

**MCDR INSPECTION REPORT****General**

S.N.	Particulars	Details
1	Name of the Mine	BISTRA LIMESTONE MINE
	Date of Inspection:	23/03/2024
	Name of Inspecting Officer	IBRAHIM SARIEF, Deputy Controller of Mines
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	- 17.07 Ha FOREST AREA - NIL
3	Mine code	38MPR18134
4	IBM Registration Number under rule 45 of MCDR,1988	IBM/5445/2011
5	Name of the Lease, Address, Phone, email and fax number	135 Biplabi Rash Bihari Basu Road 2nd floor Kolkata,
6	Village	Bistra
7	Taluka/Mandal	Katni
8	District	Katni
9	Pin code	
10	State	MADHYA PRADESH
11	Post Office	Bistra
12	Nearest Police Station	Katni
13	Nearest Railway Station	
14	Date of Grant of Mining Lease	06-09.1980
15	Date of Execution	06-09.1980, 26.03.2020- Expiry 05.09.2030
16	Date of opening of Mine	21.03.1981
17	Date of First Renewal, if applicable and its period & expiry	21.06.2021,
18	Date of Second Renewal, if applicable and its period & expiry	26.03.2020
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	-
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Shailendra Kumar Worah, 135 Biplabi Rash Bihari Basu Road 2nd floor Kolkata,
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	K K Chandra
22	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Vinod Kumar Patel
23	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Vinod Kumar Patel
24	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	YES / Shri Ratnesh Kumar Patel,
25	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	21.08.2000. 06.08.2020
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	20.10.2005, 31.07.2008, 21.11.2011, 18.05.2015
27	Mineral(s) granted in lease and approved for	LIMESTONE

	Mining	
28	Method of Mining (Opencast, Underground)	Opencast
29	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
30	Captive/Non-Captive	Non Captive

### Exploration

S.N.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year 2022-23	No proposal during the year	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	No proposal	Nil	
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	NA	
1e	Balance reserves as on 01.04.2023	As on 01.04.2023: 111 - : 1.283215 Million Tonnes	1.28 Million Tonnes	
1f	General remarks of Inspecting officer on geology, exploration etc.	<b>Exploration:</b> - Entire lease area is explored in G1 scale		

### Development

S.N.	Item	Proposals	Actual Work	Remarks
2a	Location of Development w.r.t. lease area	N 2651266 –N 2651589 and E 444060 –E 444521	N 2651266 –N 2651589 and E 444060 –E 444521	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate bench for Top Soil, Ob and Mineral bench to be developed	Separate bench for top soil, Ob and Mineral is maintained	
2c	Stripping ratio or ore to OB ratio	1:0.33	1:0.33	
2d	Quantity of topsoil generation in m <sup>3</sup>	787 cum	Nil	No top bench developed
2e	Quantity of overburden generation in m <sup>3</sup>	37399 m <sup>3</sup>	845 m <sup>3</sup>	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	The mine is developed as per proposals.		

### Exploitation

S.N.	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	01	01	
3b	Quantity of ROM mineral production proposed (2022-23)	256423 Tonnes	6260 Tonnes	Less Demand
3c	Recovery of Salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Not proposed	NA	
3f	Quantity of sub-grade mineral generation	Not proposed	NA	
3g	Grade of sub-grade mineral generation	Not proposed	NA	

3h	Manual/Mechanized method adopted for segregation from ROM	Mechanised method adopted	Mechanised method adopted	Screen/Wobbler
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	No beneficiation study carried out	
3j	Provision of drilling & blasting in mineral benches	Deep hole drilling and Blasting using high explosives	Drilling and Blasting is being carried out as proposed	
3k	Provision of mining machineries in mineral benches	Excavator- 0.9 cum, Dumper- 15 T, Front end loader- 2 cum	Proposed machineries are deployed in the lease	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7.5 Mtr	Bench height of 7.5 Mtr is suitable	
3m	Total area covered under excavation /pits	11.0 Ha	9.18 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0.33	1:0.33	
3o	Total area put in use under different heads at the end of year	15.92	15.54	
3p	Production of ROM mineral during last five-years period, as Applicable	22-23	256423	6260
3q	General remarks of inspecting officer on method of mining etc	Fully mechanized method of mining with deep hole drilling and blasting is being carried out.		

