

MCDR-MIFLOLST/6/2022-GOA-IBM_RO_GOA
INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

1/29420/2024

MCDR inspection REPORT

Goa regional office

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

Mine code : 38KAR26073

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : S/SHRI. NANDAN BHANDARY, AGENT AND CHIDANAND P.,MINES
Official with
Designation
- (iv) Date of Inspection : 23-AUG-23
- (v) Prev.inspection date : 11-DEC-20

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 : 17.89
(c) Period of lease : 50
(d) Date of Expiry : 20-MAY-59
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

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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 : A.B.NAGARAJ,Full Time
 Qualification : BE MINING
 Appointment/ : 03-NOV-20
 Termination date

Mining Engineer

Name : CHIDANAND P.,Full Time
 Qualification : BE MINING
 Appointment/ : 03-NOV-20
 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
	:	MP modif under 17(3) MCR 2016	09-FEB-22

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PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 nos. of non-core boreholes proposed.	Nil	Violation of rule 11(1) issued on 01.09.2023.
1b	Exploration over lease area for geological axis 1 or 2	G1	G1: 15.44 Ha. G2: Nil Non-mineralized: 3.40 Ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	By Lessee.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 proposed.	G1 proposed.	
1e	Balance reserve as on 01/04/20		5.889 million tonnes of Limestone & 0.445 million tonnes of Dolomite. As on 01.04.2023.	Limestone quality: CaO 45.73% Dolomite quality: MgO 18.36%.
1f	General remarks of inspecting officers on geology, exploration etc			Entire ML area is explored by the lessee under G1 level by drilling with 06 nos. of DTH and 10 nos. of core boreholes. Further, 8 nos. of check boreholes were proposed by the lessee in F.Y. 2022-23 which was not carried out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	1791143 N to 1791221 N and 530674 E to 530759 E	1791150 N to 1791230 N and 530739 E to 530788 E	Deviation observed in respect of Limestone working. Violation of rule 11(1) issued on 01.09.2023.

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore proposed.	Benches in Ore: 3 Benches in Overburden: 0	
2c	Stripping ratio or ore to OB ratio	1:0.043	1: 0.112	
2d	Quantity of topsoil generation in m3	11,880 m3	3,360 m3	BD 2.0 tonnes/m3
2e	Quantity of overburden generation in m3			440,000 tonnes of Limestone & 60,000 tonnes of Dolomite ROM production have been proposed during F.Y. 2022-23, against which no Limestone ROM production has been reported; Dolomite production of 60,000 tonnes has been reported. Violation of rule 11(1) issued on 01.09.2023.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit proposed	Single pit.	Dimension of existing pit was: 300m x 190m x 18m
3b	Quantity of ROM mineral production proposed	440,000 tonnes of Limestone & 60,000 tonnes of Dolomite	Limestone: Nil Dolomite: 60,000 tonnes of production was reported in 2022-23.	
3c	Recovery of sailable/usable mineral from ROM production	95% recovery of ROM proposed for Limestone	No Limestone production is reported in 2022-23	90% recovery achieved for Dolomite.

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3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not applicable	As reported by the lessee during inspection.
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not Applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised mine	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	Proposed to drill by jack hammer and blasting using slurry and UNFO	As per proposal, however drilling & blasting requirement is very less.	106 (2) (B) Permission Obtained from DGMS as per MMR 1961.
3k	Provision of mining machineries in mineral benches	Drill Machine-1 Excavator-2 Crusher-1 Tipper-3 Water Tanker-1	Drill Machine-1 Excavator-2 Crusher-1 Tipper-3 Water Tanker-1	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8m bench height proposed.	Average height 6m is maintained	
3m	Total area covered under excavation/pits	6.69 Ha. at the end of F.Y. 2023-24.	5.88 Ha.	Actual area utilizations are furnished as per the approved RMP dated 04.01.2024
3n	Ore to OB ratio for the pit/mine during the year.	1:0.043	1: 0.112	

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3o	Total area put in use under different heads at the end of year	Area under mining: 6.69 Ha. Dump: 0.43 Ha. Mineral Storage: 1.30 Ha. Infrastructures & Road: 0.90 Ha.	Area under mining: 5.88 Ha. Dump: 0.63 Ha. Mineral Storage: 1.63 Ha. Infrastructures & Road: 1.03 Ha.	Area under mining: 5.88 Ha. Dump: 0.63 Ha. Mineral Storage: 1.63 Ha. Infrastructures & Road: 1.03 Ha.
3p	Production of ROM mineral during the last five year period as applicable	Limestone: 2018-19: 438,328 2019-20: 239,942 2020-21: 280,013 2021-22: Nil 2022-23: 440,000 (in tonnes) Dolomite: 2018-19: 60,000 2019-20: 9,984 2020-21: 19,968 2021-22: 60,000 2022-23: 60,000 (in tonnes)	Limestone: 2018-19: 93,000 2019-20: 69,204 2020-21: 38,870 2021-22: Nil 2022-23: Nil (in tonnes) Dolomite: 2018-19: Nil 2019-20: 5000 2020-21: 19,800 2021-22: 42,314 2022-23: 60,000 (in tonnes)	
3q	General remarks of inspecting officers on method of mining etc.			No Limestone ROM production has been reported during F.Y. 2022-23. Such production deviation further attributed to the deviations in proposed mining locations. Violation of rule 11(1) issued on 01.09.2023.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed in F.Y 2022-23	Separate dumping of OB.	
4b	Location of topsoil, OB and mineral reject dumps	OB dumping proposal given in N 1791040 to N1791100; E 531090 to E 531240	1791020 N to 1791080 N and 531103 E to 531246 E	Top soil was earlier utilized for plantation along the 7.5m safety barrier.
4c	Number of dumps within lease area and outside of lease area	01 no. of dump proposed.	01 no. dump present within ML area. Nil outside ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL proposed.	Located outside the UPL.	
4e	Number of active and alive dumps.	01 no.	01 no.	
4f	Number of dead dumps.	No proposal.	Nil	
4g	Number of dumps established.	No proposal.	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed along the toe of dump and mineral stocks.	Constructed as per proposal.	
4i	Length of Retaining wall or garland drain all along dumps	51 m retaining wall along the toe of the dump proposed in 2022-23.	50 m retaining wall constructed in F.Y 2022-23. Total 357m of retaining wall constructed so far.	Retaining wall constructed along the ML boundary and along the active dump.
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			No deviation in respect of waste dumping was observed during the inspection. Retaining wall along the waste dump constructed by the lessee as per approved proposals.

