

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

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/STN/LST-288

**Mine code :** 38MPR35273

- (i) Name of the Inspecting : **C004** ) **ROBERT SIMON C**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : lessee Shri S K Sharma (Vice President), Shri S.P. Ja  
Official with  
Designation
- (iv) Date of Inspection : 13-JAN-21
- (v) Prev.inspection date : 27-JAN-20

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **DEGARHAT & DEVMAUDALDAL**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : SATNA  
Village : DEGARHAT  
Taluka : RAMPUR BAGHELAN  
Post office : CHORMARI  
Pin Code :  
FAX No. : 07662-229218  
E-mail : N. A.  
Phone : 07662-229212 to 17
- (f) Police Station : RAMPUR BAGHALAN
- (g) First opening date : 22-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 : MPR2364  
(b) Lease area : 816.51  
(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	28-MAY-03
Plan/Scheme of Mining		PMCP under 23B(1) for Fresh	29-DEC-05
		Modif.of approved Mining Plan	24-AUG-06
		Mining Scheme rule 12 MCDR1988	18-APR-13
		Mining Scheme rule 12 MCDR1988	04-SEP-15

## 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	Nil	
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	G2 area of 27.19 Ha to be explored in G1	G2 area of 27.19 Ha to be explored in G1	
1e	Balance reserve as on 01/04/20	54.28 Million tonnes	55.27 Million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc			

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	South eastern area of the lease	South eastern area of the lease	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches for topsoil overburden and mineral benches is proposed	Separate benches for topsoil overburden and mineral benches is maintained	
2c	Stripping ratio or ore to OB ratio	1:0.6	1:1.55	
2d	Quantity of topsoil generation in m3	140583 Cum	nil	violation pointed out

2e	Quantity of overburden generation in m3	478814 Cum	36030 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.Hence violation issued under rule 11(1) of MCDR 2017.

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	2 nos : Pit 01& Pit 02	1 no at Pit 01	
3b	Quantity of ROM mineral production proposed	It was proposed to produce 10,03,228 metric tonnes of limestone in the year 2019-20.	Only 23144 metric tonnes of limestone production achieved in the year 2019-20.	violation pointed out.
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
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.	NA	NA	
3g	Grade of sub grade mineral generation	NA	NA	

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3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method	Mechanized method adopted
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	as per proposal
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	proposed	as per proposal
3m	Total area covered under excavation/pits	30.362 ha	6.93 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.6	1:1.55
3o	Total area put in use under different heads at the end of year	38.516Ha	10.12 Ha
3p	Production of ROM mineral during the last five year period as applicable	2015-16 842855 tonne 2016-17 1000003 tonne 2017-18 1000003 tonne 2018-19 1009703 tonne 2019-20 1003228 tonne	2015-16 0 tonne 2016-17 0 tonne 2017-18 200 tonne 2018-19 2238 tonne 2019-20 23144 tonne

3q	General remarks of inspecting officers on method of mining etc.	Overall mine development & production was lagging and not as per the proposals of approved document. Hence violation issued under rule 11(1) of MCDR 2017.
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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)	proposed	as per proposal	
4b	Location of topsoil, OB and mineral reject dumps	Temporary dump at North eastern boundary of the lease	Temporary dump at North eastern boundary of the lease	
4e	Number of active and alive dumps.	02 nos with in lease area.	02 nos with in lease area.	
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.	no proposal	nil	
4i	Length of Retaining wall or garland drain all along dumps	no proposal	nil	
4j	Number of settling ponds	no proposal	nil	
4k	Specific comments of inspecting officer on waste dump management			waste dump maintained properly.

## 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	3.114 Ha	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	nil	Since no topsoil is generated.
5d	Total area fully reclaimed and rehabilitated	3.256 Ha	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			At present completely mined out pit is not available for backfilling therefore lessee has not achieved the targeted proposal of reclamation and rehabilitation.

## 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
6b	Area available for rehabilitation (ha) .	3.114	0.00	
6c	afforestation done (ha) .	3.256 Ha	nil	

6d	No. of saplings planted during the year	NA		NA	
6e	Cumulative no .of plants	NA		NA	
6f	Any other method of rehabilitation	NA		NA	
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	3.114	Ha	nil	Not carried as the area not yet mined out to carry backfilling
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA		NA	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	3.256	Ha	NIL	Not carried out because plantation was proposed over the backfilling area and backfilled area was not available
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA		NA	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	NA		NA	

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
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.			PMCP compliance & progressive closer operations is lagging since the development & production 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 dispatched to own Cement Plant for Captive use .	ROM dispatched to own Cement Plant for Captive use .	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA	
7c	Different grade of mineral sorted out at mines.	NA	NA	

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7d	Any beneficiation process at mines .	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM dispatched to own Cement Plant for Captive use .

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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	proposed	not done as no topsoil generated.	
8b	Concurrent use or storage of topsoil	yes	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 yet.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed	not yet done.	

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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 60.00	
8g	Survival rate	70%	60%	
8h	Water sprinkling on roads to control airborne dust	proposed	Water sprinkling carried out	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			aesthetic beauty in and around mine area needs to be improved.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	given	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 & Mining Engineer in charge Shri S.P.Jaiswal Geologist in charge Shri Siyaram Mishra	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	Covered under current (O/C) Workings 6.930 Reclaimed/Rehabilitated 0.0 Used for waste disposal 2.000	
9d	Scrutiny of Annual return on afforestation	given	Number of trees planted during the year 100 nos Survival rate in percentage 60%.	

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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.264.25.
9h	Scrutiny of Annual return on fixed assets	yes	Value of Fixed Assets (in Rs) 588930121
9k	Scrutiny of Annual return on mining machineries	given	SHOVEL (HYDRAULIC) 1.800 CUM 1 no Non Electrical Opencast DUMPER 25.000 TONNE 4 nos Non Electrical Opencast DOZER 80.000 HP 1 nos Non Electrical Opencast ROCK DRILL (NONELEC.) 100.000 MM 1no 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	25-MAR-21				
MCDR17	Rule 26(2)	05-FEB-21	25-MAR-21				

**Date :**

**(ROBERT SIMON C)**

Indian Bureau of Mines