

**MCDR Report**

1) Name of Inspecting officer:	Mr. Prem Prakash
2) Designation	Dy. Controller of Mines
3) Accompanying mine official with designation	Mr. N. R. Satapathy (Mines Manager)
4) Date of Inspection	08/07/2016
5) Date of Previous Inspection	22/09/2015

**PART –I GENERAL INFORMATION**

1. Name of mine	Nadidih Iron & Mn. Mines
a. Category of mine (A-Fully mechanized, A-Other than fully mechanized, B-Manual )	A-Fully Mechanised
b. Mode of working ( OC/UG/Both o/c & u/g)	OC
c. Postal address	Nadidih Iron & Mn. Mines, M/s. Feegrade & Co Pvt. Ltd., Village- Nadidih, Post – Koira, Dist- Sundergarh, PIN- 770048, Odisha
d. State	Odisha
e. District	Sundargarh
f. Tehsil/ Taluka	Koira
g. Police station	Koira
h. Village	Nadidih
i. Post	Koira
j. Pin Code	770048
k. FAX	06767-276161
l. E-mail	<a href="mailto:Rungta_bbl@yahoo.co.in">Rungta_bbl@yahoo.co.in</a>
m. Phone	06767-211143, 277481
n. Date of first opening	01/01/1961
o. Weekly day of rest	Saturday

2	a) Lease area in hect.	:	121.405 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	:	Iron & Manganese
b) Mineral(s) worked	:	Iron Ore

4. Name and address of (including FAX/ E-mail, if any)
- a) Lessee/ owner : M/s Feegrade & Co. (P) Ltd. Rungta Office, Main Road, Barbil -758035, Dist:- Keonjhar, Odisha
- b) Nominated owner : Shri M. D. Rustagi, Nominated Owner Rungta Office, Main Road, Barbil – 758035, Dist: - Keonjhar, Odisha
- c) Agent with date of appointment : Shri A.S.Mahapatra, Agent Dt.29.4.2016 Rungta Office, Main Road, Barbil-758035, Dist:- Keonjhar, Odisha
- d) Mining Engineer and geologists appointed under rule 42 of MCDR, 1988 with date of appointment and whether full/ part time with qualification. : Krishna Kumar Pandit, A.M.I.E (Mining), Full time, Date of appointment : 16/05/2006  
Rajesh Kumar Sharma M.Sc (Geology), Full time, Date of appointment : 12.07.2004
- e) Mine Manager with qualification and date of appointment : Shri Nihar Ranjan Satapathy ( First class certificate in competency ) A.M.I.E. (Mining), Full time, Date of appointment : 10/05/2013
5. Details about Mining Plan/ Mining Scheme
- a) Letter No. and date of approval of mining plan : BBS/SNG/Fe & Mn/MP-21 Dated 03/05/2000
- b) Letter No. and date of approval of mining scheme. : MPM/FM/11-ORI/BHU/2015-16 Dt:-28/03/2016

C) Period of mining plan/ mining scheme in force : : Modification of Mining Plan for the year 2016 -17  
2019-20

**PART II-TECHNICAL DETAILS**

**1. Details about employment.**

Maximum number of persons employed on any day during the year(i) above ground and (ii) in all in the mines :-  
04.11.2015 Persons on. 290

Classification	Average daily employment			No. of days worked in a year	Remarks
	Direct	Contract	Total		
OPENCAST					
a) Managerial person	14	-	14	333	
b) Supervisory persons	07	-	07	333	
c) Workers	02	57	59	297	
d) clerical persons	24	-	24	333	
c) Employment in plant	-	59	59	297	
f) Others	14	54	68	333	
<b>Total -</b>	<b>61</b>	<b>170</b>	<b>231</b>		

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

S. N	Proposed action towards socio-economic development during the current year	Expenditure proposed in Rs. Lakhs ( Previous financial year) (2015-16)	Expenditure proposed in Rs.Lakhs for current year (2016-17)	Expenditure incurred in Rs. Lakhs (Previous financial year )(2015-16)	Expenditure incurred so far in Rs. Lakhs,in current year (2016-17) upto 30.06.2016)	Remarks
1	General development in the area					Expenditures given here is as reported by the mines manager. Not verified by the undersigned.
	a) Housing	-	-	-	-	
	b) Water supply	18.18	2.0	18.08	-	
	c) Sanitation	0.016	-	0.016	-	
	d) Health, safety and medical facilities.	0.2	0.78	0.21	-	
2	Training/Education	-	0.18	-	-	
3	Employment to local inhabitants	-	-	-	-	
4	Infrastructure-public transport, roads, communication and electricity	250.04	237.67	167.917	-	
5	Recreation and other sports activities	1.152	1.1	1.152	-	
6	Expenditure for environment management	8.6	6.17	6.49	-	
7	Others (livelihood)	53.93	3.2	48.33	-	
	<b>Total</b>	<b>332.118</b>	<b>251.10</b>	<b>242.195</b>	<b>-</b>	

**3. 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
22.09.2015	Nil	N.A.

During current inspection, Violations of rule 13(1), is 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) or cumulative as applicable	Remarks
i) Exploration (Rule 13)			

