

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

**Mining Plan Modification REPORT**

**Jabalpur regional office**

**Mine file No :** MP/REWA/LST-49

**Mine code :** 38MPR33030

- (i) Name of the Inspecting : **SQ23** ) **SANDEEP KUMAR SINGH**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 07-AUG-19
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BANKUIYAN (79.437 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : MADHYA PRADESH  
District : REWA  
Village : BANKUIYAN  
Taluka : HUZUR  
Post office : JAYPEE NAGAR  
Pin Code : 486450  
FAX No. : N. A.  
E-mail : N. A.  
Phone : N. A.
- (f) Police Station :
- (g) First opening date : 31-JAN-05
- (h) Weekly day of rest :
2. Address for : M/S JAIPRAKASH ASSOCIATES LTD.  
correspondance : P.O. JAYPEE NAGAR, DIST. REWA (M.P.) 486450
3. (a) Lease Number : MPR2658  
(b) Lease area : 76.14  
(c) Period of lease : 50  
(d) Date of Expiry : 18-JUL-51
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : JAIPRAKASH ASSOCIATES LTD.  
P.O. JAYPEE NAGAR, REWA  
MADHYA PRADESH  
Phone:N. A.  
FAX :N. A.

Owner : JAIPRAKASH ASSOCIATES LTD.  
P.O. JAYPEE NAGAR, REWA  
MADHYA PRADESH  
Phone: N. A.  
FAX : N. A.

6. Date of approval of Mining : PMCP under 23B(1) for Fresh 29-APR-05  
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 03-SEP-09  
Renewal under rule 24 MCR1960 05-NOV-14

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NA	NA	
1b	Exploration over lease area for geological axis 1 or 2	NA	NA	
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	NA	1.0Million Tonne	as on 1/04/2019.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 164 to N 800 & E 50 to W 1200	N 164 to N 800 & E 50 to W 1200	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for topsoil overburden and mineral benches is proposed	Separate benches for topsoil overburden and mineral benches is developed properly	
2c	Stripping ratio or ore to OB ratio	1:0.30	1:0.05	
2d	Quantity of topsoil generation in m3	28768	5122	
2e	Quantity of overburden generation in m3	62772	5762	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	PIT IS WELL DEVELOPED EXPOSING ALL LITHOUNITS UPTO BASAL WASTE STONE.MINE IS WORKED BY SUITABLE BENCHING.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	302225 tonne	217499	
3c	Recovery of sailable/usable mineral from ROM production	85-90%	85-90%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	
3f	Quantity of sub grade mineral generation.	Nil	Nil	
3g	Grade of sub grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NA	NA	

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3j	Provision of drilling and blasting in mineral benches	Drilling and blasting is proposed in mineral benches	Drilling and blasting is done in mineral benches	
3k	Provision of mining machineries in mineral benches	Yes	Yes	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	VARIES FROM 3TO 8MTR
3m	Total area covered under excavation/pits	12.342 Hect	10.720 Hect.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.30	1:0.05	
3o	Total area put in use under different heads at the end of year	Quarry-12.342 Ha. Waste dump- 2.00 Ha. Infrastructure Road- 0.00 Ha. -0.75 Ha. Road-0.00 Ha.	Quarry-10.720 Ha. Waste dump- 1.50Ha. Infrastructure-0.75Ha.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 182338 tonnes 2015-16 255856 tonnes 2016-17 88075 tonnes 2017-18 200000 tonnes 2018-19 302225 tonnes	125964 tonnes 158184 tonnes 45738 tonnes 163026 tonnes 217494 tonnes	
3q	General remarks of inspecting officers on method of mining etc.			MECHANISED MINING IS DONE USING MACHINES, DRILLING /BLASTING.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No OB and Mineral reject dump is proposed.	As per proposal	
4b	Location of topsoil, OB and mineral reject dumps	No OB and Mineral reject dump is proposed.	As per proposal	
4c	Number of dumps within lease area and outside of lease area	No OB and Mineral reject dump is proposed.	As per proposal	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No OB and Mineral reject dump is proposed.	As per proposal	
4e	Number of active and alive dumps.	NA	NA	
4f	Number of dead dumps.	NA	NA	
4g	Number of dumps established.	NA	NA	
4h	Whether Retaining wall or garland drain all along dumps are there.	No retaining wall and garland drain is proposed during the year.	No retaining wall and garland drain is constructed during the year.	
4i	Length of Retaining wall or garland drain all along dumps	There is no proposal for construction of garland drain	NA	
4j	Number of settling ponds	There is no proposal for construction of settling pond.	NA	
4k	Specific comments of inspecting officer on waste dump management			NO DUMPS ARE PROPOSED.

## 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.	1.14 Ha-YES	0.13 Ha-YES MINED UPTO BASAL LOW GRADE MAGNESIAN SHALE.	
5b	Area under backfilling of mined out area	1.14 Ha	0.13 Ha	
5d	Total area fully reclaimed and rehabilitated	.38 Ha	0.17 Ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			BACKFILLING HAS BEEN VERY LESS.

#### 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).	Annual report on PMCP submitted	PMCP return is NOT submitted	
6b	Area available for rehabilitation (ha) .	1.14 Ha (Backfilling area)	0.13 Ha	
6c	afforestation done (ha).	0.38 Ha.	0.17 Ha	
6d	No. of saplings planted during the year	760 nos	500 nos.	
6e	Cumulative no .of plants	1100	1000	
6f	Any other method of rehabilitation	NA	NA	
6g	Cost incurred on watch and care during the year	NA	Nil	

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	i) 1.14 Ha.	0.13 ha
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	1.14 Ha.	0.13 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.38 Ha.	0.17 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	0.38 Ha	0.17 ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.38 ha	0.17 ha



6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Plantation over backfilled area	Plantation over backfilled area	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Ambient Air Quality , Noise level survey & water Quality monitoring in core and buffer zone	Ambient Air Quality (Quarterly basis) , Noise level survey (monthly) & water Quality monitoring (Monthly) has been carried out in core and buffer zone	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			THERE IS ONLY BACKFILLING IN MINED OUT AREA AND PLANATATION ON SAME IN THIS CATEGORY.BACKFILLING HAS BEEN DONE ON LESS AREA THAN PLANNED.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM	ROM	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines	NA	NA	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	ROM IS SENT TO PLANT.
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**Environment:**

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil	Separate removal and utilization of topsoil has NOT BEEN DONE.IT IS NOT FULLY UTILIZED TO COVER WASTE ROCK.	
8b	Concurrent use or storage of topsoil	Top soil will be spread over backfilled area	CONCURRENT USE.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB and Mineral reject dump is proposed.	No OB and Mineral reject dump is proposed.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	overburden, waste rock generated during the year will be used for backfilling purpose	As per proposal BEING DONE.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES PROPOSED.	BEING DONE	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	ADDITIONAL - 760	DONE 500.	LESS AREA AVAILABLE.
8g	Survival rate	85 %	50%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to control airborne dust	Water sprinkling on roads has been carried out to control airborne dust	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			SOME PLANTATAION CAN BE SEEN IN MINE AREA.UTILIZATION OF TOP SOIL NEEDS EFFORTS.BACKFILLED AREA IS LESS.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns			Monthly return and Annual return has been submitted as per rule 45 of MCDR 2017
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager Shri S.K Mahapatra 8. Mining Engineer in charge Shri Bajrang Shrivasa 9. Geologist in charge Shri B.K Banerjee	Manager Shri S.K Mahapatra 8. Mining Engineer in charge Shri Bajrang Shrivasa 9. Geologist in charge Shri B.K Banerjee	DETAILS GIVEN

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(ii) Covered under current (O/C) WORKING 10.751 (iii) Reclaimed/Rehabilitated 0.500 (iv) Used for waste disposal 1.510 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.750 HECT	WITHIN FA LIMITS
9d	Scrutiny of Annual return on afforestation	500 SAPLINGS PLANTED.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	0, NO REJECT	NO REJECTS IN PLAN.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM ORE-STOCKS -NIL	NO STOCKS MAINTAINED.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	EXMINE 247.29, COP- 247.29RS /T	
9h	Scrutiny of Annual return on fixed assets	FA=604440441RS	

9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 4.200 CUM 2 Non Electrical Opencast DUMPER 18.000 TONNE 10 Non Electrical Opencast BLAST HOST DRILL 150.000 MM 1 Non Electrical Opencast DOZER 320.000 HP 1 Non Electrical Opencast	THE DETAILS OF MACHINES USED IS GIVEN.
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**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)	18-OCT-19	09-MAR-20				
MCDR17	Rule 36(2)	18-OCT-19	09-MAR-20				
MCDR17	Rule 35(2)	18-OCT-19	09-MAR-20				
	Rule 26(2)	18-OCT-19	09-MAR-20				

**Date :**

**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines