

MCDR INSPECTION REPORT

Mine file No.-MP/BGT/Mn-----/NGP
40MPR01051

Mine code-

i)Name of inspecting officer-P.Nahar,

ii)Designation- Asstt. Mining Geologist

iii)Accompanying mine Official with /designation- Shri RangaRao, Representative and Shri N.K. Pashine,QP

iv) Dt. Of Inspection-25/04/2018

A)GENERAL

S.No	Particulars	Details
1	Name of the Mine	Chakaheti Manganese Ore
2	Total Lease area (Ha) with break up of Non -forest and Forest Land	3.44Ha.(Revenue)
3	Mine code	40MPR01051
4	IBM Registration Number under rule 45 of MCDR-1988	IBM/15395/2013
5	Name of lessee, address, phone, email and Fax. No.	M/s Shakti Minerals Proprieter-Smt Beena Singh At. & PO-Tirodi Dist. Balaghat(M.P.)481 449
6	Village	Chakaheti
7	Taluka/Mandal	Katnagi
8	District	Balaghat(M.P.)
9	Pin Code	481 332
10	State	M.P.
11	Post office	Katangi
12	Nearest Police Station	Katangi
13	Nearest Railway Station	Katangi
14	Date of Grant of Mining Lease	15/ 10/1981
15	Date of Execution	15/ 10/2001
16	Date of opening of Mine	14/ 10/2001
17	Date of first Renewal, if applicable and its period & expiry	None
18	Date of second Renewal, if applicable and its period & expiry	Second Renewal Not applicable.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	None
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	None
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	None
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	None
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	None
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	BGT/Mn/MPLN-1007/NGP dated 10/12/2008
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	BGT/Mn/MPLN-1007/NGP dated 15/12/2008
27	Minerals(s) granted in lease and proved	Manganese Ore

	for mining	
28	Method of Mining(open Cast, Underground)	Open Cast .
29	Category(Fully Mechanized, Others or Manual.	A Category. OTFM
30	Captive/Non captive	Non captive.

B)Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining.

S.No	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	Not proposed.	Nil	SoM period expired on 31/03/2016.The area has already been expired by putting up 2BH.
1b	Exploration over lease area for Geological axis 1 or 2.	Not proposed.	Nil	----
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not proposed	Not available	----
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not proposed.	Nil	----
1e	Balance reserves as on 01.04.17	----	111-12,670 122-12,480T	As on date of Inspection.
	General remarks of inspecting officer on geology, exploration etc.	Litho units of the area belonging to Mansar Formation of Sauser Group having Precambrian age are exposed in the area showing N30oW-S30oE strike dipping with 60o towards NE. The ML holder has already put up 2Bh in last proposal period. In the present proposal period any exploration neither proposed nor carried out.		

C)Development-

S.No	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease are	Not proposed.	SW part of the Leasearea	Period of last document is expired on 31/03/2016.
2b	Separate benches in topsoil, overburden and mineral (Rule 15) Length x Width x Height	Not proposed.	Soil-3m Mica schist-5m Mn ore- 5m	----
2c	Stripping ratio or ore to OB ratio	Not proposed.	Not noticed as the mine was closed.	----
2d	Quantity of topsoil generation in	Not proposed.	Not noticed as the mine was closed on date	----

	m3		of inspection.	
2e	Quantity of overburden generation in m3	Not proposed.	Nil	----
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	It is a bedded, Stratiform and Tabular deposit of Irregular Habit. But any band of Development was done at proposed location. Development has been done along the strike direction by developing separate benches in Soil, Mica Schist and Mn ore.		

D)Exploitation-

S. No	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	Not proposed.	Two	Old pits
3b	Quantity of ROM mineral production proposed	Not proposed.	None	----
3c	Recovery of saleable/usable mineral from ROM production	85%	Not noticed as the mine was closed.	----
3d	Quantity of mineral reject generation	Not proposed.	None	----
3e	Grade of mineral reject generation and threshold value declared	Not proposed.	None	----
3f	Quantity of sub-grade mineral generation	Not proposed.	None	----
3g	Grade of sub-grade mineral generation	Not proposed.	Nil	----
3h	Manual /Mechanised method adopted for segregating from ROM	Not proposed.	Not noticed as the mine was closed.	----
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	--Do--	----
3j	Provision of drilling & blasting in mineral benches	Not proposed	--Do--	----
3k	Provision of mining machineries in mineral benches	Not proposed	--Do--	----
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Not proposed	--Do--	----
3m	Total area covered	Not proposed	0.71Ha(approx .Till date of	Area of existing pits.

