

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/REWA/LST-24

Mine code : 38MPR33008

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Nitya Kumar Dixit (Senior Manager Geology), Mine
Official with
Designation
- (iv) Date of Inspection : 08-JAN-20
- (v) Prev.inspection date : 27-FEB-18

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 : 40
(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: +911126141540
 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
		MP review under 17(1) MCR 2016	03-JAN-19

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	IT WAS PROPOSED TO DRILL 6 NOS OF CORE BOREHOLES IN THE YEAR 2019-20 FOR TOTAL METERAGE OF 300 METERS	PROPOSED EXPLORATION WAS NOT CARRIED OUT AS PER PLAN	
1b	Exploration over lease area for geological axis 1 or 2	ENTIER MINERALISED AREA EXPLORED UPTO G1 LEVEL	G1-42.538, G2-19.292, G3-8.297 HECT	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	ON CONTRACT BASIS DETAILS NOT PROVIDED	DETAILS NOT MENTIONED EXPLORATION NOT CARRIED OUT	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1-42.538, G2-19.292, G3-8.297 HECT	G1-42.538, G2-19.292, G3-8.297 HECT	
1e	Balance reserve as on 01/04/20	AS ON 01.10.2018 111-6.91 mt 121 & 122-0 221-0 221 & 222-4.27	AS ON 01.04.2020 111-5.32 MT 121 & 122-0 221-0 221 & 222-4.27	
1f	General remarks of inspecting officers on geology, exploration etc			LIMESTONE OF THE ML BELONGS TO REWA FORMATION OF VINDHYAN LIMESTONE FINE GRAINED HARD AND COMPACT IN NATURE DARK TO LIGHT GREY IN COLOUR

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	IT WAS PROPOSED TO WORK AND DEVELOP THE PIT 1	WORKING WAS IN THE PIT 1
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	SEPARATE BENCHES ARE PROPOSED	OB 2-3 METER 1ST OBS BENCH-4 METER LIMESTONE BENCHES 7 METER
2c	Stripping ratio or ore to OB ratio	1:1.7	1:1.56
2d	Quantity of topsoil generation in m3	18394 CUM	9520 CUM
2e	Quantity of overburden generation in m3	562725 CUM	352641 CUM
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		DEVELOPMENT WAS IN THE PROPOSED LOCATION WITH SLOWERE RATE OF DEVELOPMENT

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE SINGLE PIT	ONE SINGLE PIT-1	
3b	Quantity of ROM mineral production proposed	950000 TONNES	585633 TONNES	
3c	Recovery of sailable/usable mineral from ROM production	100 %	ROM IS BEING USED IN CAPTIVE CEMENT PLANT	
3d	Quantity of mineral reject generation	NOT PRPOSED	NIL ROM IS BEING USED IN CAPTIVE CEMENT PLANT	ROM IS BEING USED IN CAPTIVE CEMENT PLANT

3e	Grade of mineral rejects generation and threshold value declared.	NOT PROPOSED	NIL ROM IS BEING USED IN CAPTIVE CEMENT PLANT	ROM IS BEING USED IN CAPTIVE CEMENT PLANT
3f	Quantity of sub grade mineral generation.	NOT PROPOSED	NIL	ROM IS BEING USED IN CAPTIVE CEMENT PLANT
3g	Grade of sub grade mineral generation	NOT PROPOSED	NIL	ROM IS BEING USED IN CAPTIVE CEMENT PLANT
3h	Manual / Mechanised method adopted for segregating from ROM	MECHANISED METHOD PROPOSED	MENCHANISED SCREENERS USED FOR SEPARATION	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NOT PROPOSED	NIL	
3j	Provision of drilling and blasting in mineral benches	PROPOSED	AS PER PROPOSAL	
3k	Provision of mining machineries in mineral benches	PROPOSED	HEMM IS BEING USED IN MINERAL BENCHES FOR EXCAVATION AND TRANSPORTATION OF ROM FROM MINE SITE TO CEMENT PLANT	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	MINERAL BENCH OF 7 METER	MINERAL BENCHES ARE OF 7 METER AND OB BENCH WAS OF 3 METER SOIL BENCH WAS ON 1-1.5 METER DEPENDING UPON THE THICKNESS AVAILABLE OF SOIL WHICH IS VARIES PLACES TO PLACES HEINGHT & WIDTH OF BENCHES ARE SUITABLE FOR MINING	
3m	Total area covered under excavation/pits	45.43 HECT	34.840 HECT	

3n	Ore to OB ratio for the pit/mine during the year.	1:0.17	1:0.12	
3o	Total area put in use under different heads at the end of year	45.43 HECT	40.12 HECT	
3p	Production of ROM mineral during the last five year period as applicable	2019-20=950000	2019-20=585633 2018-19=572601 2017-18=414678 2016-17=253440	
3q	General remarks of inspecting officers on method of mining etc.			PROPOSED BENCHES AREA SUITABLE FOR MINING, DRILING AND BLASTING IS BEING DONE IN THE MINE, HEMM IS BEING USED IN EXCAVATION AND TRANSPORTAION OPERATIONS

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	PRPOSED	SEPARAT EDUMPIN OF OB TOP SIL AND MINERAL AS PER PLAN	
4b	Location of topsoil, OB and mineral reject dumps	IN THE NORTHERN PORTION OF THE ML AREA	IN THE NOTHERN PORTION OF THE ML AREA SOIL OB AND MINERALS ARE STACKED SEPARETLY	
4c	Number of dumps within lease area and outside of lease area	THREE DUMPS	THREE DUMPS WITHIN THE ML AREA 1 OB/ WASTE 1-MINERAL AND 1 SOIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	OUTSIDE THE UPL	OUTSIDE THE UPL STACKING IS BEING DONE	
4e	Number of active and alive dumps.	THREE ACTIVE DUMPS	THREE ACTIVE DUMPS	

