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MCDR inspection REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LIMESTONE-346

Mine code : 38MPR35319

- (i) Name of the Inspecting : **C004**) **ROBERT SIMON C**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Sankata Prasad Dwiwedi, Shri Nithin Nath Pande
Official with
Designation
- (iv) Date of Inspection : 23-AUG-23
- (v) Prev.inspection date : 20-SEP-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JURA 29.163HA.**
- (b) **Registration NO.** : **IBM/15145/2013**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : SATNA
Village : JOORA
Taluka : MAIHAR
Post office : JOORA
Pin Code :
FAX No. : -
E-mail : -sankathadwivedi@gmail.com
Phone : 9425811881
- (f) Police Station :
- (g) First opening date : 31-JAN-09
- (h) Weekly day of rest : SUN
2. Address for : P.O.GORAIYA
correspondance : DIST. SATNA
MP
3. (a) Lease Number : MPR2269
(b) Lease area : 29.16
(c) Period of lease : 30
(d) Date of Expiry : 12-JAN-39
4. Mineral worked : LIMESTONE Main

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5. Name and Address of the

Lessee : SANKATHA PRASAD DWIVEDI
VILLAGE GORAIYA DISSTT.
SATNA,M.P. - SATNA MADHYA
PRADESH
Phone:-
FAX :-

Owner : SANKATHA PRASAD DWIVEDI
P.O. GORAIYA DISTT. SATNA
MP SATNA MADHYA PRADESH
Phone: -
FAX : -

6. Date of approval of Mining : MP review under 17(1) MCR 2016 28-AUG-19
Plan/Scheme of Mining

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Not proposed	NA	
1b	Exploration over lease area for geological axis 1 or 2	Not Proposed	Entire lease area already explored in G1.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	
1e	Balance reserve as on 01/04/20	Not specified	111-2548556 T	
1f	General remarks of inspecting officers on geology, exploration etc			The lease area from a part of the Bhandar Group and comprises rocks belonging to Nagod limestone which is grey, light gray, fine to Medium Grained and Slightly fractured. Limestone is stratified. The limestone is bedded with intercalations of argillaceous material and inter bedded with shale. In general strike of limestone is WNW-ESE with significant plunging of strike towards south. Entire lease area already explored in G1.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	E 487945 to E 488106m and N- 2683688 to N- 2683816.	E 487945 to E 488106m and N- 2683688 to N- 2683816.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in top soil ,OB and Mineral	Separate benches maintained	
2c	Stripping ratio or ore to OB ratio	1:0.23	1:0.20	
2d	Quantity of topsoil generation in m3	5100	4950	
2e	Quantity of overburden generation in m3	11853	9800	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The development of the quarry is done towards north and west of quarry. The working were being done in area between co-ordinate E 487945 to E 488106m and N- 2683688 to N- 2683816. The 1st bench is in soil and 2nd in Shaly/Reject limestone. The OB soil were being removed in top bench of average thickness 1.0m and then shaly/Reject limestone of thickness 1.5m. The width is 6m towards working face. The 3rd and 4th bench was in Limestone inter bedded with mud stone / Shale.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
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3a	Number of pit proposed for production	01	01
3b	Quantity of ROM mineral production proposed	49530	47165
3c	Recovery of sailable/usable mineral from ROM production	100%	100%
3d	Quantity of mineral reject generation	No mineral reject generation was proposed	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Nil
3f	Quantity of sub grade mineral generation.	NA	NA
3g	Grade of sub grade mineral generation	NA	NA
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed	Nil
3j	Provision of drilling and blasting in mineral benches	Proposed 2.9m depth holes	Extraction of mineral is being carried out by the drilling and blasting
3k	Provision of mining machineries in mineral benches	For drilling jack hammers and rock drills were proposed	As per proposal

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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Soil bench 1.0m, bench in reject stone 1.5m and two mineral benches of 3.0m each height.	As per the proposal	
3m	Total area covered under excavation/pits	Not specified	2.95 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.23	1:0.20	
3o	Total area put in use under different heads at the end of year	3.15 ha	3.15 ha	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 T 49320T 2019-20 49590T 2020-21 49590T 2021-22 49590T 2022-23 49530T	49500 2018-19 2019-20 2020-21 2021-22 2022-23-	Nil 2000 T 3000 T 12560 T 47,165 T
3q	General remarks of inspecting officers on method of mining etc.			Mining method is being carried out through HEMM with the Combination of loaders and tippers and with short hole blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed	Separate dumping of OB done	

