

## MCDR INSPECTION REPORT

### 1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation	Mr. Suresh Prasad, Dy. Controller of Mines
2	Date of inspection	01-06-2017
3	Name of the Mine	CORMOLEM – E – BOG MINE, T.C. No. 45 of 05-05-1952
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	38.5143Ha , Forest Area :Nil
5	Mine code	30GOA01198
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/510/2011
7	Name of the lessee, Address, phone, email and fax number	Sociedade Timblo Iramaos Limitada, Rep. by Sociedade de Fomento Ind. Pvt. Ltd.,Vila Flores Da Silva, Erasmo Carvalho Street,Margao, Goa – 403 601.E-mail:-lume@fomento.com, Phone no.0832-2732346
8	Village	Cudnem
8	Taluka/Mandal /District	Bicholim, North Goa
10	State	Goa
11	Post office & PIN	Sanquelim-403405
12	Nearest police station	Sanquelim
13	Nearest Railway station	Bascodigama
14	Date of Grant of Mining Lease	12.7.1954
15	Date of Execution	12.7.1954
16	Date of opening of Mine	12.7.1954
17	Date of first Renewal, if applicable and its period & expiry	02/01/1991
18	Date of second Renewal, if applicable and its period & expiry	22/11/2007 to 21/11/2027 and further governed by MMDR Act as amended for its validity.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. Francisco Lume Pereira PO Box No. 31, Erasmo Carvalho Street,Margao, Goa – 403 601.  Phone no.-0832-2730651

21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Dharmendra P. Pawar Date of Appointment – 15/04/2016
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Mr. Ashwini Kumar Qualification – B.E. (Mining) Date of Appointment – 13/05/2013

23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Mr. Ashwini Kumar (Mining Engineer) Date of Appointment – 13/12/2013 Full Time, Qualification – B.E. (Mining)
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56&57 of MCDR 2017.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	MMP/MECH-16/GOA/2015-16 Vol.II , From 2013-14 to 2017-18,Dated 03/02/2017
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	NA
27	Mineral(s) granted in lease and proved for mining	Iron Ore
28	Method of Mining(Opencast, Underground)	Opencast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanised
30	Captive/Non Captive	Non-Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. –

**Exploration**

SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	4 nos.	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	4.0ha	nil	No exploration in the year 2016-17
1c	Exploration Agency & Expenditure in lakh Rupees during the year		nil	

1d	Balance area to be explored to bring Geological axis in 1 or 2	17.47 Ha		
1e	Balance reserves as on 01.04.2017...	5.592 Million tonnes	4.794 Million tonnes	
1f	General remarks of inspecting officer on geology, exploration etc.	No exploration observed for the reporting year 2016-17. However as discussed in the site inspection the same will be carried out in the current year.		

### **2.0 Development**

SN	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N 1718694to N 1719274 E 395709 to E 396159 N 1718692to N 1719319 E 395691 to E 396125	Yes	
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:1.39	1:1.09	
2d	Quantity of topsoil generation in m3	nil	nil	
2e	Quantity of overburden generation in m3		259854m <sup>3</sup>	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	As per MP.		

### **3.0 Exploitation**

SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	2	2	
3b	Quantity of ROM mineral production proposed	499990 Tonnes	474985 Tonnes	
3c	Recovery of salable/usable mineral from ROM production	90%	90%	10% mining loss considered.
3d	Quantity of mineral reject generation	nil	nil	

3e	Grade of mineral reject generation and threshold value declared	NA	Na	
3f	Quantity of sub-grade mineral generation	nil	nil	
3g	Grade of sub-grade mineral generation	nil	nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	No	No	
3k	Provision of mining machineries in mineral benches	Yes	Yes	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	As per proposal	
3m	Total area covered under excavation/pits		21.1991Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:1.39	1:1.09	
3o	Total area put in use under different heads at the end of year	Pit- Waste/reject Others-	28.8664Ha	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2016-17 499990 Tonnes	Year 2012-15: NIL Year 2015-16: 42808 Tonnes Year 2016-17: 474985 Tonnes	
3q	General remarks of inspecting officer on method of mining etc.	As per proposal.		

