MCDR INSPECTION REPORT

1.0	.0 GENERAL				
SN	Particulars	Details			
1	Name of inspecting office & designation	Mr.S. Prasad, DCOM			
2	Date of inspection	04/08/2017			
3	Name of the Mine	Bicholim Iron Ore Mine, T. C. No. 15/1941 Mandoorbaga Lease			
4	Total Lease Area (Ha) with breakup of Non-forest and forest land	99.2909 Ha Forest - Nil			
5	Mine code	30GOA01243			
6	IBM Registration Number under rule 45 of MCDR, 1988	IBM/449/2011			
7	Name of the lessee, Address, phone, email and fax number	Sesa Ghor, 20 EDC Complex, Patto, Panaji(Goa) – 403 001			
8	Village	Mayem, Mulgao, Sirigao			
8	Taluka/Mandal/District	Taluka: Bicholim, District: North Goa			
10	State	Goa			
11	Post office & PIN	Bicholim,-403 504			
12	Nearest police station	Bicholim Police Station			
13	Nearest Railway station	Thivim Railway Station			
14	Date of Grant of Mining Lease	20/08/1941			
15	Date of Execution	16/03/2015			
16	Date of opening of Mine	28/08/1956			
17	Date of first Renewal, if applicable and its period & expiry	22/11/1987 to 21/11/2007, 20 Years			
18	Date of second Renewal, if applicable and its period & expiry	22/11/2007 to 21/11/2027, 20 Years			
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 Kishore Kumar, Address: Sesa Ghor, 20, EDC Complex, Patto, Panaji- Goa, 403001, Phone no: +91 7030284466 Fax:+91-832 2460600 Date of appointment: 02/06/2015			
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr. Ulhas Nagvenkar Address: Bicholim Iron Ore Mine, Dhabdhaba, Bicholim-403504 Phone no: +91 9765565526 Date of appointment: 10/08/2016			

22	Nome of the Miner Man	Ma Masherman N		
22	Name of the Mines Manager	Mr. Muthumari.M		- 111 1
	with Address, phone, email,	Address: Bicholim Ir	on Ore Mine, Dh	abdhaba,
	fax number and date of	Bicholim-403504	01250	
	appointment in mines	Phone no: +91 96732		
		Date of appointment:	: 01/04/2017	
23	Name of the Mining	Mr. Kallepally Prasa	d Babu (B.Tech,	8 years)
	Engineer, Qualification and	Address: Bicholim Ir	on Ore Mine, Dh	abdhaba,
	total experience with	Bicholim-403504		
	Address, phone, email, fax	Phone no: +91 9765410970		
	number and date of	Date of appointment:	: 25/05/2017	
	appointment in mine			
24	Whether Geologist and	Yes,		
	Mining Engineer appointed in	Mr. Maheshwar Kinn	nal (Geologist)	
	mines satisfy the rule 42 &	Mr. Kallepally Prasa	d Babu (Mining E	Engg)
	carrying out their duties as			
	per rule 43 & 44.			
25	Date of Approval of Mining	Letter No. MMP/MECH-42/GOA/2015-16 Vol.I		
	Plan/Modified Mining Plan			
	with five-year period and	Approval Date:02/02/2017		
	specific condition in approval			
	letter, if any.			
26	Date of Approval of Scheme	Nil		
	of Mining/Modified Scheme			
	of Mining with five-year			
	period and specific condition			
	in approval letter, if any.			
27	Mineral(s) granted in lease	Iron Ore		
	and proved for mining			
28	Method of Mining(Opencast,	Opencast		
	Underground)	-		
29	Category (Fully Mechanised,	Fully Mechanised		
	Others or Manual)			
30	Captive/Non Captive	Non captive		
	entific Mining: Compliance of pro	oposals of approved m	ining plan/schem	e of mining. –
-	loration	1	1	
SN	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	-
1b	Exploration over lease area	Nil	Nil	-

1a	Backlog of previous year	Nil	Nil	-
1b	Exploration over lease area	Nil	Nil	-
	for Geological axis 1 or 2.			
1c	Exploration Agency &	Nil	Nil	-
	Expenditure in lakh Rupees			
	during the year			
1d	Balance area to be explored			Balance area
	to bring Geological axis in 1	22.7079 ha	Nil	is under
	or 2			Human
				Settlements
1e	Balance reserves as on	15.4631	MT	
	01.04.2017			

Area under humanofficer on geology, exploration etc.Area under human settlement to be explored to achieve G1 or G2.		settlement to be explored to
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2.0 Development

SN	Item	Proposals	Actual work	Remarks
2a	Location of development	E-383000/383300	E-383000 to 383300	-
	w.r.t. lease area	N-1725800/1726100	N-1725800/1726100	
2b	Separate benches in	Top soil-Nil	Top Soil-Nil	-
	topsoil, overburden and	Mineral-4	Mineral-4	
	mineral (Rule 13)	Overburden-12	Overburden-12	
2c	Stripping ratio or ore to	1:4.08	1:3.08	-
	OB ratio			
2d	Quantity of topsoil	Nil	Nil	-
	generation in m3			
2e	Quantity of overburden	780000	567018	-
	generation in m3			
2f	General remarks of			
	inspecting officer on	Development banches	s to be maintained wider	n for better
	development of pit w.r.t.	stabi	lity of mine faces.	
	type of deposit etc.			

