

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

MCDR inspection REPORT

Goa regional office

Mine file No : KNT/BJP/LST-93/GOA

Mine code : 38KAR26073

- (i) Name of the Inspecting : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **MR. CHIDANAND PADAPPANNAVAR, MINES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 11-DEC-20
- (v) Prev.inspection date : 30-NOV-19

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **MUDDAPUR LST & DOL. MINES**
- (b) **Registration NO.** :
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : BAGALKOT
- Village : MUDDAPUR
- Taluka : MUDHOL
- Post office : MUDHOL
- Pin Code : 587122
- FAX No. : 08395-240365
- E-mail : nandan.bhandary@jsw.in
- Phone : 08395-250120-130
- (f) Police Station : LOKAPUR
- (g) First opening date : 21-MAY-09
- (h) Weekly day of rest : TUE
2. Address for : South west Mining Ltd., JSW Mining office
correspondance Post-Vidya Nagar, Toranagallu
Bellary District, Karnataka-583275.
3. (a) Lease Number : KAR1576
- (b) Lease area : 18.84
- (c) Period of lease : 20
- (d) Date of Expiry : 20-MAY-29
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

5. Name and Address of the

Lessee : SOUTH WEST MINING LIMITED
 Talur Cross, Vidya Nagar
 (Post), JSW TOWNSHIP,
 Torangallu, SANDUR BELLARY
 KARNATAKA
 Phone:08395-240350
 FAX :08395-240195

Owner : M/s SOUTH WEST MINING LTD
 JSW TOWNSHIP, PO-
 VIDYANAGAR TORANAGALLU
 BELLARY KARNATAKA
 Phone: 08395-250120-13
 FAX : 08395-240365

Mining Engineer

Name : Shri Murali Manas P, Full Time
 Qualification : B.E.Mining
 Appointment/ : 25-JUL-17
 Termination date

| | | | |
|-------------------------------|---|--------------------------------|-----------|
| 6. Date of approval of Mining | : | Fresh under rule 22 MCR1960 | 30-MAY-07 |
| Plan/Scheme of Mining | : | Mining Scheme rule 12 MCDR1988 | 01-DEC-14 |
| | : | MP review under 17(1) MCR 2016 | 05-MAR-19 |

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|---|-----------|---|---------------------------------|
| 1a | Backlog of previous year | Nil | Nil | Explorationalready carried out. |
| 1b | Exploration over lease area for geological axis 1 or 2 | NIL | NIL | |
| 1c | Exploration Agencies and Expenditure in lakh rupees during the year | NIL | NIL | |
| 1d | Balance area to be explored to bring Geological axis in 1 or 2 | NIL | Exploration under G1 or G2 axis of lease are already done. | |
| 1e | Balance reserve as on 01/04/20 | | Limestone (Under111) - 5596913MTS Dolomite (Under111) - 579256 MTS | As per AR 2019-20 |
| 1f | General remarks of inspecting officers on geology, exploration etc | | Entire lease area has covered under G1 or G2 level of exploration. | |

Development :

| Sl.No. | Item | Proposals | Actual work | Remarks |
|--------|--|---|--------------------|---|
| 2a | Location of development w.r.t.lease area | N1790998- N1791229 E530706- E530940 566M-556M | Deviation observed | Violation issued |
| 2b | Separate benches in topsoil, overburden and minerals (Rule 15) | Yes | YES | Top layer top soil and mineral benches with intercalated Waste. |
| 2c | Stripping ratio or ore to OB ratio | 1:0.03 | 1:0.03 | |
| 2d | Quantity of topsoil generation in m3 | 1917 Cum | 527 Cum | Observed less achievement of overall handling of material. |

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|----|---|---|--|------------------|
| 2e | Quantity of overburden generation in m3 | OB(Limestone)- 4999 cum OB(Dolomite)- 166 cum Total-5165cum | Total-1250 cum | |
| 2f | General remarks of inspecting officers on development of pit w.r.t. type of deposit etc | Proposed to develop the working faces between the sections B2-B2' to B3-B3' with RL566m - 556m for limestone & Sections B2-B2' with RL 566m-556m with the corresponding coordinates of tables no. 2.6 and 2.7 respectively. | Mining operation/development has not been found as per the approved MMP. | 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 | Limestone- 250240MTS Dolomite-10317 MTS | Limestone-69204 MTS(Matric Tonnes) Dolomite-5000 MTS | Less consumption reportedly less demand in Plant/market. |
| 3c | Recovery of sailable/usable mineral from ROM production | 96% | Achieved as proposed. | |
| 3d | Quantity of mineral reject generation | no Proposal | Nil | No proposal/achievement of mineral reject. |
| 3e | Grade of mineral rejects generation and threshold value declared. | NIL | NIL | |
| 3f | Quantity of sub grade mineral generation. | no Proposal | NIL | |

