

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR inspection REPORT

Goa regional office

Mine file No : Goa/FeMn/255

Mine code : 30GOA01084

- (i) Name of the Inspecting : **SP01**) **SURESH PRASAD**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Mr. G. Shrish, Agent mines
Official with
Designation
- (iv) Date of Inspection : 31/07/2017
- (v) Prev.inspection date : 06/06/2011

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VELGUEM/SURLA**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : GOA
District : NORTH GOA
Village : VELGUEM & SURLA
Taluka : BICHOLIM
Post office : SANQUELIM
Pin Code : 403505
FAX No. : 0832-513813
E-mail : rmani@V.M.Salgaocars.com
Phone : 0832-372263
- (f) Police Station :
- (g) First opening date : 24/05/1999
- (h) Weekly day of rest : SUN
2. Address for : Velguem/Surla mine,m/s VM Salgaocar & Bro. Ltd.
correspondance Village: Velguem/Surla -403505, Tq.:Bicholim,
Dist.:North Goa
3. (a) Lease Number : GOA0187
- (b) Lease area : 93.95
- (c) Period of lease :
- (d) Date of Expiry : 22/11/2027
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : V.M. SALGAOCAR & BROTHERS LIMITED
 Salgoacar House, P.B.No.
 14 Fr. Gomes Road, Vasco-
 da-gama SOUTH GOA GOA
 Phone:0832-2512111, 2513808
 FAX :0832-2513813

Owner : Shri.Shivanand .V. Salgaocar
 Salgaocar House Post Box
 No. 14 Vasco-da-gama SOUTH
 GOA GOA
 Phone: 0832-512111
 FAX : 0832-513813

Agent : R.Subramanian
 M/s V.M.Salgaocar & Bro.
 Surla Office, Surla P.O.
 Sanquelim,Goa NORTH GOA GOA
 Phone: 372293,372222 (o), 312563(R)
 FAX : 0832-513813

Mining Engineer
 Name : R.Sundersingh,Full Time
 Qualification : B.E.(Mining)
 Appointment/ : 16/05/2001 08/10/2001
 Termination date

Mining Engineer
 Name : G. KOTRA GAUD,Full Time
 Qualification : B.TECH (MINING)
 Appointment/ : 08/10/2001 06/11/2002
 Termination date

Mining Engineer
 Name : SAJEER AHAMMED A,Full Time
 Qualification : B.E.(MINING ENGG)
 Appointment/ : 06/11/2002 26/04/2003
 Termination date

Mining Engineer
 Name : SHRI S.SREENIVAS REDDY,Full Time
 Qualification : B.E (MINING)
 Appointment/ : 20/09/2006
 Termination date

Mining Engineer
 Name : D.SURESH KUMAR,Full Time
 Qualification : B.TECH (MINING)
 Appointment/ : 12/05/2003
 Termination date

Geologist
 Name : Kantharaj K.,Full Time
 Qualification : M.Sc (Geology)
 Appointment/ : 16/05/2001 01/11/2001
 Termination date

Geologist

Name : B.R.Jayanth, Full Time
 Qualification : M.Sc. Geology.
 Appointment/ : 01/09/1986 16/05/2001
 Termination date

Manager

Name : Kishor Bapu Haldankar
 Qualification : Dip in Mining & Mine Surveying, FCMMC
 Appointment/ : 23/03/2001
 Termination date

Manager

Name : R.Subramanian
 Qualification : Dip.in MiningIst class Mine ManagerDip.i
 Appointment/ : 01/01/2000 26/03/2001
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	17/03/2003
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	05/12/2003
		MP modif under 17(3) MCR 2016	23/02/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	Nil	Nil	No proposal
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	19.72 MT	19.20 MT	
1f	General remarks of inspecting officers on geology, exploration etc			No exploration proposal.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	W-170 to W340 N-440 to N-780 E 080 to E 200 N400 to N 700 E 150 to E 390 S 350 to S 450	Yes	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	No topo soil. Overburden and minerals benches
2c	Stripping ratio or ore to OB ratio	1:0.96	1:1.26	
2d	Quantity of topsoil generation in m3	nil	nil	
2e	Quantity of overburden generation in m3	0.58 million cum	0.64 million cum	