16-171

a) Type of prospecting and exploration i.e. pitting, drilling etc.	05 nos Core Drill	05 nos Core Drill & 28 nos DTH	
b) Total area covered		About 101 Ha	cummulative
ii) Workings (Rule 13)			
a) Opencast/ underground	Opencast	Opencast	Mines working reported suspended from 17.05.2014 to 14.05.2015 vide letter dt.17.05.2014 of DDM. Koira
b) Manual/ mechanized	Mechanized	Mechanized	
c) No. and size of each pit (L x W x H)	Two nos.of Iron pits: D-pit & N-pit One No. of Mn. Pit: Quarry-4 (Mn.pit)	Two nos.of Iron pits: D-pit & N-pit, One No. of Mn. Pit: No work	
d) Bench size (l x w x h) length can be defined as regular or irregular	Height- upto 8 mtrs. Width- 10 to 20 mtrs.	Height- upto 8 mtrs. Width- 10 to 20 mtrs.. Approx.	
e) Ore to waste ratio pit wise if possible otherwise for mine. (T/cum)	1:0.21	1:0.05 For Iron Ore from mine working	
f) Total area covered under excavation/pits	48.105 Ha (upto 2015-16)	42.700 Ha. approx	
iii) Waste disposal (Rule 13)			
a) Location of dumps	Dump C	Dump C	In active SG dump A&B
b) Method of dumping whether advancing/ retreat	advancing	advancing	
c) Total area covered under waste dump	22.725 Ha (Upto 2015-16)	20.5 Ha. approx	166744 te
d) No. & size of each waste dump with number of steps lift/ bench.	Waste Dumping proposed at Dump-C	Waste material dumping carried out at Dump-C	
e) Yearly generation of waste quantity.	618000 cum. From Iron pits excavation; 98200 cum from Mn pit excavation	83372 cum. From Iron pits excavation & Nil from Mn pit excavation	
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 :	D pit- Northern side – Ore- 4 nos, Waste- 6nos Southern side- Ore -2 nos,Waste-3 nos Eastert side- Ore –Nil ,Waste- 11 nos Western side- Ore- 2 nos,Waste-5 nos N pit- Northern side – Ore -5 nos, Waste- 1 no. Southern side- Ore -3 nos,Waste- Nil Eastern side- Ore –3 nos ,Waste- 1 no Western side- Ore- Nil,Waste-1 no
(b)	Percentage of recovery of Iron ore w.r.t. ROM and total material:	During 2015-16 the approx. recovery percentage of Iron ore with respect to ROM as 100% and w.r.t. Total material as 90 % Fe.
ii)	Sub-grade mineral/ fines (Rule 16)	
(a)	Separate stacking from waste :	Yes
(b)	Location of stacking :-	Mineral rejects stacked partly near dump- C
(c)	Total area covered for stacking	0.05 Ha. (Till 2015-16)
(d)	No. and size of each stack :	1 number stack of about height 10m near Dump-C.
(e)	Quantity of yearly generation:-	1000 MT (-55 % Fe) (2015-16)
iii)	Beneficiation (Rule 20)	
(a)	Efforts for improving low grade and sub-grade mineral:-	Dry screening and crushing of low grade of material and blending with high grade material.
iv)	Efforts for improving percentage of recovery of ore: -	Sorting and sizing

#### 7. Environment Management both quantitative and qualitative

i)	Land Environment	
(a)	Landscape :-	The lease area is having undulating terrain.
(b)	Aesthetic environment:	Satisfactory

(c)	Soil and land use pattern:	Top soil generation negligible
(d)	Agriculture:	No agriculture land exists within the lease area.
(e)	Forest (flora & fauna) :-	Common local species of Flora and also Fauna of common migratory type are reported.
(f)	Vegetation:	Mainly bushes and shrubs are there.
(g)	Public building, places and monuments (protected monument and historical monument), places of worship and places of tourist interest. :-	The lease area is devoid of any public building, places of worship and historical monument.
ii)	<u>Water Environment</u>	
(a)	Surface water:	The nearest surface water source is Karo River which flows in the western side of Lease Boundary.
(b)	Ground water :	The main ground water source in the lease area is dug well & Tube wells.
(c)	Quality of water:	The quality of water within the lease area is reported to be monitored regularly and suitable for use.
iii)	<u>Air Environment</u>	
(a)	Noise:	The noise level is reported to be monitored regularly and under prescribed limit.
(b)	Air:	The air pollution is minimized by providing stationery water sprinkling as well as mobile tanker on haul roads etc. & by using wet drilling technique. Regular air monitoring is also reported being carried out.
(c)	Climatic condition :	The maximum temperature goes up to 45 <sup>o</sup> C in the month of May and it falls down up to 5 <sup>o</sup> C in the month of December.
iv)	<u>Socio-economic environment</u>	
(a)	Social and demographic profile :	Most of the local people in the area depend on mining & agriculture. Mining activities have given employment to local people directly and indirectly.
(b)	Recommending health and safety :	Health check-up camps are reported to be organized and medicines being provided regularly along with Ambulance service.
(c)	Human settlement .:	Density of population is low.
(d)	Recreational facility :	Club, Games & Sports facilities are provided in the mine camp area

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

- (1) Cost of operation: Rs/- 856.30 per te.
- (2) Reserve & Resource : 17.09 Million Tonnes
- (3) Production : 1492051.690 MT (from O/C working), 173465.330 MT (from DUMP working)
- (4) Pit's Mouth Value/Ex-Mines Price – CLO :- 55% to Below 58% - Rs/- 2500.00 , 58% to Below 60 % - Rs/- 1698.40 , 60% to Below 62% - Rs/- 1906.18 , 62% to Below 65% - Rs/- 2601.53  
Fines :- 55% to Below 58% - Rs/- 398.40 , 60% to Below 62% - Rs/- 698.75 , 62% to Below 65% - Rs/- 1457.16
- (5) Stock = 79773.168 MT (ROM), 1840616.824 MT (Processed ore)

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