

**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-24

Mine code : 38MPR33008

- (i) Name of the Inspecting : **NQ06**) **P.NAHAR**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri Rajesh Choubey, GM(Mines) and Shri N.K.Dixit, Geol
Official with
Designation
- (iv) Date of Inspection : 21-NOV-18
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAYPEE (70.127 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : MADHYA PRADESH
District : REWA
Village : BAIJNATH, SORNA, HINOT
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 : 15-FEB-85
- (h) Weekly day of rest : SUN
2. Address for : M/S JAIPRAKASH ASSOCIATES LTD.
correspondance : P.O. JAYPEE NAGAR, DIST. REWA (M.P.) 486450
3. (a) Lease Number : MPR0360
(b) Lease area : 70.13
(c) Period of lease : 20
(d) Date of Expiry : 14-FEB-25
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	:	Mining Scheme rule 12 MCDR1988	27-MAY-03
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	10-JUN-04
		Mining Scheme rule 12 MCDR1988	15-OCT-09
		Mining Scheme rule 12 MCDR1988	31-OCT-14

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Any additional exploration not proposed.	Any additional exploration not carried out.	----
1b	Exploration over lease area for geological axis 1 or 2	Not proposed.	Not applicable.	Entire area has already been explored under G1 Level.
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	Nil	Nil	----
1e	Balance reserve as on 01/04/20	Nil	111-6.91m.t. 322-1.25m.t. 333-0.70m.t.	----
1f	General remarks of inspecting officers on geology, exploration etc	----	Lower Grey and Upper Grey Limestone bands of Bhandar Group belonging to Vindhyan Supergroup are exposed in the Lease area. These are dipping with 40 to 60 towards North direction.	Entire area has been Proved under G1 level. Hence any additional exploration neither proposed nor carried out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Near Southern boundary of the ML.	Near Southern boundary of the ML.	Development was done on proposed location.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OBS-1m UGL-4.5m MSH-1-8m MSH-2-8.0m NDS-8.0m LGL1-7.0m LGL-2-3.5m	OBS-0.5 to 2m UGL-5m MSH-1-7.5m MSS-2-7.5m NDH-6.0m LGL1-7.0m LGL-2-3.0m	Separate benches has been formed in Limestone, OB and Waste.

2c	Stripping ratio or ore to OB ratio	1:0.72	1:0.55	Tonnes/m3.
2d	Quantity of topsoil generation in m3	17-18-36,000m3	Nil	During 17-18 entire development was done in MSH as there was not top soil cover for mining.
2e	Quantity of overburden generation in m3	14-15-745475m3 15-16-889500m3 16-17-480500m3 17-18-506000m3	14-15-345323m3 15-16-275396m3 16-17-480500m3 17-18-506000m3	Including OBS,NDS and MSH.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	----	----	It is a Bedded, Stratiform and Tabular Deposit of Regular Habit, formed by Sedimentary process. Developmen t has been done at proposed location.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	----
3b	Quantity of ROM mineral production proposed	14-15-1500463T 15-16-1807500T 16-17-908438T 17-18-909063T	14-15-955712T 15-16-866715T 16-17-293952T 17-18-471820T	Any enhancement against proposed production is not noticed.
3c	Recovery of sailable/usable mineral from ROM production	Not mentioned.	About 90%.	----
3d	Quantity of mineral reject generation	Not proposed.	Nil.	----
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	----

3f	Quantity of sub grade mineral generation.	Not proposed.	Nil.	----
3g	Grade of sub grade mineral generation	Not applicable.	Not applicable.	----
3h	Manual / Mechanised method adopted for segregating from ROM	A -Fully Mechanized.	A -Fully Mechanized.	----
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not proposed.	None.	----
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting is proposed in mineral benches.	Drilling blasting is done in mineral benches.	----
3k	Provision of mining machineries in mineral benches	Deployment of HEMM is proposed in benches.	HEMM are deployed in ob and mineral benches.	----
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height of benches on ob and mineral suitable for method of mining is proposed.	Height of ob and mineral benches are suitable for A- Category Fully mechachanied mining using HEMM.	----
3m	Total area covered under excavation/pits	34.248Ha	34.29Ha.	----
3n	Ore to OB ratio for the pit/mine during the year.	1:0.72	1:0.55	----
3o	Total area put in use under different heads at the end of year	54.248Ha	34.29Ha	----

3p	Production of ROM mineral during the last five year period as applicable	14-15-1500463T 15-16-1807500T 16-17-908438T 17-18-909063T	14-15-955712T 15-16-866715T 16-17-293952T 17-18-471820T	----
3q	General remarks of inspecting officers on method of mining etc.	----	----	Mining was proposed by open cast fully mechanized method. Same process is continued.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil for spreading over reclaimed area. OB for backfilling pf mined out pit. There is no mineral reject.	Any top soil was not generated during last year. OB/waste for backfilling of mined out pit. There is no mineral reject.	----
4b	Location of topsoil, OB and mineral reject dumps	--Do--	As mentioned above.	----
4c	Number of dumps within lease area and outside of lease area	Any dumping not proposed in the lease area.	There is no dump of ob/waste in the Lease area.	Entire waste dump is utilized for Reclamation of mined out pit.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Any dumping not proposed.	There is no dump in the Lease area.	----
4e	Number of active and alive dumps.	Not applicable.	Not applicable.	----
4f	Number of dead dumps.	None.	None.	----
4g	Number of dumps established.	Not proposed.	None.	----

4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed.	Garland drain made	----
4i	Length of Retaining wall or garland drain all along dumps	Not proposed..	200m Garland drain.	----
4j	Number of settling ponds	Not proposed.	None.	----
4k	Specific comments of inspecting officer on waste dump management	----	----	In the approved mining plan it was proposed the waste will be used for reclamation of mined out pit. Same process is continued.

