

MCDR Insp. Report

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Dy. Controller of Mines
3) Accompanying mine official with designation	Pradeep Chodankar, Mines Manager
4) Date of Inspection	16/05/2017
5) Date of Previous Inspection	08/09/2016

PART –I GENERAL INFORMATION

1. Name of mine	Huldool Dongor Bimbol Iron Ore Mine
a. Category of mine (A-Fully mechanized, A-Other than fully mechanized, B-Manual )	A- (Fully Mechanized )
B- Mode of working ( OC/UG/Both o/c & u/g)	Opencast
C- Postal address	Post-Collem, Village – Shigao, Collem Taluka – Dharbandora, District- South Goa State – Goa Pin 403410
D- State	Goa
E- District	South Goa
F- Tehsil/ Taluka	Dharbandora
G- Police station	Collem
H- Village	Shigao, Collem
I- Post	Collem
J- Pin Code	403 410
K- FAX	--
L- E-mail	<a href="mailto:Eyestar.finance@gmail.com">Eyestar.finance@gmail.com</a>
M- Phone	9552566483
N- Weekly day of rest	Sunday

2. a) Lease No. (TC No.)	:	08 of 1941
b) Lease area in hect.	:	97.5191 Ha.
c) Period of lease	:	20 Years (2007 to 2027)
d) Date of expiry.	:	21-11-2027

3.a) Mineral(s) included in the lease deed	:	Iron Ore
b) Mineral(s) worked	:	Iron Ore

4. Name and address of ( including FAX/ E-mail, if any):

- a) Lessee/ owner : Eyestar Finance & Leasing Pvt. Ltd.  
F-1, 1<sup>st</sup> Floor, Oceanic Apartment,  
Behind Hanuman Temple,  
Miramar,  
Panjim – Goa.  
Pin: 403 001.  
Phone: (0832) 2454575  
Fax: 91-832-2454590.
- b) Nominated owner : Shri P S Banerjee ( Director)
- c) Agent with date of appointment : Shri Anurag Misra  
F1, first floor, Oceanic Apartments,  
Behind Hanuman temple, Miramar Panaji.  
Appointed from 03/09/2015
- d) Mining Engineer and Geologists appointed under rule 42 of MCDR, 1988 with date of appointment and whether full/ part time with qualification. : Shri Anurag Misra  
B.Tech. Mining  
Appointed from 03/09/2015  
Benedito Joaquim Fernandes

M.Sc. Geology  
Appointed from 03/09/2015

e) Mine Manager with qualification and date of appointment : Mr Pradeep Chodankar  
Diploma in Mining Engineering  
Appointed from 03/09/2015

5. Details about Mining Plan/ Mining Scheme

- a) Letter No. and date of approval of mining plan : MMP/MECH-15/GOA/2015-16-001 II Dated 09-02-2017
- b) Period of mining plan/ mining scheme in force : : From 2013-14 to 2017-18  
(financial year)

PART II-TECHNICAL DETAILS

I. 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	5		5	303	
b) Supervisory persons	8	1	9	303	
c) Workers		55	55	303	
d) Ministerial persons					
e) Employment in plant		49	49	303	
f) Others(electrical)	4		4	303	
UNDERGROUND					Not Applicable (N/A)

II. 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) (2016-17)	Expenditure proposed in Rs. Lakhs for current year (2017-18)	Expenditure incurred in Rs. Lakhs (Previous financial year) (2016-17)	Expenditure incurred so far in Rs. Lakhs, in current year (2017-18) Till the date of inspection	Remarks
1	General development in the area	-	-			Expenditure s given here are as reported by the Agent/ mines manager. Not verified by the undersigned
	a) Housing					
	b) Water supply					
	c) Sanitation					
	d) Health, safety and medical facilities.			4.8	1.00 ( Doctor, Nurse, and Medicine)	
2	Training	-	-	3.44 (Vocational Training)	0.8 (Vocational Training)	
3	Employment to local inhabitants	-	-	297.18	49.53	

4	Infrastructure-public transport, roads, communication and electricity	-	-	1.20 School bus	0.50 School Bus for Exams
5	Recreation and other sports activities	-	-	1.08	0.20(pooja)
6	Expenditure for environment management	-	-	25.1	20.00( 3lac Vetivera slips+plantation)
7	Others	-	-	0.41	1.05 for Temple painting
	Total	-	-	333.21	73.08

III. 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
08/09/2016	Nil	N/A

\*\*\* 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 1<sup>st</sup> July of proceeding year. Hence, information given below is based on the Data provided by the Agent/ mines manager of the mine and information/proposal given in the Modification of Mining Plan (MMP) approved vide letter no.-MMP/MECH-15/GOA/2015-16-Vol.II, Dated 09-02-2017.