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|----|--|---|--|---|
| 3g | Grade of sub grade mineral generation | NIL | NIL | |
| 3h | Manual / Mechanised method adopted for segregating from ROM | Mechanized | Mechanized | crushing & screening plant installed near lease area. |
| 3i | Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. | NIL | NIL | Dry screening & crushing only |
| 3j | Provision of drilling and blasting in mineral benches | Jack hammer drilling, blasting & using rock breaker | Jack hammer drilling, blasting & using rock breaker | |
| 3k | Provision of mining machineries in mineral benches | Excavator & Tipper combination | Using Tipper and excavator combination | |
| 3l | Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM | Average Height 6 mtrs | Yes | |
| 3m | Total area covered under excavation/pits | | Covered under excavation/pits 3.74 Ha | As per AR 2019-20 |
| 3n | Ore to OB ratio for the pit/mine during the year. | 1:0.03 | 1:0.03 | |
| 3o | Total area put in use under different heads at the end of year | | Covered under excavation/pits 3.74 Ha Used for waste disposal- 0.430 Ha Occupied by plant, buildings, etc.- 0.530ha Other Purpose (untouched area, Mineral Stock, Green belt & Safe zone & Afforestation))- 13.190 Ha | As per AR 2019-20 |

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|--------------|--|--|-----------------------|---|--|
| 3p | Production of ROM mineral during the last five year period as applicable | FY Limestone | FY Limestone-in Tones | | It has reported during the inspection that, due to less market demand, production was reduced as per the management discision. |
| | | Dolomite | Dolomite-in Tones | | |
| | | 2015-16 265690 | 2015-16 | 00 | |
| | | 00 | 00 | | |
| | | 2016-17 278397 | 2016-17 | 59235.04 | |
| | | 40000 | | | |
| | | 2017-18 407440 | 00 | | |
| | | 60000 | 2017-18 | 127003.76 | |
| | | 2018-19 438328 | 00 | | |
| | | 60000 | 2018-19 | 93000 | |
| 2019-2020 | 00 | | | | |
| 250240 10317 | 2019-2020 | 69204 | | | |
| | | 5000 | | | |
| 3q | General remarks of inspecting officers on method of mining etc. | Working with HEMM and deep hole blasting with jack hammer. | | As reported, Jack hammer is being proposed/used due to local issue. | |

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 for OB and Top Soil is being done at the mines | Separate Dumping for OB and Top Soil is being done at the mines | |
| 4b | Location of topsoil, OB and mineral reject dumps | N1791130- N1791207 E-530717- E530789 566-556M | N1791058 E531143 | |
| 4c | Number of dumps within lease area and outside of lease area | Lease area = 01 Non Lease area = 0 | Lease area = 01 Non Lease area = 0 | |
| 4d | Location of dumps w.r.t. ultimate pit limit (Rule 16) | NIL | NIL | |
| 4e | Number of active and alive dumps. | ONE | ONE | |
| 4f | Number of dead dumps. | NIL | NIL | |

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|----|--|--|---|--|
| 4h | Whether Retaining wall or garland drain all along dumps are there. | Retaining Wall (L*W*D) 150 MT*1.5 MT* 1.5 MT | Large quantity of minerals stacks and waste materials are observed in the lease without taking the proper control measures. | Violation issued |
| 4i | Length of Retaining wall or garland drain all along dumps | Retaining Wall (L*W*D) 150 MT*1.5 MT* 1.5 MT | Existing maintained. | Large quantity of minerals stacks and waste materials are observed in the lease without taking the proper control measures. Hence, violation issued. |
| 4k | Specific comments of inspecting officer on waste dump management | | Large quantity of minerals stacks and waste materials are observed in the lease without taking the proper control measures. | Violation issued. |

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. | No proposal | Nil | Minerals not exhausted fully and hence area not matured for backfilling. |
| 5b | Area under backfilling of mined out area | NIL | NIL | Minerals not exhausted fully and hence area not matured for backfilling. |
| 5c | Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32) | NIL | NIL | |
| 5d | Total area fully reclaimed and rehabilitated | NIL | NIL | |
| 5e | General remarks of inspecting officers on backfilling and reclamation etc. | | Minerals not exhausted fully and hence area not matured for backfilling. | |

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 | Yes | |
| 6b | Area available for rehabilitation (ha) . | NIL | NIL | Area not matured for backfilling/rehabilitation. |
| 6c | afforestation done (ha). | 2.06Ha for Plantation | 2.06Ha for Plantation with 1000 no's Plantation done in Year 2019-2020. | All along Safety Zone |
| 6d | No. of saplings planted during the year | | 1000 no's Plantation done in Year 2019-2020. | |
| 6e | Cumulative no .of plants | Cumulative - 2500nos. | Cumulative -2500nos. | As reported by mine management. |
| 6f | Any other method of rehabilitation | NIL | NIL | |
| 6h | Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D | NIL | NIL | As area not matured for backfilling |
| 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 on backfilled area | NIL | NIL | |
| 6m | Compliance of rehabilitation of waste land within lease (i)afforestation | NIL | NIL | |
| 6p | Compliance of environmental monitoring (core zone and buffer zone) | | Environmental Monitoring done in (April-June. & July-Sep 2020). | |

