

MCDR INSPECTION REPORT

1.0 GENERAL

SN	Particulars	Details
1	Name of inspecting office & designation	Shri. Suresh Prasad, Dy. Controller of Mines.
2	Date of inspection	02.06.2017
3	Name of the Mine	Dignem Iron Ore Mine
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	43.1313 Ha, (25.0306 Ha.- Forest land, 18.1007 Ha.- Non Forest land)
5	Minecode	30GOA01048
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/644/2011
7	Name of the lessee, Address, phone, email and fax number	Sociedade Timblo Irmaos Limitada Rep by Timblo Pvt. Ltd., P.B.No.34, Kadar Manzil, Margao, 08326410906, admin.mining@timblos.com , -
8	Village	Cudnem
8	Taluka/Mandal /District	Bicholim Taluka, North Goa District.
10	State	Goa
11	Post office & PIN	Surla, Sanquelim, 403505.
12	Nearest police station	Bicholim
13	Nearest Railway station	Thivim
14	Date of Grant of Mining Lease	30.09.1957 (Title of Transmission)
15	Date of Execution	N.A.
16	Date of opening of Mine	-
17	Date of first Renewal, if applicable and its period & expiry	Date of 1 st renewal:06.09.1990, Period: 20 years, w.r.t. 21.11.1987 Expiry:21.11.2007
18	Date of second Renewal, if applicable and its period & expiry	Date of 2 nd renewal:12.01.2015, Period: 20 years, w.r.t. 22.11.2007 Expiry: 21.11.2027
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	18.08.2006
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Varun Vishwas Vaingankar P.B.No.34, Kadar Manzil, Margao, Phone no.: 08322720100 Email: admin.mining@timblos.com Fax no.:08322720161 Date of appointment: 11.03.2015
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Saroj Kumar, P.B.No.34, Kadar Manzil, Margao, Phone no.: 9225906026 Fax no.: 08322720161 Email: admin.mining@timblos.com Date of appointment:02.11.2009
22	Name of the Mines Manager with Address, phone, email, fax number	Shri James Day D'Souza,

	and date of appointment in mines	Add: Village –Cudnem, Bicholim Taluka Phone:9225906045 Fax no.: - Email: admin.dignem@timblos.com Date of appointment: 03.01.2007
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23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	-
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	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-31/GOA/2015-16 Vol I dtd.26.09.2016
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	N.A.
27	Mineral(s) granted in lease and proved for mining	Iron ore.
28	Method of Mining(Open cast, Underground)	Open cast.
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 (2016-17)	Actual work (2016-17)	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for Geological axis 1 or 2.	31.7806 Ha.	31.9309 Ha.	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Timblo Private Limited, Rs. 5.99 Lac approx.	Timblo Private Limited, Rs. 8.67 Lac approx.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	N.A.	

1e	Balance reserves as on 01.04.2017	7.21 Million Tons	7.49 Million Tons	
1f	General remarks of inspecting officer on geology, exploration etc.	Form I, submitted on 05.06.2017.		

2.0 Development

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
2a	Location of development w.r.t. lease area	N1717059-1716822, E396528-396690	N1717059-1716822, E396528-396690	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Yes	Provided	
2c	Stripping ratio or ore to OB ratio	1:0.81	NA, as only 10,076 tons of rejection dozed and lying at the bench.	The rejection so dozed is incorporated in the modified plan dated 26.09.16
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	44738	4580, by dozing, material needs to be handled.	The rejection so dozed is incorporated in the modified plan dated 26.09.16
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Waste material collected in the mines benches only.		

3.0 Exploitation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
3a	Number of pits proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	110270 tons	Nil	

3c	Recovery of salable/usable mineral from ROM production	97% - 100%	NA, as no ROM Produced.	Dry Screening was proposed.
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral reject generation and threshold value declared	NIL	NIL	
3f	Quantity of sub-grade mineral generation	NIL	NIL	
3g	Grade of sub-grade mineral generation	NA	NA	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanical,	Nil this FY	
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	NA	NA	No drilling & blasting.
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	6m X 9m	N.A.	
3m	Total area covered under excavation/pits	7.7324 Ha.	7.7324 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.81	NA	
3o	Total area put in use under different heads at the end of year	Pit-7.7324 Ha Waste/reject-11.5972 Ha Others(roads)-3.2367 Ha,	Pit-7.7324 Ha Waste/reject-11.5972 Ha Others(roads)-3.2367 Ha,	There is no extension of area.
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2012-13 Yr-2013-14 Yr-2014-15 Yr-2015-16 Yr-2016-17	169200 0 0 10000 0	
3q	General remarks of inspecting officer on method of mining etc.	As per the report ROM production for the 2016-17 is nil.		

4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Yes	OB dozed and lying on the bench, yet to be handled.	
4b	Location of topsoil, OB & mineral reject dumps	N1716720-1716542, E 396528-396654	Nil	overburden
4c	Number of dumps within lease area and outside lease area	Within-1 Outside- nil	Within-1 Outside- nil	old
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N1716720-1716542, E 396528-396654	Nil	
4e	Number of active & alive dumps	Southern Western part of the existing dump designated as D1	Nil dumping	
4f	Number of dead dumps	-	-	Part of the existing dump in the Northern Western side designated as D2.
4g	Number of dumps stabilised	Active part of dump	Nil	Except for the proposed active part of the dump rest of the dump is stabilised.
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dump	165 m	Nil	890 m cumulative
4j	Number of settling ponds	Nil	Nil	5 no WML and 4 no OML.
4k	Specific comments of inspecting officer	Disposal of OB for the reporting year 2016-17 is nil.		

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2016-17)	Actual work (2017-18)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	
5b	Area under backfilling of mined out area	10.772 Ha already backfilled, which is envisaged to be re-handled in the future.	10.772 Ha already backfilled, which is envisaged to be re-handled in the future.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	NA	NA	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Old partial backfilled area observed.		

6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	Yes	Yes	
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Nil 0.162 Ha. 1000 saplings 214200 saplings None Nil	NA Nil, gap filling, 645 Nos 214200 Nos of saplings N.A.	

6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	Nil Nil NA NA	Nil Nil NA NA	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	NA NA NA	NA NA NA	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environment Monitoring in core & buffer is being carried out by MoEF approved lab i.e. Mineral Engineering Services (MES).	Environment Monitoring in core & buffer is being carried out by MoEF approved lab i.e. Mineral Engineering Services (MES).	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Satisfactory.		

7.0 Mineral Conservation

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Provided	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Nil	
7c	Different grade of mineral sorted out at mines	+54% Fe.	Nil	
7d	Any beneficiation process at mines	Dry screening	Nil	
7e	General remarks of inspecting officer on Mineral conservation &	ROM handling has not reported in the year 2016-17.		

	beneficiation issues	
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8.0 Environment

SN	Item	Proposals (2016-17)	Actual work (2016-17)	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NA	NA	Top Soil not available
8b	Concurrent use or storage of topsoil	NA	NA	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	N.A.	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	N.A.	Nil	
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1000 saplings	645 saplings	214200 Nos (cumulative no. of saplings afforested till date.)
8g	Survival rate	70%	70%	On average 40-45% survival rate.
8h	Water sprinkling on roads to control airborne dust	Yes	Nil this year	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Satisfactory.		

9.0 Compliance of Rule 45

S. N.	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	M.R. Submitted upto –May 2017 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	The A.R. for 2016-17 is yet to be received.		
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)			
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:-

Nil, as mines was not operated in the year 2016-17, small quantity overburden was dozed in the benches only.