

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/SATNA/LIMESTONE-346

Mine code : 38MPR35319

- (i) Name of the Inspecting : **NQ08**) **KATHROJU NAVEEN**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Shri Sankata Prasad Dwiwedi, Shri Nithin Nath Pande
Official with
Designation
- (iv) Date of Inspection : 02-DEC-22
- (v) Prev.inspection date : 08-AUG-19

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

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

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	Not Applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	24,56,596 T	25,87,536 T	Asper approved RMP, as on 01/04/2019 reserves in the mine was 26,05,096tonne. Exploited reserves as per the annual returns 2019-20... 2000T 2020-21....3000T 2021-22.....12560T Balance reserves available as on 01.04.2022 are 25,87,536T
1f	General remarks of inspecting officers on geology, exploration etc			Entire area was explored by state Geology department in G scale

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Development was proposed between E488100- E487900 N2683600- N2683800	Not upto the proposal	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in top soil ,OB and Mineral	As per the proposal	
2c	Stripping ratio or ore to OB ratio	1:0.88	1:0.59	the stripping ratio varied due tothe development and production were not upto the proposed.
2d	Quantity of topsoil generation in m3	5300 Cu.m Top soil generation proposed	Nil	
2e	Quantity of overburden generation in m3	12159 Cu.m	only 3000Cu.m of OB handled	Developmemnt was very less due to poor demand and mine was temporarily discontinued from 31/12/2020 to 31/12/2022
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Developmemnt was very less due to poor demand and mine Was temporarily discontinued from 31/12/2020 to 31/12/2022

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	

3b	Quantity of ROM mineral production proposed	49590T of limestone production proposed during the RY	12560 T of limestone produced against the proposed.	Violation was issued under Rule 11(1) of MCDR 2017.
3c	Recovery of sailable/usable mineral from ROM production	80% recovery of mineral from ROM ore	The 3000 Cu.m of OB and 12560T of Limestone production reported during the RY	
3d	Quantity of mineral reject generation	No mineral reject generation was proposed	As proposed no reject generation found	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable	
3f	Quantity of sub grade mineral generation.	No proposal was given for sub grade mineral generation	Sub grade mineral not found	
3g	Grade of sub grade mineral generation	Not proposed	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Segregation from ROM is not required and not proposed	Not required	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	As there is no mineral reject or sub grade mineral generation proposed Analysis or beneficiation study not required and not proposed	No such Analysis or beneficiation study was conducted.	
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 And loading operation was proposed manually	Manual loading with 10T dumper is being used reportedly	
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	Additional area of 2.18 ha proposed during the proposal period.	As reported only 0.22 ha of additional area brought to use due to less quantity of Limestone excavated during 2019-20, 2020-21, 2021-22	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.88	1:0.59	
3o	Total area put in use under different heads at the end of year	Total 2.99 ha area proposed to brought under different heads of mining during the proposal period .	As the limestone extraction not carried out upto the proposed only 0.22 ha of additional 1 area brought under use	Besides production OB generation was also reportedly very low hence land use observed very low.
3p	Production of ROM mineral during the last five year period as applicable	2018-19 49500 T 2019-20 49320 T 2020-21 49590 T 2021-22 49590 T 2022-23 49530 T	2018-19...Nil 2019-20.....2000 T 2020-21.....3000 T 2021-22.....12560 T 2022-23.....47,165 T	

3q	General remarks of inspecting officers on method of mining etc.	Very less production reported during 2021-22 for which violation has been issued
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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 proposed	As per the proposal	
4b	Location of topsoil, OB and mineral reject dumps	Top soil stacking and OB backfilling	Top soil generation not reported OB generated is being used foe backfilling the 7.5 m barrier zone	
4c	Number of dumps within lease area and outside of lease area	One	Generated OB is being used for the backfilling of the 7.5m barrier zone	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	One	As per proposal	
4e	Number of active and alive dumps.	None	Generated OB is being used for backfilling	
4f	Number of dead dumps.	one	Old Dump	Plantation was observed on the old dump and its nearby areas.
4g	Number of dumps established.	One	Old dump established by stabilizing it	Plantation was done on the established dump
4h	Whether Retaining wall or garland drain all along dumps are there.			

