

MCDR Insp. Report

1) Name of Inspecting officer:	Mr. Prem Prakash
2) Designation	Dy. Controller of Mines
3) Accompanying mine official with designation	Mr. D.R. Vaze, Agent
4) Date of Inspection	08/06/2017
5) Date of Previous Inspection	15/03/2016

PART –I GENERAL INFORMATION

1. Name of mine	Tiroda Iron Ore Mine
a. Category of mine (A-Fully mechanized, A-Other than fully mechanized, B-Manual)	A-FM
b. Mode of working (OC/UG/Both o/c & u/g)	Open Cast Working
c. Postal address	At/Post Tiroda
d. State	Maharashtra
e. District	Sindhudurg
f. Tehsil/ Taluka	Sawantwadi
g. Police station	Aronda
h. Village	Tiroda
i. Post	Tiroda
j. Pin Code	416518
k. FAX	-
l. E-mail	Gogte.minerals@gmail.com
m. Phone	02363-264536
n. Weekly day of rest	Sunday

2. a) Lease No.	:	
b) Lease area in hect. with forest area, if any	:	34.4812 Ha
c) Period of lease	:	50Yrs – upto 18/06/2022
d) Date of expiry.	:	18/06/2022

3.a) Mineral(s) included in the lease deed	:	
b) Mineral(s) worked	:	IRON ORE

4. Name and address of (including FAX/ E-mail, if any)		
a) Lessee/ owner	:	M/s Gogte Minerals, Belgaum gogteminerals@yahoo.com
b) Nominated owner	:	Mr. Arvind B. Gogte
c) Agent with date of appointment	:	Mr. D.R. Vaze, 01/07/2011.
d) Mining Engineer; whether full/ part time with date of appointment, qualification & Experience	:	Mr. Digvijay Prabhakar Pednekar BE (Mining Engineering)
e) geologist; whether full/ part time with date of appointment, qualification & Experience	:	Mr. Sunil Tukaram Injal MSc (Applied Geology)
f) Mine Manager with qualification and date of appointment	:	Subhash P. Lingayat, Diploma in Mining & Mine Surveying, First Class Mines Manager Certificate of Competency.01/02/2013

5. Details about Mining Plan/ Mining Scheme		
a) Letter No. and date of approval of mining plan/ mining scheme	:	MSH/MECH-78 (MAH) /GOA/2014 -15 Dated : 18/05/2015 for the period 2015-2020
b) Period of mining plan/ mining scheme in force :	:	2015/16 to 2019/20

PART II-TECHNICAL DETAILS

[Followings i.r.o. year (2016-17) or cumulative, as applicable]

Annual Return for the year 2016-17 has not been submitted by the lessee till the date of inspection, as due date of submission is 1st July of every year for preceding year. Hence, information given below is based on the Data provided by the Agent/ mines manager of the mine and information/proposal given in mining scheme approved vide letter no.- MSH/MECH-78 (MAH) /GOA/2014 -15, Dated : 18/05/2015 for the period 2015-16 to 2019-20.

I. Scientific Mining (As per latest approved mining Plan/Scheme)

1. Exploration:

Item	Proposals (2016-17)	Actual work done (2016-17)	Remarks
1A.Backlog of previous year	9 BH	8 BH	1BH backlog (2016-17) Cumulative backlog 14BH
1B.Exploration over lease area for geological axis 1 or 2	---	6.82 ha	Cumulative area
1C.Exploration agencies and expenditure in lakh during the year	In house exploration	In house exploration Rs. 7,20,000/-	---
1D.Balance area to be explored to bring geological axis 1 or 2	---	14.07 ha	---
1E.Balance reserve on 01.04.2017	---	0.793 million tons (Mineral Reserve)	Total Resources 1.781 Million Tons.
1F. General remarks of inspecting officer on geology, exploration etc. :			exploration is continuing

2.Development:

A. Location of development in lease area	N -150 to N -300 & E -825 to E - 1100	In same area	---
B. Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	---
C. Stripping ratio (ore to OB ratio)	1:1.73	1 : 1.70	---
D. Quantity of topsoil generation in m3	NIL	NIL	---
E. Quantity of overburden generation in M ³ and in metric Tonne	156927 m3 345240 tons.	37002 m3 81404 tons	---

3.Exploitation:

A. Number of pit proposed for production	One	One	
B. Quantity of ROM mineral production proposed.	2, 00,000 tons.	47,842 tons.	Less production, due to low grade ore and less market demand, as reported
C. Recovery of sailable/usable mineral from ROM production	100 %	100 %	
D. Quantity of mineral rejects generation	NIL	NIL	
E. Grade of Mineral rejects generation and threshold value declared	---	---	
F. Quantity of Sub-grade mineral	NIL	NIL	
G. Grade of Sub-grade mineral generation	---	---	
H. Manual/Mechanical method adopted for segregating from ROM	Mechanical	Mechanical	

I. Any analysis for benefaction study proposed and carried out for sub grade mineral	---	---	
J. Provision of drilling and blasting in mineral benches.	NA	NA	
L. Whether height of benches in overburden and mineral suitable for method of mining proposed.	YES	Yes	
M. Total area covered under excavation/pits	8.42 Ha.	5.3860 ha	Proposed at the end of 5 years.
N. Ore to OB ratio for the pit/mine during the year	1:1.73	1 : 1.70	
O. Total area put in use under different heads at the end of the year	Excavation=8.4185 ha, waste disposal=5.73 ha, Infrastructure & roads=0.5636 ha, others=4.0114 ha.	Excavation=5.3860ha, waste disposal=5.5 ha, Infrastructure & roads=0.5ha, others= 1ha. Approx.	Area proposed to use at the end of the Mining Scheme Period.
P. Production of ROM mineral during the last five years period as applicable (in Te)	2012-13=2,61,000 2013-14=2,89,000 2014-15=3,99,000 2015-16=2,00,600 2016-17=2,00,000	2012-13=NIL 2013-14=1,26,469 tons 2014-15 =2,31,421 tons 2015-16 =1,40,707.92 2016-17 =47,842.27 tons	Production as reported in Mining Scheme & Annual returns
Q. General remarks of inspecting officers on method of mining etc.:	Method of mining being followed as per mining scheme, however mine reported less or non-working mostly due to low grade ore, un-economic operation and less market demand of produced ore.		

