

**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 : **SQ23**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 27-JAN-20
- (v) Prev.inspection date : 09-FEB-19

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: N. A.
FAX : N. A.

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|-------------------------------|---|--------------------------------|-----------|
| 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 | 2015-16 to 2019-20 | 2017 | NONE |
| 1b | Exploration over lease area for geological axis 1 or 2 | Total 93 nos, of Borehole proposed for period 2015-16 to 2019-20 | Total 93 nos, of Borehole drilled during the period 2015-16 to 2018-19 | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | nil | Total exploration has been carried out by lessee himself | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | NA | NA | |
| 1e | Balance reserve as on 01/04/20 | 33.88 Million Tonne | 37.34 Million Tonne | |
| 1f | General remarks of inspecting officers on geology, exploration etc | | | The exploration in lease has been done. |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|---|---------|
| 2a | Location of development w.r.t.lease area | N8080 - N 8600 E8650 - E 9060 | Within Proposal | |
| 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 developed properly | |
| 2c | Stripping ratio or ore to OB ratio | 1:1.56 | 1.:51 | |
| 2d | Quantity of topsoil generation in m3 | 137103 Cum | nil | |

| | | | | |
|----|---|--------|--------|---------------------------------------|
| 2e | Quantity of overburden generation in m3 | 487733 | 116237 | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | | | Development is less.VIOLATION ISSUED. |

Exploitation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|--------------|-------------|---------|
| 3a | Number of pit proposed for production | 01 | 01 | |
| 3b | Quantity of ROM mineral production proposed | 908732 tonne | 2238 tonne | |
| 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. | Nil | Nil | |
| 3f | Quantity of sub grade mineral generation. | Nil | Nil | |
| 3g | Grade of sub grade mineral generation | Nil | Nil | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | na | na | |

| | | | |
|----|--|---|--|
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | NA | NA |
| 3j | Provision of drilling and blasting in mineral benches | Drilling and blasting is proposed in mineral benches | Drilling and blasting is done in mineral benches |
| 3k | Provision of mining machineries in mineral benches | Yes | Yes |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Yes | Yes |
| 3m | Total area covered under excavation/pits | 24.87 | 6.93 |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:1.56 | 1.:51 |
| 3o | Total area put in use under different heads at the end of year | Quarry-24.87 Ha. Waste dump-5.44 Ha. Infrastructure Road-1.19 Ha. -0.5 Ha. Road-2.19 Ha. | Quarry-6.93 Ha. Waste dump-2.0 Ha. Infrastructure-0.0 Ha. |
| 3p | Production of ROM mineral during the last five year period as applicable | 2015-16 758570 tonnes 2016-17 900002 tonnes 2017-18 900002 tonnes 2018-19 908732 tonnes 2019-20 902905 tonnes | 2015-16 0.00 tonnes 2016-17 0.00 tonnes 2017-18 200 tonnes 2018-19 2238 tonnes 2019-20 23144 tonnes (Till Dec,2019) |

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

MINE IS DEVELOPED
BY BENCHING.

Solid Waste Management - Dumping:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---------|
| 4a | Separate dumping of topsoil, OB and mineral rejects (Rule 32,33) | Separate dumping of topsoil, OB & mineral reject is proposed | Separate dumping of topsoil, OB & mineral reject is being carried out as per proposal | |
| 4b | Location of topsoil, OB and mineral reject dumps | Generated OB will be backfilled in mined out area. There is no proposal is made for storage of topsoil | Existing dump location N8200 TO N8385 & E9090 TO 9261 | |
| 4c | Number of dumps within lease area and outside of lease area | 02 nos within lease area | 02 nos within lease area | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | There is no proposal is made for storage of topsoil | Existing dump location N8200 TO N8385 & E9090 TO 9261 | |
| 4e | Number of active and alive dumps. | 02 | 02 | |
| 4f | Number of dead dumps. | 0 | 0 | |
| 4g | Number of dumps established. | 02 | 02 | |
| 4h | Whether Retaining wall or garland drain all along dumps are there. | There is no proposal for construction of garland drain | NA | |

