

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

**Review and updation of Mining Plan REPORT**

**Jabalpur regional office**

**Mine file No :** MP/RWA/LST-2

**Mine code :** 38MPR33006

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

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **JAYPEE (200.554 HA)**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : REWA  
Village : MADHEY PUR, & SONRA  
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 : 09-AUG-84
- (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 : MPR2159  
(b) Lease area : 200.55  
(c) Period of lease : 20  
(d) Date of Expiry : 08-AUG-24
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	10-JUL-97
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	27-MAY-03
		Renewal under rule 24 MCR1960	10-JUN-04
		Mining Scheme rule 12 MCDR1988	15-OCT-09
		Mining Scheme rule 12 MCDR1988	03-NOV-14

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Any additional exploration is not proposed.	Nil.	Any additional exploration neither proposed nor carried out.
1b	Exploration over lease area for geological axis 1 or 2	Not proposed.	G1	--Do--
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not applicable.	None.	----
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed.	Nil.	----
1e	Balance reserve as on 01/04/20	----	Limestone- 111-4.85 m.t. 221 & 222-0.20 m.t. 332-1.41 m.t. 333-0.49 m.t. Shale- 111-1.19m.t. 332-0.34 m.t. 333-0.08 m.t.	Lower Grey and Upper Grey Limestone bands of Bhandar Group having U. Vindhyan Age are found in the Lease area. These are flattely bedded. Any exploration neither proposed nor carried out.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Between grid points 18E & 23E and 40N to 59N .At the SE part of the main haul road.	Development has been done at proposed location.	----

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	OBS-2.0m MSH-1-8m MSH-2- 4 to 5m NDS-7.0m LGL1-7.0m LGL2-3.5m	Top soil and OB-0.5m to 2.0m MSH-1-7.5m MSH-2-7.5m NDS-6m LGL-1-7m LGL-3-3m	OBS-Overburden Soil MSH-Middle Shale NDS-Nodular Shale UGL-Upper Grey Limestone. LGL-Lower Grey Limestone CHL-Cherty Limestone.
2c	Stripping ratio or ore to OB ratio	1:0.62	1:0.92	----
2d	Quantity of topsoil generation in m3	14-15-23712m3 15-16-39906m3 16-17-12734m3 17-18-10464m3 18-19-00m3	Whatever top soil generated is utilized for topping over reclaimed area and afforestation.	----
2e	Quantity of overburden generation in m3	14-15-84116m3 15-16-196124m3 16-17-141220m3 17-18-189201m3 18-19-70242m3	14-15-105098m3 15-16-83816m3 16-17-70878m3 17-18-189145m3 18-19-103502m3 (Till date of inspection)	----
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. Limestone is found as Sedimentary bands. Separate and sufficiently	sufficiently advanced benches have been formed in Soil, MSH, NDS and LGL. Development 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	17-18-3,03,000T 18-19-3,00,000T	17-18-205955T 18-19-165454T (Till date of inspection)	Production figures of Limestone and Shale are included.
3c	Recovery of sailable/usable mineral from ROM production	Not proposed.	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	A system of deep hole drilling with multirow blasting and use of millisecond /relay detonators system or Nonel /Excel system.	Same practice is continued.	----
3k	Provision of mining machineries in mineral benches	Deployment of HEMM is proposed in benches.	HEMM has been deployed in ob and mineral benches.	----
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed.	Ht. of ob benches and mineral are suitable for mechanized mining.	----

3m	Total area covered under excavation/pits	5.07Ha	3.03Ha	Area for active mining in proposal period .
3n	Ore to OB ratio for the pit/mine during the year.	1:0.62	1:0.92	----
3o	Total area put in use under different heads at the end of year	157.78Ha	158.03Ha (Till date of inspection)	----
3p	Production of ROM mineral during the last five year period as applicable	13-14-258440T 14-15-450515T 15-16-500005T 16-17-305031T 17-18-303000T 18-19300000T	13-14-153248T 14-15-288960T 15-16-237860T 16-17-101440T 17-18-205955T 18-19-165454T	
3q	General remarks of inspecting officers on method of mining etc.	----	----	Mining was proposed and done by open cast Fully Mechanized method .Same process is continued.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Waste for Reclamtion and Rehabilitation of mined out pit . Top soil for topping over matued backfilled area for afforestation activity.	Waste is utilized for backfilling of mined out pit. Top soil for topping over reclaimed area and for afforestation.	----
4b	Location of topsoil, OB and mineral reject dumps	As mentioned above. There is no mineral reject.	Same process is continued. There is no mineral reject.	----

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4c	Number of dumps within lease area and outside of lease area	Not proposed.	None.	There is a old dump near Grid points 29E to 27E and 56N to 69 N .This dump is stabilized by afforestation.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Any dumping is not proposed.	Any dumping is not done.	There is a old dump.
4e	Number of active and alive dumps.	Not proposed.	None.	----
4f	Number of dead dumps.	Not proposed.	None.	--Do--
4g	Number of dumps established.	Not proposed.	One.	----
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.	Garland drain is made.	----
4j	Number of settling ponds	Not mentioned.	Two.	----
4k	Specific comments of inspecting officer on waste dump management	----	----	It was proposed that entire waste will be used for reclamation and rehabilitation of mined out pit . Same process is continued.

