INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

Review and updation of Mining Plan REPORT

Goa regional office

Mine file No : GOA/FEMN/89 **Mine code : 40GOA02023**

(i) Name of the Inspecting Officer and ID No. : **K02) KALMATA M.K.**

(ii) Designation : Senior Mining Geologist

(iii) Accompaning mine Official with Designation : Shri Sandeep Kumbhar, QP & Shri Manish Agnihotri Min

(iv) Date of Inspection : 24-OCT-17

(v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **VANGI BINDI ADVONA**

(b) Registration NO. :

(c) Category : A Fully Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : GOA
District : SOUTH GOA
Village : SULCORNEM
Taluka : QUENEM
Post office : PIRLA
Pin Code :
FAX No. : 0832-2424477
E-mail : mkopl@minescapegoa.com
Phone : 0832-2435005

(f) Police Station :

(g) First opening date : 23-FEB-51

(h) Weekly day of rest : SUN

2. Address for correspondance : VILL.: SULCORNA,
TQ.: QUEPEM,
DIST.: SOUTH GOA, GOA.

3. (a) Lease Number : GOA0260
(b) Lease area : 83.06
(c) Period of lease :
(d) Date of Expiry : 22-OCT-87

4. Mineral worked : MANGANESE ORE Main
IRON ORE Associated

5. Name and Address of the

Lessee	:	HYDER KASIM KHAN MINE OWNER, CURCHOREM, GOA SOUTH GOA GOA Phone: FAX :
Owner	:	HAIDAR KASSIM KHAN MINE OWNER, CURCHOREM - GOA (4030706) SOUTH GOA GOA Phone: OFF. 2650657 R FAX :

Mining Engineer

Name	:	Shri Manish Agnihotri,Full Time
Qualification	:	B.E.Mining
Appointment/ Termination date	:	16-SEP-15

Geologist

Name	:	Shri Sandeep Kumbhar,Full Time
Qualification	:	Msc Geology
Appointment/ Termination date	:	16-SEP-15

Manager

Name	:	MANISH AGNIHOTRI
Qualification	:	BE MINING AND 1ST CLASS MM CERTI.
Appointment/ Termination date	:	01-DEC-08

6. Date of approval of Mining Plan/Scheme of Mining :

Renewal under rule 22 MCR1960	14-SEP-88
Mining Scheme rule 12 MCDR1988	09-SEP-97
Mining Scheme rule 12 MCDR1988	05-NOV-04
Renewal under rule 24 MCR1960	10-OCT-07
Modif.of approved Mining Plan	24-AUG-12
MP modif under 17(3) MCR 2016	13-FEB-17

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	42 boreholes were proposed in the year 2016-17	Exploration was not carried out as per the proposal.	Violation is pointed out for the same.
1b	Exploration over lease area for geological axis 1 or 2	18 ha in the tear 2016-17	Nil	Violation is pointed out for the same.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Exploration not carried out.	Violation is pointed out for the same.
1d	Balance area to be explored to bring Geological axis in 1 or 2	18.00ha in the year 2016-17	Nil	Violation is pointed out for the same.
1e	Balance reserve as on 01/04/20		In '000' tons Reserves- 1920 Resources- 3628	
1f	General remarks of inspecting officers on geology, exploration etc		Entire mineralized area was proposed to explore under G-1 level in the plan period. However no exploration was carried out and violation is issued for the same.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Development was proposed B/w co-ordinates N1670280 to N-1670450 and E-411470 to E-411670, N-1669610 to N-1669780 and E-411230 to E-411420 and N-1669640 to N-1669970 and E-410720 to 410930.	The development was not carried out as per the proposal.	Violation is pointed out for the same.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1:2.76	1:1.73	
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	345000	216088	The development was not carried out as per the proposal and violation is pointed out for the same.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Due to non availability of tree felling permission the development was not carried out as per the proposal and violation is pointed out for the same.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	03	02	
3b	Quantity of ROM mineral production proposed	250000 tons(2016-17)	250000 tons	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	49000 in the year 2016-17	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	Mechanical	Mechanical	
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	Heavy duty ripper dozers are deployed for breaking hard strata.
3k	Provision of mining machineries in mineral benches	Yes	Mine was not working and no machineries were observed.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	yes	
3m	Total area covered under excavation/pits		18.00 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:2.76	1:1.73	
3o	Total area put in use under different heads at the end of year		Area under mining-18.00 ha, Area under dumping-4.84 ha, Infrastructure-2.3696ha	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 113000 tons 2016-17 250000 tons 2015-16 250000 tons 2014-15 Nil 2013-14 Nil	2017-18 35575tons (Up to sep 2017) 2016-17 250000 tons 2015-16 242000 tons 2014-15 Nil 2013-14 Nil	

3q	General remarks of inspecting officers on method of mining etc.	The working has been not carried out as per the proposal and violation is pointed out for the same.

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	
4b	Location of topsoil, OB and mineral reject dumps	OB dump was proposed between the co-ordinates N-1669500 to N1669650 and E-410920 to E-411100.	Waste dumping was made as per the proposal.	
4c	Number of dumps within lease area and outside of lease area	One within the lease area.	One with in the lease area.	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL	Within UPL	
4e	Number of active and alive dumps.	One	One	
4f	Number of dead dumps.	Nil	Total 13 inactive dumps are there with in the lease area.	
4g	Number of dumps established.	One	One	
4h	Whether Retaining wall or garland drain all along dumps are there.	Nil	Nil	
4i	Length of Retaining wall or garland drain all along dumps	Nil	Nil	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management		The waste dump was made as per the proposal for the year 2016-17.	

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 portion of the pit is yet de-mineralized in the present plan period and no backfilling is proposed.	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.		No backfilling is proposed and carried out in the present plan period.	

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.	Report on PMCP was not submitted for the year 2016-17.	violation was pointed out for the same.
6b	Area available for rehabilitation (ha) .	Nil	Nil	
6c	afforestation done (ha).	1.00ha	1.2ha	
6d	No. of saplings planted during the year	2500	3000	
6e	Cumulative no .of plants		5000	

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)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.		Lessee was not submitted annual report on PMCP for the year 2016-17 and violation is pointed out for the same.	

Mineral Conservation:

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

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	NA	NA
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes	OB dumped as per the proposal.
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)		5000 plants were planted in the plan period.
8g	Survival rate		70- 75%
8h	Water sprinkling on roads to control airborne dust		Lessee is using water tanker fto control airborne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Benches were systematically developed and plantation is made in and around the lease area.

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. Manish agnihotri and Geologist shri Sandeep kumbhar.	Information on Mining engineer and Geologist is correct.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under mining-15.93Ha, waste dum-4.84 ha and infrastructure -2.36ha.	Almost matching.
9d	Scrutiny of Annual return on afforestation	3000	almost 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 35034 tons of 55 to 58 fe grade lumpy ore and 197029 tons of 55 to 55 grade fines was shown as closing stock in the year 2016-17.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	No sale value was shown and cost of production was shown as Rs-854.54/ton. and exmine price as Rs-1439/ton for lumpy ore of 55 to 58% fe and Rs-1451/ton for fines of 55 to 58% fe.	
9h	Scrutiny of Annual return on fixed assets	Rs-570070	

9k	Scrutiny of Annual return on mining machineries	Mine was not working and no machineries were observed.

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
MCDR17	Rule 11(1)	02-NOV-17					
MCDR17	Rule 26(2)	02-NOV-17	31-JAN-18				

Date :

(**KALMATA M.K.**)

Indian Bureau of Mines