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|----|--|---|----|---|
| 4i | Length of Retaining wall or garland drain all along dumps | There is no proposal for construction of garland drain | NA | |
| 4j | Number of settling ponds | There is no proposal for construction of settling pond. | NA | |
| 4k | Specific comments of inspecting officer on waste dump management | | | The waste dump is maintained and compacted. |

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. | 3.256 Ha. | Pit is not completely mined out for backfilling | |
| 5b | Area under backfilling of mined out area | 3.256 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 | NOT STARTED | |
| 5d | Total area fully reclaimed and rehabilitated | 3.535 Ha. | Nil | NIL PIT NOT MATURED |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | | Backfilling is not done as per plan. |

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). | Annual report on PMCP submitted | PMCP return is submitted as per Rule 23E(2) on dated 28.05.2019 | |
| 6b | Area available for rehabilitation (ha) . | 3.256 ha (Backfilling area) | NIL | |
| 6c | afforestation done (ha). | 3.535 Ha. | Nil | |
| 6d | No. of saplings planted during the year | 7100 nos | Nil | |
| 6e | Cumulative no .of plants | 14700 NOS | Nil | |
| 6f | Any other method of rehabilitation | NA | NA | |
| 6g | Cost incurred on watch and care during the year | Nil | Nil | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | 3.256 Ha. | Nil | |
| 6i | Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings | 3.256 Ha. | Nil | |
| 6j | Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area | 3.535 Ha | 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 | Nil | |
| 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) | Ambient Air Quality , Noise level survey & water Quality monitoring in core and buffer zone | Ambient Air Quality (Quarterly basis) , Noise level survey (monthly) & water Quality monitoring (Monthly) has been carried out in core and buffer zone | |
| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | | | Mines not running upto plan , hence progressive closure not done. |

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. | NA | NA | |
| 7c | Different grade of mineral sorted out at mines. | NA | NA | |
| 7d | Any beneficiation process at mines . | NA | NA | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | | ROM LIMESTONE DISPATCHED TO PLANT. |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|--|---|---------------------------------------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | Separate removal and utilization of topsoil | REMOVAL IS BEING DONE. | UTILIZATION IN FUTURE. |
| 8b | Concurrent use or storage of topsoil | Top soil will be spread over backfilled area | Nil | WILL BE DONE WHEN BACKFILLING IS DONE |
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | Separate dumps for overburden waste rock | Separate dump for top soil and waste rock is maintained | Yes done. |

| | | | | |
|----|---|--|---|---------------------------------|
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | overburden, waste rock generated during the year will be used for backfilling purpose | Nil | Yes planned in future. |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | Backfilling area= 3.256 Ha. Plantation area =3.535 | Backfilling area= Nil Plantation area =Nil | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | Additional plantation area during the year- 3.535 ha and 7100 nos sampling to be planted | Additional plantation area during the year- Nil | |
| 8g | Survival rate | Not proposed | NA | |
| 8h | Water sprinkling on roads to control airborne dust | Water sprinkling on roads to control airborne dust | Water sprinkling on roads has been carried out to control airborne dust | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | | MINES IS YET TO DEVELOPE FULLY. |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|-----------|---|---------|
| 9a | Status of submission of Monthly and Annual returns | | Monthly return and Annual return has been submitted as per rule 45 of MCDR 2017 | |

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|----|---|--|----------------------|---------------------------------------|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | SP JAISWAL- MANAGER, MAYUR- GEO, SP JAISWAL - ME. | INFO GIVEN | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | 6.930 HECT PIT, 3.880 DUMPS. | WITHIN PLAN PROPOSAL | |
| 9d | Scrutiny of Annual return on afforestation | 100 PLANTS, 75 % SURVIVAL. | | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | 0, NA | NA | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | NO STOCK MAINTAINED.0 | NO STOCK. | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | EXMINE- 247.59RS/T, COS T OF PRODUCTION- 247.59RS/T, CAP TIVE MINES | DATA GIVEN | |
| 9h | Scrutiny of Annual return on fixed assets | FA-604440441 RS, AT END OF YEAR. | | |
| 9k | Scrutiny of Annual return on mining machineries | LIST OF MACHINES GIVEN IN RETURN. | | THE LIST OF MACHINERY IS GIVEN. |

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 |
| Rule 11(1) | 06-MAY-20 | | |
| MCDR17 Rule 46(a) | 06-MAY-20 | | |

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines