

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/KTN/DOL-101

Mine code : 19MPR47027

- (i) Name of the Inspecting : **PQ14**) **JAY KUMAR PANDEY**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Sh. Ajay Kumar Pandey, Mining Engineer
Official with
Designation
- (iv) Date of Inspection : 20-JUL-21
- (v) Prev.inspection date : 02-FEB-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **BHATAGAWAN SU(4.13 HA)**
- (b) **Registration NO.** : **IBM/860/2011/ NGP**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : KATNI
Village :
Taluka :
Post office :
Pin Code :
FAX No. : 07622-230537
E-mail : cimmcolime@gmail.com
Phone : 07622-406607
- (f) Police Station : Niwar
- (g) First opening date : 05-MAR-04
- (h) Weekly day of rest : SUN
2. Address for : CENTRAL INDIAN MINING & MARKETING COR.
correspondance : GULBARI BUILDING, OPP. NAGAR NIGAM,
KATNI (M.P.) 483501
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : LIMESTONE Associated
DOLOMITE Main

5. Name and Address of the

Lessee : CENTRAL INDIAN MINING & MARKETING CORP.
GULBARI BUILDING, OPP.
NAGAR NIGAM KATNI MADHYA
PRADESH
Phone:N. A.
FAX :N. A.

Owner : CENTRAL INDIAN MINING & MARKETING COR.
GULBARI BUILDING OPP. NAGAR
NIGAM, KATNI MADHYA
PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	19-OCT-01
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	19-AUG-08
		Mining Scheme rule 12 MCDR1988	26-FEB-15
		MP review under 17(1) MCR 2016	20-DEC-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	The RMP was approved on 20/12/2019, for the period 2019-20 to 2021-22. In which 05 boreholes upto 200 m. depth proposed in the year 2019-20.	Not done as proposed.	Violation of rule 11(1) pointed out for proposed exploration not done in the year 2019-20.
1b	Exploration over lease area for geological axis 1 or 2	05 boreholes upto 200 m. depth proposed in the year 2019-20 for exploration over lease area for geological axis 1.	Not done as proposed. In the lease area there are 03 old boreholes and existing working pit only. Approximate 1.6ha. of area has been categorised under the G2 category of exploration.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed.	Not applicable.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed.	Balance area to explored under G2 category is approximate 2.50ha.	
1e	Balance reserve as on 01/04/20	Not proposed.	The mine working was reopened from June 2020 hence Balance reserves as on 01/04/2021 is 239751 tonnes under 122 category & resources 157413 tonnes under 222 category.	The mine working was reopened from June 2020 but as per rule 29 of MCDR 2017, notice of reopening not sent to this office, hence violation of rule 29 pointed out.

1f	General remarks of inspecting officers on geology, exploration etc	Not proposed.	The lease area has alternate bands of limestone and dolomite with strike south west to north east .The area has been explored by one borehole and trenches and also by existing pit for occurances of limestone and dolomite bands.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During the year 2020-21 developement work was not proposed.Devel opement in around existing pit was proposed in the year 2019-20.	The developement observed around existing pit was done towards west and east side of pit advancing an area of 30x8x1-1.5m. and 50x8x1-1.5m. respectively.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed 1m. lateretic soil bench & mineral bench of 0.5m. hight in existing working pit.	The developement observed around existing pit was done towards west and east side of pit advancing an area of 30x8x1-1.5m. and 50x8x1-1.5m. respectively. The hight of bench in lateretic soil was observed 1-1.5m.The limestone benches of hight 0.5 to 1.5 m. observed .Total 5 benches in mineral limestone observed.	
2c	Stripping ratio or ore to OB ratio	1:0.19.	1:0.15.	

2d	Quantity of topsoil generation in m3	During the year 2020-21 development work was not proposed. Development in around existing pit was proposed in the year 2019-20 by forming 1m. lateretic soil bench.	About 812 cu.m. lateretic soil generated.
2e	Quantity of overburden generation in m3	Overburden generation during 2020-21 was not proposed.	Not applicable as no overburden except lateretic soil present in the lease area.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not proposed.	The development observed around existing pit was done towards west and east side of pit advancing an area of 30x8x1-1.5m. and 50x8x1-1.5m. respectively. The height of bench in lateretic soil was observed 1-1.5m.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	Existing one pit.	
3b	Quantity of ROM mineral production proposed	5255 tonnes .	5130 tonnes .	
3c	Recovery of sailable/usable mineral from ROM production	70% .	About 70% .	
3d	Quantity of mineral reject generation	Not proposed.	Generation of mineral reject from ROM not reported and observed during inspection.	

