

MCDR INSPECTION REPORT

- i) Mine file No.-MP/BGT/MN-60/NGP Mine code-40MPR01055
 ii) Name of inspecting Officer-P.Nahar,
 iii) Designation-Asstt. Mining Geologist
 iv) Accompanying mine Official –Shri Arun Swami,Geologist, Shri Sajay Dixit-Mining Engineer
 v) Date of Inspection- 17/07/2021
 vi) Prev. Inspection date- 11/05/2016

A)GENERAL

S.No.	Particulars	Details
1	Name of the Mine	Warud Manganese Ore
2	Total Lease area (Ha) with break up of Non-forest and Forest Land	4.46Ha.(Revenue)
3	Mine code	40MPR01055
4	IBM Registration Number under rule 45 of MCDr-1988	IBM/10271/2012
5	Name of lessee, address, phone, email and Fax. No.	M/s Thomson Gazalle C/o Shri Ajay Masih H.No.-12,Panchsheel Nagar, District- Raipur(C.G.) Email-masihajay@rediffmail.com Mo-98261440262
6	Village	Warud
7	Taluka/Mandal	Katangi
8	District	Balaghat(M.P.)
9	Pin Code	NA
10	State	M.P.
11	Post office	Katangi
12	Nearest Police Station	Katangi
13	Nearest Railway Station	Tirodi
14	Date of Grant of Mining Lease	25/07/2008
15	Date of Execution	25/07/2008
16	Date of opening of Mine	01/04/2011
17	Date of first Renewal, if applicable and its period & expiry	Not applicable
18	Date of second Renewal, if applicable and its period & expiry	Not applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri Ajay Masih
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Ajay Masih H.No.-12,Panchsheel Nagar, District- Raipur(C.G.) Email-masihajay@rediffmail.com Mo-98261440262
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Sanjay Dixit, Diploma in Mining and Mine Surveying
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Sanjay Dixit, Diploma in Mining and Mine Surveying
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in	Mining Plan-BGT/Mn/MPLN-985/NGP dated 06/06/2008 Modified MP-

	approval letter, if any.	MP/Balaghat/Mn/MPLN/MOD-35/2016-17 dated-06/03/2017
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	None
27	Minerals(s) granted in lease and proved for mining	Manganese Ore
28	Method of Mining(open Cast, Underground)	Open Cast
29	Category(Fully Mechanized, Others or Manual.	A
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	4 BH at the grid interval of 50mx50m .total meterage-120m	Any not carried out.	Mining was closed due to want of EC.
1b	Exploration over lease area for Geological axis 1 or 2.	G1	Nil	--Do--
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not available	Not available	--Do--
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not available	Not available	--Do--
1e	Balance area to be explored to bring Geological axis in 1 or 2	Entire area under G1	Entire area under G2.	--Do--
1f	Balance reserves as on 01.04.15	122-0.18738 MT 222-0.01486MT		--Do--
	General remarks of inspecting officer on geology, exploration etc.	Mn ore is found as N35oW-S35oE trending bands ,dipping with 60o due South direction. In the approved modified mining plan it was proposed to explore entire area by putting 4 BH each having depth of 30m.Mining could not be commenced due to want of EC. Hence exploration as proposed in the SoM has been carried out.		

C)Development-

S.No	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease are	Central part of the lease area.	Not done	Mining was closed due to want of EC.
2b	Separate benches in topsoil, overburden and mineral (Rule 15) Length x Width x Height	Soil-190mx8mx2.5m Mica schist- 3 benches. 190mx6mx4-6m Mn Ore One bench- 190mx8mx6m	Any subsequent Development not done.	--Do--
2c	Stripping ratio or ore to OB ratio	1:30	Not done	--Do--
2d	Quantity of topsoil generation in m3	16,200m3	Nil	--Do--
2e	Quantity of overburden generation in m3	100500m3	Nil	--Do--
2f	General remarks of inspecting officer	On the day of inspection entire pit was water logged. Hence any litho unit including Mn ore band could not be observed. As		

	on development of pit w.r.t. type of deposit etc.	mentioned in the approved document it is Bedded, Stratiform and Tabular deposits of Irregular Habit. Any work could not be done due to want of EC.
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D)Exploitation-

S. No	Item	Proposals	Actual Work	Remarks
3a	Number of pits proposed for production	One	One	Old pit
3b	Quantity of ROM mineral production proposed	16-17-900T 17-18-3000T 18-19-2400T 19-20-3300T 20-21-2400T	Nil	During last 5 years the mine was not in operation due to want of EC.
3c	Recovery of saleable/usable mineral from ROM production	95%	Nil	--Do--
3d	Quantity of mineral reject generation	5% of the ore generated	Nil	--Do--
3e	Grade of mineral reject generation and threshold value declared	24.2%,MnO ₂	Nil	--Do--
3f	Quantity of sub-grade mineral generation	5% of the Mn ore generated	Nil	--Do--
3g	Grade of sub-grade mineral generation	Same as S.No.3(e)	Nil	--Do--
3h	Manual /Mechanised method adopted for segregating from ROM	Mechanized	Not noticed as the mine was not in operation.	--Do--
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Zigging	--do--	--Do--
3j	Provision of drilling & blasting in mineral benches	Proposed	--Do--	--Do--
3k	Provision of mining machineries in mineral benches	Deployment of JCB	--Do--	--Do--
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed as per deployment of mining machinery	--Do--	--Do--
3m	Total area covered under excavation/pits	1.4650Ha	0.8170Ha	--Do--
3n	Ore to OB ratio for the pit/mine during the year	1.30	Not noticed as the mine was not in operation.	--Do--
3o	Total area put in use under different heads at the end of year	4.2015Ha	1.3580Ha	--Do--

