

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

Mining Plan Modification REPORT

Goa regional office

Mine file No : GOA/FE/164

Mine code : 30GOA01179

- (i) Name of the Inspecting : **K02**) **KALMATA M.K.**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Shri Dharmendra P.Pawar
Official with
Designation
- (iv) Date of Inspection : 28-SEP-17
- (v) Prev.inspection date : 27-JUN-15

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **QUELCHEM TOUR TAMBDI MATI**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : GOA
- District : NORTH GOA
- Village : CUDNEM, ONDA, SONUS-
- Taluka : BICHOLIM AND SATTARI
- Post office : SANQUELIM
- Pin Code : 403505
- FAX No. : 0832-2730651
- E-mail : mgr.cdm@gmail.com
- Phone : 7391078969
- (f) Police Station :
- (g) First opening date : 01-JAN-53
- (h) Weekly day of rest : SUN
2. Address for : VILLAGE : CUDNEM
correspondance TQ: BICHOLIM
DIST: NORTH GOA,GOA
3. (a) Lease Number : GOA0433
- (b) Lease area : 43.14
- (c) Period of lease : 10
- (d) Date of Expiry : 21-NOV-97
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : SOCIEDADE DE FOMENTO
 CUDNEM BICHOLIM GOA NORTH
 GOA GOA
 Phone:
 FAX :

Owner : FRANCISCO LUME PEREIRA / M.S.TALAULIKAR & SONS PVT
 M.S.TALAULIKAR & SONS
 PVT.LTD. VILA FLORES DA
 SILVA, P.O.BOX NO. 31,
 MARGAO-GOA (403601) SOUTH
 GOA GOA
 Phone:
 FAX :

Mining Engineer

Name : Shri Dharmendra Pawar, Full Time
 Qualification : Degree in Mining Engineer
 Appointment/ : 16-DEC-16
 Termination date

Manager

Name : Shri Shashi Shekhar Ray
 Qualification : Diploma in Mining
 Appointment/ : 05-APR-17
 Termination date

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	27-JUL-07
Plan/Scheme of Mining		MP modif under MCR 1960	27-OCT-15
		MP modif under 17(3) MCR 2016	07-OCT-16

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There was a proposal to drill 37 boreholes in the year 2016-17.	Due to consent problem the exploration was not carried out as per the proposal	Violation was issued for the same by Mr Suresh prasad, DCOM on 08.06.2017. So no fresh violation was issued.
1b	Exploration over lease area for geological axis 1 or 2	14.00ha	Nil	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	14.00ha	Nil	
1e	Balance reserve as on 01/04/20		In '000' tons Reserves- 1510 Resources- 7099	
1f	General remarks of inspecting officers on geology, exploration etc		Due to consent problem the exploration was not carried out as per the proposal and violation was pointed out for the same by DCOM, Mr Suresh prasad. so no fresh violation was pointed out.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	N-1717399 to N-1717604 to E-396356 to E-396652 and N-1717666 to N-1717847 to E-396284 to E-396426	Working has been carried out within proposed area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	yes	

2c	Stripping ratio or ore to OB ratio	1:6.67	1:5.41
2d	Quantity of topsoil generation in m3	Nil	Nil
2e	Quantity of overburden generation in m3	750000	329323
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Due to some social and other issues the development has been not carried out as per the proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	225000 tons	121673 tons	
3c	Recovery of sailable/usable mineral from ROM production		100%	
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.	Dry screening	Dry screening
3j	Provision of drilling and blasting in mineral benches	No	No
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	Yes, 6.0 mtr height benches were proposed.	Yes, Benches were maintained as per the proposal.
3m	Total area covered under excavation/pits		15.8202Ha
3n	Ore to OB ratio for the pit/mine during the year.	1:6.67	1:5.41
3o	Total area put in use under different heads at the end of year		Area under mining-15.82 Ha, waste dump-14.58Ha, Infrastructure-5.26Ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18 225000 tons 2016-17 225000 tons 2015-16 225000 tons 2014-15 Nil 2013-14 Nil	2017-18 47998 tons (upto aug-17) 2016-17 121673 tons 2015-16 Nil 2014-15 Nil 2013-14 Nil
3q	General remarks of inspecting officers on method of mining etc.		Benches were maintained as per the proposal.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	yes	yes
4b	Location of topsoil, OB and mineral reject dumps	N-1717589 to N-1717983, E-396222 to E-396572 and N-1717640 to N-1717873, E-396270 to E-396503. (temporary backfilling)	N-1717211 to N-1717405 and E-396269 to E-396581.
4c	Number of dumps within lease area and outside of lease area		03 dumps within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)		Within UPL
4e	Number of active and alive dumps.	02	01
4f	Number of dead dumps.		02
4g	Number of dumps established.		One
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	maintaing existing garland drains and one retaining wall was made.
4i	Length of Retaining wall or garland drain all along dumps		140m x 2.0m x 1m
4j	Number of settling ponds		02
4k	Specific comments of inspecting officer on waste dump management		Dumping of waste was made with in the proposed area.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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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
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Mineral is not fully exhausted and no backk filling was 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).	before 1st july of every year.	yes	
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).		0.2ha	
6d	No. of saplings planted during the year	500	550	
6e	Cumulative no .of plants		5299	
6f	Any other method of rehabilitation	Nil	Nil	
6g	Cost incurred on watch and care during the year		Rs-150000	

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)Afforestation 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)	Lessee is regularly monitoring, air, water and noise and all the parameters are within permissible limit.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Gradewise sorting within lease.	Gradewise sorting within lease.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised.	Mechanised by dry screening.	
7c	Different grade of mineral sorted out at mines.		Below 55 grade ore and 55 to 58%fe grade ore.	
7d	Any beneficiation process at mines		Only dry screening	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Lessee is doing only dry screening for sorting of ore. lessee is blending lowgrade ore with high garde ore as per the market requirement.	

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	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 and additional plantation done (Rule 41)		about 5300 plantation was made.
8g	Survival rate		70%
8h	Water sprinkling on roads to control airborne dust		Yes
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		satisfactory

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	Mining engineer-Mr. Vijay M. Waghmare.	As per the office records the mining engineer is Mr Dharmendra Pawar.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining- 15.82ha, waste dump-14.58ha, and infrastructure -5.26ha.	Almost matching
9d	Scrutiny of Annual return on afforestation	550	matching
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	About 11673 tons of ROM, about 2845 tons of 55-58 grade lumps and 1959 tons below 55 grade fines was shown as closing stock.	Matching
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value (FOB) for lumps of 55 to 58 grade is shown as Rs-2229/ ton Slave vale (FOB) of fine below 55 grade is Rs-1964/ton. Exmine price for lumps of 55 to 58 grade is shown as Rs-1461/ton and fines below 55 grade is Rs-753/ton and fines b/w 55 to 58 grade is Rs-1319/ton and cost of production shown as Rs-913.88/ton.	Found correct.

9h	Scrutiny of Annual return on fixed assets	Rs-48319010	
9k	Scrutiny of Annual return on mining machineries		The mine was not working on the day of inspection and no machineries were seen in the mining area.

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

Date :

(KALMATA M.K.)

Indian Bureau of Mines