3e	Grade of mineral rejects generation and threshold value declared.	Not proposed.	Not applicable.
3f	Quantity of sub grade mineral generation.	Not proposed.	Generation of sub grade mineral from ROM not reported and observed during inspection.
3g	Grade of sub grade mineral generation	Not proposed.	Not applicable.
3h	Manual / Mechanised method adopted for segregating mineral from ROM	The manual method proposed for segregating mineral and waste from ROM proposed.	The manual method for sizing & sorting done for segregating mineral and waste from ROM.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	Generation of sub grade mineral from ROM not reported and observed during inspection.
3j	Provision of drilling and blasting in mineral benches	The jackhammer drilling & blasting proposed in mineral benches .	The jackhammer drilling & blasting done in mineral benches as proposed .
3k	Provision of mining machineries in mineral benches	The mine working was proposed by B cat. manual means.	The mining operations was carried out by manual means as proposed.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The mine working was proposed by B cat. manual means by forming 1m. height in soil & 0.5m. hight in mineral bench.	The production was done from existing pit by as proposed by maintaining hight of 0.5-1.5m. bench in mineral limestone.Total 05 benches in mineral limestone.

3m	Total area covered under excavation/pits	The mine working was proposed by B cat. manual means by forming 0.5m. high in mineral bench covering an area of .6ha. in existing pit.	The size of existing developed pit was about 80x70x2-11m. and about 0.4ha. area covered under mining during 2020-21 including existing & newly developed area.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.19.	1:0.15.
3o	Total area put in use under different heads at the end of year	The total area put in use under different heads at the end of 2020-21 was proposed about .7ha.	During inspection it was observed that about 0.56ha. area occupied by existing pit, 0.2ha. area occupied by existing dumps and .075ha. area by roads.
3p	Production of ROM mineral during the last five year period as applicable	The production of 5255 tonnes was proposed each year from existing pit during 2019-20 & 2020-21 ,2016-17- 35316t,2017- 18- 38440t,2018- 19-lapsed period.	The yearwise production of limestone achieved from this mine was as below:- 2016-17- 29330 tonnes,2017-18- 1910 tonnes,2018-19-NIL production, 2019-20-NIL Production & 2020-21 - 5130 tonnes.
3q	General remarks of inspecting officers on method of mining etc.	Not proposed.	This is a B category manual mine & mining is carried out by manual method as proposed.

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)	The soil,OB & reject generation during 2020-21 not proposed.	The soil generation during 2019-20 proposed for 11805cu.m. since mine was not in operation for the year 2019-20 & reopened in June 2020 the lateretic soil about 812 cu.m. generated during the year 2020-21 & stacked separately .	The developement work done during 2020-21 for advancement of existing mine faces as proposed for 2019-20.
4b	Location of topsoil, OB and mineral reject dumps	Not proposed.	The lateretic soil about 812 cu.m. generated during the year 2020-21 & stacked separately near eastern lease boundary as proposed for the year 2019-20 and some quntity of top soil utilised for trees plantation.The size of soil dump is 30x15x1-2m. The OB & reject generation not proposed and observed.	
4c	Number of dumps within lease area and outside of lease area	One soil dump & one waste dump within lease area.	The size of current soil dump is 30x15x1-2m & one current waste dump of size 40x10x1.5m Three old waste dumps and some scattered old dumps present in the lease area. No dumps are outside of the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The soil,OB & reject generation during 2020-21 not proposed.Dumpi ng is not proposed in UPL.	The size of current soil dump is 30x15x1-2m dumped near eastern lease boundary& one current waste dump of size 40x10x1.5m near south east corner of lease area.Three old waste dumps and some scattered old dumps present in the lease area.None of dumps are situated in ultimate pit limit of the lease area.	

4e	Number of active and alive dumps.	One soil & one waste dump.	One active soil dump and one active waste dump present in the lease area .
4f	Number of dead dumps.	Three old waste dumps as shown in surface plan.	Three old inactive/dead waste dumps present in the lease area apart from that some scattered old waste dumps observed.
4g	Number of dumps established.	Three old waste dumps as shown in surface plan.	Three old inactive/dead waste dumps present in the lease area which were naturally stbilished.
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed.	Not applicable.
4i	Length of Retaining wall or garland drain all along dumps	Not proposed.	Not applicable.
4j	Number of settling ponds	Not proposed.	Not applicable.
4k	Specific comments of inspecting officer on waste dump management	Not proposed.	The mining is carried out by manual method as proposed .The soil and waste dumps are small in sizes.

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 not proposed in the RMP as full extraction of mineral from lease area not done for the year 2020-21.	At present the lease area is not exploited at full minable depth hence not applicable.	
5b	Area under backfilling of mined out area	Not proposed.	Not applicable.	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Not proposed.	Not applicable.
5d	Total area fully reclaimed and rehabilitated	Not proposed.	Not applicable.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not proposed.	At present the lease area is not exploited at full minable depth hence not applicable.

