks of inspecting officers on method of mining etc.			Fully mechanised method of mining deploying HEMM is being carried out by maintaining bench height of more than 6 meters and width less than height. Proposal is given in the present mining plan submitted to correct the bench height of 6 meters and width more than the height

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Only waste/ OB dump is maintained as there is no proposal of mineral reject generation. TOp soil generation is very small and being utilised for plantation	Only waste/ OB dump is maintained	
4b	Location of topsoil, OB and mineral reject dumps	OB/waste generated is proposed to be stacked temporarily on Southern side of lease area	OB/ waste generated is found backfilled in between co-ordinates N2652890 to N2652710 and E 447260 to E 447350, the existing dumps on	Violation was pointed out in this regard.
4c	Number of dumps within lease area and outside of lease area	One dump on Southern side within lease area	One dump on Southern side within lease area is observed.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	WItHIn in UPL as it is temporary dump	WItHIn in UPL	The dump will be rehandled to backfilling of mined out area
4e	Number of active and alive dumps.	One active dump	One active dump	
4f	Number of dead dumps.	No dead dumps	Nil	
4g	Number of dumps established.	No proposal to establish dumps	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal of constructing retain wall during the year	No retaining wall constructed	
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	Nil	
4j	Number of settling ponds	No proposal of creating settling pond during the year	Nil	

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4k	Specific comments of inspecting officer on waste dump management			Waste generated is being backfilled. Existing waste dump is of temporary in nature and is proposed to rehandle for backfilling.
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Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Entire mineral to be excavate before backfilling.	Backfilling has been carried out during the year 2021-22 in mined out area.	
5b	Area under backfilling of mined out area	No proposal	About 0.6 ha is backfilled	Backfilling is carried out in mined out area as entire lease area is mineralised
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of reclamation and rehabilitation and use of Top soil to restore the area.	No area is restored up to surface level till date hence no top soil is utilised after backfilling.	
5d	Total area fully reclaimed and rehabilitated	No proposal of reclamation and rehabilitation during the year	Nil during the year	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			About 0.6 Ha area is backfilled in mined out area during the year.

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP to be submitted on time as per statute	Annual report on PMCP was not submitted	Violation was pointed out and complied later on
6b	Area available for rehabilitation (ha) .	No proposal of rehabilitation during the year	Nil	
6c	afforestation done (ha).	No proposal of afforestation on mined out benches during the year 2021-22	Nil	
6d	No. of saplings planted during the year	Not applicable	nil	
6e	Cumulative no .of plants	Not applicable	Nil	
6f	Any other method of rehabilitation	No such method of rehabilitation is proposed	Nil	
6g	Cost incurred on watch and care during the year	Not applicable	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No area available for backfilling	About 0.6 ha area is backfilled during the year	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal of backfilling	About 0.6 Ha mined out area is backfilled during the year	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposal of Afforestation on backfilled area	Nil	

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6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal of Rehabilitation is made during the year	No area is matured for Rehabilitation	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No such proposal is made during the year	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No waste land is available for afforestation	Nil	Entire lease area is mineralised
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No such proposal Rehabilitation of waste land	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not applicable	Nil	No waste land is available
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of Air, water, Noise to be carried out	Quarterly monitoring of Air, water, Noise is being carried out regularly.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			About 0.6 HA area is being backfilled so far, and the area is not matured for rehabilitation

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM ore produced shall be dispatched	Graded ore of 49743 Tonnes dispatched during the year.	

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised method to be adopted for sorting of ore	As proposed	
7c	Different grade of mineral sorted out at mines.	Cement Grade, SMS Grade	Cement Grade, SMS Grade	
7d	Any beneficiation process at mines .	No such proposal of beneficiation study is made during the year	No study carried out during the year	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Low grade ore is being blended with High grade ore for optimum utilisation of ore

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil is proposed during the year	Only waste dumps is maintained The Top Soil generated is being utilised for plantation	
8b	Concurrent use or storage of topsoil	Proposal is to utilise top soil generated for plantation purpose	Top soil generated is being utilised for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Only waste dumps is to be maintained	Only waste dumps is maintained	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There is no proposal to backfill the mined out area with overburden	Waste generated during the year has been utilised for backfilling	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	There is no proposal of reclamation and rehabilitation of of Land affected by Pits	Backfilling is done in mined out area	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 No. of sapplings proposed to be planted during the year	125 no. of sapplings found planted during the year	
8g	Survival rate	No proposal	About 80%	
8h	Water sprinkling on roads to control airborne dust	It was proposed to suppress the dust with water sprinkling on Haul road, working area	Water sprinkling on Haul road, working area is being carried out regularly to suppress the dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is being carried out to improve the aesthetic beauty of in and around lese area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual return shall be submitted on time as per statute	Monthly and Annual return is being submitted on time.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge : KRISHNA MURARI Geologist in charge : Shubham Mishra	Above persons have been employed in mines.	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1. Covered under current (O/C) Workings : 2.862 Ha 2. Used for waste disposal : 1.0 Ha 3. Occupied by plant, buildings, residential, welfare buildings & roads : 0.55 Ha 4. Reclaimed/Rehabilitated : 0.532 Ha 4. Other : 0.644 Ha 5.	Area as reported is more or less utilised for mining and allied activities.
9d	Scrutiny of Annual return on afforestation	135 sapplings planted during the year	Above plantation is observed in the lease area
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	20.345 Tonnes	20.345 Tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine Price and Cost of production : Rs. 315, Cost of production : Rs. 272.42	As reported by lessee
9h	Scrutiny of Annual return on fixed assets	Rs. 1671000	As reported by lessee
9k	Scrutiny of Annual return on mining machineries	Front end loader : 1.2 cum- 1 No., Dumper- 16 Tonne- 2 No., 10 Tonne-2 No.	Above machines found deployed in the mine.

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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)	11-JUL-22			
MCDR17	Rule 26(2)	11-JUL-22			
MCDR17	Rule 31(4)	11-JUL-22			
	Rule 45(7)	11-JUL-22			

Date :**(IBRAHIM SHARIEF)**

Indian Bureau of Mines