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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.	Full extraction before backfilling.	Full extraction is done before backfilling.	----

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5b	Area under backfilling of mined out area	4.22Ha	4.75Ha. (Till dare of inspection)	Details of last SoM period.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Removal,utilization and remaining Qty. for Storage.	Same process is continued.	----
5d	Total area fully reclaimed and rehabilitated	4.22ha	4.75Ha	During current proposal period.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	----	----	In the approved mining plan it was prosed that entire OB will be utilized for reclantion and rehabilitation of mined out pit.Same process is continued.

#### 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).	PMCP work proposed.	Annual Report of the PMCP is submitted.	----
6b	Area available for rehabilitation (ha) .	4.22Ha	4.75Ha	In proposal period.
6c	afforestation done (ha).	4.90Ha	4.60Ha	----
6d	No. of saplings planted during the year	8825Nos.	7325Nos.	----
6e	Cumulative no .of plants	NA	287128Nos.	Combined figures of all 3 mines.
6f	Any other method of rehabilitation	None.	None.	----

6g	Cost incurred on watch and care during the year	Not proposed.	NA	----
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	400mx200x26m (approx.) Including mining pit area.	100mx80x25m Including matured pit area.	----
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	711543m3	552439m3 (approx.)	----
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	4.22Ha	4.75Ha	----
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	10.00Ha	5.437Ha	----
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	Proposed.	Done.	----

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed.	Done.	----
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed.	Done.	----
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed Regular Environment Monitoring in Core and Buffer Zone.	Environment Monitoring in Core and Buffer Zone is done regularly.	----
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	----	----	PMCP complaine through Reclamtion and Rehabilitation of mined out pit are on progress.

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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 dispatch.	ROM dispatch.	----
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	ROM dispatch hence not applicable.	ROM dispatch hence not applicable.	----
7c	Different grade of mineral sorted out at mines.	Cement grade as ROM.	Cement grade as ROM.	----
7d	Any beneficiation process at mines	Not proposed.	None.	----

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7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	----	It was proposed that entire ob/waste will be used for Cement making in his captive cement plant as ROM.	Same process is continued .Any mineral beneficiation is neither proposed nor carried out.
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**Environment:**


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Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Seperate removal and utilization simultaneously over reclaimed area.	Same procedure is adopted.	Remaining soil is stacked along the haul road.
8b	Concurrent use or storage of topsoil	Concurrent.	Concurrent.	Remaining Qty is stored for future use.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed.	There is no seperate dump.	There is one old stabilized dump.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed.	Waste/OB are used for reclamtion and rehabilitation of mined out pit.	----
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Phased Reclamtion and Rehabilitation of mined out pit is proposed.	Phased Reclamtion and Rehabilitation of mined out pit is done.	----

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8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	----	----	More than 28,000 Nos.of trees have been planted in the lease area.
8g	Survival rate	75%	75%	----
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water sprinkling on road is done regularly.	----
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	----	Around the leasearea aesthetic beauty is good but within the lease area it is affected due top heavy excavation.	To improved aesthetic beauty of the area the ML holder has done afforestation of about 28,000 trees in all the 3 mining leases which have grown upto 5m height.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted upto -Oct. 2018. AR submitted upto 2017-18.	----	----
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager- Shri Rajesh Choubey, B.E.(Mining) Mining Engineer- Shri Rajesh Choubey, B.E.(Mining) Geologist- Shri Rajesh Choubey, B.E.(Mining) Geologist- Shri Sanjay Sharma, M.Sc. (Geology)	Manager- Shri Rajesh Choubey, B.E.(Mining) Mining Engineer- Shri Rajesh Choubey, B.E.(Mining) Geologist- None.	A violation under rule 55 of MCDR-2017 has been pointed out for appointment of Geologist on 12/04/2019.

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9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	i)Area exploited - 77.78Ha ii)Are covered under open cast working- 7.030Ha iii)Area Reclaimed and Rehabilitated- 68.00Ha. iv)Area used under waste disposal-8.0Ha	i)Area exploited - 77.03Ha ii)Are covered under open cast working-7.03Ha iii)Area Reclaimed and Rehabilitated-68.00Ha. iv)Area used under waste disposal-8.0Ha	-----
9d	Scrutiny of Annual return on afforestation	Afforestation done within ML-2000Nos. Outside ML- 500Nos.	Afforestation done within ML-7325Nos. Outside ML-Nil	-----
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	1,73,597T (ROM)	-----	-----
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of Pro.- 568.16/- Sale value-For captive consumption. Ex mine price- 571.00/-	OK.	-----
9h	Scrutiny of Annual return on fixed assets	758.46 Crore.	OK.	-----

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.	Agreed.	Combined mining machineries for all 3 mining leases.
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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 55 (1) (3)	12-APR-19				
MCDR17 Rule 46 (c)	12-APR-19				

**Date :**

**(P . NAHAR)**

Indian Bureau of Mines