IV. Scientific Mining (As per latest approved mining Plan/Scheme) : (for year 206-17)

1. Exploration:

1A.Backlog of previous year: One Borehole

1B.Exploration over lease area for geological axis 1 or 2 : 03 BHs in year 2016-17.

1C.Exploration agencies and expenditure in lakh during the year: Approx 14 Lakhs

1D.Balance area to be explored to bring geological axis 1 or 2 : 52.9687 Ha

1E.Balance reserve on 01.04.2017 : 7560717 Tonnes

1F. General remarks of inspecting officer on geology, exploration etc. : geology, exploration etc. almost as per MP and further exploratory drilling observed continuing.

2. Development:

A. Location of development lease area:

N1696900 to N1697350

E414800 to E415200

B. Separate benches in topsoil, overburden and minerals (Rule 15)

Yes. There are Separate Benches for 4 benches in Overburden and 3 benches in Minerals

C. Stripping ratio (ore to OB ratio) : 1: 1.32 in the year 2016-17

D. Quantity of topsoil generation in m3 : No top Soil is generated at the Mines.

E. Quantity of overburden generation in M3 : about 330200 m<sup>3</sup>(726439 tonnes) in the year 2016-17

F. General remarks of inspecting officer on development of pit w.r.t type of deposit etc. : satisfactory

3. Exploitation:

A. Number of pit proposed for production : One

B. Quantity of ROM mineral production proposed in mining plan for year 2016-17.

600000 tonnes

C. Recovery ofailable/usable mineral from ROM production : 511193 tonnes

D. Quantity of mineral rejects generation : Nil

E. Grade of Mineral rejects generation and threshold value declared : Nil

F. Quantity of Subgrade mineral generation : Nil

G. Grade of Subgrade mineral generation : N.A.

- H. Manual/Mechanical method adopted for segregating from ROM. : Mechanical  
 I. Any analysis for benefaction study proposed and carried out for sub grade mineral  
 Not Applicable  
 J. Provision of drilling and blasting in mineral benches.  
 Yes, (occasionally).  
 K. Provision of mining machineries in mineral benches.  
 Mechanized (HEMM)  
 L. Whether height of benches in overburden and mineral suitable for method of mining proposed.  
 Yes, as per the Approved Mining Plan.  
 M. Total area covered under excavation/pits. : About 38.2066 Ha  
 N. Ore to OB ratio for the pit/mine during the year : 1 : 1.32  
 O. Total area put in use under different heads at the end of the year : About 85.4762 Ha.  
 P. Production of ROM mineral during the last five years period as applicable

Year	Production (Tonnes)
2012-13	599995
2013-14	Nil
2014-15	Nil
2015-16	109627
2016-17	549993

Q. General remarks of inspecting officers on method of mining etc.: Satisfactory

4. Waste:

A. Separate dumping of top soil, OB and mineral rejects (Rule 32, 33)

Yes Done as per Approved Modified Mining Plan

B. Location of top soil, OB and mineral rejects dumps.

N 1697400 to N 1697600

E 414850 to E 415400

C. Number of dumps with in lease area and outside of the lease area : 7

D. Location of dumps w.r.t ultimate pit limit (Rule 16): Dump No.1, 2, 5, 6 & 7 are within the Ultimate pit limit.

E. Number of active and alive dumps : Dump No.1 is Active Dumps

F. Number of dead dumps : Nil

G. Numbers of dumps established : Nil

H. Whether retaining wall or garland drain all along dumps are there : Not fully

I. Length of retaining wall or garland drain all along dumps : about 200 mts old in dilapidated condition

J. Number of settling ponds : 01 no.

K. Specific comments of inspecting officer on waste dump management : In this regard, Violations of Rule 11 (2) of MCDR, 2017 being communicated to the party as Mining operations have not been carried out in accordance with the Modification of Mining Plan (MMP) approved vide letter no.-MMP/MECH-15/GOA/2015-16-Vol.II, Dated 09-02-2017 to the extent indicated below:-

(i) As per approved MMP (Para 4.C., read with Plate No.- 6 & 6A), in year 2016-17 & 2017-18 Waste dumping proposed to be carried out at the earmarked area in the northern side of existing Waste Dump No.-1 at upper terraces in stages up to 85 level, 90, 95, 100 & 105 levels.

