

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

Review and updation of Mining Plan REPORT

Goa regional office

Mine file No : GOA/FeMn/34

Mine code : 30GOA02041

- (i) Name of the Inspecting : **K07**) **KRISHNENDU CHATTERJEE**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Faroj Naik-Lessee Rep. & V.P.Navare-TQP
Official with
Designation
- (iv) Date of Inspection : 25-MAR-22
- (v) Prev.inspection date : 03-JUL-18

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **GODBAIM OU CUTIEM CURPEM**
- (b) **Registration NO.** : **IBM/4602/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : GOA
District : SOUTH GOA
Village : CURPEM
Taluka : SANGUEM
Post office : SANGUEM
Pin Code :
FAX No. :
E-mail : ironoremining@rediffmail.co
Phone : 08322759113
- (f) Police Station :
- (g) First opening date : 19-OCT-51
- (h) Weekly day of rest : SUN
2. Address for : Village : Curpem
correspondance : P.O. Vaddem, Tq.: Sanguem,
Dist. South Goa, Goa.
3. (a) Lease Number : GOA0253
- (b) Lease area : 69.47
- (c) Period of lease : 20
- (d) Date of Expiry : 22-NOV-27
4. Mineral worked : MANGANESE ORE Associated
IRON ORE Main

5. Name and Address of the

Lessee : RAJESH P.TIMBLO
 CURPEM SANGUEM GOA SOUTH
 GOA GOA
 Phone:
 FAX :

Owner : CHANDRAKANT FONDU NAIK
 R/O UNIRAAG, DEVTEWADO,
 CURCHOREM GOA SOUTH GOA GOA
 Phone:
 FAX :

Geologist

Name : M.K. BHAT, Full Time
 Qualification : M. Sc. (Geology)
 Appointment/ : 18-DEC-00 05-JUN-06
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	16-JUL-02
Plan/Scheme of Mining		Modif.approved Mining Scheme	22-JUL-03
		Renewal under rule 24 MCR1960	10-OCT-07
		Modif.of approved Mining Plan	06-MAY-11
		MP modif under 17(3) MCR 2016	16-AUG-16
		MP review under 17(1) MCR 2016	03-AUG-18

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Total 26 nos. of borehole proposed during 2018-19 & 2019-20.	No exploration by boreholes has been drilled so far.	Violation of Rule 11(1) issued on dated 04.04.2022.
1b	Exploration over lease area for geological axis 1 or 2	G1 proposed.	Area covered under G1: 9.10 Ha., G2: 14.76 Ha.	Remaining ML area is unexplored.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1 proposed	Part of the ML area was explored under G1 and G2.	
1e	Balance reserve as on 01/04/20		1.64 million tonnes of Iron Ore (UNFC Cat. 111 & 122) Quality: +45 to 65.20% Fe	As on 01.04.2021
1f	General remarks of inspecting officers on geology, exploration etc			So far, 23.86 Ha. of the ML area was explored by the lessee under G1 & G2 level by drilling with 91 nos. boreholes. Twenty six (26) nos. of boreholes were proposed to be drilled in the ML area during 2018-19 and 2019-20; against which no borehole has been drilled by the lessee. Violation of Rule 11(1) issued on dated 04.04.2022.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	1673500 N to 1673790 N, E 411260 E to 411550 E	Nil	Mine was continued to be non-working during 2020-21
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in ore and OB proposed.	Separate benches in ore and OB have been maintained.	
2c	Stripping ratio or ore to OB ratio	1:1.85	Nil	No mining operation during 2020-21.
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	43586 m3	Nil	BD of waste: 1.91 tonnes/m3
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mine is reported non-working since 2013-14 due to legal issues. Temporary Discontinuance notice in Form -D is submitted by the lessee to this office on dated 01.02.2013.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Working at Single pit proposed (Pit no. 3)	Nil during 2020-21.	Total 3 nos. of pits present in the ML area; covering total extent of 6.50 Ha.
3b	Quantity of ROM mineral production proposed	45,000 tonnes of Iron Ore	Nil	
3c	Recovery of sailable/usable mineral from ROM production	100% recovery of ROM proposed.	Nil	
3d	Quantity of mineral reject generation	No proposal	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Not Applicable.	
3f	Quantity of sub grade mineral generation.	No proposal	Nil	
3g	Grade of sub grade mineral generation	No proposal	Not Applicable.	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised mining proposed.	Nil	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	No proposal for drilling and blasting.	Nil	
3k	Provision of mining machineries in mineral benches	Proposed with hydraulic excavators and dumpers combination.	No mining machineries available in the ML area.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m bench height proposed.	Nil during 2020-21. Earlier bench height was maintained by 5 to 6m.	
3m	Total area covered under excavation/pits	7.53 Ha. at the end of F.Y. 2022-23.	6.50 Ha.	As reported in the submitted AR of 2020-21.
3n	Ore to OB ratio for the pit/mine during the year.	1:1.85	Nil	