3p	Production of ROM mineral during last five-year period, as applicable	16-17-900T 17-18-3000T 18-19-2400T 19-20-3300T 20-21-2400T	Nil	During last 5 years the mine was closed due to want of EC.
3q	General remarks of inspecting officer on method of mining etc.	Mining was proposed by open cast method deploying HEMM. Same could not be verified because the mine was not in operation due to want of EC		

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)	Separate dumping of Top Soil, OB, and separate stacking of Mineral Reject.	Waste was dumped separately during previous SoM period.	No additional dumping was noticed as the mine was not in operation due to want of EC.
4b	Location of topsoil, OB & mineral reject dumps	Waste Near BP-6 between BP-1 to BP -16 Soil all along the lease boundary	Waste near the Eastern boundary.	Mine was not in operation due to want of EC.
4c	Number of dumps within lease area and outside lease area	3 within the lease area	3 within the lease area.	--do--
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	--do--
4e	Number of active & alive dumps	Three active and alive	Three old dump partially stabilized.	--do--
4f	Number of dead dumps	Not proposed.	--do--	--do--
4g	Number of dumps stabilised	Not proposed	--Do--	--do--
4h	Whether Retaining wall or garland drain all along dumps are there	Not proposed	None	--do--
4i	Length of Retaining wall or garland drain all along dump	Not proposed.	None	----
4j	Number of settling ponds	Not proposed.	None	----
4k	Specific comments of inspecting officer on waste dump management	Due to want of EC mining was not in operation during current SOM period. Hence any additional dumping was not noticed.		

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 extraction of mineral from mined out area before starting backfilling	Not proposed.	Any backfilling not done	Presently there is no matured land for backfilling
5b	Area under backfilling of mined out area	Not proposed.	Nil	--do--

5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed.	Nil	--do--
5d	Total area fully reclaimed & rehabilitated	Not proposed.	Nil	--do-
5e	General remarks of inspecting officer on backfilling, reclamation etc.	As on date of inspection there was not matured land for Reclamation and Rehabilitation, hence backfilling was neither proposed not carried out.		

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.	---	Submitted.	----
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	i)Not proposed. ii)1300m2 iii)Not proposed iv)Not proposed v) Not proposed vi)Not proposed	i)Nil ii)3500m2 iii)500Nos. iv)None v)None v) None.	This activity was done during last SoM period.
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	Nil Nil Nil Nil Nil	None None Nil Nil Nil	Presently there is no matured land for reclamation and rehabilitation.
6d	Compliance of Rehabilitation of waste land within lease			

	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i)300Nos ii)1300m2 iii)Afforestation	i)500Nos. ii)0.50Ha iii)Afforestation	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Not proposed	None	
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Presently there is no matured land for reclamation and rehabilitation .All 3 old waste dumps are partially rehabilitated by plantation of about 500 Nos. of trees.		

H)Mineral Conservation-

<u>S.No</u>	<u>Item</u>	<u>Proposals</u>	<u>Actual Work</u>	<u>Remarks</u>
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting within the lease area.	Not noticed as the mine was closed due to want of EC.	---Do---
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual	--Do--	
7c	Different grade of mineral sorted out at mines	Ferro alloys and Steel Plants	--Do--	
7d	Any beneficiation process at mines	Not proposed	None	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	As on date of inspection the mine was closed due to want of EC. Hence this activity was not noticed.		

I)Environment -

<u>S.No</u>	<u>Item</u>	<u>Proposals</u>	<u>Actual Work</u>	<u>Remarks</u>
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	Not noticed as the mine was closed due to want of EC.	----
8b	Concurrent use or storage of topsoil	Removal followed by Storage thereafter utilization	--Do--	----
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed Waste rock and Top Soil	Waste dump made during pervious SoM period was noticed.	----
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Proposed at the Conceptual Stage	Presently , there is no matured land for restoration	----
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc.)	Proposed at the Conceptual Stage	Presently , there is no matured land for restoration	----
8f	Baseline information on existence of plantation &	About25 Nos. of fully grown tree have been noticed besides afforestation done by the ML holder during last		

	additional plantation	SoM period about 500Nos.
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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 -June-21 A.R. submitted up to -20-21		--
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	Mining Engineer-Shri Sanjay Dixit Diploma in Mining and Mine Surveying Geologist-Shri Arun Swami, M.Sc.(Geology)	Mining Engineer-Shri Sanjay Dixit Diploma in Mining and Mine Surveying Geologist-Shri Arun Swami, M.Sc.(Geology)	----
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area exploited-4.464Ha Area covered under open cast working-1.350Ha Reclamation and Rehabilitation- Nil Area used for waste disposal- Nil Area occupied by building-100ft2	Area exploited--- Nil Ha Area covered under open cast working-1.3580Ha Reclamation and Rehabilitation- Nil Area used for waste disposal-0.5Ha Area occupied by building-100ft2	----
9d	Scrutiny of Annual return on afforestation	50Nos.	500Nos (Cumulative)	----
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	----
9f	Scrutiny of Annual return on ROM stock and/or graded ore	79.590T	70 to 80t	----
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price- Nil Sale value- Nil	Mine in not in operation hence not applicable.	----
9i	Scrutiny of Annual return on fixed assets	Nil	2.5Lakh(approx)	Mine Office and Store.
9k	Scrutiny of Annual return on mining machineries	Back Hoe-01 No.	None	Mine was not in operation since long

The mine is not in production since last 5 years hence any violation not observed.

(P.Nahar)
Asstt. Mining Geologist