

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/STN/LST-150

Mine code : 38MPR35229

- (i) Name of the Inspecting : **G007**) **RAGHUBIR SHARAN GARG**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Shrawan Kumar pathak, Lessee
Official with
Designation
- (iv) Date of Inspection : 05-MAR-22
- (v) Prev.inspection date : 06-MAR-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMASTHAN**
- (b) **Registration NO.** : **IBM/10429/2012**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : SATNA
Village : RAMASTHAN
Taluka : RAGHURAJ NAGAR
Post office : RAMASTHAN
Pin Code : 485001
FAX No. : N. A.
E-mail : sanjeevpathak2312@gmail.com
Phone : 9425172692
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest :
2. Address for : SHRI SHRAWAN KUMAR PATHAK
correspondance
3. (a) Lease Number : MPR1501
(b) Lease area : 32.37
(c) Period of lease : 20
(d) Date of Expiry : 21-JUL-19
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : SHRAWAN KUMAR PATHAK
 SEMARIA CHOWK, SATNA
 MADHYA PRADESH
 Phone:N. A.
 FAX :N. A.

Owner : SHRAWAN KUMAR PATHAK
 SEMARIA CHOWK SATNA
 MADHYA PRADESH
 Phone: N. A.
 FAX : N. A.

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	08-JAN-01
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	15-JUN-09
		Mining Scheme rule 12 MCDR1988	02-MAR-11
		Mining Scheme rule 12 MCDR1988	17-APR-15
		MP modif under 17(3) MCR 2016	18-MAR-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4 boreholes of with 200m totoal meterage to find out second band of limestone may probably persist in depth after parting of about 20-25m.	Not carried out	Entire lease area explored under G1 Axis. For Conformation of second band of limestone if any in depth exploration wasproposed. Mine was under suspension for want of star rating templet.
1b	Exploration over lease area for geological axis 1 or 2	4 no. of 50 deep each boreholes	Not carried out.	Violation of rule 11(1) pointed out.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Proposed	Not Applicable as additional exploration not carried out.	No deviation
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	Not Applicable	No deviation
1e	Balance reserve as on 01/04/20	As per approved document and production proposal for subsiquent years given in approved mining plan reserves as on 01.01.2022 there should be 1789457 tonne reserves underG1 level	2585375tonne under G1 level	Nominal production were achieved during 2020-21 (only 3745tonne) and in year there was no production from the mine as mining operation were suspended by the IBM for want of StarRating Template.

1f	General remarks of inspecting officers on geology, exploration etc	Nominal production were achieved during 2020-21 (only 3745tonne against 390688 targetted production) and in year 2021-22, there was no production from the mine as mining operation were suspended by the IBM under rule 35 of MCDR,2017. Entire mining lease area is explored under G1 level. Keeping the targated production at the rate of 0.4million tonne per year there is reserves for another 6 years whereas he lease period is valid for another 7 years.
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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	<p>Proposal were given in two places details are as follows</p> <p>First Location Quarry 1 N2722300 to N2722450 & E496950 to E497050 and</p> <p>Second location Quarry 2 at N 2722850 TO N 2723050 & E 496050 TO E 496200</p>	Nominal production of 3745tonne achived which was reportely achived from location one.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed one bench of 2.5m height in top soil/ overburden and two benches of 6.0m height in limestone	Mine was found closed as per suspension order under rule 35 of MCDR,2017. Separate benches in overburden and mineral were observed	Separate benches in overburden and mineral were observed.
2c	Stripping ratio or ore to OB ratio	1:0.10	Actual production was nominal which were achieved without removal of overburden.	Nominal production were achived without removal of any OB.
2d	Quantity of topsoil generation in m3	1562cum	None	Nominal production were achived without removal of any OB.
2e	Quantity of overburden generation in m3	14473cum	Nil	Nominal production were achived without removal of any OB.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Nominal production were achived without removal of any OB. Mine was closed as per suspension order under rule 35 of MCDR,2017. For less development violation of rule 11(1) pointed out.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	1	Nominal production of 3745tonne achieved against proposal of 390688tonne.
3b	Quantity of ROM mineral production proposed	390688tonne	3745tonne	Nominal production achieveent.
3c	Recovery of sailable/usable mineral from ROM production	100%	As per proposal	Entire produce as ROM is usable.
3d	Quantity of mineral reject generation	Mineral rejectnot envisagd	Nil Mineral reject generation	There is no mineral reject generationin the mine.
3e	Grade of mineral rejects generation and threshold value declared.	Not Proposed	Not applicable as there is no mineral reject generation in the mine	Not applicable as there is no mineral reject generation in the mine
3f	Quantity of sub grade mineral generation.	sub grade mineral envisagd	Nil sub grade mineralt generation	There is no sub grade mineral generationin the mine.
3g	Grade of sub grade mineral generation	Not Proposed	Not applicable as there is no sub grade mineral generation in the mine	Not applicable as there is no sub grade mineral generation in the mine
3h	Manual / Mechanised method adopted for segregating from ROM	Segrigation of mineral from ROM ore is not proposed	Segrigation of mineral from ROM ore is not required as entire ROM ore is usable.	Entire ROM ore is usable.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Benificiation study not proposed	Not carried out	Not required.
3j	Provision of drilling and blasting in mineral benches	Proposed with 2.5-3.0mX 3-3.5mX6.0-7.0mblast design	As per proposal drilling & blasting carried out. practice adopted by the lessee for mineral extraction.	As per proposal drilling & blasting practice adopted by the lessee for mineral extraction.