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| 6q | General remarks of inspecting officers on PMCP compliance and progressive closure operations etc. | PMCP compliance & progressive closure operations found satisfactory. |
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Mineral Conservation:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|--|------------------|
| 7a | ROM Mineral dispatch or grade-wise sorting within lease area | Grade wise & Size wise sorting mechanically | Grade wise & Size wise sorting mechanically | |
| 7b | Method of grade-wise mineral sorting i.e. manual or mechanical. | Mechanical | Mechanical | |
| 7c | Different grade of mineral sorted out at mines. | Limestone -BF grade | Limestone -BF grade | |
| 7d | Any beneficiation process at mines | Dry screening & crushing | Dry screening & crushing | |
| 7e | General remarks of inspecting officer on Mineral conservation and beneficiation issues | | Substantial measures on fines, dust or gaseous emissions during, mining, beneficiation or other related activities to maintain the parameters within permissible limit were observed not been taken. | Violation issued |

Environment:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|---|-----------|-------------|-----------------------------|
| 8a | Separate removal and utilization of topsoil (Rule 32) | NIL | Yes | |
| 8b | Concurrent use or storage of topsoil | Yes | Yes | For green belt development. |

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|----|---|--|--|--------------|
| 8c | Separate dumps for overburden, waste rock, rejects and fines (Rule 33) | OB: Separate dump proposed Top Soil: NA | OB: Stored separately Top Soil: Stored separately all along the lease boundary for plantation | |
| 8d | Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use | NIL | NIL | |
| 8e | Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) | NIL | NIL | |
| 8f | Baseline information on existence of plantation and additional plantation done (Rule 41) | | 1000 nos | Year 2019-20 |
| 8g | Survival rate | 90% | 90% | |
| 8h | Water sprinkling on roads to control airborne dust | | Deployed water tanker for dust separation | |
| 8i | General remarks of inspecting officer on aesthetic beauty in and around mines area | | Satisfactory. 1000 nos. of sapling reportedly planted during the year 2019-20. | |

Compliance of Rule 45:

| Sl.No. | Item | Propasals | Actual work | Remarks |
|--------|--|---|---|---------|
| 9a | Status of submission of Monthly and Annual returns | MR Submitted up to =Nov 2020 AR Submitted up to =2019-2020 | MR Submitted up to =Nov 2020 AR Submitted up to =2019-2020 | |

| | | | | |
|----|---|--|--|-----------------|
| 9b | Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager | Furnished | Mining Engineer :- Shri A B Nagaraj & Geologist appointed. | |
| 9c | Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc. | NIL | Covered under excavation/pits 3.74 Ha Used for waste disposal- 0.430 Ha Occupied by plant, buildings, etc.- 0.530ha Other Purpose (untouched area, Mineral Stock, Green belt & Safe zone & Afforestation))- 13.190 Ha | |
| 9d | Scrutiny of Annual return on afforestation | 1000 nos | 1000 nos | |
| 9e | Scrutiny of Annual return on mineral reject generation (Grade and quantity) | NIL | NIL | |
| 9f | Scrutiny of Annual return on ROM stock and/or graded ore | ROM -NIL Grade wise:- Limestone:- BF Grade- 103969.484te Dolomite:-3686 Te | ROM -NIL Grade wise:- Limestone:- BF Grade- 103969.484te Dolomite:-3686 Te | |
| 9g | Scrutiny of Annual return on sale value, Ex. Mine price and production cost | Ex mine price- Limestone:- 416Rs/te Dolomite-395 Rs/Te Production Cost- 347.45Rs/Te | Sample invoice examined. | Found in order. |
| 9h | Scrutiny of Annual return on fixed assets | Value of Fixed Assets (inRs.) 29200000 | Value of Fixed Assets (inRs.) 29200000 | |

9k Scrutiny of Air Compressor- Air Compressor-03 nos.
Annual return on 03 nos. Back hoe-2 nos.
mining Back hoe-2 Crusher-1
machineries nos. Tipper 16 nos.
Crusher-1 Water tanker 01
Tipper 16 nos. &Others ancillary.
Water tanker
01
&Others
ancillary.

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) | 29-DEC-20 | 06-APR-21 | MCDR17 | Rule 11(1) | 29-DEC-20 | 06-APR-21 |
| MCDR17 | Rule 35(2) | 29-DEC-20 | | MCDR17 | Rule 35(2) | 29-DEC-20 | |
| MCDR17 | Rule 40 | 29-DEC-20 | 06-APR-21 | MCDR17 | Rule 40 | 29-DEC-20 | 06-APR-21 |
| MCDR17 | Rule 46(a) | 29-DEC-20 | 06-APR-21 | MCDR17 | Rule 46(a) | 29-DEC-20 | 06-APR-21 |

Date :

(SURESH PRASAD)

Indian Bureau of Mines