

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/REWA/LST-46

**Mine code :** 38MPR33034

- (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 : 13-FEB-21
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BANKUIYAN ( 54.613 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : REWA  
Village : MARHA  
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 :
- (h) Weekly day of rest :
2. Address for : JAIPRAKASH ASSOCIATES LTD.  
correspondance P.O. JAYPEE NAGAR, DIST. REWA (M.P.) 486450
3. (a) Lease Number : MPR2134  
(b) Lease area : 54.61  
(c) Period of lease : 50  
(d) Date of Expiry : 31-DEC-54
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: +911126141540  
FAX : N. A.

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	28-MAY-03
Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	24-MAY-07
	:	Mining Scheme rule 12 MCDR1988	18-MAY-11
	:	Mining Scheme rule 12 MCDR1988	25-JUL-16

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NP	NA	
1b	Exploration over lease area for geological axis 1 or 2	NP	NA	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NP	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2		G2 area- 5.15 Ha, this is balance to bring under G1 axis	
1e	Balance reserve as on 01/04/20		4.55 MIO TON-111,0.71 MIO TON -222	
1f	General remarks of inspecting officers on geology, exploration etc			THE LIMSESTONE OF BNAKUIYAN AREA BELONGS TO BHANDER SERIES OF UPPER VINDHAYAN SYSTEM.LIMSESTONE BELONGS TO NAGOD LIMSESTONE FORMATION.AREA HAS GREY AND CHERTY LIMSESTONE.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	First pit N2300 to N2530 W1620 to W1420	First pit As per approved Scheme of Mining proposal	
		Second pit N2170 to N2490 W1220 to W870	Second pit Nil	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil- 1 nos. Ore Limestone- 1 nos.	Top Soil- 1 nos. Ore Limestone- 1 nos.	
2c	Stripping ratio or ore to OB ratio	1:.22	very less work done.5% of planned.	Mine is developed removing ob of 0-2 mtr and mining limestone 4-8 mtr thick by mechanized mining using shovel and tipper.waste is backfilled in mines. Waste and limestone benches are separately formed as per thickness .in pit it was observed bench height was more than 8mtr and has merged with soil bench. Violation pointed out.pit 2 was not opened as planned.
2d	Quantity of topsoil generation in m3	135475 Cum	6272 Cum	approx only 5% of planned. violation is pointed out.
2e	Quantity of overburden generation in m3	--	--	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Mine is developed removing ob of 0-2 mtr and mining limestone 4-8 mtr thick by mechanized mining using shovel and tipper.waste is backfilled in mines. Waste and limestone benches are separately formed as per thickness .in pit it was observed bench height was more than 8mtr and has merged with soil bench. Violation pointed out.pit 2 was not opened as planned.
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## Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2	1	
3b	Quantity of ROM mineral production proposed	605250 tonne	581922 tonne	
3d	Quantity of mineral reject generation	np	na	
3e	Grade of mineral rejects generation and threshold value declared.	np	na	
3f	Quantity of sub grade mineral generation.	np	na	
3g	Grade of sub grade mineral generation	nil	nil	

3h	Manual / Mechanised method adopted for segregating from ROM	na	na	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	np	na	
3j	Provision of drilling and blasting in mineral benches	yes	done	
3k	Provision of mining machineries in mineral benches	yes	provided and used.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes ,upto 8 mtr	yes suitable for mechanised mining	
3m	Total area covered under excavation/pits	1.Area under mining pit- 19.223Ha	1.Area under mining pit- 14.64Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:..22	very less work done.5% of planned.	violation given for less development.
3o	Total area put in use under different heads at the end of year	1.Area under mining- 19.223Ha 2.Mineral Storage-0.0Ha 3.Road- 2.0Ha 4. Infrastructure - 0.0Ha 5. OB/Waste dump- 1.21 Ha 6. Other- 0.0 Ha Total area put to use- 22.433 Ha	1.Area under mining- 14.64Ha 2.Mineral Storage-0.0Ha 3.Road- 2.0Ha 4. Infrastructure- 0.0Ha 5. OB/Waste dump- 1.21 Ha 6. Other- 0.0 Ha Total area put to use- 17.85Ha	

3p	Production of	2015-16	602000	2015-16	136458	mechanised mining is done with 100 mm hole blast hole dia. benches in limestone vary from 4-8 mtr.in waste upto 4mtr.
	ROM mineral	2016-17	596173	2016-17	77580	
	during the last	2017-18	600000	2017-18	499572	
	five year period	2018-19	520050	2018-19	381312	
	as applicable	2019-20	605250	2019-20	581922	

### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	NIL	NIL	There is no proposal for separate dumping of top soil and OB during the year. OB & Top generated during the year, directly utilized for backfilling purpose.
4b	Location of topsoil, OB and mineral reject dumps	NA	NA	WASTE BACKFILLED
4c	Number of dumps within lease area and outside of lease area	NIL	NIL	in year nil.one old dump by side of lease.outside lease nil.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	NIL	nil	
4e	Number of active and alive dumps.	no	nil	
4f	Number of dead dumps.		one old dump.	one old low height dump.
4g	Number of dumps established.	01	01	old dump
4h	Whether Retaining wall or garland drain all along dumps are there.	NA	not done	plantation done

4i	Length of Retaining wall or garland drain all along dumps	NIL	NA	
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management			BACKFILLING IS DONE. There is no proposal for separate dumping of top soil and OB during the year. OB & Top soil generated during the year, directly utilized for backfilling purpose. one low height dump with plantation exists in mine area. presently backfilling done.

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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.	YES	DONE	
5b	Area under backfilling of mined out area	2.258 HECT	0.50 HECT	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	CONCURRENT	CONCURRENT	
5d	Total area fully reclaimed and rehabilitated	---	---	BACKFILLING IS BEING DONE IN PIT. BUT AREA COVERED IN YEAR IS VERY LESS. (.50 HECT)

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5e	General remarks of inspecting officers on backfilling and reclamation etc.	backfilling is being done in pit.but area covered in year is very less.(.50 hect).violation is issued for same.
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#### 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).		not submitted.violation is issued.	
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6g	Cost incurred on watch and care during the year			NO PROPOSAL FOR MINEDOUT/WORKED OUT BENCHES.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D		PIT area - 13.64 HECT.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2.258 hect	.50 hect	violation given

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	2.258	0.5	violation given
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	YES	DONE	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			some backfilling has been done but not upto planned extent(0.5 hect against planned 2.258).violation is pointed out.plantation is seen on boundary and old dump.

## 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	LIMESTONE CEMENT GRADE MINED AND SENT TO PLANT.
7d	Any beneficiation process at mines .	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			limestone cement grade is mined and sent to plant for cement making.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	YES	DONE	
8b	Concurrent use or storage of topsoil	CONCURRENT	CONCURRENT	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NO seperate dumps..BACKFIL LING is proposed	BACKFILLING is done	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	YES	DONE	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	YES	DONE	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	BASELINE- NIL	,500 NOS	ADDITIONAL
8g	Survival rate	80%	70%	
8h	Water sprinkling on roads to control airborne dust	YES	DONE	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			PLANTATION ON BACKFILLED Area in mines IS DONE.the area of backfilling less.some plantation is done on dump and periphery.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		YES SUBMITTED.	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge Shri Bajrang Shrivastava Geologist in charge Shri Devendra Singh	DETAILS PROVIDED
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by opencast (O/C) mining 5.440 (ii) Covered under current (O/C) Workings 9.200 (iii) Reclaimed/Rehabilitated 1.500 (iv) Used for waste disposal 1.200 (v) Occupied by plant, buildings, residential, welfare buildings & roads 2.000	DETAILS GIVEN .WITH IN FA LIMITS.
9d	Scrutiny of Annual return on afforestation	500 NOS, 70 % SURVIVAL.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL	NO REJECTS
9f	Scrutiny of Annual return on ROM stock and/or graded ore	NIL	NO STOCKS AT MINES.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	CAPTIVE USE, NO SALE, COST OF PRODUCTION : 262.69 RS/T	

9h Scrutiny of FIXED  
Annual return on ASSETS=5889301  
fixed assets 21

9k Scrutiny of SHOVEL list of machine  
Annual return on (HYDRAULIC) provided.  
mining 2.400 CUM 2  
machineries Nos.  
DOZER 320.000  
HP 1 Nos.  
DUMPER 18.000  
TONNE 10 NOS.  
ROCK DRILL  
(NON<sub>1</sub>ELEC.)  
100.000 MM 1  
NoS.

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**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)	27-APR-21			
MCDR17	Rule 26(2)	27-APR-21			
MCDR17	Rule 45(1)	27-APR-21			

**Date :**

**(SANDEEP KUMAR SINGH)**

Indian Bureau of Mines