MCDR Insp. Report

1) Name of Inspecting officer:	: Mr. Prem Prakash
2) Designation	: Sr. Asst. Controller of Mines
3) Accompanying mine official with designation	Dr. Khageswar Mahanta (Asst. Vice President) Mr. Ajit Patra (A.G.M. –Mines & Mines Manager). Mr. Prafulla Kumar Parida (Sr. Manager Geology)
4) Date of Inspection	: 25.11.2015
5) Date of Previous Inspection	: 17.08.2014 (DCOM)

PART -I GENERAL INFORMATION

1. Name of mine	1:	Jilling Langalota Iron & Manganese Mines
a. Category of mine (A-Fully mechanized, B-Other than fully mechanized)	•	A-Fully mechanized
b. Mode of working (OC/UG/Both o/c & u/g)	:	OC
c. Postal address	:	At: Jilling, Po: Jajang, Dist: Keonjhar, Odisha, PIN:758034
d. State	:	Odisha
e. District	:	Keonjhar
f. Tehsil/ Taluka	:	Barbil
g. Police station	:	Bamebari
h. Village	:	Jajang, Jalahuri, Jurudi, Khuntpani, Bholebeda, Banspani and Baitarani R. F.
i. Post	1:	Jajang
j. Pin Code	1:	758034
k. FAX	:	(06767) 279218, 275367
I. E-mail	:	emilbbl@adityabirla.com
m. Phone	:	(06767) 279209
n. Date of first opening		1.10.1954
o. Weekly day of rest	:	Sunday

2. a) Lease No.	T :	952
b) Lease area in hect.	:	456.100 hect.
c) Period of lease	:	20 Years (01.10.1984 to 30.09.2004). RML applied. The lease deemed to be valid up to 31.03.2020 as per MMDR (Amendment), Act, 2015.
3.a) Mineral(s) included in the lease deed	:	Iron & Manganese Ore
b) Mineral(s) worked	:	Iron Ore

Name and address of (including FAX/ E-mail, if an a) Lessee/ owner	:	ESSEL MINING & INDUSTRIES LTD. At/Po: Barbil Dist: Keonjhar, Odisha, PIN:758035 FAX: 06767275367 E-mail: emilbbl@adityabirla.com
b) Nominated owner	:	Ashwin Kothari Gold Cornet, Flat no-4,1 st Floor 2, Nawrojee, Campia Road, Mumbai Email: ashwin.kothari@adityabirla.com
c) Agent with date of appointment	:	Ravindra Gajanan Sathe/Dt. Of Appointment: 15.07.2011

At/Po: Barbil Dist: Keonjhar, Odisha, PIN:7580 FAX: 06767275367 E-mail: Ravindra.Sathe@adityabirla.com Ajit Kumar Patra, B.E. (Mining) with 1st class Mines Manager Certificate of competency Date of Appointment:13.12.2011 Full time Mining Engineer Email: ajit.patra@adityabirla.com Prafulla Kumar Parida, M. Sc (Geology) Date of Appointment: 10.12.2011

e) Mine Manager with qualification and date of : appointment

d) Mining Engineer and geologists appointed

under rule 42 of MCDR, 1988 with date of

appointment and whether full/ part time with

Email: Prafulla.parida@adityabirla.com Ajit Kumar Patra, B.E. (Mining) with 1st class Mines Manager Certificate of competency Date of Appointment: 13.12.2011

Full time Mining Engineer Email: ajit.patra@adityabirla.com

Full time Geologist

5. Details about Mining Plan/ Mining Scheme

a) Letter No. and date of approval of mining plan	•	Letter No 314(3)/2004-MCCM(CZ)/MP/S-19 dated 06.06.2005
b) Letter No. and date of approval of mining scheme.	:	Letter No. MS/FM/19-ORI/BHU/2013-14/1066 dated 13.06.2014
c) Period of mining plan/ mining scheme in force	:	Mining Scheme w.e.f. 01.04.2014 to 31.03.2019 (5years)

PART II-TECHNICAL DETAILS

1. Details about employment.

qualification.

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

Classification	Average	e daily emplo	yment	Average No. of days	
	Direct	Contract	Total	worked in a year	Remarks
OPENCAST				in a year	TO .
a) Managerial person	25		25	305	The mine reported non-
b) Supervisory persons	20		20	305	working/ discontinued/
c) Workers	30		30	305	stopped since
d) Ministerial persons	17		17	305	12.01.2014 abiding the
c) Employment in plant				303	order of State Govt. due
f) Others	60		60	205	to not having
UNDERGROUND	Not Applicab			305 ble	statutory/forest clearance.

2. Community Development Plan (in and around the mines) (Rs. in lakhs) Enclosed as Annex.

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

Date of last inspection 17.08.2014	Violation pointed out Nil	Compliance reported
		Not applicable