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).	The annual report of PMCP to be submitted.	The annual report of PMCP for the year 2020-21 is submitted in this office on dated 09/07/2021.	
6b	Area available for rehabilitation (ha) .	Not proposed.	Not applicable.	
6c	afforestation done (ha).	The afforestation of 10 trees proposed .	The trees plantation observed near eastern boundary about 30 small size plants observed with fencing in .1ha. area.	
6d	No. of saplings planted during the year	The afforestation of 10 trees proposed .	The trees plantation observed near eastern boundary about 30 small size plants observed with fencing in .1ha. area.This plantation was done during the year 2020-21.	
6e	Cumulative no .of plants	Not proposed.	Cumulative so for 50trees planted in the lease area.	

6f	Any other method of rehabilitation	Not proposed.	Not applicable .
6g	Cost incurred on watch and care during the year	Not proposed.	The cost of trees plantation is about 50000 rupees for the year 2020-21 including safety and other aspects.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not proposed .	Not applicable.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not proposed .	Not applicable.
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Not proposed .	Not applicable.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed .	Not applicable.
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed .	Not applicable.
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	Not proposed .	Not applicable.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed . Not applicable.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed . Not applicable.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Not proposed . This is B cat. manual mines.Hence not applicable.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not proposed . The plantation & soil & waste dumping done separately.The damage towards environment due to manual mining is less.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sizing and sorting of minral limestone proposed for the year 2020-21.	The Manual sizing and sorting of minral limestone done as proposed for the year 2020-21.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Not proposed.	The Manual sizing and sorting of minral limestone done for SMS & BF grade.	

7d	Any beneficiation process at mines .	Not proposed.	Not applicable.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not proposed.	The Manual sizing and sorting of mineral limestone carried out.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	During the year 2020-21 development work was not proposed.Development in around existing pit was proposed in the year 2019-20.	The development observed around existing pit was done towards west and east side of pit advancing an area of 30x8x1-1.5m. and 50x8x1-1.5m. for removal of lateretic soil respectively. The generated top soil was dumped and some quantity of top soil utilised for plantation purpose.	
8b	Concurrent use or storage of topsoil	Not proposed	Not applicable.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste rock generation of 673 cu.m. proposed in the year 2020-21 & dumping towards SE corner of lease area.The size of dumps proposed about 30x15x2-4m. (over proposed dump for 2019-20).	About 601 cu.m. waste generation reported during the year 2020-21 & dumped in the proposed area.The size of waste dump observed 30x10x1m as no work was done in the year 2019-20.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Only dumping propose for the year 2020-21.	Dumping of waste rock done as proposed.
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)	The afforestation of 10 trees proposed .	The trees plantation observed near eastern boundary about 30 small size plants observed with fencing in .1ha. area.This plantation was done during the year 2020-21.
8g	Survival rate	Not proposed.	The survival rate of planted trees are about 60% observed.
8h	Water sprinkling on roads to control airborne dust	Proposed as required.	Not observed as inspection was done in rainy season and on inspection day mining operations were closed due to rainy season from last 15 days.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not proposed.	The plantation & soil & waste dumping done separately.The damage towards environment due to manual mining is less.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	The monthly and annual returns submitted online in due date.The monthly return submitted upto June 2021 & Annual return submitted upto 2020-21.	The monthly returns submitted upto June 2021 & Annual returns submitted upto 2020-21.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The name of mining engineer given Sh K.N.Ojha, other s left blank.	The mining engineer Sh. Ajay Pandey and part time geologist Sh Sridhar Pandey appointed recently. Suggested for giving their names in AR.	The violation of rule 46 pointed out for giving notice of appointment of mining engineer & geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern under different heads filled.	Land use pattern data under different heads filled and observed about correct. Pits-.496ha., Waste disposal-.398ha. Soil storage-.153ha., Roads-.125ha	The updated plans/sections as required under rule 32 of MCDR ,2017 not submitted in this office ,hence violation of rule 33 pointed out.
9d	Scrutiny of Annual return on afforestation	50 trees plantation reported in AR.	The afforestation details is almost given correct as 30newly planted trees observed with 60% survival rate.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Not given as reject not generated.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock- nil, Graded ore BF grade limestone- 12079.545tonnes.	The quantity of graded ore observed about almost correct.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price- Rs 366/-, Sale value- approximate Rs 532/- & cost of production given Rs 339/-	The details given seems to be correct.
9h	Scrutiny of Annual return on fixed assets	Fixed assets mentioned Rs 29.02/- Lakh.	As mentioned in AR.
9k	Scrutiny of Annual return on mining machineries	Not mentioned being manual mining.	Not applicable.

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)	29-JUL-21			
MCDR17	Rule 29	29-JUL-21			
MCDR17	Rule 33	29-JUL-21			
MCDR17	Rule 46(c)	29-JUL-21			

Date :

(JAY KUMAR PANDEY)

Indian Bureau of Mines