

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

MCDR inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/416/BNG

Mine code : 30KAR03125

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : A.Sreekantha Reddy, Mines Manager,
Official with
Designation
- (iv) Date of Inspection : 19/06/2018
- (v) Prev.inspection date : 07/12/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NEB RANGE(ML 2150)54.63**
- (b) **Registration NO.** : **IBM/13651/2012**
- (c) Category : A Manual
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : NEB RANGE
Taluka : SANDUR
Post office :
Pin Code :
FAX No. : 08392-271156 (F)
E-mail : hrgtiom@gmail.com
Phone : 08392-279946, 8453630795, !
- (f) Police Station : SANDUR
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : SRI.H.G.RANGAN GOUD,
correspondance 15/142, NEHARU CO-OPERATIVE COLONY
HOSPET, BELLARY - 583201
3. (a) Lease Number : KAR0336
- (b) Lease area : 54.64
- (c) Period of lease : 20
- (d) Date of Expiry : 04/08/2022
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : H.G.RANGAN GOUD
 #15/142, NEHRU CO-OP
 COLONY, HOSPET, BELLARY
 KARNATAKA
 Phone:08394-429647,428505
 FAX :

Owner : H.G.RANGAN GOUD
 #15/85, NEHRU CO-OP COLONY,
 HOSPET, BELLARY KARNATAKA
 Phone: 08394-54455,585
 FAX :

Manager

Name : A.SHRIKANT REDDY
 Qualification : DIP.IN MINING ENGIN
 Appointment/ : 09/05/2011 31/07/2015
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	07/03/1990
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	16/01/2003
		Modif.of approved Mining Plan	16/03/2006
		Mining Scheme rule 12 MCDR1988	12/11/2008
		Mining Scheme rule 12 MCDR1988	16/04/2014
		MP review under 17(1) MCR 2016	31/03/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Three trial pits proposed.	# Nos. TP undertaken in the mines.	yes undertaken, also some RC drill holes.
1b	Exploration over lease area for geological axis 1 or 2	proposed.	For the year 2018-19 it is under process to undertake.	under process.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	proposed	By lessee itself	yes lessee company itself undertaken.
1d	Balance area to be explored to bring Geological axis in 1 or 2	proposed.	Given through trial pits only.	Commitment is before 2021-22. Trial pit is not appropriate method.
1e	Balance reserve as on 01/04/20	given in the approved document.	1762272tonnes.	reported as 2.631MMT.
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Given in the approved document.	N-1675300-1675500 E-664900-665100 in between section line AA' to DD'	work is being carried out in the same location.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed for the same.	three benches in mineral.	yes as above.
2c	Stripping ratio or ore to OB ratio	given	1:0.48	1:0.49, slight difference.
2d	Quantity of topsoil generation in m3	No proposals.	nil	nil
2e	Quantity of overburden generation in m3	21249m3	21796m3	as above.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed	Proposals nt satisfactory.	violation issued.
----	---	----------	----------------------------	-------------------

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed	Operation in one pit only	yes in single pit only.
3b	Quantity of ROM mineral production proposed	114000t	114000t	same asa bove.
3c	Recovery of sailable/usable mineral from ROM production	90% proposed	Possibly to the extent.	yes as above.
3d	Quantity of mineral reject generation	nil	nil	nil
3e	Grade of mineral rejects generation and threshold value declared.	nil	nil	nil
3f	Quantity of sub grade mineral generation.	nil	nil	nil
3g	Grade of sub grade mineral generation	nil	nil	nil
3h	Manual / Mechanised method adopted for segregating from ROM	proposed for machine mining.	through machine mining.	yes.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation proposed	nil	nil
3j	Provision of drilling and blasting in mineral benches	proposed.	yes drilling & blasting is being carried out.	used in the respective benches.

