

MCDR REPORT

- 1) Name of Inspecting officer : Shri Prem Prakash
 2) Designation : Dy. Controller of Mines
 3) Accompanying mine official with designation : Shri T.Prasanna Kumar (Agent),
 Shri Sanjeev Kumar (Mine Manager)
 4) Date of Inspection : 07.07.2016
 5) Date of Previous Inspection : 17.08.2015

PART -I GENERAL INFORMATION

1. Name of Mine : Patmunda Mn. Mines
 a. Category of mine : "A",OTFM
 (A-Fully mechanized, B-Other than fully mechanized)
 b. Mode of working (OC/UG/Both o/c & u/g) : Opencast
 c. Postal address : OMM, Koira
 d. State : Odisha
 e. District : Sundergarh
 f. Tehsil/ Taluka : Koira
 g. Police station : Koira
 h. Village : Patmunda
 i. Post : Koira
 j. Pin Code : 770048
 k. FAX : 06625235181
 l. E-mail : omm_koira@rediffmail.com
 m. Weekly day of rest : Saturday
- 2.a) Lease area in hect. with forest area, if any : 807.316 ha
 b) Period of lease : Up to 31.03.2020
 c) Date of expiry. : 31.03.2020
- 3.a) Mineral(s) included in the lease deed : Manganese
 b) Mineral(s) worked : Manganese
4. Name and address of (including FAX/ E-mail, if any)
 a) Lessee/ owner : M/s Orissa Manganese & Minerals Ltd.
 At-OMM Camp,P.O/P.S-Koira,Dist-
 Sundergarh,Odisha-770048
 b) Nominated owner : Shri Sanjay Pratap, IPICOL House,Annexe Building,
 3rd Floor,Janpath,Bhubaneswar,Pin-751022
 c) Agent with date of appointment : Shri T. Prasanna Kumar, Dt.14.09.2015
 d) Mining Engineer and geologists appointed : Shri Yaswant Kumar, M.Sc (Applied Geology)
 under rule 42 of MCDR, 1988 with date of : 01.07.2015, Full Time.
 appointment and whether full/ part time with
 qualification.
 e) Mine Manager with qualification and date of : Shri Sanjeev Kumar, 1st Class Mine Manager,
 appointment : Degree in Mining Engg, Date-08.02.2016
5. Details about Mining Plan/ Mining Scheme
 a) Letter No. and date of approval of mining plan : MPM/OTFM-MECH/31-ORI/BHU/09-10, 22-12-09
 b) Letter No. and date of approval of mining : SM/OTFM/67-ORI/BHU/2011-12,30.03.2012
 scheme.

c) Period of mining plan/ mining scheme in force : : From...2012-13.....to.....2016-17
(financial year)

PART II-TECHNICAL DETAILS

1. Details about employment.

Maximum number of persons employed on any day during the year(i) below ground (ii) above ground and (iii) in all in the mines.

Classification	Average daily employment			Average No. of days worked in a year	Remarks
	Direct	Contract	Total		
OPENCAST					
a) Managerial person	8	3	11	252	
b) Supervisory persons	8	6	14	252	
c) Workers	-	368	368	252	
d) Ministerial persons	-	-	-	-	
e) Employment in plant	-	-	-	-	
f) Others	36	19	55	252	
UNDERGROUND					
a) Managerial person*	Not Applicable				
b) Supervisory persons					
c) Workers					
d) Ministerial persons					
e) Employment in plant					
f) Others					

2. Community Development Plan (in and around the mines):

Sl. No	Proposed action towards socio-economic development during the current year	Expenditure proposed in Rs. Lakhs (Previous financial year) (2015-16)	Expenditure incurred in Rs. Lakhs (Previous financial year) (2015-16)	Expenditure proposed for current year 2016-17 (In Rs. Lakhs)	Expenditure incurred so far Till date of inspection(In Rs. Lakhs)	Remarks
General development in the area						
1	a) Housing	6.0	-	3.0	-	
	b) Water supply	23.0	7.32	20.0	8.0	
	c) Sanitation	2.10	1.77	2.10	0.80	
	d) Health, safety and medical facilities.	12.0	2.10	11.0	4.5	
2	Training	3.0	-	3.0	-	
3	Employment to local inhabitants	-	-	-	-	
4	Infrastructure-public transport, roads, Mandir & Culvert communication and electricity	10.0	3.25	10.0	1.7	
5	Recreation and other sports activities(Puja)	0.50	-	1.0	0.5	
6	Expenditure for environment management (Plantation)	35.0	31.0	35.0	15.0	
7	Others(Education)	7.50	7.8	7.50	3.6	
	Total	99.10	53.24	92.6	34.1	

3. Status of compliance of MCDR, 88 including therewith the rectification of outstanding violation of the rules: Previous inspection of mine was carried out on 17.08.2015, No outstanding violations is there. During current inspection, Violations of rule 13(1), 42 & 45 are observed and being communicated to the party.

