

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

MCDR INSPECTION REPORT

Jabalpur regional office

Mine file No : MP/KTN/LST-181

Mine code : 38MPR18109

- (i) Name of the Inspecting : **S021**) **GIRISH SHRIVASTAVA**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri S.K. Garg, representative
Official with
Designation
- (iv) Date of Inspection : 21/06/2016
- (v) Prev.inspection date : 31/05/2007

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAMUWANIKALAN**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : KATNI
Village : JAMWANIKALA
Taluka : V.GARH
Post office :
Pin Code :
FAX No. : N. A.
E-mail : N. A.
Phone : N. A.
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : SHRI POORAN LAL VISHWAKARMA
correspondance JALPADEVI WARD, KATNI (M.P.) 483501
3. (a) Lease Number : MPR0499
(b) Lease area : .81
(c) Period of lease : 20
(d) Date of Expiry : 27/01/2012
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : POORAN LAL VISHWAKARMA
JALPA DEVI WARD KATNI
MADHYA PRADESH
Phone:N. A.
FAX :N. A.

Owner : POORAN LAL VISHWAKARMA
JALPA DEVI WARD KATNI
MADHYA PRADESH
Phone: N. A.
FAX : N. A.

6. Date of approval of Mining : Renewal under rule 24 MCR1960 02/08/2012
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	one borehole was proposed during 12-13	None	
1b	Exploration over lease area for geological axis 1 or 2	The 0.813 has been categorised under G-1 based on the influence of existing pit of 65mx51mx2-28 m	The depth of 25 m has been categorised under G-1 for ML area of 0.813 ha .	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	
1d	Balance area to be explored to bring Geological axis in 1 or 2	The depth of 25 m has been categorised under G-1 for ML area of 0.813 ha .	The whole ML area of 0.813 ha has been categorised under G-1 category upto depth of 25 m . As such there is no area. under G-2 .	
1e	Balance reserve as on 01/04/20	54950 tonnes (121) as on 01/04/ 16	57566 tonnes (121) as on 01/04/16. If the production proposed for 16-17 may be achieved , the balance reserves will be 39016 tonnes (121) as on 01/04/17 . The 16-17 is the last year of proposal .	
1f	General remarks of inspecting officers on geology, exploration etc	None	The existing size of pit is sufficient to categorised the reserves under G-1 for area of 0.813 ha . However, considering the size of ML area ,the exploration need to be proposed in next document to prove the deposit upto ultimate depth .	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	Grid S 50 to S10 (N-S) and E 18 to E 70 (E-W)	The development was carried out at the proposed site .	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Development of two OB benches were proposed during 12-13 only . Height of OB bench was proposed as 1.5 m and during 15-16 two benches of 2m and 3 m height in mineral were proposed between mRL 380 to 375.	One bench in OB of 2-2.5 m height was observed . One bench in mineral of 2-3m height has been developed .	
2c	Stripping ratio or ore to OB ratio	1:034	1.04	
2d	Quantity of topsoil generation in m3	during 15-16, no development in soil/OB was proposed .	None during 15-16	
2e	Quantity of overburden generation in m3	None during 15-16 , proposal were given in mineral benches .	None during 15-16	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Two benches in mineral of 2m and 3 m height were proposed during 15-16 .	The deposit is bedded type and any significant development was not carried out as proposed . Only one bench in Limestone has been developed having height of 2-3m . The southern faces having height of 10 m to 11 m and since there is no space for further splitting/ advancement therefore false benches need to be proposed in next document which is due in Dec . 16. The dumps (D-1 and D-2) were proposed to be rehandle and utilised them for backfilling of SE part but could not done.	Since the proposed backfilling was not done with dump D-1 and D-2 , the violation of 13(1) of MCDR , 88 was issued .

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit was proposed for production .	One pit has been developed	
3b	Quantity of ROM mineral production proposed	Total ROM during 15-16 - 10200 cu m, Limestone 17850 tonnes .	11300 tonnes ROM during 15-16 and 7900 tonnes of Limestone was recoverd .	
3c	Recovery of sailable/usable mineral from ROM production	17850 tonnes of Limestone during 15-16	7900 tonnes of Limestone	
3d	Quantity of mineral reject generation	None	There is no reject generation . The complete production is saleable .	
3e	Grade of mineral rejects generation and threshold value declared.	None	None	
3f	Quantity of sub grade mineral generation.	None	No sub grade is generated .	
3g	Grade of sub grade mineral generation	None	None	
3h	Manual / Mechanised method adopted for segregating from ROM	manual	manual	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting has been proposed with the help of jackhammer and gun powder .	Blasting has been done occassionally for losenining of rock . The drilling has been done with help of Jackhammer (1.5 hole in sub-benches) and gun powder .The blasting has been done in two to thee stage .	
3k	Provision of mining machineries in mineral benches	None, mining has been proposed manully with help of hand tools	Mining has been carried out manully with help of hand tools .	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Two benches in mineral of 2m and 3m height during 15-16 . No proposal in OB bench	It is 'B' manual mine and one bench in Ob of 1.5 to 2 m was developed and current proposals has been given in the nothern part of existing pit where one bench in mineral of 2- 2.5 m height has been developed . The significant working has not been done as proposed . However, the development of benches of 2 to 3m height is suitable for manual mehtod .
3m	Total area covered under excavation/pits	0.5625 ha	About 4200 m2 area has been covered under excavation .
3n	Ore to OB ratio for the pit/mine during the year.	1.034	1.04
3o	Total area put in use under different heads at the end of year	Pit - 0.5625 ha, Dumps -0 .2036 ha ,green belt - 0.003 ha	Pit - 0.42 ha , dumps - 0.21 ha , green belt - nil
3p	Production of ROM mineral during the last five year period as applicable	12-13 -12250 tonnes , 13-14 -12250 tonnes , 14-15 - 12600 tonnes , 15-16 17850 tonnes , 16-17- 18550 tonnes .	12 -13 Nil , 13-14 -Nil, 14-15 -8200 tonnes , 15-16 -7900 tonnes ,
3q	General remarks of inspecting officers on method of mining etc.	Manual method of mining	The mining has been done manually with help of hand tools and occassional blasting . Since it is bedded deposit and 'B' category of mine therefore the development of 2- 3m bench height maunally with the help of hand tools is suitable for manual method .