3.0 Exploitation

				D 1
SN	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1	1	-
3b	Quantity of ROM mineral production proposed	421000	404668	-
3c	Recovery of salable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	101000	84155	-
3e	Grade of mineral reject generation and threshold value declared	>45% Fe to <54% Fe	>45% Fe to <54% Fe	-
3f	Quantity of sub-grade mineral generation	-	-	-
3g	Grade of sub-grade mineral generation	-	-	-
3h	Manual / Mechanised method adopted for segregating from	Mechanised method by HEMM	Mechanised method by HEMM	-

	ROM			
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	-
3ј	Provision of drilling & blasting in mineral benches	Nil	Nil	-
3k	Provision of mining machineries in mineral benches	Ripper Dozer, Excavator, Dumpers & Wheel Loaders	Ripper Dozer, Excavator, Dumpers & Wheel Loaders	-
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes Bench Height:7m Bench width:12m	Yes Bench Height:7m Bench width:12m	-
3m	Total area covered under excavation/pits in (Ha)	53.5129 Ha	53.5129 Ha	-
3n	Ore to OB ratio for the pit/mine during the year	1:4.08	1:3.08	-
30	Total area put in use under different heads at the end of year in (Ha)	Waste dump- 18.7978WHuman Settlements-H12.75841	Mining- 53.5129 Waste dump- 18.7978 Human Settlements- 12.7584 Others-Unused- 14.2218	-
3p	Production of ROM mineral during last five-year period, as applicable	2013-14=0 2 2014-15=0 2 2015-16=680939 tons 2	2013-14=0 2014-15=0 2015-16=388190 tons 2016-17= 404668 tons	-
3q	General remarks of inspecting officer on method of mining etc.	Nil		
	Solid Waste Manageme			_
SN	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Top soil- Nil OB-1716000 tons MR-101000 tons	Top soil- Nil OB-1247440 tons MR-84155 tons	-
4b	Location of topsoil, OB & mineral reject dumps	E-383750 to 383880 N-1726000 to 1726100	E-383750 to 383880 N-1726000 to 1726100	-
4c	Number of dumps within lease area and outside lease area	1 dump within lease area	1 dump within lease area	-

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	-
4e	Number of active & alive dumps	Nil	Nil	-
4f	Number of dead dumps	Nil	1	-
4g	Number of dumps stabilised	Nil	1	-
4h	Whether Retaining wall or garland drain all along dumps are there	Garland drain all along the toe of the dump	Garland drains are made all along toe of backfilled stages.	-
4i	Length of Retaining wall or garland drain all along dump	Boulder wall-315 m Garland Drain-1125m	Boulder wall - Nil Garland Drain-75m	-
4j	Number of settling ponds	1	Nil	-
4k	Specific comments of inspecting officer	Technical advice ma	y be taken to control th stability.	e pit slope

5.0 Solid Waste Management-Backfilling

SN	Item	Proposals	Actual work	Remarks
5a	Status on part or full			Backfilling
	extraction of mineral from	Nil	Nil	carried out in
	mined out area before			exhausted pit
	starting backfilling			
5b	Area under backfilling of	7.0364 Ha	3.8113 Ha	-
	mined out area			
5c	Concurrent use of topsoil			
	for restoration or	Nil	Nil	
	rehabilitation of mined out			-
	area (Rule 32)			
5d	Total area fully reclaimed &	Nil	Nil	-
	rehabilitated			
5e	General remarks of			
	inspecting officer on	Nil		-
	backfilling, reclamation etc			

6.0 Progressive Mine Closure Plan

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

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	Nil	Nil	-
6c	& care during the year 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	ii) 1.72 Million tonnes iii) Nil iv) Nil	ii) 1.25 Million tonnes iii) Nil iv) Nil	-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Methof of rehabilitation	Nil	Nil	-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Within permissible limits	Within permissible limits	-
6f	General remarks of inspecting officer on PMCP compliance & progressive		-	
	Mineral Conservation	Duanasala	A stural ward-	Dame - 1-1
SN 7a	Item ROM Mineral dispatch or grade-wise sorting within lease area	Proposals Grade-wise sorting within lease area	Actual work Grade-wise sorting within lease area	Remarks -
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	-

7c	Different grade of mineral sorted out at mines	Normal Ore=>54% Fe Mineral Reject=>45% to <54% Fe	Normal Ore=+54% Fe Mineral Reject=+45% to -54% Fe	-
7d	Any beneficiation process at mines	Nil	Nil	-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	satisf	acory	-

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	Yes	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Nil	Nil	-
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 41)	Nil	provided	-
8g	Survival rate	-	70%	-
8h	Water sprinkling on roads to control airborne dust	Water Tanker used for sprinkling on roads to control airborne dust	Water Tanker used for sprinkling on roads to control airborne dust	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are			

9.0 Compliance of Rule 45

Sio Compliance of Rule 45				
S.	Item	COMMENTS	Remarks	
N.				
	Status of submission of	M.R. Submitted up to – June 2017		
	Monthly and Annual	A.R. submitted for 2016-17		
	returns			

S.	Item	Details GIVEN in	Observation of	Remarks
N.		A.R.	I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes	Provided & appointed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	yes	given	-
9d	Scrutiny of Annual return on afforestation	yes	yes	
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	yes	Cost of production observed to be in higher side w r to other mines.	
9i	Scrutiny of Annual return on fixed assets	yes	given	
9k	Scrutiny of Annual return on mining machineries	yes	given	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on Compliance on	
				8	

Date :

Sd/-(suresh prasad)

Indian Bureau of Mines