

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

Review and updation of Mining Plan REPORT

Goa regional office

Mine file No : Goa/Fe/179 Vol II

Mine code : 30GOA01159

- (i) Name of the Inspecting Officer and ID No. : **K02) KALMATA M.K.**
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine Official with Designation : Shri Gopalakrishna Goankar, Qualified person & Shri B
- (iv) Date of Inspection : 12-JAN-18
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : PURMARE PARVEDT OU AUCANO
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : GOA
- District : NORTH GOA
- Village : PALE
- Taluka : BICHOLIM
- Post office : PALE
- Pin Code : 403105
- FAX No. : 0832-2460580
- E-mail : smil.mining@gmail.com
- Phone : 0832-2460500
- (f) Police Station :
- (g) First opening date : 04-SEP-53
- (h) Weekly day of rest : SUN
2. Address for correspondance : M/s Sallitho Ores Ltd.
Pale iron ore Mine
Po-Pale, Tq- Bicholim, North Goa, Goa-403105
3. (a) Lease Number : GOA0195
- (b) Lease area : 94.6
- (c) Period of lease : 20
- (d) Date of Expiry : 22-NOV-27
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : SALITHO ORES LIMITED
 M/s Sallitho Ores Ltd.
 Salgaocar Chamber PB. No.-
 114, Margao SOUTH GOA GOA
 Phone:0832-2737301-06
 FAX :0832-2732271

Owner : A.V. Salgaocar (M/s Sallitho ores Ltd)
 M/s Sallitho Ores Ltd
 Salgaocar Chambers PB No.-
 114, Margao SOUTH GOA GOA
 Phone: 737301-06
 FAX : 0832-732271

Mining Engineer
 Name : SIVARAM PRASAD, Full Time
 Qualification : AMIE (MINING)
 Appointment/ : 01-APR-06 08-JAN-07
 Termination date

Mining Engineer
 Name : Prakash Chandra, Full Time
 Qualification : B.E. (Mining)
 Appointment/ : 02-NOV-98 15-DEC-03
 Termination date

Mining Engineer
 Name : DULEEP RAY, Full Time
 Qualification : B.E. (MINING)
 Appointment/ : 16-DEC-03 01-JUN-06
 Termination date

Mining Engineer
 Name : ARITRAJ BHOWMIK, Full Time
 Qualification : B.E (MINING)
 Appointment/ :
 Termination date

Mining Engineer
 Name : BALRAM SINGH, Full Time
 Qualification : B.E (MINING)
 Appointment/ : 08-JAN-07 01-DEC-07
 Termination date

Geologist
 Name : MS SHUBHADA NETRAVALKAR, Full Time
 Qualification : M.SC (GEOLOGY)
 Appointment/ : 01-MAY-03 13-MAR-06
 Termination date

Geologist
 Name : G.K.Kulkarni, Part Time
 Qualification : M.Sc. (Mineral exploration/Geology)
 Appointment/ : 31-MAY-95 01-OCT-02
 Termination date

Geologist

Name : VISHAL SHIRODKAR, Full Time
 Qualification : M.SC (GEOLOGY)
 Appointment/ : 01-JAN-03 15-APR-03
 Termination date

Geologist

Name : HARIHARA SAHU, Full Time
 Qualification : M.SC (GEOLOGIST)
 Appointment/ : 13-MAR-06
 Termination date

Manager

Name : G. Shirish
 Qualification : D.M.E., F.C.C.
 Appointment/ : 07-JUN-99 24-JUN-04
 Termination date

Manager

Name : BABURAO R. DESAI
 Qualification : DIP. MINING, FCMMC
 Appointment/ : 24-JUN-04 01-NOV-06
 Termination date

Manager

Name : AMIT VASUDEV KAISUKAR
 Qualification : DIP IN MINING, FCMM
 Appointment/ : 01-NOV-06
 Termination date

Manager

Name : IBRAHIM SHARIEF
 Qualification : FIRST CLASS MM CERTIFICATE HOLDER
 Appointment/ : 18-DEC-09
 Termination date

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 29-OCT-01
 Plan/Scheme of Mining : Renewal under rule 24 MCR1960 05-MAY-09
 : MP modif under 17(3) MCR 2016 04-JAN-17