3o	Total area put in use under different heads at the end of year	Area under mining: 7.53 Ha Dumps: 3.56 Ha. Infrastructure s & Road: 2.0 Ha. Mineral stacks: 4.0 Ha.	Area under mining: 6.50 Ha. Dumps: 1.20 Ha. Infrastructures & Road: 2.0 Ha. Mineral stacks: 4.0 Ha.	Actual land utilizations are mentioned as per the submitted AR of 2020-21.
3p	Production of ROM mineral during the last five year period as applicable	2016-17: 45,000 2017-18: 45,000 2018-19: 100,000 2019-20: 45,000 2020-21: 45,000 (in tonnes)	No mine production is reported during 2016-17 to 2020-21.	The mine is reported non-working since 2013-14.
3q	General remarks of inspecting officers on method of mining etc.			The mine is reported non-working since 2013-14 due to legal issues. Temporary Discontinuance notice in Form -D is submitted by the then lessee to this office on dated 01.02.2013.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Disposal of waste by surface dumping proposed.	Nil during 2020-21	
4b	Location of topsoil, OB and mineral reject dumps	OB/waste dumping proposed at western side of the Pit No. 3	Nil during 2020-21	3 nos. of old mineral reject dumps present in the ML area.
4c	Number of dumps within lease area and outside of lease area	01 no. waste dump proposed within ML area.	Nil	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL proposed.	Nil	
4e	Number of active and alive dumps.	01 no. active dump proposed	Nil	
4f	Number of dead dumps.	03 nos.	03nos.	Reported as old mineral reject dumps; average grade 46.5% Fe.
4g	Number of dumps established.	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed.	Not applicable.	Surface dumping of OB waste has not been commenced during the approved RMP period (2018-19 to 2022-23).
4i	Length of Retaining wall or garland drain all along dumps	504m parapet wall and garland drain proposed along the Proposed dumping area.	Nil along the proposed waste dump. However, 495m of toe wall and 436m garland drain were constructed earlier along the periphery of the mineral reject dumps and ore stocks.	
4j	Number of settling ponds	02 nos. proposed.	Nil during 2020-21 & 03 nos. of settling ponds are constructed earlier.	
4k	Specific comments of inspecting officer on waste dump management			Disposal of waste was proposed at western side of the Pit No. 3. Dumping activity was not commenced as the mine was non-working since 2013-14.

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.	No proposal	Nil as the mine pit was not matured for backfilling.	
5b	Area under backfilling of mined out area	No proposal	Nil	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mine pit was not matured for backfilling since mineral persists at the bottom of mine workings.

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).	Proposed	Not submitted for F.Y. 2020-21.	The mine was not in operation during 2020-21.
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	No proposal	Nil during 2020-21.	
6d	No. of saplings planted during the year	No proposal	Nil during 2020-21.	
6e	Cumulative no .of plants	Not specified	Apprx. 2500 nos. along the 7.5m safety barrier area.	
6f	Any other method of rehabilitation	No proposal	Nil	
6g	Cost incurred on watch and care during the year	No proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Not applicable	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	No proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	No proposal	Not applicable
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	No proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	No proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed.	Nil during 2020-21 as the mine was non-working.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	PMCP compliance was not undertaken since the mine was not in operation from 2013-14 and therefore no change in the status/landscape of the mine.
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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 dispatch proposed after crushing and dry screening.	Nil	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Nil	100% recovery of ROM proposed.
7c	Different grade of mineral sorted out at mines.	Proposed for all +45% Iron Ore.	Nil	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The mine is reported non-working since 2013-14 due to legal issues. Temporary Discontinuance notice in Form -D is submitted by the lessee to this office on dated 01.02.2013.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil	

8b	Concurrent use or storage of topsoil	No proposal	Not applicable.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Not applicable.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Mine pit is not matured for backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Proposed during conceptual stage.	Not applicable as of now.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed	Apprx. 2500 nos. saplings planted along the 7.5m safety barrier area.	
8g	Survival rate	No proposal	Not applicable.	
8h	Water sprinkling on roads to control airborne dust	Proposed by using water tanker.	Nil	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around the mining area is good.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to Mar. 2022 & A.R. Submitted up to 2021-2022	M.R.s are submitted regularly in 2020-21 and 2021-22. Compliance of Rule 45 is furnished based on the submitted AR 2020-21 since the mine was inspected on 25.03.2022.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Information are furnished as Nil in respect of Mining Engineer, Geologist and Manager.	No Mining Engineer, Geologist and Manager were found appointed.	The mine is non-working since 2013-14. Lessee representative stated that statutory personnel would be appointed on resumption of mining activity.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining: 6.50 Ha. Dumps: 1.20 Ha. Infrastructure s & Road: 2.0 Ha. Mineral stacks: 4.0 Ha.	Area under mining: 6.50 Ha. Dumps: 1.20 Ha. Infrastructures & Road: 2.0 Ha. Mineral stacks: 4.0 Ha.	
9d	Scrutiny of Annual return on afforestation	Nil	No plantation during 2020-21.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	No mineral reject generation during 2020-21.	Old mineral reject stocks reported as 965,000 tonnes with 46.5% Fe.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM closing stock: 965,000 tonnes from dump workings. Graded ore closing Stocks: 17,000 tonnes of Lumps and 23,000 tonnes of Fines.	Three (3) nos. of old mineral reject dumps present in the ML area.	

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	No despatch reported in 2020-21.
9h	Scrutiny of Annual return on fixed assets	Estimated market value reported as Rs. 94,608/-	Net closing balance and estimated market values furnished in the AR.
9k	Scrutiny of Annual return on mining machineries	Information are furnished as Nil.	No mining machineries were available in the ML area during the time of inspection.

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)	04-APR-22			
MCDR17	Rule 14(3)	04-APR-22			
MCDR17	Rule 27(1)	04-APR-22			

Date :

(KRISHNENDU CHATTERJEE)

Indian Bureau of Mines