INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

MCDR inspection REPORT

Goa regional office

	Mine f	file No : Goa/Fe/70			Mine	code	:	30GOA0	01060
	(i)	Name of the Inspecting Officer and ID No.	:	SP01) SURESH PRASAD					
	(ii)	Designation	:	Deputy Controller Mines					
	(iii)	Accompaning mine Official with Designation	:						
	(iv)	Date of Inspection	:	09/08/2017					
	(v)	Prev.inspection date	:	18/06/2009					
		PAI	۲۲-	I : GENERAL INFORMATION					
1.	(a)	Mine Name	:	GAVAL SONSHI					
	(b)	Registration NO.	:						
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone	: : : :	A Mechanised Opencast GOA NORTH GOA PISSURLEM SATTARI PISSURLEM 403530 0832-2370681 ukerkar@sesagoa.com 0832-2370050					
	(f)	Police Station	:	SANQUELIM					
	(g)	First opening date	:	01/01/1965					
	(h)	Weekly day of rest	:	SUN					
2.		ess for espondance	:	At & Po- Pissurlem Tq-Sattari North Goa, Goa					
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	GOA0081 68.1 10 21/11/1997					
4.	Miner	al worked	:	IRON ORE Main					

5. Name a	and Address of tl	he	
	Lessee	:	COSME COSTA & SONS Altinho Mapusa-Goa NORTH GOA GOA Phone:0832-2262314 FAX :0832-2262314
	Owner	:	Carminho Da Coasta, M/s Cosme Costa & sons M/s Cosme Costa & Sons Altinho Mapusa, Goa NORTH GOA GOA Phone: FAX :
	Agent	:	U.S. TILVE Codli Mine of M/s Sesa Goa Ltd., P.O. KIRLAPALE, Via Curchorem, Codli, Goa. SOUTH GOA GOA Phone: 0832-2618274/79 FAX : 0832-2618280
	Mining Engineer		
	Name	:	GUNDEABOINA YADAGIRI,Full Time
	Qualification	:	B.E
	Appointment/ Termination date		01/12/2010
	Mining Engineer		
		:	SAUVICK MUZUMDER,Full Time
	Qualification	:	B.E. (MINING)
	Appointment/ Termination date		26/08/2000 19/09/2005
	Mining Engineer		
		:	Abdual Razak,Full Time
	Qualification		
	~ Appointment/ Termination date	:	-
	Manager		
		:	Ramdas Kawlekar
	Qualification	:	Dipl. in Mining & Mine Surveying
	Appointment/ Termination date	: e	01/04/2008
	Manager		
		:	ULHAS KERKAR
	Qualification	:	DIP MINING,FCMM
		: e	11/12/2007 01/04/2008
	Manager		
		:	Newton Fernandes
	Qualification	:	Diploma in mining& Survey, F.C.C.
	Appointment/ Termination date	: e	19/09/2005 11/12/2007

6.	Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	13/01/2003
	Plan/Scheme of Mining		Modif.approved Mining Scheme	25/01/2005
			Modif.approved Mining Scheme	02/09/2005
			Renewal under rule 24 MCR1960	08/01/2007
			Modif.of approved Mining Plan	15/09/2008
			Modif.of approved Mining Plan	22/04/2010
			MP modif under MCR 1960	27/07/2015
			MP modif under 17(3) MCR 2016	09/03/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	Nil	Nil	
1b	Exploration over lease area for geological axis 1 or 2	nil	nil	
lc	Exploration Agencies and Expenditure in lakh rupees during the year	nil	nil	No proposal
ld	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
le	Balance reserve as on 01/04/20		30.172 MT	
lf	General remarks of inspecting officers on geology, exploration etc			Satisfactory.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area		E-397840/398160 N-1716640/1717110	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes	available	Mineral-15 Overburden-15
2c	Stripping ratio or ore to OB ratio	1:0.32	1:2.71	
2d	Quantity of topsoil generation in m3	Nil	nil	No proposal for top soil handling
2e	Quantity of overburden generation in m3	1636364	1878673	

satisfactory

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	
3b	Quantity of ROM mineral production proposed	1.600MT	1.525 MT	
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	Blending with good quality ore.
3d	Quantity of mineral reject generation	100000T	89160T	
3e	Grade of mineral rejects generation and threshold value declared.	51.20 %Fe(Average grade given in mining plan)	49.98% Fe average	Threshhold value 45% Fe normal ore Selicious ore 35%Fe
3f	Quantity of sub grade mineral generation.	nil	nil	
3g	Grade of sub grade mineral generation			
3h	Manual / Mechanised method adopted for segregating from ROM	Stripping Method by HEMM	Stripping Method by HEMM	
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			Not proposed