4.Waste:

A. Separate dumping of top soil, OB and mineral rejects (Rule 32, 33)	Yes	Yes	
B. Location of top soil, OB and mineral rejects dumps	Within lease	Within lease	
C. Number of dumps with in lease area and outside of the lease area	2 (WML) 1 (OML)	2 (WML) 1 (OML)	Total Dumps
D. Location of dumps w.r.t ultimate pit limit (Rule 16)	Within UPL	Within UPL	
E. Number of active and alive dumps.	1 (WML)	1 (WML)	
F. Number of dead dumps	1	1	
G. Numbers of dumps established	2	2	
H. Whether retaining wall or garland drain all along dumps are there	Yes	Yes	
I. Length of retaining wall or garland drain all along dumps	100 mts.	About 120 mts.	For 2016-17 Cumulative
J. Number of settling ponds	1 no.	2 nos.	

5.Backfilling:

A. Status of part or full extraction of mineral from mined out area before starting backfilling	NIL	NIL	
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B. Area under backfilling of mined out area	NIL	NIL	
C. Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	
D. Total area fully reclaimed and rehabilitated.	NIL	NIL	

6.PMCP:

A. Whether annual report on PMCP submitted on time and correctly, Rule 23E (2)	-	Not submitted for 2016-17 till the date of inspection.	Due date up to 1st July
B. Area available for rehabilitation (Ha)	NA	NA	
C. Afforestation done (Ha)	1.5 ha. & 1 ha gap filling	1.322 ha.	
D. No. of sapling planted during the year.	3200	11500	
E. Cumulative no. of plants.	---	42180	
F. Any other method of rehabilitation	NA	NA	
G. Cost incurred on watch and care during the year	NA	NA	
H. Compliance on reclamation and rehabilitation by backfilling (i) voids available for backfilling L*B*W	NA	NA	
I. Compliance on reclamation and rehabilitation by backfilling (ii) voids filled by waste/tailings.	NA	NA	
J. Compliance on reclamation and rehabilitation by backfilling (iii) afforestation on backfilling area	NA	NA	
K. Compliance on reclamation and rehabilitation by backfilling(iv) rehabilitation by making water reservoir	NA	NA	
L. Compliance on reclamation and rehabilitation by backfilling (V) any other specific means.	NA	NA	
M. Compliance on rehabilitation of waste land within lease (i) afforestation :	NA	NA	
N. Compliance on rehabilitation of waste land within lease (ii) area rehabilitation (Ha) :	NA	NA	
O. Compliance on rehabilitation of waste land within lease (iii) method of rehabilitation :	---	---	
P. Compliance of environmental monitoring (core zone & buffer zone)	Environment Monitoring Proposed	Monitoring being carried out	

II. Conservation:

A. ROM mineral dispatch or grade wise sorting within lease area.	Grade wise sorting within lease area	Grade wise sorting within lease	
B. Method of grade wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
C. Different grade of mineral sorted out of mines	55% & 55-58% Fe.	<55% & 55-58% Fe.	
D. Any beneficiation process at mines	No	No	

III.Environment:

A. Separate removal and utilization of topsoil (Rule 32)	NA	NA	
B. Separate removal and utilization of topsoil (Rule 32)	NA	NA	
C. Separate dumps for overburden, waste rock, rejects and fines	Yes	Yes	
D. Use overburden, waste rock, rejects and fines dumps for restoring the lands to its original use.	NA	NA	
E. Phased restoration, reclamation and rehabilitation of lands affected by mining operation (pits, dumps etc.)	NA	NA	
F. Baseline information on existence of plantation and additional plantation done	---	2016-17 – 11500 Plants	Cumulative - 42180
G. Survival rate	-	About 70%	
H. Water sprinkling on roads to control airborne dust :	Proposed	Being carried out	

IV. Compliance on Rule 45:

A. Status of submission of monthly & annual returns	Monthly returns Submitted. Annual Return for the year 2016-17 has not been submitted till date; since due date of submission is 1 st July of every year for preceding year.
B. Scrutiny of annual return for information on Mining Engineer, Geologist and Manager :	
C. Scrutiny of annual return on land use pattern for area under pits, reclaimed area, dumps etc.	
D. Scrutiny of annual return on afforestation	
E. Scrutiny of annual return on mineral rejects generation (grade and quantity)	
F. Scrutiny of annual return on ROM stock and /graded ore	
G. Scrutiny of annual return on sale value, Ex. Mines price and production cost	
H. Scrutiny of annual return on fixed assets	
I. Scrutiny of annual return on mining machineries.	

V. Status of compliance of MCDR, 88 including therewith the rectification of outstanding violation of the rules.

Date of last inspection	Violation pointed out	Compliance reported
15.03.2016	Under 13(1) and 42(1)(c) (i)	Complied on 13.06.2016.

(P. PRAKASH)
DCOM