3k	Provision of mining machineries in mineral benches	proposed.	yes used as per the approved document.	Satisfactory.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed.	working with suitable bench height & width	yes violation given for appropriate method.
3m	Total area covered under excavation/pits	4.6ha	4.54 ha.	within the limit.
3n	Ore to OB ratio for the pit/mine during the year.	1.0.48	1:0.49	satisfactory.
3o	Total area put in use under different heads at the end of year	proposed	Yes within the limit.	Yes work is within the lease area.
3p	Production of ROM mineral during the last five year period as applicable	2011-12=114000t to 2017-18=114000t	2012-13=nil 2013-14=nil 2014-15=nil 2015-16=nil 2016-17=29000t, 2017-18=114000t & 2018-19=28940t up to may, 2018	Given what is done in the mine.
3q	General remarks of inspecting officers on method of mining etc.	proposed.	satisfactory to to some extent.	Violation issued for rectification.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed only for OB	yes only OB is being carried out.	yes OB only.
4b	Location of topsoil, OB and mineral reject dumps	proposed in approved document.	OB location is N-1675300-1675500 & E-664900-665100.	Yes same location.
4c	Number of dumps within lease area and outside of lease area	One within the ML area.	yes one only	one only.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	proposed away from the UPL.	yes dumps are outside the UPL.	yes away from the UPL.
4e	Number of active and alive dumps.	One active dump only	No inactive dump.	yes one active only.
4f	Number of dead dumps.	nil	nil	nil
4g	Number of dumps established.	nil	nil	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	yes provided	provided all along the waste dumps on the slope side.	given below the waste dumps.
4i	Length of Retaining wall or garland drain all along dumps	195m retaining wall & 196m of garland drain.	170m of RW & GD	yes as above.
4j	Number of settling ponds	two nos.	two nos. present below the waste dumps.	Two present in the Near by ML area.
4k	Specific comments of inspecting officer on waste dump management	proposed.	The location of waste dump is in very steep slope area and it is very difficult task to maintain.	Mainintaing with all difficlutly.

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.	nil	nil
5b	Area under backfilling of mined out area	Nil	nil	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	nil	nil	nil
5d	Total area fully reclaimed and rehabilitated	nil	nil	nil, since no area is matured for back filling.

5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposals.	Since no area is matured for back filling in the M1 area.	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).	Submitted	submitted on 26/7/2017	yes submitted.
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 proposls.	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)	proposals given	it is being carried out in the ML area on seasonal basis.	it is being followed.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	As such no proposals present in the present submission.	hence no comments.	No comments to offer.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed.	it is being followed to sort out within the lease area.	as above.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical means.	yes it is mechanical.	Followed it as per the proposals.
7c	Different grade of mineral sorted out at mines.	propsoed.	yes lump & fines as calibrated ore from 10-40 and 40 & above for +55%Fe.	It is being followed as per the demand from the customers.
7d	Any beneficiation process at mines	No proposals	Only dry crushing process.	No wet process proposed in the mine.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	proposed for systematic operation	it is followed, still need to update and modify the proposals of development.	yes it is need to amend the proposals for better future mining operation. Though there is lot of problems in the mine.

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 proposls.	nil	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for waste dumps only.	yes only dump thing has been maintained.	yes it is done for waste dump.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	no proposals as such	nil	nil

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	the area exhibits the presence of natural growth of bushes and shrubs.	yes area falls under forest, shows the presence of trees.
8g	Survival rate	propsoed.	65-70%	yes around 50-60%
8h	Water sprinkling on roads to control airborne dust	propsoed.	yes water proinkling followed	followed in the mine area.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	propsoed.	yes the mining operation is in small scale and the aesthetic beauty is followed.	satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted MR & AR for the year 2016-17 & may 2018.	Furnished infromation as per the format in the returns of MR & AR.	Satisfactory.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Not furnished on the dtails of the ME & geologist	That time the mine was not in operation.	During the inspection, S/Shri. Sreekant Reddy Mining engineer & Geologist santhosh reddy.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current working=4.36 ha, waste disposal=0.63 ha, plant building, etc.=0.39 ha, green belt=1.86 ha.	reported land use pattern are as exist in the ML area.	satisfactory.
9d	Scrutiny of Annual return on afforestation	3191 nos within the ML area.	as present in the ML area.	no comments.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	54622 t	56018t	nil

9f	Scrutiny of Annual return on ROM stock and/or graded ore	opening stock nil, production is 29000t & closing stock is 15000t, with +45%Fe.	as reported is found to be ok.	satisfaction.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	sale value is Rs. =, ex-mine price is =, Rs. 976/t for <55%Fe, lump, for fines Rs. 828/t. Cost of production is rs. 394/t of ore. local despatch not taken place.	sale price not available due to non availability of despatch.	Not reported domestic sale.
9h	Scrutiny of Annual return on fixed assets	value of the fixed asset is 1469575/-	reported value is found to be ok.	satisfactory.
9k	Scrutiny of Annual return on mining machineries	Details furnished in the returns as per the proposals drawn in the approved document.	yes given accordingly and used in the mines.	used during the site inspections.

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)	18/07/2018			

Date :

(C.PARAMESHWARAN)

Indian Bureau of Mines