

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

Mining Plan Modification REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/79/BNG

Mine code : 30KAR03012

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri.Laxmikanth, Manager Mining, Shri.Ekambrappa.B, Min
Official with
Designation
- (iv) Date of Inspection : 18/01/2018
- (v) Prev.inspection date : 09/06/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **S.V.CHETTY'S**
- (b) **Registration NO.** : **IBM/293/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : JAISINGPUR
Taluka : SANDUR
Post office : SUSHILNAGAR
Pin Code :
FAX No. : 08394 - 230439
E-mail : svciom@gmail.com,
Phone : 08394230439, 9742779999, 98
- (f) Police Station : SANDUR
- (g) First opening date : 28/05/1979
- (h) Weekly day of rest : SUN
2. Address for : S.V.SRINIVASULU ,OLD INCOME TAX OFFICE BUILDING,
correspondance : NEAR SAHAKARI KALYANA MANATAPA, N.C.COLONY HOSPE
BELLARY-583201
3. (a) Lease Number : KAR0226
- (b) Lease area : 60
- (c) Period of lease : 20
- (d) Date of Expiry : 27/05/2019
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : S.V.SRINIVASULU
 MINE OWNER M.J.NAGAR HOSPET
 BELLARY KARNATAKA
 Phone:
 FAX :

Owner : S.V.SRINIVASULU
 M.J. ROAD, HOSPET, BELLARY.
 BELLARY KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : EKAMBRAPPA B,Full Time
 Qualification : B E MINING
 Appointment/ : 18/01/2012
 Termination date

Manager

Name : LAXMIKANTH
 Qualification : FCC
 Appointment/ : 16/06/2016
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	09/08/1994
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	08/07/2005
		Modif.of approved Mining Plan	22/09/2008
		Mining Scheme rule 12 MCDR1988	29/07/2010
		Modif.approved Mining Scheme	03/01/2014
		Mining Scheme rule 12 MCDR1988	30/04/2015
		MP modif under MCR 1960	22/06/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 DTH Boreholes	8 No. of DTH Holes	Two difference in the bore holes.
1b	Exploration over lease area for geological axis 1 or 2	G1=2.945 MMT G2=0 G1=2.945 MMT G2=0	G2=0 G1=2.945 MMT	Same no change.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not given, private company only.	Posibily private companies. 0.69 Lakhs amount spent.	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	2.710 MMT	2.710 MMT	No changes.
1f	General remarks of inspecting officers on geology, exploration etc	Proposal drawn for to complete the ML area.	Done the proposal to the satisfaction.	satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	North Eastern portion in A1 block	North Eastern portion in A1 block	same places.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	proposed for Mineral float area.	3 benches in mineral Since it is a float ore deposit ,no separate benches in top soil &OB	Dobe as per the proposals.
2c	Stripping ratio or ore to OB ratio	1:0.22	1:0.30	Slight difference.
2d	Quantity of topsoil generation in m3	No proposals for top soil.	No generation of top soil. No top soil is generated as no new areas are proposed for mining.	Nil
2e	Quantity of overburden generation in m3	22200t	13911 (upto Dec 2017)	Less quantity against the proposals.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	proposed for systematic work.	Almost systematic.	The topography of the area generally valley type.
----	-----------------------------------------------------------------------------------------	-------------------------------	--------------------	---------------------------------------------------

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit only.	One pit.	Same no changes.
3b	Quantity of ROM mineral production proposed	100,000 tonnes	54,286 tonnes (upto Dec 2017)	Less than the proposed quantity.
3c	Recovery of sailable/usable mineral from ROM production	75%	73%	The recovery mentioned is w.r.to volumetric
3d	Quantity of mineral reject generation	No proposals.	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	Mechanical & manual.	Both mechanical & Manual means.	Mainly mechanized.
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	No proposals.	Nil	Directly extracting through machines due to float & soft nature.

3k	Provision of mining machineries in mineral benches	Given	Excavator is given for removing the ore/ ROM and put separately for sorting/ sizing through screens.	Yes directly fed in the	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Given for appropriate means.	Yes appropriate.	Yes no changes.	
3m	Total area covered under excavation/pits	Given.	1.4 ha	as reported.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.22	1:0.30	Same not much difference.	
3o	Total area put in use under different heads at the end of year	41.02 Ha	41.02 Ha	Same as on date.	
3p	Production of ROM mineral during the last five year period as applicable	2013-14 45007 16074 2014-15 79884 28530 2015-16 80000 19000 2016-17 99960 22200 2017-18 99918 22175	2013-14=----- ----- 2014-15= ----- ----- 2015-16= 80000 2016-17=90000 2017-18= 54286 54286 13911	-- -- 19000 22940 13911	No production during 2013-14 to 2014-15.
3q	General remarks of inspecting officers on method of mining etc.	Given	Satisfactory	Due to soft & friable floats, exploitation are fine.	