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc satisfactory

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two	two	
3b	Quantity of ROM mineral production proposed	1.35 MT	1.2767 MT	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Threshold value normal ore 45%Fe and Siliceous Ore 35%Fe.
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 and carried out for sub grade mineral and rejects.	nil	nil	
3j	Provision of drilling and blasting in mineral benches	No	nil	

3k	Provision of mining machineries in mineral benches	yes	yes	HEMM deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		yes	Advice to maintained as proposed.	
3m	Total area covered under excavation/pits		114.176 Ha		
3n	Ore to OB ratio for the pit/mine during the year.		1:1.26		
3o	Total area put in use under different heads at the end of year	211.261Ha	211.261Ha		
3p	Production of ROM mineral during the last five year period as applicable	2013-14- nil 2014-15 nil 2015-16 1.151MT 2016-17 1.350 MT	2012-13 2013-14- 2014-15 2015-16 2016-17	0.504 MT nil nil 0.763 MT 1.277 MT	
3q	General remarks of inspecting officers on method of mining etc.			ROM produced is shifted to the plant outside the lease area for gradewise sorting.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	Top soil proposal nil
4b	Location of topsoil, OB and mineral reject dumps	No top soil proposed	No top soil.	backfilling proposal in the AY. However 08 nos of waste dumps formed in the past within the lease area.

4c	Number of dumps within lease area and outside of lease area	Back filling	Backfilling in the AY	Old inactive 08 nos of waste dumps formed in the past within the lease area. and 03 outside old dump.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Nil	Backfilling	
4e	Number of active and alive dumps.	nil	nil	
4f	Number of dead dumps.			08 nos.within
4g	Number of dumps established.		08 within the Lease	08 within the Lease and 02 outside
4h	Whether Retaining wall or garland drain all along dumps are there.	yes	maintained	
4i	Length of Retaining wall or garland drain all along dumps		21192 meters	
4j	Number of settling ponds		09 nos within the lease area	09 nos within the lease area
4k	Specific comments of inspecting officer on waste dump management			Only backfilling proposed in the minedout area. However, old inactive dumps are established within and outside the lease area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Full extraction	Full extraction	
5b	Area under backfilling of mined out area		16.55ha	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)		yes	
5d	Total area fully reclaimed and rehabilitated	3.3ha	3.3ha	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			backfilling on mined out area proposed.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		yes	
6b	Area available for rehabilitation (ha) .		0.40ha	
6c	afforestation done (ha).	1.2 ha	1.2ha	
6d	No. of saplings planted during the year	1100nos.	1100nos.	
6e	Cumulative no .of plants		3.958 Lakhs nos. within the lease.	
6f	Any other method of rehabilitation	nil	nil	
6g	Cost incurred on watch and care during the year		10,000Rs.	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	LXBXW :-325M X150M X25M		

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings		LXBXW :-310M X150M X24M
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area		NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)		Yes

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Back filling on mined out area.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM despatch	ROM despatch	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Nil	Nil	ROM supplying plant situated outside the lease area for segregation.
7c	Different grade of mineral sorted out at mines.	Nil	Nil	
7d	Any beneficiation process at mines	nil	nil	no beneficiation within the lease.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ROM supplying plant situated outside the lease area for segregation.

Environment:

Sl.No.	Item	Propasals	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)		Available	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	yes	Yes	Used for backfilling to restore the the mined out area.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)		yes	Used for backfilling to restore the the mined out area.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	yes	yes	1100 nos planted in the year 2016-17.
8g	Survival rate	70%	65%	
8h	Water sprinkling on roads to control airborne dust		yes	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Mine Office area has developed with various types of plants. Fruits plants developed in the one of the dump area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		submitted	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	furnished	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	provided	
9d	Scrutiny of Annual return on afforestation	provided	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	provided	furnished.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	furnished	cost of production 733.60 Rs/T
9h	Scrutiny of Annual return on fixed assets	furnished	
9k	Scrutiny of Annual return on mining machineries	furnished	

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

Date :

(SURESH PRASAD)

Indian Bureau of Mines