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)	none, The top soil was proposed to be generated during 12-13 and OB was proposed to be utilised for backfilling .	The proposed backfilling was not done therefore waste dumps are kept intact at their places . No separate soil dump was observed .	
4b	Location of topsoil, OB and mineral reject dumps	The existing dumps are kept at eastern and western side area .	The waste dumps are still kept at their places at eastern ,western and southern side . There is no soil/reject dumps.	
4c	Number of dumps within lease area and outside of lease area	04 dumps	04 waste dumps within ML area .	
4e	Number of active and alive dumps.	02 dumps werte proposed active	Since the backfilling with Dump D-1 and D-2 was not carried out, all 04 dumps are active at present .	
4f	Number of dead dumps.	None	None	
4g	Number of dumps established.	None , The Dump D-1 and D-2 were proposed for backfilling .	None	
4h	Whether Retaining wall or garland drain all along dumps are there.	None	none	
4i	Length of Retaining wall or garland drain all along dumps	None	None	
4j	Number of settling ponds	None	none	
4k	Specific comments of inspecting officer on waste dump management	The dump D-1 and D-2 were proposed to be utilised for backfilling .	The proposed backfilling was not done and Dump D-1 and D-2 are still kept intact at their places therefore, the proposed site for mining is still under cover of these dumps .	The voilation of rule 13-(1) of MCDR ,88 for non-rehandling of dump D-1 and D-2 has been issued .

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	None	There is no mined out area however the 7.5 m barrier zone is broken towards South eastern part .
5b	Area under backfilling of mined out area	None ,	None, the broken 7.5 m barrier was proposed to be backfilled but backfilling was not done .
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	The waste dump D-1 and D-2 were proposed for backfilling of broken 7.5m barrier zone but proposed backfilling was not done .
5d	Total area fully reclaimed and rehabilitated	None	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No area was matured for backfilling however backfilling of broken 7.5 m barrier was proposed with Dump D-1 and D-2 ,	The mineral is existing in depth therefore there is no mined out area at present . The proposed backfilling of broken 7.5 m barrier was not done .

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).	None	None	
6b	Area available for rehabilitation (ha) .	None	None	
6c	afforestation done (ha).	20 trees every year	none	
6d	No. of saplings planted during the year	20	None	
6e	Cumulative no .of plants	80	None	

6f	Any other method of rehabilitation	None	None
6g	Cost incurred on watch and care during the year	Rs 1000/- per year	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	None	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	none	None
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None	None
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None	None
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	None	None

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	None	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Backfilling of broken 7.5 m barrier and rehandlling of Dump D-1 and D-2	The proposed backfilling of 7.5 m barrier and rehandlling of dump D-1 and D-2 was not done. The mineral is still existing in depth therefore there is no matured area for reclamation / rehabilitation at present . The retaining wall for dumps is need to be proposed in next document which is due in Dec 16 .

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	None	The Limestone of ML area is of cement grade and grade wise sorting has not been done .	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	Manual sorting of Limestone has been done . Since Limestone is of cement grade only , no grade-wise soring is required .	
7c	Different grade of mineral sorted out at mines.	None	There is cement grade only .	
7d	Any beneficiation process at mines .	None	None	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	The mineral is of cement grade and whole mineral is saleable as such there is no problem in respect of conservation .
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None	None	
8b	Concurrent use or storage of topsoil	None	None	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste generated during proposal period was proposed to be utilised for road maintenace . There is no reject /fines.	The waste /OB are kept at site of existing dumps .There are 04 waste/OB dumps	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Dump D-1 and D-2 were proposed for backfilling of broken 7.5 m barrier .	The proposed backfilling was not done.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	20 trees per year	Plantation was not done.	

8g	Survival rate	20 plants per year	None
8h	Water sprinkling on roads to control airborne dust	None	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	The aesthetic beauty is good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The AR for 15-16 not submitted	None	The voilation of 45(5) (b) of MCDR ,88 issued .
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	AR for 15-16 was not submitted .	one	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	AR for 15-16 was not submitted .	None	
9d	Scrutiny of Annual return on afforestation	AR for 15-16 was not submitted .	one	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	AR for 15-16 was not submitted .	None	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	AR for 15-16 was not submitted .	None	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	AR for 15-16 was not submitted .	None	

9h	Scrutiny of Annual return on fixed assets	AR for 15-16 was not submitted .	None
9k	Scrutiny of Annual return on mining machineries	AR for 15-16 was not submitted .	None

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
Rule 13(1)	19/07/2016				
Rule 45(5)(b)	19/07/2016				

Date :

(GIRISH SHRIVASTAVA)

Indian Bureau of Mines