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4b	Location of topsoil, OB and mineral reject dumps	OB dump: Latitude (dd:mm:ss.ss) 24:15:57.24, 24:15:58.55 Longitude (dd:mm:ss.ss) 80:52:57.79 80:52:59.81	Latitude (dd:mm:ss.ss) 24:15:57.24, 24:15:58.55 Longitude (dd:mm:ss.ss) 80:52:57.79 80:52:59.81	
4c	Number of dumps within lease area and outside of lease area	01	01	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and alive dumps.	01	01	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	110 garland drain proposed	140 garland drain maintained	
4i	Length of Retaining wall or garland drain all along dumps	110 garland drain proposed	140 garland drain maintained	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management			The generated OB is being dumped and plantation done on it.

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.	Full extraction proposed before backfilling	Full extraction adopted before backfilling	
5b	Area under backfilling of mined out area	0.03 ha	0.03 ha	

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5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Stacking proposed	Stacking done & some porting is being utilised for plantation	
5d	Total area fully reclaimed and rehabilitated	0.03 ha	0.03 ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Area is fairly new and backfilling is being done in 7.5 m barrier.

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).	Yes	Submitted	
6b	Area available for rehabilitation (ha) .	0.03	0.03	
6c	afforestation done (ha).	0.03 ha	0.03 ha	
6d	No. of saplings planted during the year	Not proposed	200 nos	
6e	Cumulative no .of plants	Not proposed	Not available	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	NA	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.03 HA	0.03 HA	

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6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	0.03 HA	0.03 HA	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Done at regular intervals.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP operations viz backfilling, plantations were being carried out in 7.5 m barrier zone.

 Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatch	ROM mineral dispatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Not specified	Cement grade-47165.00 T	
7d	Any beneficiation process at mines	Not Proposed	Not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM mineral dispatch after grade wise sorting within lease area for Cement grade-47165.00 T is done.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	Separate removal and utilization of topsoil done	
8b	Concurrent use or storage of topsoil	For plantation	For plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump for overburden waste rock proposed	Separate dump for overburden waste rock maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Separate dumps for overburden waste rock proposed	Dumpind of OB done	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Area is not mined out to carry backfilling within lease.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not proposed	Nil	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Yes	Water sprinkling done.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is maintained by carrying out plantation.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given	Returns submitted online.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	Manager : Nitin Nath Pandey Mining Engineer in charge: Nitin Nath Pandey Geologist in charge : Brajnandan Mishra	

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited and abandoned by opencast (O-C) mining 0.000 0.000 0.000 (ii) Covered under current (O-C) Workings 0.000 2.950 2.950 (iii) Reclaimed-rehabilitated 0.000 0.030 0.030 (iv) Used for waste disposal 0.000 0.080 0.080 (v) Occupied by plant, buildings, residential, welfare buildings and roads 0.000 0.120 0.120 (vi) Used for any other purpose (specify)Green Belt 0.000 0.240 0.240 (vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000	Work done under progressive mine closure plan is not given.	Violation pointed out under Rule 45(7).
9d	Scrutiny of Annual return on afforestation	Given	200 saplings planted.	
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	Given	Cement grade limestone closing stock-5702.879 T	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price- Rs.300 Cost of production per tonne of ore-mineral produced- Rs.270.03	
9h	Scrutiny of Annual return on fixed assets	Given	Value of Fixed Assets* (Rs. 251107)	
9k	Scrutiny of Annual return on mining machineries	Given	Type of machinery Capacity of each type of machinery Unit (in which capacity is reported) No. of machinery Electrical Nonelectrical (specify) Used in opencast/underground (specify) AIR COMPRESSOR 0.300 CUM/MN 1 Non Electrical Opencast BLAST HOST DRILL 33.000 MM 1 Non Electrical Opencast DUMPER 10.000 TONNE 1 Non Electrical Opencast	The details of machinery reported is inconsistent with the actual ones existed in the lease area and as per approved mining plan. Hence Violation pointed out under rule 45(7) of MCDR 2017.

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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

Date :**(ROBERT SIMON C)**

Indian Bureau of Mines