

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/STN/LST-301

**Mine code :** 38MPR35272

- (i) Name of the Inspecting : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri S K Sharma (Vice President), Shri Rajiv Jain (Mi  
Official with  
Designation
- (iv) Date of Inspection : 14-JAN-21
- (v) Prev.inspection date : 27-JAN-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **BELA & DEVMAUDALDAL**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : SATNA  
Village : BELA & DEVMAUDALDAL  
Taluka : KOTAR  
Post office : BELA & DEVMAUDALDAL  
Pin Code :  
FAX No. : 07662-229218  
E-mail : N. A.  
Phone : 07662-229212 TO 17
- (f) Police Station : RAMPUR BAGHALAN
- (g) First opening date : 23-DEC-08
- (h) Weekly day of rest :
2. Address for : M/S JAIPRAKASH ASSOCIATES LTD.  
correspondance P.O. JAYPEE NAGAR, DIST. REWA (M.P.) 486450
3. (a) Lease Number : MPR2365  
(b) Lease area : 372.51  
(c) Period of lease : 30  
(d) Date of Expiry : 30-DEC-34
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	25-JUL-03
Plan/Scheme of Mining	:	PMCP under 23B(2) for Existing	29-DEC-05
	:	Modif.of approved Mining Plan	02-MAR-11
	:	Mining Scheme rule 12 MCDR1988	29-APR-13
	:	MP review under 17(1) MCR 2016	15-MAR-18

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Entire lease area has explored under G1 level of exploration	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	nil	Entire lease area has already explored under G1 level of exploration	
1e	Balance reserve as on 01/04/20	57.94 Million tonne	57.53 Million tonne	
1f	General remarks of inspecting officers on geology, exploration etc			The limestone deposit of Bela & Devmaudaldal areas fall in the Bhandar series of the Upper Vindhyan System.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	northwestern part of the lease area	northwestern part of the lease area	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Top Soil- 01 no.Overburden- 02 no.Ore Limestone- 02 nos.	Top Soil- 01 no.Overburden- 02 no.Ore Limestone- 02 nos.	
2c	Stripping ratio or ore to OB ratio	1:0.2	1:0.03	
2d	Quantity of topsoil generation in m3	33000 Cum	nil	violation pointed out.

2e	Quantity of overburden generation in m3	102305 Cum	2786 Cum	violation pointed out.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			the mine development was lagging and not as per the proposals of approved document.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	01	01	
3b	Quantity of ROM mineral production proposed	510010 tonnes	91476 tonnes	violation pointed out.
3c	Recovery of sailable/usable mineral from ROM production	100% ROM is utilised in plant owned by the lessee	100% ROM is utilised in plant owned by the lessee	
3d	Quantity of mineral reject generation	nil	nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	nil	nil	
3g	Grade of sub grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	not proposed	not done	

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	not proposed	No analysis or beneficiation study is carried out
3j	Provision of drilling and blasting in mineral benches	yes	as per proposal
3k	Provision of mining machineries in mineral benches	yes	as per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	yes	height of benches in overburden and mineral found to be suitable for method of mining proposed in MP/SOM
3m	Total area covered under excavation/pits	13.036 ha	11.01 ha as per submitted AR for the year 2019-20
3n	Ore to OB ratio for the pit/mine during the year.	1:0.2	1:0.03
3o	Total area put in use under different heads at the end of year	17.43Ha	13.91 Ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16 1002023 T 2016-17 1005600 T 2017-18 1019500 T 2018-19 105000 T 2019-20 510010 T	2015-16 Nil 2016-17 Nil 2017-18 33623 T 2018-19 104223 T 2019-20 91476 T

3q General remarks of inspecting officers on method of mining etc.

overall production is lagging.violation under Rule 11(1) of MCDR 2017 was pointed out.

#### Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes	as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	southern part of the lease area	southern part of the lease area	
4c	Number of dumps within lease area and outside of lease area	02 nos with in lease area.	02 nos with in lease area. 1 for top soil & 1 of OB.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside upl	outside upl	
4e	Number of active and alive dumps.	2 Nos ( Temporary dump)	2 Nos ( Temporary dump)	
4f	Number of dead dumps.	nil	nil	
4g	Number of dumps established.	nil	nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	garland drain: 200* 1.5* 1 m	
4i	Length of Retaining wall or garland drain all along dumps	yes	garland drain: 200* 1.5* 1 m	
4j	Number of settling ponds	nil	nil	

4k Specific comments of inspecting officer on waste dump management

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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.	backfilling after full extraction of mineral is proposed	backfilling after full extraction of mineral is adopted	
5b	Area under backfilling of mined out area	nil	nil	Pit is not completely mined out for backfilling
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	yes	for plantation	
5d	Total area fully reclaimed and rehabilitated	nil	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

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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).	yes	not submitted	violation pointed out under Rule 26(2) of MCDR 2017.

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6b	Area available for rehabilitation (ha) .	nil	nil
6c	afforestation done (ha).	nil	nil
6d	No. of saplings planted during the year	nil	nil
6e	Cumulative no .of plants	nil	400
6f	Any other method of rehabilitation	nil	nil
6g	Cost incurred on watch and care during the year	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	not done	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	nil	100 nos of sapling planted at 7.5 m safety barrier	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	nil	0.05 ha	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	nil	plantation	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	as per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			progressive closer operations is lagging since the overall excavation is lagging.

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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 mineral dispatch to captive plant proposed	as per proposal	

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7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	not proposed	not done	
7c	Different grade of mineral sorted out at mines.	not proposed	not done	
7d	Any beneficiation process at mines	not proposed	not done	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM dispatched to Cement Plant owned by the lessee for Captive use.

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes	not done as no topsoil generated.	violation pointed out.
8b	Concurrent use or storage of topsoil	proposed	not done as no topsoil generated.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed	Separate dump for top soil and waste rock is maintained.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	for backfilling purpose	not done	

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	yes	not done since area not mature enough for backfilling purpose	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	yes	Number of trees planted during the year 100 nos Survival rate in percentage = 60	
8g	Survival rate	70 %	60 %	
8h	Water sprinkling on roads to control airborne dust	proposed	Water sprinkling on roads done as per proposal	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mine area is moderate and needs improvement

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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	monthly and Annual return have been submitted for the financial year 2019-20.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	Manager Shri Raju Jain Mining Engineer in charge Shri Rajiv Ranjan Geologist in charge Shri S.K Sharma	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	Covered under current (O/C) Workings 11.010 ha Used for waste disposal 2.900 ha	

9d	Scrutiny of Annual return on afforestation	yes	Number of trees planted during the year 100 nos within lease Survival rate in percentage= 60.00
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	yes	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	yes	nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	yes	Ex.Mine price of cement grade limestone is Rs.263.18
9h	Scrutiny of Annual return on fixed assets	yes	Value of Fixed Assets (in Rs) 588930121
9k	Scrutiny of Annual return on mining machineries	yes	SHOVEL (HYDRAULIC) 1.100 CUM 2 Non Electrical Opencast DUMPER 25.000 TONNE 5 Non Electrical Opencast AIR COMPRESSOR 100.000 CUM/MN 1 Non Electrical Opencast

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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)	05-FEB-21			
MCDR17	Rule 26(2)	05-FEB-21			
MCDR17	Rule 33	05-FEB-21			
MCDR17	Rule 11(1)	05-FEB-21			23-MAR-21
MCDR17	Rule 26(2)	05-FEB-21			23-MAR-21
MCDR17	Rule 33	05-FEB-21			23-MAR-21

**Date :**

**(ROBERT SIMON C)**

Indian Bureau of Mines