

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

Review and updation of Mining Plan REPORT

Jabalpur regional office

Mine file No : MP/BGT/MANG/26

Mine code : 40MPR01084

- (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 : 09-NOV-20
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LUGMA MN. 48.974 HA.**
- (b) **Registration NO.** : **IBM/2711/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : MADHYA PRADESH
District : BALAGHAT
Village : LUGMA
Taluka : PARASWADA
Post office : UKWA
Pin Code : 481105
FAX No. : 07632-245311
E-mail : v_parida@rediffmail.com
Phone :
- (f) Police Station :
- (g) First opening date : 03-SEP-20
- (h) Weekly day of rest : SUN
2. Address for :
correspondance :
3. (a) Lease Number :
(b) Lease area :
(c) Period of lease :
(d) Date of Expiry :
4. Mineral worked : MANGANESE ORE Main

5. Name and Address of the
Lessee : MOIL LIMITED
VILLAGE- LUGMA TEH-
BHARWELI DISTT.- BALAGHAT
BALAGHAT MADHYA PRADESH
Phone:
FAX :
6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	06 BH,1310 mtr	nil	
1b	Exploration over lease area for geological axis 1 or 2	06 BH,1530	nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	--	--	
1d	Balance area to be explored to bring Geological axis in 1 or 2		all area in G2	
1e	Balance reserve as on 01/04/20		122 -1.626 mio T 222 -1.320 mio T 333-.904 mio t	
			- 0.904	

1f	General remarks of inspecting officers on geology, exploration etc	The ore horizon consists of three units, based on the manganese content, viz, the bottom unit comprising quartzite with thin streaks of manganese ore, the middle unit comprising alternating bands of manganese ore and the cherty-Jaspery quartzite and the top unit, in composition similar to that of the bottom unit. The middle unit, which forms the main source of manganese ore, termed as ore bed. Banding in the ore horizon representing bedding strike N 30de to 85 d S 30 d to 65 d and dips	The Lugma area was explored with 19 Bore Holes, by G.S.I, CPMO and Chemical & Ferro Alloy (CFA), Tumsar, covering the total strike length of 1.60 kms.19 Bore Holes drilled over Lugma area so far. During the Year 1955 to 1960 CPMO had and during the year 1971-72 C&F had explored the area with 10 bore holes. violation pointed out. drilled 4 boreholes in the year 1976-79 GSI had explored the area with 5 boreholes and during the year 1971-72 C&F had explored the area with 10 bore holes.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	UG mine-1550'L nil -540mtr- horizontal. 165MTR vertical-winze	nil	mines not started.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NP	na	

2c	Stripping ratio or ore to OB ratio	na	na	ug mine
2d	Quantity of topsoil generation in m3	na	na	
2e	Quantity of overburden generation in m3	na	na	ug mine
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			ug mine. The area of 48.974 ha is surrounded by other 2 leases, marked as lease I (199.067 ha.) and Lease II (73.567 ha.) shown on surface plan. The surface area in lease 48.974 ha. is devoid of manganese outcrop. However, extensive drilling has established the presence of ore zone beneath the surface up to 950' L. The area 48.974 ha connects the adjoining lease of 73.567 Ha in eastern side and inland in western side at deeper levels from 1650'L to 850'L. mine will be run from shafts .

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	UG mine	nil	

3b	Quantity of ROM mineral production proposed	92857	nil	
3c	Recovery of sailable/usable mineral from ROM production	yes	nil	
3d	Quantity of mineral reject generation	30 % of ROM	nil	
3e	Grade of mineral rejects generation and threshold value declared.	20 % mn,	nil	
3f	Quantity of sub grade mineral generation.		nil	
3h	Manual / Mechanised method adopted for segregating from ROM	manual	nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	np	na	
3j	Provision of drilling and blasting in mineral benches	np	na	it is ug mine.deilling blasing will be done in ug mine
3k	Provision of mining machineries in mineral benches	ug ,manual	ug,manual	shaft and winder
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	NA	na	
3m	Total area covered under excavation/pits	na	na	ug mine