3k	Provision of mining machineries in mineral benches	Hyd. Excavator BACK HOE 2.3cum 2nos Dumper 10tonner 2nos. Dumper 30tonner 12nos Rock Drill 100mm 01no. Rock breaker 01no.	1.74cum 01No TIPPER 8cum 10nos. ROCK DRILL 115mm 01no. DOZER 189 HP 01no.	In this case one Hyd. Shovel as well as 30 tonner dumper are not deployed in the mine but looking the amount of excavation carried out during the year 2020-21 existing mechiniries are on higher side.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	2-2.5m bench hight in overburden and 6-10m bench height in mineral ore are suitable formechineries deployed in the mine.	Mechineries deployed in the mine are convergent to the existing bench height.	Mechineries deployed in the mine are convergent to the existing bench height.
3m	Total area covered under excavation/pits	3124sq.m	Limestone from about 150sq.m area supposed tobe removed from the mine.	Nominal area covered for extraction of 3745tonne limestone from the mine.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.16	Overburden not removedfor the extraction of 3745tonne limestone from the mine.	No. OB removal

3p	Production of ROM mineral during the last five year period as applicable	year wise 2016-17 999945tonne 2017-18 991332tonne 2018-19 976483tonne 2019-20 949982tonne 2020-21 390688tonne	Yearwise actualproduction 2016-17 887873tonne 2017-18 966210tonne 2018-19 898217tonne 2019-20 594114tonne 2020-21 3745tonne	For less production violation of rule 11(1) pointed out.
3q	General remarks of inspecting officers on method of mining etc.			Very very low level of mining in comprision to the proposed one. In year2021-22 mine was suspended under rule 35 of MCDR,2017 as Star rating tremplet was not submitted for the year 2020-21

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not proposed.	not adopted .	No Overburden handling done during the year.
4b	Location of topsoil, OB and mineral reject dumps	Not Proposed	Not Applicable	There are proposal for Simultaneous reclamation . Although during the year removal of overburden from the proposed site were not carried out.
4c	Number of dumps within lease area and outside of lease area	Not Proposed	Not applicable as simultaneous reclamtion process proposed	Simultaneous reclamtion process proposed

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NotProposed	Not Applicable	-
4e	Number of active and alive dumps.	None	none	Not Applicable
4f	Number of dead dumps.	one dump having 18000cum vollume from them 5000cum dump material was proposed to be removed from the dump area and this material was proposed to be utilised for backfilling of the site yearmarked for the purpose.	Asper proposal rehandling of dead dump not carried out by the lessee during year under review. In susiquent year i.e. 2021-22 mine was suspended under rule 35 of MCDR,2017.	for deviation violation of rule 11(1) pointed out.
4g	Number of dumps established.	Not Proposed.	Not Applicable.	OK
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Not Applicable as rehandlingof existing dump are proposed.	OK
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	Not made	OK
4j	Number of settling ponds	Not Proposed	Not Made	OK
4k	Specific comments of inspecting officer on waste dump management			In fact after approval of modification of approved miningplan valid as on date have not been implimented mainly due to low level of mining.

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.	24.21hect	none	Mining Operation suspended under rule 35(4) of MCDR, 2022
5b	Area under backfilling of mined out area	0.30hect.	Not done	Generation of backfilling material was nil. However backfilling of mined out area were also proposed by waste rock from old dumps, but the same have not been started . violation under rule 11(10) are being pointed out.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	yes, Concurrent of top soil proposed.	During the year under review no top soil generated so concurrent use of top soil not applicable.	Soil generation was nil hence concurrent use of top soil not applicable.
5d	Total area fully reclaimed and rehabilitated	0.8hect.	Not yet started	Generation of backfilling material was nil. However backfilling of mined out area were also proposed by waste rock from old dumps, but the same have not been started . violation under rule 11(10) are being pointed out.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Generation of backfilling material was nil. However backfilling of mined out area were supposed to be carried out by waste rock from old dumps, but the same have not been started . violation under rule 11(10) are being pointed out.
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Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Proposed	Not submitted	Violation of rule 26(2) pointed out.
6b	Area available for rehabilitation (ha) .	0.25hect	carried out	OK
6c	afforestation done (ha) .	0.25hect	0.25hect	ok
6d	No. of saplings planted during the year	250	100	
6e	Cumulative no .of plants	750	300	Less plantation. Mine was suspended under rule 35(4) of MCDR, 2017
6f	Any other method of rehabilitation	Not proposed	Not carried out	
6g	Cost incurred on watch and care during the year	Not proposed	Not furnished	-

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.25hect	0.25hect	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not Proposed	Not Adopted	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	0.25hect	0.25hect	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not carried out	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	not Adopted	-
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not Proposed	Not carried out	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NotProposed	NotCarried out	

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not Proposed	Not carried out	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	carriedout	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Level of production were very low. Against 390688 tonne production only 3747tonne achieved. Minng operations in the mine suspended as per rule 35(4) of MCDR,2017. Further reclamation and rehabilitation work into some extent may be counted as better.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	390688tonne	3747tonne	Low level of production in year 2020-21.Mining operationof the mines suspended under rule 35(4) of MCDR,2017 in year 2021-22. Suspension operation revoked after submission of MCDR Template for Star rating against 2021-22.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not Proposed	Not required.	Not required , as entire ROM produced from the mine have a market.
7c	Different grade of mineral sorted out at mines.	Not Proposed	Sorting not carried out	Not required.
7d	Any beneficiation process at mines .	Not proposed	not Carried out.	Not required.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Any beneficiation of mineral is not required as entire ROM mieral produced from the mine is supplied for Cement manufacture.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	During year under review reported generated top soil was nil as nominal production of 3747tonne limestone were produced without further advancement of top soil bench.	
8b	Concurrent use or storage of topsoil	Concurent use of top soil proposed	Top soil bench were not further advanced resulting no generation of top soil during the year.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed	Not applicable as simultaneous reclamation is applicable .	Not required.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed	During the year under review no backfilling of mined out area were achieved.	Simultaneous reclamation of mined ut area is in practice.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased reclamation and rehabilitation of pit proposed	Phased reclamation of pit were not achieved as OB bench was not further advanced resulting no generation of Top Soil / overburden.	OB bench was not further advanced resulting no generation of Top Soil / overburden.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	250 plantation proposed	100	
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling is on haul roads reportedly carried out. As mine was under suspension on the date of inspection, water sprrinkling were not noticed.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Mining lease area is surrounded by Agricultural land. During inspection crops of Wheat all around the lease area particularly on Northern, Eastern and Western directions were noticed in healthy condition. utilisation of mine water for irrigation of agricultural land were noticed. Thus a nice aesthetic beauty were noticed.
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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns submitted upto March,2022and Annual returns 2020-21	Monthly Returns submitted upto March,2022and Annual returns for the year 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Details of Mining Engineer, Geologist not given		Mine was under suspension for the violation of rule 35

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Already exploited & abandoned by opencast (O/C) mining 10.000hect (ii) Covered under current (O/C) Workings 16.100hect (iii) Reclaimed/Rehabilitated 2.5hect (iv) Used for waste disposal 0.800hect (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.050hect (vi) Other Purpose 0.000 (vii) Work done under progressive mineclosure plan during the year 0.500hect	Correct	OK
9d	Scrutiny of Annual return on afforestation	100 no. of plantation	100 no. of plantation	ok
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	0	0	Mineral rejects not envisaged and also not generated.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	As per Ar AR ROM stock at mine Head 47527.890tonne	Such ROM Stock were noticed in the mine.	ok
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale vallue Rs. 118/-per tonne, Ex Mine Price Rs. 118/-per tonne	Sale vallue and Ex Mine Price are same, no problems but cost of production is Rs. 148/- per tonne	Cost of production is more than the sale vallue / Ex Mine Price which is not appears correct.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets Rs. 12976000		ok
9k	Scrutiny of Annual return on mining machineries	Details of machineries such as back hoe, Tipper , Rock Drill and dozers etc given		ok

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

Date :

(RAGHUBIR SHARAN GARG)

Indian Bureau of Mines