4. A note on justification in case of suspension of mining operations under rule 13(2) or prohibition of deployment of any person under rule 56 of MCDR, 1988 if recommended.:
Not being recommended at present.

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

Item	Proposal (2015-16)	Actual work done (2015-16)	Remarks	
i) Exploration (Rule 13)				
a) Type of prospecting and exploration i.e. pitting, drilling etc.	30 BHs	Nil		
b) Total area covered	About 15 ha.	Nil		
ii) Workings (Rule 13)				
a) Opencast/ underground	OC	OC	Figures as reported by mines manager during inspection. AR-2015-16 was not submitted up to the date of inspection	
b) Manual/ mechanized	OTFM	OTFM		
c) No. and size of each pit	03 pits	02 pits		
d) Bench size (l x w x h) length can be defined as regular or irregular	w-10 to 20 m, h- 5m, l - regular	Almost ; w-10 to 20 m, h- 5m, l - regular		
e) Ore to waste ratio pit wise if possible otherwise for mine. (t/m ³)	1:1.98	1: 5.48		
f) Total area covered under excavation/pits	Not specified for a year	About 48.50 hectare cumulative		
iii) Waste disposal (Rule 13)				
a) Location of dumps	East side of Q-2 & North-west side of Q-1	East side of Q-2 & North-west side of Q-1		
b) Method of dumping whether advancing/ retreat	Advancing	Advancing		
c) Total area covered under waste dump	Not specified for a year	About 70 hectare cumulative		
d) No. & size of each waste dump with number of steps lift/ bench.	Three nos., one active	Three nos., one active		
e) Yearly generation of waste quantity.	496800 m ³	438311 m ³		
f) Year-wise quantity of top soil removed, utilized & stacked.	Nil	Nil		

6. Conservation of mineral- both quantitative and qualitative.

i) Mineral (Rule 15)

(a) No. of benches in ore and waste : 7nos.

(b) Percentage of recovery of ore pit-wise w.r.t. ROM and total material : around 10% w.r.t. total material.

ii) Sub-grade mineral/ fines (Rule 16)

(a) Separate stacking from waste: Yes

(b) Location of stacking: near ML Boundary pillars 140 to 144.

(c) Total area covered for stacking: about 3.25ha.

(d) Quantity of yearly Sub-generation with grade.

Year	Quantity(In MT)	Grade
2015-16	13559	10-20% Mn

iii) Beneficiation (Rule 20) :

(a) Efforts for improving low grade and sub-grade mineral: Manual sorting & picking of ore.

iv) Efforts for improving percentage of recovery of ore: Screening

7. Environment Management both quantitative and qualitative

i) Land Environment

- (a) Landscape: hilly and undulating.
- (b) Aesthetic environment: OK
- (c) Soil and land use pattern: No top soil generation.
- (d) Agriculture: No agriculture land near to mining operations area.
- (e) Forest (flora & fauna): local species.
- (f) Vegetation: small bushes & shrubs
- (g) Public building, places and monuments (protected monument and historical monument), places of worship and places of tourist interest. : No monument or public buildings fall in the lease area.

ii) Water Environment:

- (a) Surface water- Rain Surface water is accumulated in the pit and is being used for dust suppression on the haul road & nearby village road. Perennial nalla is away from the active pits.
- (b) Ground water level: Not intersected yet by mining.
- (c) Quality of water: Quality of water reported to be tested periodically and parameters are within the permissible limit.

iii) Air Environment:

- (a) Noise: Noise level is reported to be monitored periodically under permissible limit.
- (b) Air : Air Quality is reported to be monitored periodically and parameters are within the permissible limit.
- (c) Climatic condition: Max temperature Mar-June 41-42 Degree Centigrade.

iv) Socio-economic environment:

- (a) Social and demographic profile: Local people are reported to be working directly in the mine and many development works are undertaken in the field of Health, Education, Sanitation and Culture .
- (b) Recommending health and safety: Care is taken by management through regular medical checkup.
- (c) Human settlement: No human settlement required
- (d) Recreational facility: As reported Management takes care about sports, tournament, picnic, cinema, etc for staffs & workers.

8. Scrutiny of annual returns on cost of operation, reserves, production, pit mouth value, stock, etc. for the year 2015-16:

AR-2015-16 was not submitted up to the date of inspection; violation being issued in this respect.

9. PROPOSAL FOR FURTHER ACTION:

a)	Indian Bureau of Mines(any issue related to CGPB ,SGPB ,assistance consultancy ,annual programme and studies etc.	Nil
b)	The State Government (illegal mining ,mining dispute ,infrastructure, mineral based industry ,mineral policy etc.)	Nil
c)	The Central Government (infrastructure development ,mineral policy and legislation , mineral based industry etc.)	Nil

P. Prakash
Dy. Controller of Mines