### **Solid Waste Management-Dumping**

S.N.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Separate dumping of topsoil, OB is proposed	Separate dumping of topsoil, OB is being done	
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Nil	
4c	Number of Dumps within lease area and outside lease area	No proposal	Nil	
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	No proposal	Nil	
4e	Number of Active & Alive dumps	No proposal	Nil	
4f	Number of deed dumps	No proposal	Nil	
4g	Number of dumps established	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Not applicable	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Not applicable	
4j	Number of settling ponds	01	01	
4k	Specific commends of inspecting officer on waste dump management	Waste dumping is carried out as proposed		

**Solid Waste Management-Backfilling**

S.N.	Item	Proposals	Actual Work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Complete extraction of mineral from mined out area proposed before starting backfilling.	Backfilling is being done after complete excavation of ore	
5b	Area under backfilling of mined out area	0.019 Ha	0.001 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Yes proposed for plantation	as per proposal	
5d	Total area fully reclaimed & rehabilitated	No such proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Backfilling is being carried out in 7.5 meter safety zone towards East side of lease area		

**Progressive Mine Closer Plan**

S.N.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and Correctly-Rule 23E (2).	To be submitted as per statute	Submitted in time on time	
6b	Management of worked/mined out benches			
	i) Area available for rehabilitation (Ha)	0.019	0.001	
	ii) Afforestation done (ha)	No proposal for mined out benches.	NIL	
	iii) No.of saplings planted during the year	No proposal for mined out benches.	NIL	
	iv) Cumulative no. of plants	No proposal for mined out benches.	NIL	
	v) Any other specific method of rehabilitation	No proposal	NIL	
	vi) Cost incurred on watch & care during the year	Not such proposals	Nil	
6c	Compliance on reclamation and rehabilitation by backfilling	---		
	i) Voids available for backfilling (L*B*D)	0.019	0.001	
	ii) Void filled by waste/tailings	No proposal	NIL	
	iii) Afforestation on the backfilling	No Proposal	NIL	
	iv) Rehabilitation by making water reservoir	No Proposal	NIL	
	v) Any other specific means	No Proposal	NIL	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitation iii) Method of rehabilitation	200 plants NIL No Proposal	250 plants NIL NIL	
6e	Compliance of Environment monitoring (core zone & buffer zone)	Environment monitoring (core zone & buffer zone) is to be done	Environment Monitoring is being carried out	Air/ Noise/ Water being done.
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Plantation is being done as proposed, environment monitoring is being carried out. Backfilling is being carried out as per proposal.		

### Mineral Conservation

S.N.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	Entire ROM produced to be dispatched	6260 Tonnes of ROM produced is dispatched during the R.Y 2022-23	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	no grade wise sorting proposed	no grade wise sorting is done	
7c	Different grade of mineral sort out at mine	Cement Grade	Cement Grade	
7d	Any beneficiation process at mines	Dry crushing and Screening	Dry crushing and Screening	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Dry crushing and Screening is being carried out to sale the mineral		

### Environment

S.N.	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	As top soil generated to be removed separately & utilised	As top soil generated is being removed separately & used for plantation	
8b	Concurrent use or storage of topsoil	used for plantation	used for plantation	
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NIL	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	On Eastern side of Pit-backfilling is to be done	On Eastern side of Pit-backfilling is being carried out	

8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Scanty, about 200 plants to be done.	250 plants during the year about 5600 Nos saplings planted in the lease area	
8g	Survival rate	No proposal	65%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads to be carried out to control airborne dust	Yes Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Green Belt is developed in and around lease area to improve aesthetic beauty.		

### **Compliance of Rule 45**

S.N	Item	Comments	Remarks
9a	Status of submission of monthly and Annual returns Annual return & Monthly returns shall be submitted in Time as per statute	Annual return & Monthly returns are being submitted in Time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager.	Mining Engineer & manager- Shri Vinod Kumar Patel, Geologist- Ratnesh Kumar Pandey have been employed in the mine	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit Area- 9.180 Waste Disposal- 3.65 Infrastructure & Other - 0.40 Plantation and Other : 2.3 ha,	Within FA Limit
9d	Scrutiny of Annual return on afforestation	250 Nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	Nil, No Subgrade Mineral rejected below threshold.	
9f	Scrutiny of Annual return on ROM stock and/or grade ore	SMS- grade- 830.944 T, BF Grade- 6626 T	
9g	Scrutiny of Annual return on sale value, Ex.Mine price & production costs	Ex mine price SMS- grade- Rs. 473.96, BF Grade- Rs. 409.26 COP-Rs. 390.05	
9i	Scrutiny of Annual return on Fixed assets	FA= Rs. 390569512,	

9k	Scrutiny of Annual return on mining Machineries	ROCK DRILL (NON ELEC.)	100 MM	1
		SHOVEL (HYDRAULIC)	0.9 CUM	3
		TIPPER	15 T	7
		LOAD HAUL DUMPER	2.0 CUM	3
		WATER TANKER	10000 LITRE	1

Details of Validations observed during current inspection and compliance position of earlier violation pointed out:

- Nil

Date:

Name: Ibrahim Sharief

Designation: Dy. Controller of Mines