Whereas, during inspection, it was observed that the waste dumping was not being carried out at the aforesaid earmarked place; Instead, waste dumping has been carried out at lower terraces of existing Waste Dump No.-1 near to ML boundary line between ML boundary pillars BP-A to BP-3; without forming stages/terraces at regular intervals as approved.

(ii) Protective measures proposed to be carried out in MMP in respect of waste dump management i.e.

- Laterite bunds/parapet wall and garland drains at the foot of the dump.
- Afforestation/ plantation;

was not observed carried out in respect of aforesaid waste dump.

This may result in escape and wash-off of waste material there from in harmful quantity, which may cause degradation of the environment.

5. Backfilling: Not Applicable

A. Status of part or full extraction of mineral from mined out area before starting backfilling

B. Area under backfilling of mined out area.

- C. Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)
- D. Total area fully reclaimed and rehabilitated.

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 1st July.
- B. Area available for rehabilitation (Ha) : Nil
- C. Afforestation done (Ha) : Gap filling only
- D. No. of sapling planted during the year: reportedly 1000 Samplings
- E. Cumulative no. of plants.: 109106 Samplings with Survival rate is 60%
- F. Any other method of rehabilitation : Non.
- G. Cost incurred on watch and care during the year: reportedly about Rs..30000/ for plantation in 2016-17.
- H. Compliance on reclamation and rehabilitation by backfilling (i) voids available for backfilling L\*B\*W.
  - NA
- I. Compliance on reclamation and rehabilitation by backfilling (ii) voids filled by waste/tailings.
  - NA
- J. Compliance on reclamation and rehabilitation by backfilling (iii) afforestation on backfilling area
  - NA
- K. Compliance on reclamation and rehabilitation by backfilling( iv) rehabilitation by making water reservoir.
  - NA
- L. Compliance on reclamation and rehabilitation by backfilling (V) any other specific means.
  - NA
- M. Compliance on rehabilitation of waste land within lease (i) afforestation
  - NA
- N. Compliance on rehabilitation of waste land within lease (ii) area rehabilitation (Ha)
  - NA
- O. Compliance on rehabilitation of waste land within lease (iii) method of rehabilitation
  - NA
- P. Compliance of environmental monitoring (core zone & buffer zone)
  - Yes
- V. Conservation:
  - A. ROM mineral dispatch or grade wise sorting within lease area.
    - ROM produced is sorted out in the form of both wet and dry screening with in the lease area.
  - B. Method of grade wise mineral sorting i.e. manual or mechanical.
    - Mechanical
  - C. Different grade of mineral sorted out of mines
    - Normal Ore of Average Grade +45% Fe and Siliceous Ore of +35% Fe
  - D. Any beneficiation process at mines
    - Yes, Wet beneficiation plant of 200TPH capacity having cyclones and classifiers.
    - Dry mobile screening plant of 400 TPH capacity
  - E. General remarks of inspecting officer on Mineral conservation and beneficiation issues: satisfactory
- VI. Environment:
  - A. Separate removal and utilization of topsoil (Rule 32)
    - NA
  - B. Concurrent use or storage of topsoil
    - Not generated during the year
  - C. Separate dumps for overburden, waste rock, rejects and fines (Rule 32)
    - Yes
  - D. Use of overburden, waste rock, rejects and fines dumps for restoring the lands to its original use.
    - Permanent Backfilling has not yet undertaken
  - E. Phased restoration, reclamation and rehabilitation of lands affected by mining operation (pits, dumps etc.) : Full reclamation and rehabilitation of lands affected by mining operation – Nil,
    - However, proposed conceptually in the approved Modified Mining Plan
  - F. Baseline information on existence of plantation and additional plantation done (Rule-41): Yes

G. Survival rate : about 60%

H. Water sprinkling on roads to control airborne dust:

03 Water Tankers are reported engaged for water sprinkling on roads to control the airborne dust.

I. General remarks of inspecting officer on Env.: Satisfactory

VII. Compliance on Rule 45:

A. Status of submission of monthly annual returns – being submitted. However, 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 1<sup>st</sup> July of proceeding 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.

\*Annual Return for the year 2016-17 has not been submitted till the date; due date of submission is 1<sup>st</sup> July of proceeding year.

(P. Prakash)  
DCOM