

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

**Mining Plan Modification REPORT**

**Goa regional office**

**Mine file No :** GOA/FeMn/340

**Mine code :** 40GOA02020

- (i) Name of the Inspecting : **SP01** ) **SURESH PRASAD**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri S.Padiyar, Mine Owner & Shri V.P.Navare, QP.  
Official with  
Designation
- (iv) Date of Inspection : 05/09/2018
- (v) Prev.inspection date : 19/05/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **VAXEP DANDO**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
- State : GOA
- District : SOUTH GOA
- Village : MOLCORNEM
- Taluka : SANGUEM
- Post office : MOLCORNEM
- Pin Code :
- FAX No. :
- E-mail :
- Phone : 662498
- (f) Police Station :
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : Village : Malcornem,  
correspondance Taluka : Quepem,  
District : South Goa, Goa.
3. (a) Lease Number : GOA0308
- (b) Lease area : 89.24
- (c) Period of lease : 20
- (d) Date of Expiry : 12/01/1998
4. Mineral worked : MANGANESE ORE Main

## 5. Name and Address of the

Lessee : GAJANAN SANTU PADIYAR  
 House No. 121, Paroda,  
 Quepem, Dist. South Goa,  
 Goa. SOUTH GOA GOA  
 Phone:662498  
 FAX :

Owner : GAJANAN SANTU PADIYAR  
 House No. 121, Paroda,  
 Quepem, Dist. South Goa,  
 Goa. SOUTH GOA GOA  
 Phone: 662498  
 FAX :

## Mining Engineer

Name : AJAY KUMAR, Full Time  
 Qualification : DIPLOMA IN MINING & MINE SURVEYING  
 Appointment/ : 01/02/2000  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	29/11/2002
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	18/07/2008
		Mining Scheme rule 12 MCDR1988	12/07/2012
		MP modif under 17(3) MCR 2016	28/06/2017

## 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	10 nos. of boreholes were proposed each having 20m of depth in the year 2017-18.	12 nos. of bore holes undertaken with depth of 10m x6 nos., 12m x 1 no. and 15m x 5nos..	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		"Sankalpana" of Shri Vivek P.Navare Ponda, Goa Expenditures:-Rs. 2.8 Lakhs	
1d	Balance area to be explored to bring Geological axis in 1 or 2	54.9669 Ha.		
1e	Balance reserve as on 01/04/20	As on 1.4.2018 67499 Tones of Maganese Ore	67499 Tones of Maganese Ore	Reserve updated after recent exploration.
1f	General remarks of inspecting officers on geology, exploration etc			reserve updated after recent exploration.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1678935 to 1678996 E 406975 to 407019	nil	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal of top soil. OB & Minerlas proposed seperately.	Nil	Mines not operated in the year 2017-18.
2c	Stripping ratio or ore to OB ratio	1:4.0	Nil	Not operated in the year 2017-18.
2d	Quantity of topsoil generation in m3	Not proposed	Nil	

2e	Quantity of overburden generation in m3	2081 Cum	nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			not operated in the assessment Year 2017-18.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	nil	
3b	Quantity of ROM mineral production proposed	350tons	nil	Not achieved.
3c	Recovery of sailable/usable mineral from ROM production	350 ton	nil	
3d	Quantity of mineral reject generation	Not proposed	nil	
3e	Grade of mineral rejects generation and threshold value declared.	Mn+10 to 49.99% Threshold value 10% of Mn	nil	
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	manual	nil	
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 proposal	nil	
3k	Provision of mining machineries in mineral benches	Excavator 0.60cum capacity one no. tipper 10ton capacity 2 nos.	not worked in the year 2017-18.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	height 2m and width 3m	Nil	
3m	Total area covered under excavation/pits	1.64 ha cumm	1.3ha cumm	
3n	Ore to OB ratio for the pit/mine during the year.	1:4.0	nil	
3o	Total area put in use under different heads at the end of year	Cumm-5.4ha	cumm 3.31ha	as per the record, mines has produced only 150tonnes ore during the year 2016-17 in the period 2012-13 to 2017-18
3p	Production of ROM mineral during the last five year period as applicable	2013-14 to 2017-18-1750tons	2013-14 to 2017-18-150 tons	achived figure is very less w r t proposal. production only in the year 2016-17.
3q	General remarks of inspecting officers on method of mining etc.			Mines was not operated for production in the year 2017-18.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of top soil and MR. Seperate dumping of OB proposed.	Nil	

4b	Location of topsoil, OB and mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside of lease area	Within one	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	Old dump.
4e	Number of active and alive dumps.	one	one	Old dump. not achieved in AY.
4g	Number of dumps established.	one	one	
4h	Whether Retaining wall or garland drain all along dumps are there.	Prapet walls and coco filter proposed in the plan period.	Not achieved	mines not operated in the year 2017-18.
4i	Length of Retaining wall or garland drain all along dumps	Parapet wall- 150m	Not achieved.	mines not operated.
4j	Number of settling ponds			
4k	Specific comments of inspecting officer on waste dump management			Waste generation/product ion not achieved in the year 2017-18.

#### 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.	dumping for rectification of old benches in pit 1.	nil	
5b	Area under backfilling of mined out area	dumping for rectification of old benches in pit 1. area 0.10ha	nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	no top oil proposal	nil	
5d	Total area fully reclaimed and rehabilitated	not proposed	nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No backfilling and reclamation carried out.

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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).		Not submitted.	Mines not operated in the year 2017-18. however, Violation pointed out.
6b	Area available for rehabilitation (ha) .	nil	nil	
6c	afforestation done (ha).	0.30ha.	nil	
6d	No. of saplings planted during the year	150nos.	nil	
6e	Cumulative no .of plants			
6f	Any other method of rehabilitation	nil	nil	
6g	Cost incurred on watch and care during the year	Rs. 7500/-	-	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	nil	Nil	No backfilling proposed except bench rectification.

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	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	niul	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No proposal for Reclamation and rehabilitation.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Manual sorting	Not achieved at peat head.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Nil	
7c	Different grade of mineral sorted out at mines.	+10% Mn	nil	



7d	Any beneficiation process at mines	No	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Above threshold value mineral proposed for use by blending. Further, production proposal is very small scale of operation.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal of Top soil.	Nil	
8b	Concurrent use or storage of topsoil	no	nil	
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	no proposal	nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	nil	
8g	Survival rate	60%	Nil	
8h	Water sprinkling on roads to control airborne dust	Proposal made	Not done. As mines not operated.	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Production of maganese ore in very scale. Area is covered with greenary and vegetations.
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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Yes	observed Nil production. in the year 2017-18 and till date of inspection.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Nil	Not appointed.	Mines not operated since 2017-18. Further, violation pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Mines not operated in the year 2017-18 and till inspection.	
9d	Scrutiny of Annual return on afforestation		nil	Mines not operated in the year 2017-18 and till date of inspection
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost		nil	As per the record, Mines not operated in the year 2017-18 and till inspection
9h	Scrutiny of Annual return on fixed assets		As per the record, Mines not operated in the year 2017-18 and till inspection	
9k	Scrutiny of Annual return on mining machineries		As per the record, Mines not operated in the year 2017-18 and till inspection	



**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