4i	Length of Retaining wall or garland drain all along dumps			
4j	Number of settling ponds	Not Proposed	Not applicable	
4k	Specific comments of inspecting officer on waste dump management			The generated OB is being used for backfilling dump was stabilized 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.	Backfilling proposed in 2019-20 for the excavated barrier	Backfilling observed in the area excavated which is beyond the UPL	
5b	Area under backfilling of mined out area	NA	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Stacking was proposed	Stacking was proposed some porting is being utilised for plantation	
5d	Total area fully reclaimed and rehabilitated	Not Proposed	Nil	As the mine development and production were not upto the peroposed bakfilling was also low.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			As the mine development and production were not upto the peroposed bakfilling was also low.

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	submitted	
6b	Area available for rehabilitation (ha) .	Not proposed	Nil	
6c	afforestation done (ha).	Not proposed	Nil	
6d	No. of saplings planted during the year	Not proposed	Nil	
6e	Cumulative no .of plants	Not proposed	Nil	
6f	Any other method of rehabilitation	Not proposed	Nil	
6g	Cost incurred on watch and care during the year	Not proposed	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	2000 Cu.m	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Not proposed	Nil	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed	Nil	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not proposed	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	Not proposed	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not proposed	Nil	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mining Operations were on low scale due to poor demand and covid 19 during the proposal period hence backfilling was also observed very low.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	49590 T Limestone production proposed	only 12560 T of Limestone production reported.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	Nil	
7c	Different grade of mineral sorted out at mines.	Not Proposed	Nil	
7d	Any beneficiation process at mines .	Not Proposed	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			All mineral extracted is of Cement grade limestone and not required grade wise sorting. Very less quantity of ROM extracted for which violation has issued under rule 11(1)

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	5300 Cu.m top soil generation proposed	Reportedly no topsoil generation found	
8b	Concurrent use or storage of topsoil	Stacking of 5300 Cum was proposed	No topsoil generation or handling reported during 2021-22	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	waste /OB generated is proposed for stacking	No fines or rejects were neither proposed nor reported	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Not proposed	Not applicable	
8g	Survival rate	Not proposed	Not applicable	
8h	Water sprinkling on roads to control airborne dust	Not proposed	Not applicable	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Lease area is surrounded by the agricultural land and old dump was observed as stabilized and plantation found around the dump and along the road in 7.5Mbarrier.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Annual returns submitted on time	Monthly returns for the months of Dec 2021...01 day Jan 2022.....14 days Feb 2022.....01 days lately submitted	rupees 1,60,000/- fine was imposed for the latesubmisiion of the said returns
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge Tushar Pandey/ N.N. Pandey Geologist in charge B.N.MISHRA		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given Open cast workings 2.655 Used for waste disposal 0.322 Others Non potential : 0.350		
9d	Scrutiny of Annual return on afforestation	no of trees planted with in the laease area 100		
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No mineral reject details furnished	No mineral reject genration found in mines	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Cement grade limestone Opening stock : 0 Production : 12560 Closing stock : 0	production achievement is low due to poor market as expressed by lessee	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price 300	Cost of production 247	

9h	Scrutiny of Annual return on fixed assets	Nil	
9k	Scrutiny of Annual return on mining machineries	Two No of Dumper of 10t each	Mining hauling truck details furnished and the loading was by manual method.

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	14-DEC-22			
MCDR17	Rule 26(2)	14-DEC-22			
MCDR17	Rule 29	14-DEC-22			
MCDR17	Rule 45(5) (k	14-DEC-22			

Date :

(KATHROJU NAVEEN)

Indian Bureau of Mines