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.	No proposal	Nil as the mine pit is not matured for backfilling.	
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine pit is not matured for backfilling since mineral persists at the bottom of mine workings.

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.	Submitted for F.Y. 2022-23	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	0.31 Ha. during 2022-23	0.33 Ha.	
6d	No. of saplings planted during the year	100 nos.	751 nos. within the ML area in 2022-23.	
6e	Cumulative no .of plants	Not specified.	Apprx. 4500 nos. saplings planted along the safety barrier.	
6f	Any other method of rehabilitation	Not specified	Rs. 100,000/- as reported by the lessee representative	

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6g	Cost incurred on watch and care during the year	No proposal	Not applicable
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Not applicable

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6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Not applicable	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Environmental monitoring is carried out periodically and parameters are found within stipulated limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Apprx. 4500 nos. saplings were planted within the ML area along the safety barrier.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM dispatch proposed after sizing and sorting.	ROM & grade wise dispatch after sizing and sorting.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical sizing and sorting.	Mechanical sizing and sorting by crusher.	Crusher has been installed within ML area for sizing and screening of ore.
7c	Different grade of mineral sorted out at mines.	Proposed for all +34% CaO in respect of Limestone.	BF grade Limestone dispatch reported in F.Y. 2022-23	
7d	Any beneficiation process at mines	No proposal	Nil expect crushing and dry screening.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Grade wise mineral being dispatched from the mine after sizing and sorting of ores. 988.85 tonnes of BF grade Limestone and 53199.99 tonnes of Dolomite were dispatched from the mine during 2022-23.

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed	No Top Soil generation in F.Y. 2022-23	
8b	Concurrent use or storage of topsoil	No proposal	Not applicable	Top soil earlier used for plantation along the safety barrier zone.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Dumping of waste is proposed.	Separate dumping of waste has been made.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pit is not matured for backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed during conceptual stage.	Not applicable as of now.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	Apprx. 4500 nos. saplings were planted within ML area.	
8g	Survival rate	Not specified.	70 to 80%	
8h	Water sprinkling on roads to control airborne dust	Proposed.	Water tanker arrangement for water sprinkling on mine roads has been made.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty around the ML area was good.

Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Feb. 2024 & A.R. Submitted up to 2022-2023	Date of submission of AR was 28.06.2023.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri Chidanand Padadappanavar Mining Engineer: Shri A B Nagaraj Geologist: Shri Natraj B	Manager: Shri Chidanand Padadappanavar Mining Engineer: Shri A B Nagaraj Geologist: Shri Natraj B	Notices of appointments of Mining Engineer and Geologist were submitted in Form -H.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining: 5.66 Ha. Dump: 0.60 Ha. Infrastructure s & Road: 0.94 Ha.	Area under mining: 5.88 Ha. Dump: 0.63 Ha. Mineral Storage: 1.63 Ha. Infrastructures & Road: 1.03 Ha.	
9d	Scrutiny of Annual return on afforestation	751 nos. within ML area.	751 nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Furnished as Nil	No mineral reject generation in 2022-23.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stocks: Nil in respect of Limestone and Dolomite both. Graded ore closing Stock of BF grade Limestone: 110188.864 tonnes. Graded ore closing Stock of Dolomite: 16450.073 tonnes.	Actual was also same at that time as per mine production and dispatch register.	

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9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-Mine Price for BF grade Limestone: Rs. 416/ tonne and Ex-Mine Price for Dolomite: Rs. 470/tonne Production Cost: Rs. 522.84 /tonne	Some of the invoices were checked during inspection and sale value given was found correct.
9h	Scrutiny of Annual return on fixed assets	Net closing balance is furnished as Rs. 11995,598/-	Net closing balance and estimated market values are mentioned in AR.
9k	Scrutiny of Annual return on mining machineries	Machinery details furnished.	Air Compressor: 1 no. Excavator: 2 nos. Tippers: 3 nos. Crusher: 1 no. Water tanker: 1 no.

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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)	01-SEP-23	04-APR-24			

Date :**(KRISHNENDU CHATTERJEE)**

Indian Bureau of Mines