

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

**MCDR inspection REPORT
Jabalpur regional office**

Mine file No : MP/RWA/LST-2

Mine code : 38MPR33006

- (i) Name of the Inspecting : **SQ05**) **DEEPAK SHARMA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : N K Dixit Geologist
Official with
Designation
- (iv) Date of Inspection : 07-JAN-20
- (v) Prev.inspection date : 18-FEB-16

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 : MADHEYUPUR, & 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
		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	No exploration proposed in the year 2018-19	NO exploration carried out in the year 2018-19	
1b	Exploration over lease area for geological axis 1 or 2	it was proposed to explore lease area upto G1 level of exploration	lease area explored upto G2 level of exploration till date and further exploration proposals given	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Jai Prakash Associates Limited	Jai Prakash Associates Limited	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2 level area - 8.103	G2 level area - 8.103	
1e	Balance reserve as on 01/04/20	as on 01/10/2018 111-4.85 121-0 122-0	as on 01/04/2019 111-4.626 121-0 122-0	
1f	General remarks of inspecting officers on geology, exploration etc			limestone of the lease area belongs to bhandar series of vindhyan super group, limestone grey in colour, hard and compact, fine grains with intercalated shale

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	southern portion of lease area	southern portion of the lease area	

2b	Separate benches proposed in topsoil, overburden and minerals (Rule 15)		Top Soil bench 0.5-2.0 (01) OB /waste bench 7.5 (02) Mineral bench 6-8 (03)	
2c	Stripping ratio or ore to OB ratio	1:0.234	1:0.405	
2d	Quantity of topsoil generation in m3	Not Proposed	NIL	
2e	Quantity of overburden generation in m3	70242	91297	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Development work not as per approved mining plan, violation issued for the same

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	300000	224898	
3c	Recovery of sailable/usable mineral from ROM production	Not Proposed	ROM is being sent to captive cement plant	
3d	Quantity of mineral reject generation	70242 (OB +Waste)	103502 (OB+Waste)	
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	NIL	
3f	Quantity of sub grade mineral generation.	Not Proposed	NIL	

3g	Grade of sub grade mineral generation	Not Proposed	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method proposed	Mechanised method adopted (Screening)
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 approved mining plan proposal
3k	Provision of mining machineries in mineral benches	proposed	HEMM is being used in mineral benches
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable as per approved mining plan	Suitable as per proposal
3m	Total area covered under excavation/pits	88.50	84.78
3n	Ore to OB ratio for the pit/mine during the year.	1:0.234	1:0.405
3o	Total area put in use under different heads at the end of year	161.50	157.78
3p	Production of ROM mineral during the last five year period as applicable	2014-15-387415 2015-16-425005 2016-17-264031 2017-18-258000 2018-19-300000	2014-15-259200 2015-16-208960 2016-17-89312 2017-18-173597 2018-19-224898

3q	General remarks of inspecting officers on method of mining etc.	method of mining suitable for mining, slow rate of development against proposal
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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)	not proposed	continuos backfilling proposed so npo dumps available	
4b	Location of topsoil, OB and mineral reject dumps	Not proposed	NIL	
4c	Number of dumps within lease area and outside of lease area	Not proposed	NIL	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	not proposed	NIL	
4e	Number of active and alive dumps.	not proposed	NIL	
4j	Number of settling ponds	not proposed	NIL	
4k	Specific comments of inspecting officer on waste dump management			continous backfilling is in process therefore no dumps available in teh lease area, previoulsy mined-out area is being backfilled with the generated amount of OB/waste

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.	full extraction proposed	full extracted area is being backfilled
5b	Area under backfilling of mined out area	0.31	1.50
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	top soil to be used in planttaion	top soil is being used in plantation over backfilled area
5d	Total area fully reclaimed and rehabilitated	not proposed	NIL

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	not submitted	
6b	Area available for rehabilitation (ha) .	NA	NIL	
6c	afforestation done (ha).	1.04	0.50	
6d	No. of saplings planted during the year	1873	500	
6e	Cumulative no .of plants	15000	12500 aprox	
6f	Any other method of rehabilitation	not proposed	nil	
6g	Cost incurred on watch and care during the year	NA	NIL	

6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	as per approved mining plan
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	dispatch fo rom proposed	rom is being dispatch to captive cement plant	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical method proposed	mechanical method screening is being adopted for sorting	
7c	Different grade of mineral sorted out at mines.	not proposed	nil	
7d	Any beneficiation process at mines .	not proposed	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			rom is being dispatch to the captive cement plant

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	separate removal of top soil proposed	top soil is being removed separately	
8b	Concurrent use or storage of topsoil	plantation proposed	top soil is being use din planttaion over backfilled area	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	not proposed	OB and waste is being used for backfilling of previous mined out area continuously so there is no dump	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed	ob waste is being used in backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	proposed	as per proposal backfilling in progress with the generated ob and waste	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	proposed	as per proposal	
8g	Survival rate	90	75-80	
8h	Water sprinkling on roads to control airborne dust	proposed	as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			required improvements

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	AR submitted 2018-19 MR submitted March 2020	AR submitted 2018-19 MR submitted March 2020	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	furnished	Manager Shri Rajesh S Chaubey Mining Engineer in charge Shri Rajesh S. Chaubey Geologist in charge Shri Syed Abdul Mannan
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	furnished	(i) Already exploited & abandoned by opencast (O/C) mining 0.000 84.780 84.780 (ii) Covered under current (O/C) Workings 0.000 0.300 0.300 (iii) Reclaimed/Rehabilitated 0.000 68.300 68.300 (iv) Used for waste disposal 0.000 8.000 8.000 (v) Occupied by plant, buildings, residential, welfare buildings & roads 0.000 65.000 65.000 (vi) Other Purpose (0) 0.000 0.000 0.000 (vii) Work done under progressive mine closure plan during the year 0.000 0.000 0.000
9d	Scrutiny of Annual return on afforestation	furnished	4.4 (a) Within lease area (b) Outside lease area (i) Number of trees planted during the year 2000 500 (ii) Survival rate in percentage 90.00 80
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	furnished	nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	furnished	Category Opening stock (in tonne) Production (in tonne) Closing stock (in tonne) (a) Open Cast Workings 0.000 190865.000 0.000 (b) Underground Workings 0.000 0.000 0.000 (c) Dump Workings 0.000 0.000 0.000
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	ex mine price for 1st 454.81 INR for shale 417.54 cost of production 455.98
9h	Scrutiny of Annual return on fixed assets	furnished	Value of Fixed Assets (in .) 7495367697 (in respect of the mine, beneficiation plant, mine work-shop, power and water installation)

9k	Scrutiny of Annual return on mining machineries	furnished	Type of machinery Capacity of each unit No.of units Electrical/ Non-Electrical (specify) Used in opencast/ underground (specify) DUMPER 35.000 TONNE 6 Non Electrical Opencast DUMPER 60.000 TONNE 10 Non Electrical Opencast SHOVEL (HYDRAULIC) 3.200 CUM 1 Non Electrical Opencast SHOVEL (HYDRAULIC) 4.000 CUM 2 Non Electrical Opencast SHOVEL (HYDRAULIC) 6.500 CUM 1 Non Electrical Opencast BACK HOE 3.200 CUM 1 Non Electrical Opencast DOZER 300.000 HP 2 Non Electrical Opencast DOZER 175.000 HP 1 Non El
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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)	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