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	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NA	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20		In '000' tonnes Resrves - 16851.252 Resources- Nil	
1f	General remarks of inspecting officers on geology, exploration etc		Mine is not working from 2012 onwards and no exploration was proposed upto 2016-17. However about 54 ha is explored under G-1 level.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-171140 to N-1711400 and E-401000 to E-401200	Nil	Mine is not working.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	Nil	
2c	Stripping ratio or ore to OB ratio	1:0.79	Nil	Mine is not working
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	98594	Nil	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Due to want of Statutory clearances the mine was not working and no development has been carried out .
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Exploitation:

Sl.No.	Item	Proposals	Actual work	Remarks
3a	Number of pit proposed for production	One	Nil	
3b	Quantity of ROM mineral production proposed	270000 tons	Nil	
3c	Recovery of sailable/usable mineral from ROM production		Nil	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
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	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	No	

3k	Provision of mining machineries in mineral benches	yes	No	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	No benches formed.	Mine is not working
3m	Total area covered under excavation/pits		Nil	Total area covered by old pit is about-55.16Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.79	Nil	
3o	Total area put in use under different heads at the end of year		Nil	total area under different heads is area under mining-55.16 ha, waste dump-7.39Ha, backfilled-17.64ha, Infrastructure-1.20Ha
3p	Production of ROM mineral during the last five year period as applicable	No proposal form 2013-14 to 2015-16 and in 2016-17 and 2017-18 270000/ annum was proposed.	No production was carried out from 2013-14 to 2017-18.	The mine was not working.
3q	General remarks of inspecting officers on method of mining etc.		No mining activity has been taken place from 2013-14 onwards, due to want of statutory clearances and market condition.	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes	Nil	
4b	Location of topsoil, OB and mineral reject dumps	N-1711560 to N-1711775 and E-400970 to E-401200	Nil	Mine is not working

4c	Number of dumps within lease area and outside of lease area	One	Nil	Two old dumps are exist within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the UPL	Nil	
4e	Number of active and alive dumps.	One	Nil	
4f	Number of dead dumps.	Nil	Nil	Two old dumps are there within lease area.
4g	Number of dumps established.	One	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	One	Nil	Mine is not working and no dumping was made.
4i	Length of Retaining wall or garland drain all along dumps		Nil	
4j	Number of settling ponds		Nil	
4k	Specific comments of inspecting officer on waste dump management			The mine is not working and no waste was handled and no dump was formed.

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.	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	

5d	Total area fully reclaimed and rehabilitated	Nil	Nil	Total 17.64 ha is backfilled earlier.
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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).	1st july of every year.	The mine is not working from 2012 onwards and report on PMCP is not submitted.	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha) .	Nil	Nil	
6d	No. of saplings planted during the year	2000	Nil	Violation is pointed out for the same.
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year	Nil	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	Nil	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)	Nil	Nil	Mine is not working
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Mine is not working and no progressive closure operations were taken place.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	yes	Nil	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised.	Nil
7c	Different grade of mineral sorted out at mines.		Nil
7d	Any beneficiation process at mines .	Only dry crushing and screening.	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Mine is not working.

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)	yes	Nil	
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 and additional plantation done (Rule 41)		About 2000 saplings were planted	
8g	Survival rate		NA	
8h	Water sprinkling on roads to control airborne dust		Nil	Mine is not working.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Most of the lease area is degraded by mining activity.	

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		Lessee is regularly submitting monthly and annual returns.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	No mining engineer was shown and Mr.Sudarshan B. Waghmare is shown as Geologist.	On the day of inspection it was observed that no geologist and mining engineers were appointed.	violation is pointed out for the same.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining-55.16 ha, area backfilled-17.64ha, waste-7.39ha.	Details are almost matching .	
9d	Scrutiny of Annual return on afforestation	Nil	Nil	

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Under ROM about-99519 from open cast working and about 8241709.0 tons from dump working are shown as closing stock.	Under dump working the actually ore recoverd from dump was not shown. and entire waste dump was shown as closing stock under dump working.	Violation was pointed out for the same.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil	
9h	Scrutiny of Annual return on fixed assets	Rs- 27800000		
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	

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

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	25-JAN-18			
MCDR17	Rule 27(1)	25-JAN-18			28-MAR-18
MCDR17	Rule 27(2)	25-JAN-18			28-MAR-18
MCDR17	Rule 45(1)	25-JAN-18			
MCDR17	Rule 55(1)(3)	25-JAN-18			

Date :

(KALMATA M.K.)

Indian Bureau of Mines