	Under excavation/pits		inspection.)	
3n	Ore to OB ratio for the pit/mine during the year	Not proposed	Not noticed as the mine was closed.	----
3o	Total area put in use under different heads at the end of year	Not noticed as the mine was closed.	1.34Ha(approx.) (Till date of inspection)	----
3p	Production of ROM mineral during last five-year period, as applicable	13-14- Nil 14-15-3823T 15-16-3823T 16-17- Not proposed 17-18- Not proposed	13-14-NIL 14-15-NIL 15-16- Nil 16-17- Nil 17-18-NIL	----
3q	General remarks of inspecting officer on method of mining etc.	The mine is closed since last 5 years. Mining was done by Open Cast method.		

E) Solid Waste Management-Dumping

<u>S.No</u>	<u>Item</u>	<u>Proposals</u>	<u>Actual Work</u>	<u>Remarks</u>
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Not proposed	There is no mineral reject. Separate dump of waste has been made in previous SoM period.	----
4b	Location of topsoil, OB & mineral reject dumps	Not proposed	Waste on Northern and Eastern boundary of the ML area. There is no MR dump.	----
4c	Number of dumps within lease area and outside lease area	Not proposed	07Nos, within the lease area.	----
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Not proposed	Within UPL	----
4e	Number of active & alive dumps	Not proposed.	All dumps are active and alive	
4f	Number of dead dumps	Not proposed.	NIL	
4g	Number of dumps stabilised	Not proposed	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there	Not Proposed	Nil	----
4i	Length of Retaining wall or garland drain all along dump	Not proposed.	Nil	----
4j	Number of settling ponds	Not proposed	One	
4k	Specific comments of inspecting officer on waste dump management	All are old waste dumps, active and alive.		

F) Solid Waste Management-Backfilling-

<u>S.No</u>	<u>Item</u>	<u>Proposals</u>	<u>Actual Work</u>	<u>Remarks</u>
5a	Status on part or full	Not proposed.	Full extraction	----

	extraction of mineral from mined out area before starting backfilling		yet to be done.	
5b	Area under backfilling of mined out area	Not proposed	None	There is no matured land for backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	None	There is no matured land for reclamation and rehabilitation.
5d	Total area fully reclaimed & rehabilitated	Not proposed.	Nil	----
5e	General remarks of inspecting officer on backfilling, reclamation etc.	As on date there is no matured land for backfilling, reclamation and rehabilitation.		

G) Progressive Mine Closure Plan-

S.No	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Not proposed.	Not submitted	The mine is closed since last 5 years.
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Not proposed. Not proposed. Not proposed. Not proposed. Not proposed.	Nil Nil Nil Nil Nil	Presently there is no worked/mined out benches.
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Not proposed.	Not done	Presently, there is matured pit for reclamation and rehabilitation.
6d	Compliance of Rehabilitation of	Not proposed	Not done	----

	waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation			
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Not proposed.	Not Done	----
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations .	Presently , there is no matured land for reclamation and rehabilitation.		

H)Mineral Conservation-

S.No	Item	Proposals	Actual Work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not proposed.	Grade wise sorting within the lease area	As noticed from old stack.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not proposed.	Manually .	--do--
7c	Different grade of mineral sorted out at mines	Not proposed.	Mostly Ferro-Manganese and Silico Manganese grade	----
7d	Any beneficiation process at mines	Not proposed.	None	----
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Sizing was done manually as noticed from previous stacks, any beneficiation neither proposed ,nor carried out.		

I)Environment -

S.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Not proposed.	Not noticed	----
8b	Concurrent use or storage of topsoil	Not proposed.	Any separate top soil stock is not noticed.	----
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Not proposed.	Separate dumps of waste rocks only.	----
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed.	Presently not done.	There is no matured land.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Not Proposed	Nil	--Do--

8f	Baseline information on existence of plantation & additional plantation	The lease area is Non Forest Land. About 20 nos. of plants are noticed in the lease area.
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J)Compliance of rule 45-

S.No	Item	Comments	Remarks	
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to -Not submitted since last 3 years. A.R. Submitted up to -Not submitted since last 3 years.	A violation under rule 45(5)(b) and (c) is being pointed out.	
S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not submitted	Manager- None Mining Engineer- None Geologist- None	----
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Not submitted	Area already exploited-00 Covered Under current Mining-0.0.71Ha(approx.) Reclaimed and rehabilitated-NIL Used for Waste disposal--- 0.3Ha(approx.) Occupied by Plant, building etc-0.03Ha Plantation-Nil	----
9d	Scrutiny of Annual return on afforestation	Not submitted	20Nos.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Not submitted_	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Not submitted_	>100T	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Not submitted	NA	----
9i	Scrutiny of Annual return on fixed assets	Not submitted_	NA	----
9k	Scrutiny of Annual return on mining machineries	Not submitted	Nil	

Details of violation observed during current inspection and compliance position of violation pointed out- During inspection violation of rule 11(4),28(1),45(5)(b) and 45(5)(c) of MCDR-2017 are found and same has been pointed out to the lessee on 26/03/2019.

(P.Nahar)
Asstt. Mining Geologist
Indian Bureau of Mines,Jabalpur