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	Actual work	D.
i) Exploration (Rule 13)	(2014-15)	done (2014-15)	Remarks
a) Type of prospecting and			
exploration i.e. pitting, drilling etc.	25 no of DH	Nil	The mine reported non- working/ discontinued/
b) Total area covered	12.5 Ha	Nil	stopped since 12.01.2014 abiding the order of State Govt. due to not having
ii) Workings (Rule 13)			statutory/forest clearance.
a) Opencast/ underground	Opencast		
b) Manual/ mechanized	mechanized		
c) No. and size of each pit	03 pits/quarries, namely:		The mine reported non-
	Jajang-Langalota, Jilling-Gangaigora & Appahatu-Behera quarry	Nil	working/ discontinued/ stopped since 12.01.2014 abiding the order of State
d) Bench size (1 x w x h) length can be defined as regular or irregular	15-20 m width× 6-9m height		Govt. due to not having statutory/forest clearance. Hence, the proposed mine
e) Ore to waste ratio pit wise if possible otherwise for mine.	1:0.18	Nil	development work reported as not carried out during
f) Total area covered under	146.596 Ha. as per		year 2014-15.
excavation/pits	approved SoM. (Existing)		
iii) Waste disposal (Rule 13)			
a) Location of dumps	a) Jajang Langalota waste is to be kept at Jajang Langalota Dump b) Jilling Gangaigora waste is to be kept at Jilling Dump.		The mine reported non-working/ discontinued/
b) Method of dumping whether advancing/ retreat	Retreat	<u>-</u>	stopped since 12.01.2014 abiding the order of State
c) Total area covered under waste dump	41.328 Ha. as per approved SoM. (Existing)	Nil	Govt. due to not having statutory/forest clearance.
d) No. & size of each waste dump with number of steps lift/	02 nos. of waste dumps was proposed at Jilling & Jajang location.		Hence, the proposed mine development work reported as not carried out during
e) Yearly generation of waste quantity.	1082848.95 Cum	Nil	year 2014-15.
f) Year-wise quantity of top soil removed, utilized & stacked.	Nil	Nil	

6. Conservation of mineral- both quantitative and qualitative.

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i)	Mineral (Rule 15)		
(a)	No benches in ore and waste	Ore Bench	Waste Bench
		6	0 Bench
(b)	Percentage of recovery of ore pit-wise w.r.t. ROM and	No Excavation/production during year 2014-15.	reported carrie
3 9 %	total material	during year 2014-15.	and our
ii)	Sub-grade mineral/ fines (Rule 16)		
(a)	Separate stacking from waste	No Excavation/production	reported carried and
(b)	Location of stacking	during year 2014-15	out
(c)	Total area covered for stacking		
	area covered for stacking		
(d)	No. and size of each stack		
	size of each stack		
(e)	Quantity of yearly generation will a	*,	
	Quantity of yearly generation, utilisation and total quantity available during inspection with grade.		
iii)	Beneficiation (Rule 20)		
(a)	Efforts for improving low grade and sub-grade mineral.		
(b)	Efforts for improving percentage of recovery of ore.	No Excavation/product	
	percentage of recovery of ore.	processing reported carr	ied out during year
		2014-15	,
7. En	Vironment Management I of		

7. Environment Management both quantitative and qualitative

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i)	Land Environment	
(a)	Landscape	Hilly and undulating
(b)	Aesthetic environment	Satisfactory. Green belt is developed around the mining lease at places; also some gardens & lawns developed near colony. Avenue plantations taken up along the haul roads.
(c)	Soil and land use pattern	No Excavation/production reported carried out during year 2014-15
(d)	Agriculture	Nil
(e)	Forest (flora & fauna)	Common local species
(f)	Vegetation	scanty
(g)	Public building, places and monuments (protected monument and historical monument), places of worship and places of tourist interest.	Nil
ii)	Water Environment	Seasonal monitoring of oncional
(a)	Surface water	Seasonal monitoring of environmental parameters w.r.t. surface
(b)	Ground water	water, ground water, air & noise reported being carried out and parameters are within the permissible limit. As such, no significant
(c)	Quality of water	effect regarding the same observed as mine is non-operative.
iii)	Air Environment	non operative.
(a)	Noise	
(b)	Air	
(c)	Climatic condition	Maximum temperature = 40^{0} . Minimum temperature = 5^{0} Average Relative Humidity = 58% - 67% Annual Rainfall = 1534.5 mm
iv)	Socio-economic environment	5 3670-0776Aiiiuai Kaintall = 1534.5 mm
(a)	Social and demographic profile	Agricultural activity is not the main source of earning and most of the people are dependent on mining sector. In the economic front
		Tonomic Hone

)	Recommending health and safety	there is positive improvement due to mining by generation of employment both directly and indirectly. The CSR scheme of the company contributes towards the economic development the local villagers. Medical Dispensary with full facilities has been provided in mining lease premises with ambulance and full time MBBS Doctor and compounder. Also, Regular medical camp and other facilities reported being provided in poorby will.
(c)	Human settlement	facilities reported being provided in nearby villages. Some human settlements are there like workers colony, huts. Etc.
(d)	Recreational facility	Recreational facilities have been provided to the employees & nearby villagers such as Gym, table tennis, carom boards and other indoor game facilities. Football, volleyball, badminton, ring ball etc. outdoor games and various socio-cultural programmes.
8. Sc	crutiny of annual returns	conducted for recreation of the employees and local population.
201	4 15	peration reserves production.

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

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(1) Cost of operation	+	Year 2014-15
(2) Reserve(3) Production(4) Pit's Mouth Value(5) Stock	;	50.70 Million Tonne Nil Nil 9.65.772 tamas (P
		9,65,772 tonnes (Processed Ore)

9. PROPOSAL FOR FURTHER ACTION:

	TORTHER ACTION:	
(a)	Indian Bureau of Mines (any issue what he gann	
,	Indian Bureau of Mines (any issue related to CGPB, SGPB,	Nil
	assistance, consultancy, annual programme and studies etc.	
b)	The State Covernment of the State of the Sta	
10)	The State Government (illegal mining, mining dispute,	A conv. of violeties 144 1:
2)	The Court of State of Hudshy, Hilleral policy & etc.)	endorsed to Director of mines, Odisha.
(c)	The Central Government (Infrastructure development mineral	NEI
	policy and legislation minerally 1:1	INII
	policy and legislation, mineral based industry & etc.)	
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P. Prakash

Senior Assistant Controller of Mines