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.	Full extraction before backfilling.	Backfilling is done after full extraction of mined out pit.	----
5b	Area under backfilling of mined out area	By end of 18-19 10.36ha area will be backfillied.	7.0Ha.backfilling is on progress.	16.70Ha area is already backfilled.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Concurrent.	Not noticed as there was no working in Top soil.	----
5d	Total area fully reclaimed and rehabilitated	Not mentioned.	16.70Ha.	Only fully reclaimed . Rehabilitation by afforestation is continued.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	----	In the approved mining plan it was proposed that entire ob/waste will be used for reclamation of mined out pit. Same process is continued.
----	--	------	------	--

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).	----	Submitted.	----
6b	Area available for rehabilitation (ha) .	1.602Ha	1.0Ha	During the year.
6c	afforestation done (ha).	1.602Ha	1.0Ha	----
6d	No. of saplings planted during the year	3204Nos.	3200Nos.	----
6e	Cumulative no .of plants	Not mentioned.	18604Nos.	----
6f	Any other method of rehabilitation	Not proposed.	None.	----
6g	Cost incurred on watch and care during the year	Not proposed.	Not available.	----
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	20.998Ha	14.29Ha	Upto 21m depth from ground level.Reclamation and rehabilitation is continued.

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings			
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area			
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir			
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	Not proposed.	None.	----
6m	Compliance of rehabilitation of waste land within lease (i) afforestation			
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)			
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not proposed.	None.	----

6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring in core and buffer zone is proposed.	Environmental monitoring in core and buffer zone is done on regular basis.	----
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	----	Progressive mine closure operations are on progress .

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Dispatch.	ROM Dispatch.	----
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Any Sorting of the mineral is not proposed.	Any Sorting of the mineral is not done. Entire mineral is dispatched as ROM .	----
7c	Different grade of mineral sorted out at mines.	Cement grade Limestone without any sorting as ROM.	--Do--	----
7d	Any beneficiation process at mines .	Any beneficiation is not proposed at mines.	Any beneficiation is not done at mines.	----
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	----	In the approved mining it was proposed that entire mineral will be consumed without any sorting directly as ROM. Same process is continued.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal is proposed .	Not done.	There is no top soil cover at proposed location.
8b	Concurrent use or storage of topsoil	Concurrent.	Any top soil is not genrated during last proposal period.	----
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It was sproposed that entire OB/Waste will be used for Reclamtion and Rehabilitratio n of mined out pit.	Same process as proposed is continued.	----
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	As mentioned above.	--Do--	----
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	As mentioned above.	--Do--	-----
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-----	----	An additional plantation of 18,604 trees has been done in reclaimed area and waste land.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR upto March 2019. AR-17-18.	----	----

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager-Sh. R. Choubey Mining Engineer-Sh. R. R. Prasad,B.E.Mining. Geologist-Sh. N.K. Dixit.	Manager-Sh. R. Choubey Mining Engineer-Sh. R. Prasad,B.E.Mining. Geologist-None.	A violation under rule 46 of MCDR-2017 being pointed out for appointment of Mines Manager and Mining Engineer and violation of Rule 55 is being pointed out appointment of Geologist.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area already exploited- 33.250Ha Area reclaimed abnd rehabilitated- 17.00Ha. Waste disposal- 11.1Ha. Area covered under mining- 1.040Ha	Area already exploited- 33.250Ha Area reclaimed abd rehabilitated-7.00Ha. Waste disposal- Nil. Area covered under mining-1.23Ha	----
9d	Scrutiny of Annual return on afforestation	1000Nos.	3200Nos.	----
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	----
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	----
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost-568.16/- Ex mine price- 571.30/-	----	----

9k	Scrutiny of Annual return on mining machineries	Dumper -35T-6Nos. Dumper-60T-9Nos. Shovel (4m3)-2Nos. Shovel-3.2m3-1no. Shovel-6.5m3-1Nos. Backhoe-3.2m3-1No. Dozer-300HP-2Nos. Dozer-175HP-1Nos. Rock drill-150mm-5Nos.	Dumper -35T-6Nos. Dumper-60T-9Nos. Shovel (4m3)-2Nos. Shovel-3.2m3-1no. Shovel-6.5m3-1Nos. Backhoe-3.2m3-1No. Dozer-300HP-2Nos. Dozer-175HP-1Nos. Rock drill-150mm-5Nos.	Combined mining machneries for all the 3 mines.
----	---	--	--	---

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 46(a)	14-MAY-19		
MCDR17 Rule 55(1) (3)	14-MAY-19		

Date :

(P. NAHAR)

Indian Bureau of Mines