#### **4.0 Solid Waste Management-Dumping**

SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37 of MCDR 2017)	yes	yes	As per proposal
4b	Location of topsoil, OB & mineral reject dumps	N 1719063 to N 1719254 E 395938 to E 396161	As per proposal.	As per proposal
4c	Number of dumps within	6 within Lease & 1	As proposed	Dead

	lease area and outside lease area	Outside Lease		dump
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary nature dump		
4e	Number of active & alive dumps	Nil		Backfilling in temp. nature
4f	Number of dead dumps	6 within Lease & 1 Outside Lease	6 within Lease & 1 Outside Lease	
4g	Number of dumps stabilised	1	1	As proposed
4h	Whether Retaining wall or garland drain all along dumps are there		Garland drain available	
4i	Length of Retaining wall or garland drain all along dump	As per the proposal		
4j	Number of settling ponds	2	two	
4k	Specific comments of inspecting officer	Presently as proposed back filling in temporary nature.		

### **5.0 Solid Waste Management-Backfilling**

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	nil	nil	back filling in temporary nature
5b	Area under backfilling of mined out area	nil	nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Na	NA	
5d	Total area fully reclaimed & rehabilitated	nil	nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Back filling in temporary nature		

### **6.0 Progressive Mine Closure Plan**

SN	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). Details should be given in the format as given in Annexure-20.		yes	

6b	<p>Management of worked/mined out benches</p> <p>i) Area available for rehabilitation (ha)</p> <p>ii) Afforestation done (ha)</p> <p>iii) No. of saplings planted during the year</p> <p>iv) Cumulative no. of plants</p> <p>v) Any other specific method of rehabilitation</p> <p>vi) Cost incurred on watch &amp; care during the year</p>		<p>Year-2000 nos.</p> <p>Cumm-12,000 nos.</p>	
6c	<p>Compliance on reclamation and rehabilitation by backfilling</p> <p>i) Voids available for backfilling (L X B X D)</p> <p>ii) Void filled by waste/tailings</p> <p>iii) Afforestation on the backfilled area</p> <p>iv) Rehabilitation by making water reservoir</p> <p>v) Any other specific means</p>	Nil	Nil	As backfilling in temp. nature.

6d	<p>Compliance of Rehabilitation of waste land within lease</p> <p>i) Afforestation</p> <p>ii) Area rehabilitated (ha)</p> <p>iii) Method of rehabilitation</p>		yes	As per MP
6e	<p>Compliance of Environmental monitoring (core zone &amp; buffer zone)</p>		Yes	
6f	<p>General remarks of inspecting officer on PMCP compliance &amp; progressive</p>	Back filling in temporary nature for the reporting year.		

### **7.0 Mineral Conservation**

SN	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within	Dry screening	As per proposal	

	lease area			
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	mechanised	mechanised	
7c	Different grade of mineral sorted out at mines	+45 Fe	+45 Fe	
7d	Any beneficiation process at mines	Dry Screening	Dry Screening	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Dry screening method adopted.		

## 8.0 Environment

SN	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	nil	nil	
8b	Concurrent use or storage of topsoil	nil	nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	As proposed	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Back filling in temporary nature	As proposed	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	nil	nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	yes	yes	
8g	Survival rate	80%	70%	
8h	Water sprinkling on roads to control airborne dust	yes	yes	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Plantation carried out on old dump area. However the backfilling in the current year is in temporary in nature.
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### 9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto –April17 A.R. submitted upto-2015-16	

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	}		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.			
9d	Scrutiny of Annual return on afforestation			
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)		The A.R. for 2016-17 has not been received till DOI.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore			
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost			
9i	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-

The deviation observed against the exploration proposed in the approved documents for the reporting year 2016-17. However as communicated during inspection the same will be carried out in the current year.