3o	Total area put in use under different heads at the end of year	NA	na	UG mine
3p	Production of ROM mineral during the last five year period as applicable	Year wise Proposed ROM production in tons	Year wise Proposed ROM production in tons 2015-16 : Nil 2016-17: Nil 2017-18 : Nil 2018-19 : Nil 2019-20 : Nil	mines has not started working in 19-20.
3q	General remarks of inspecting officers on method of mining etc.	2015-16 14286 2016-17 57173 2017-18 85714 2018-19 92857 2019-20 92857		proposed method. Method of stoping at Lugma mine is Horizontal cut and fill with post filling by hydraulic. sand stowing operation. ROM will be hoisted through vertical shaft by U-tubs. Size of the stope block: 80 mtrs Level interval: 30 m (vertical) Winzes/ raise: 2.5m x 2.5m Cable bolting: 1.5 m x 1.5 m of sufficient length with min 2 m inside the hang wall contact zone Roof bolt: Roof bolt of 1.5 m length will be put at the center of 4 cable bolts.mine not started in 19-20.

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)	np	na	ug mine
4b	Location of topsoil, OB and mineral reject dumps	na	na	ug mine
4c	Number of dumps within lease area and outside of lease area	np	na	ug mine
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	np	na	ug mine
4e	Number of active and alive dumps.	np	na	ug mine
4f	Number of dead dumps.	np	na	ug mine
4h	Whether Retaining wall or garland drain all along dumps are there.	na	na	ug mine
4i	Length of Retaining wall or garland drain all along dumps	np	na	
4j	Number of settling ponds	np	na	ug mine
4k	Specific comments of inspecting officer on waste dump management			this is ug mine.this is not applicable.mine has not started in 19-20.it is new mine.

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.	na	na	ug mine
5b	Area under backfilling of mined out area	na	na	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	np	na	
5d	Total area fully reclaimed and rehabilitated	np	na	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			it is ug mine. mine is new mine.mine did not start in 19-20.

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).		nil	mines didnt start working in 19-20.
6b	Area available for rehabilitation (ha) .	na	np	
6c	afforestation done (ha) .	np	na	
6d	No. of saplings planted during the year	np	na	
6e	Cumulative no .of plants	np	na	

6f	Any other method of rehabilitation	np	na	ug mine.mine not started in 19-20
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D		na	it is ug mine.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	voids of stopes to be filled.	nil	ug mine.mine not started in 19-20
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	np	na	ug mine.mine not started in 19-20
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	np	na	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	np	na	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	yes,250 nos	not done	

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	np	na	
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes	nil	ug mine.mine not started in 19-20
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			ug mine.mine not started in 19-20.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	grade wise sorting seperation	nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual	nil	
7c	Different grade of mineral sorted out at mines.	Ferro Grade requirement: Mn%- 38 - 48 Silico Grade: MN% 25-30%	nil	mine not started in 19-20
7d	Any beneficiation process at mines	np	na	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	mines has not started in 19-20. no ore wining ,sorting etc is observed.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	np	na	
8b	Concurrent use or storage of topsoil	np	na	it is ug mine.mine has not started in 19-20.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	NP	na	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	to fill up waste in worked out stopes.	nil	it is ug mine.mine has not started in 19-20.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	np	na	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	np	na	

8g	Survival rate	70%	na	
8h	Water sprinkling on roads to control airborne dust	np	na	it is ug mine.mine has not started in 19-20.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			it is ug mine.mine has not started in 19-20.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	no returns are submitted on line.(monthly/annual)	mines has not started operating in year 19-20.it is new mine.notice of opening given in sept 2020.	it is ug mine.mine has not started in 19-20.

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 55(1) (3)	19-APR-21				
MCDR17 Rule 11(1)	19-APR-21				

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines