

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/394/BNG

Mine code : 30KAR03136

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Shri Shivananda Reddy, Mines manager and Nishant Na
Official with
Designation
- (iv) Date of Inspection : 07/09/2018
- (v) Prev.inspection date : 29/06/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMGAD(ML 1715)**
- (b) **Registration NO.** : **IBM/372/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : DHARAMPUR
Taluka : SANDUR
Post office :
Pin Code :
FAX No. : 08395260907/366, 944839550
E-mail : vnk2543@gmail.com
Phone : 08395 - 260366
- (f) Police Station : Sandur
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : SRI.V.N.K.MENON,
correspondance NO.6, KHB COLONY,
SANDUR - 583 119.
3. (a) Lease Number : KAR0255
- (b) Lease area : 1.62
- (c) Period of lease : 10
- (d) Date of Expiry : 31/12/1991
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : V.N.K.MENON
 16,K.H.B.COLONY SANDUR
 BELLARY KARNATAKA
 Phone:
 FAX :

Owner : V.N.K.MENON
 CONTRACTOR, SANDUR,
 BELLARY, BELLARY KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : NISHANT BHANUDASAJI NATIYE,Full Time
 Qualification : B.E.MINING
 Appointment/ : 12/04/2018
 Termination date

Geologist

Name : VOLVOIKAR AMBRISH,Full Time
 Qualification :
 Appointment/ : 02/04/2018
 Termination date

Manager

Name : R SHIVANANDA REDDY
 Qualification :
 Appointment/ : 18/02/2010
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	28/02/1995
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	14/05/2013
		MS modif under MCR 1960	14/10/2014
		MP modif under 17(3) MCR 2016	08/11/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals.	Nil	Nil
1b	Exploration over lease area for geological axis 1 or 2	No proposals.	G1 stage.	Yes All in G1 stage.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposals	Nil	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposals	Nil	Nil
1e	Balance reserve as on 01/04/20	As per the previous approved document.	1900784 tones	as per the reported in the approved document.
1f	General remarks of inspecting officers on geology, exploration etc	No proposals under exploration.	whatever the lessee drilled in the past has been the same.	No changes.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1666200 TO N1666425. E662530 TO E662650	N1666200 TO N1666425. E662530 TO E662650	No changes.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Proposals.	Nil	No top soil generated since workings are within broken up area
2c	Stripping ratio or ore to OB ratio	1:0.08	1:0.16	same as above.
2d	Quantity of topsoil generation in m3	No proposals.	Nil	No top soil generated since workings are within broken up area

2e	Quantity of overburden generation in m3	941 m3 (2034 T)	943 m3 (2075 T)	no much difference.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed	Satisfactory	yes as per the proposals in the approved document.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	yes single pit.	same.
3b	Quantity of ROM mineral production proposed	100000 Tonnes	99996 Tonnes	Little difference./As per KSPCB consent permission 4 Tonnes reduced
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	no difference.
3d	Quantity of mineral reject generation	4570 Tonnes	14100 Tonnes	BHQ handled, slightly on higher side.
3e	Grade of mineral rejects generation and threshold value declared.	+35-45 Fe% BHQ	+35-45 Fe% BHQ	+35-45 Fe% BHQ
3f	Quantity of sub grade mineral generation.	No proposals.	Nil	Nil
3g	Grade of sub grade mineral generation	No proposals.	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	same no change.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals.	nil	nil

3j	Provision of drilling and blasting in mineral benches	Given proposals.	Drilling: Wagon drill machine. Explosive: Slurry explosive	same is followed.
3k	Provision of mining machineries in mineral benches	Yes given proposals.	Excavators, Dumpers ,Mobile Screening And Crushing Plants were used in the mine.	yes as mentioned.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height: 08 Mtrs. Bench width:11 Mtrs	Bench height: 08 Mtrs. Bench width: 11 Mtrs. suitable	no changes.
3m	Total area covered under excavation/pits	4.0 Ha	4.0 Ha	no changes.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.08	1:0.16	slight difference.
3o	Total area put in use under different heads at the end of year	7.4961 Ha	7.4961 Ha	No changes.
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 43000 2014-15: 130000 2015-16: 130000 2016-17: 130000 2017-18: 100000 (in tonnes)	2013-14: 43000 2014-15: 43000 2015-16: 43000 2016-17: 71000 2017-18: 99996 (in tonnes)	within the proposals.
3q	General remarks of inspecting officers on method of mining etc.	proposed for sytematic method.	Satisfactory in method of working.	yes systematic.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposals.	Nil	Nil/No top soil generated since workings are within broken up area

4b	Location of topsoil, OB and mineral reject dumps	Over Burden N 1666530 to N 1666590 E 662740 to E 662800. BHQ N 1666425 to N 1666520 E 662600 to E 662700	Over Burden N 1666530 to N 1666590 E 662740 to E 662800. BHQ N 1666425 to N 1666520 E 662600 to E 662700	same no changes.
4c	Number of dumps within lease area and outside of lease area	02	02	same, There is no dump outside the lease area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	On the north eastern side.	same on the NE.	No changes.
4e	Number of active and alive dumps.	01	01	no changes.
4f	Number of dead dumps.	01	01	same.
4g	Number of dumps established.	proposed	under progress.	The single dump is under progress for stabilization.
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposals.	presently nothing.	Constructed Retaining Wall & Garland Drain all along the dump in the earlier year & well maintained the same.
4i	Length of Retaining wall or garland drain all along dumps	No proposals.	RW1- 188 Mtrs RW2- 260 Mtrs GD1- 225 Mtrs. GD2- 160 Mtrs.	as above.
4j	Number of settling ponds	No proposals.	Constructed Settling Pond & in the earlier year & well maintained the same. 2 Nos. Dimensions: 1) 60M*6M*2.5M 2) 21M*12M*3M	as above.
4k	Specific comments of inspecting officer on waste dump management	no proposals	Whatever indicated above are being followed.	same as above to the satisfaction.

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 proposals.	no area is matured for such back filing	Not matured in any part of the area.
5b	Area under backfilling of mined out area	No proposals.	Nil	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals.	Nil	Nil
5d	Total area fully reclaimed and rehabilitated	No proposals.	Nil	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposals	Nil	Nil

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).	given in the proposals.	yes submitted	submitted for the year 2017-18.
6b	Area available for rehabilitation (ha) .	No proposals.	Nil	Nil
6c	afforestation done (ha).	No proposals.	Nil	Nil
6d	No. of saplings planted during the year	No proposals.	Nil	Nil
6e	Cumulative no .of plants	No proposals.	Nil	Nil
6f	Any other method of rehabilitation	No proposals.	Nil	Nil
6g	Cost incurred on watch and care during the year	No proposals	Nil	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals	Nil	Nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposals	Nil	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals	Nil	Nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	No proposals	Nil	Nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No proposals	Nil	Nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	+45 Fe%	60-62 Fe% - 4000 T 62-65 Fe% 95996 T	As above
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	No change.
7c	Different grade of mineral sorted out at mines.	60-62 Fe% 62-65 Fe%	60-62 Fe% 62-65 Fe%	no change.
7d	Any beneficiation process at mines	Proposed.	60-62 Fe% 62-65 Fe%	60-62 Fe% 62-65 Fe%
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Proposed.	Yes it is satisfactory, as the quantity allotted to the smal lease area is small.	Difficulty in advancing the sides, due to common boundaries.

Environment:

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

8b	Concurrent use or storage of topsoil	No proposals.	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Over Burden N 1666530 to N 1666590 E 662740 to E 662800 BHQ N 1666425 to N 1666520 E 662600 to E 662700	Over Burden N 1666530 to N 1666590 E 662740 to E 662800 BHQ N 1666425 to N 1666520 E 662600 to E 662700	as above.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals.	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals.	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	100 No.	125 No.	asa bove.
8g	Survival rate	GIVEN	85%	Satisfactory.
8h	Water sprinkling on roads to control airborne dust	given proposals	yes water sprinkling is being followed.	yes done.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	given	done all the proposals accordingly.	yes satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly Return Submitted up to July-2018 Annual Return Submitted up to 2017-18.	submitted as per the format.	satisfactory.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given	R. Shivananda Reddy- Manager, Mining Engineer-Vinod Kumar Deshmukh, Geologist-nil.	All are working at the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the format, all the area falls in forest.	covered under current working=4 ha, waste disposal=1.477 ha, plant & building=0.559 ha, & others-plantation & safety zone=4.264 ha.	All the areas are appropriate.
9d	Scrutiny of Annual return on afforestation	given in the return.	During the year 80 nos. within the lease, & 45 nos. in outside the lease area.with survival rate from 90 & 80% respectively	satisfactory.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	given in the returns	14100 tonnes of 35-40%Fe.	What is reported is of BHJ/ BHQ in nature.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the returns.	production=99996 tonnes for the year 2017-18. opening & closing stock is nil. stock of lumps & fines are 61783.59 tonnes. -55 to +65%Fe. 11996.58 tonnes. 62-65%Fe.	same as above.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given in the returns.	Ex-mine price is Rs. 200/t, Rs. 3023/t 3083/t for 60-62 & 62-65 respectively. fines 62--65%Fe. Rs. 6778/t. Cost of production is Rs. 667/t. Sale price is Rs. 2309.2300/t for 62-65%Fe. Rs. 2660/t. of 62-<65. Rs. 3080/t= 60-<65%Fe. respectively. fines = Rs. 2600/t.	All given in the returns are found to be appropriate.

9h	Scrutiny of Annual return on fixed assets	given in the returns.	Rs. 6042766. for the value of the fixed assests.	Nil
9k	Scrutiny of Annual return on mining machineries	Given in the returns.	all the machines are being used in the mines sfor the their operations.	yes all the machines are being used.

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 :

(C.PARAMESHWARAN)

Indian Bureau of Mines