4f	Number of dead dumps.	NOT PRPOSED	NIL	
4g	Number of dumps established.	NOT PROPOSED	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	PROPOSED	AS PER PLAN GARLAND DRAIN WERE PREPARED	
4i	Length of Retaining wall or garland drain all along dumps	GARLAND DRAIN OF 200 METER WAS PROPOSED TO BE PREPARED SURROUNDING TO THE DUMPS	250 METER LENGHT GARLAND DRAINN WAS PREPARED	
4j	Number of settling ponds	ONE	ONE SETTLLING PIT WAS PREPARED	
4k	Specific comments of inspecting officer on waste dump management			SEPARATE STACKING BEING DONE IN THE SPECIFIED LOCATION

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 EXTRCATION OF MINERAL WAS PROPOSED	FULL EXTRACTION DONE DONE YET, PIT NOT TOUCHED THE UPD	
5b	Area under backfilling of mined out area	21912 CUM	15240 CUM	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	SOIL IS PROPOSED TO BE USED IN PLANTAION	SOIL IS BEING USED IN PLANTATION	
5d	Total area fully reclaimed and rehabilitated	1.23 HECT	0.50 HECT BY MEANS OF AFFORESTATION	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	BACKFILLING PROCESS IS SLOW DUE TO LACKING IN DEVELOPMENT OPERATIONS
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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).	PROPOSED	SUBMITTED	
6b	Area available for rehabilitation (ha) .	1.23 HECT	0.50 HECT	
6c	afforestation done (ha).	1.23 HECT	0.50 HECT	
6d	No. of saplings planted during the year	4500 NOS	3000 NOS	
6e	Cumulative no .of plants	5000 NOS	3000 NOS	
6f	Any other method of rehabilitation	NOT PROPOSED	ONLY BANCKFILLING AND AFORESTATION IS BEING DONE FOR REHABILITATION PROCESS	
6g	Cost incurred on watch and care during the year	NOT MENTIONED	NIL	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP IS BEING DONE WITH RESPECT TO DEVELOPMENT DURING THE YEAR 3000 NOS OF PLANTS WERE PLANTATED OVER THE BACKFILLED AREA

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	DIRECT DISPATCH IS PROPOSED	ROM IS BEING DISPATCHED TO CAPTIVE CEMENT PLANT AFTER SCREENING
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	MECHANICAL METHOD PROPOSED	MECHANICAL METHOD ADOPTED i.e. SCREENING
7c	Different grade of mineral sorted out at mines.	NOT PROPOSED	ROM IS BEING USED IN CAPTIVE CEMENT PLANT THEREFORE NO SORTING
7d	Any beneficiation process at mines .	NOT PROPOSED	NIL ONLY SCREENING IS BEING DONE FOR SEGRAGATION
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		ROM IS BEING USED IN CAPTIVE CEMENT PLANT AFTER SCREENING FOR SEGRAGATION OF WASTE, WASTE IS BEING USED IN BACKFILLING AND GENERATED TP SOIL IS BEING USED FOR PLANTATION

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	PROPOSED	SEPARATE REMOVAL OF SOIL IS BEING DONE AS PER PLAN	
8b	Concurrent use or storage of topsoil	PROPOSED	SOIL IS BEING USED IN PLANTATION	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	PROPOSED	AS PER PLAN SEPARATE DUMPS ARE OF OB AND WASTE	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	PROPOSED TO BE USED IN BACKFILLING	WASTE AND REJECTS ARE BEING USED IN BACKFILLING	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	PROPOSED	AS PER PLAN BACKFILLING IS BEING DONE AT ML AREA FOR RESTORATION OF THE LAND TO ITS ACTUAL CONDITION	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	PROVIDED AND PROPOSED	AS PER PLAN	
8g	Survival rate	85 %	80-75 %	
8h	Water sprinkling on roads to control airborne dust	PROPOSED	WATER TANKER IS BEING USED	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			NEEDS IMPROVEMENTS BY MEANS OF PLANTATION

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR & MR SUBMITTED	AR & MR SUBMITTED ONLINE	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	FURNISHED	NIL DURIGN THE RY
9f	Scrutiny of Annual return on ROM stock and/or graded ore	FURNISHED	FURNISHED
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		EX MINE PRICE 346.01 INR COST OF PRODUCTION 346.01 INR
9h	Scrutiny of Annual return on fixed assets	NOT FURNISHED	
9k	Scrutiny of Annual return on mining machineries		Type and aggregate Horse Power of Machinery: Give the following information for the types of machinery in use such as hoist, fans, drills, loaders, excavators, dumpers, haulages, conveyors, pumps, etc. Details of any new machinery added during the year may be furnished with cost. Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) DUMPER 60.000 TONNE 10 Non Electrical Opencast SHOVEL (HYDRAULIC) 4.000 CUM 1 Non Electric

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)	10-FEB-20	13-MAY-20				
	Rule 26(2)	10-FEB-20	13-MAY-20				
MCDR17	Rule 33	10-FEB-20	13-MAY-20				
	Rule 55	10-FEB-20	13-MAY-20				

Date :

(DEEPAK SHARMA)

Indian Bureau of Mines