3k	Provision of mining machineries in mineral benches		Excavator, Wheel Loaders, Ripper Dozer & Dumpers	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height:7m Bench width:7m	yes	
3m	Total area covered under excavation/pits	61.7430 Ha	61.7430 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.32	1:2.71	
30	Total area put in use under different heads at the end of year	Mining= 61.7430 Ha Tailing Pond= 0 Roads=0,waste Dump=0,Others= 0	Mining= 61.7430 Ha Tailing Pond=0 Roads=0,waste Dump=0,Others=0	
3р	Production of ROM mineral during the last five year period as applicable	2012-13=5.912 MT 2013-14=0 2014-15=0 2015- 16=1.348410 MT 2016-17=1.6 MT	2012-13=0.899430 MT 2013-14=0 2014-15=0 2015-16=0.200760 MT 2016-17=1.525737 MT	
3q	General remarks of inspecting officers on method of mining etc.			satisfactory. Advice to maintain the working benches with adjascent lease holders for better safety and stability.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	-	1 1	

4b	Location of topsoil, OB and mineral reject dumps	E- 398438/398844 N- 1716476/171684 2	E-398640/398920 N-1716460/1716678	
4c	Number of dumps within lease area and outside of lease area	l dumps within lease.	one	
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	nil	
4g	Number of dumps established.	one	one	
4h	Whether Retaining wall or garland drain all along dumps are there.		Garland drains are made on fresh dump	Garland drains are made on fresh dump
4i	Length of Retaining wall or garland drain all along dumps	nil	Garland Drain-300 m	Garland Drain-300 m
4j	Number of settling ponds	nil	nil	
4k	Specific comments of inspecting officer on waste dump management			Temprory backfilling proposed without exhausting the mineral within the pit.

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	No Proposals of backfilling in mined out area. Temprory backfilling without exhausting the minerals.
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 Proposals of backfilling in mined out area. Temprory backfilling without exhausting the minerals due to space constraints.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).		submitted	
бb	Area available for rehabilitation (ha) .	Nil	Nil	Mineral not exhausted from the pit.
бс	afforestation done (ha).	nil	nil	no proposal within the lease.
6d	No. of saplings planted during the year	nil	nil	
бе	Cumulative no .of plants		nil	Nil within the lease. entire lease area is under mineralized and used for mining.
6f	Any other method of rehabilitation	nil	nil	
бg	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
61	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
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	nil	nil

6p Compliance of environmental monitoring (core zone and buffer zone) 6q General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.

yes

Entire area is under mineralized zone and sorrounded by other mining leases and working with common mine boundary permissions.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade-wise sorting within lease area	Grade-wise sorting within lease area	by excavator
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	Excavator
7c	Different grade of mineral sorted out at mines.	Normal Ore=+54% Fe Mineral Reject=+45% to -54% Fe	Normal Ore=+54% Fe Mineral Reject=+45% to - 54% Fe	
7d	Any beneficiation process at mines	nil	nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			satisfactory

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
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
8£	Baseline information on existence of plantation and additional plantation done (Rule 41)		
8g	Survival rate	NA	NA

No proposal for top soil

Entire lease area are mineralized and sorrounded with mining leases and working with common boundary permissions.

8h Water sprinkling on roads to control airborne dust

yes

8i General remarks of inspecting officer on aesthetic beauty in and around mines area Entire lease area are under mineralized zone. Lease is sorrounded with other mining leases and working with common boundary permissions for achieving towards mineral conservation and minimal waste.

Compliance	of	Rule	45:
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Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns		submitted	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		Provided	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		provided	
9d	Scrutiny of Annual return on afforestation		nil	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)		provided	
9f	Scrutiny of Annual return on ROM stock and/or graded ore		provided	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost			

9h	Scrutiny of Annual return fixed assets	on
9k	Scrutiny of Annual return mining machineries	on

yes

provided

Details of violations observed during current inspection and compliance position of violation pointed out					
Violation observed			Show couse position		
Rule NO.	Issued on (Compliance o	n Rule N	D. Is	sued on Compliance on

Date :

(SURESH PRASAD)

Indian Bureau of Mines