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposals.	Nil	Nil

4b	Location of topsoil, OB and mineral reject dumps	Given for back filling.	Waste generated is used for concurrent backfilling	Hence no separate proposals.
4c	Number of dumps within lease area and outside of lease area	Given in approved document.	WL - 01 OL - 01	same within & outside the ML area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Given outside the UPL.	Yes outside the UPL.	Yes found outside the UPL.
4e	Number of active and alive dumps.	Nil	Nil	Nil
4f	Number of dead dumps.	Two nos.	Two only.	yes two only.
4g	Number of dumps established.	two only.	Two.	Two only.
4h	Whether Retaining wall or garland drain all along dumps are there.	Given	Provided all along.	yes.
4i	Length of Retaining wall or garland drain all along dumps	Retaining wall=235m inside lease & 244m outside lease. Garland drain=235m within & 339m outside	Retaining wall=235m inside lease & 244m outside lease. Garland drain=235m within & 339m outside	As above
4j	Number of settling ponds	WL - 01 OL - 01	WL - 01 OL - 01	Same no chnages.
4k	Specific comments of inspecting officer on waste dump management	Given for back filling provisions.	Due to that the lessee undertakes concurrent back filling inthe designated locations.	

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.	Given	After complete extraction of mineral, backfilling is carried out.	Yes BK is in progress after the extraction of ore from the workings.

5b	Area under backfilling of mined out area	0.55Ha	0.40 Ha	Under progress.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Given	Yes it is being carried out in the mine.	No top soil is generated as no new areas are proposed for mining.
5d	Total area fully reclaimed and rehabilitated	12.79Ha within lease 8.54Ha outside lease	12.79Ha within lease 8.54Ha outside lease	no changes.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Given partly for small area.	Yes it is being carried out in the ML area for small extent.	Yes it is being done.

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 26th July	Yes.
6b	Area available for rehabilitation (ha) .	2.23ha	2.23ha	yes same.
6c	afforestation done (ha).	0.56ha	0.60 ha	yes.
6d	No. of saplings planted during the year	1400 nos.	3000 nos.	more than the proposals.
6e	Cumulative no .of plants	124400 nos.	127000 nos.	more than the proposals.
6f	Any other method of rehabilitation	No proposals.	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs600000.00	Rs650000.00	more than the proposals.

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.55 ha	0.40 ha	Up to Dec, 2017.
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	Given proposals.	Gap plantations done.	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.25 ha	0.25 ha.	same.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	0.65 ha	0.65 ha.	same.

6p	Compliance of environmental monitoring (core zone and buffer zone)	Given proposls.	Plantations.	Same.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Given	Except partial back filling no other work.	To the proposals the lessee undertaken the work.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Given for dispatch within the lease.	Yes done as per the proposals.	yes.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical.	Same.
7c	Different grade of mineral sorted out at mines.	0to55%fe 55to58%fe 58to60%fe 60to62%fe 62to65%fe	0to55%fe 55to58%fe 58to60%fe 60to62%fe 62to65%fe	Yes done as reported.
7d	Any beneficiation process at mines	No proposals.	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Given proposals.	Yes conservation of minerals is satisfactory. Lessee tries to use +45% Fe even through blending.	satisfactory.

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)	Waste generated is disposed by means of concurrent back filling.	Waste generated is disposed by means of concurrent back filling.	Hence no separate dumps is proposed
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)	Concurrent back filling and afforestation	Partly undertaken	Yes under process.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Given	The lease area exhibits the presence of plantations and lessee also done some more gap plantations.	Yes lessee undertaken some plantations in addition to the existing in the lease area.
8g	Survival rate	Given 80%	60-70% nly	yes only less than what the lessee proposed.
8h	Water sprinkling on roads to control airborne dust	Carried out by using water tankers with sprat system	Lessee does water sprinkling in the mines.	yes observed during the mine inspections.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Lease area exhibits gentle to steep slopes.	Lessee working in a small scale with minimum degradation within the floats without drilling blasting.	Hence the lease area reveals the moderate aesthetic beauty.

Compliance of Rule 45:

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

9a	Status of submission of Monthly and Annual returns	Submitted	Yes submitted for December, 2017 & 2016-17 AR.	Submitted as per the format.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given as per the format	yes all the officers of mining, geology & manager were working on the day of inspection.	yes working at the site.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given as per the format.	abandoned by mining=19.94 ha, reclamation & reclamation=7.09 ha, waste dump=1.54 ha, plant & building=1.1 ha & Subgrade dump=10.82 ha.	Given details of datas are found to be appropriate.
9d	Scrutiny of Annual return on afforestation	Given	3000 nos., in within the lease area, with 85% of survival.	same.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No proposals.	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given as per the format	65616.86t of opening stock & 27000t of closing stock. Production for the year is 90000t. of +45%Fe. Besides, the dump working opening stock is 136996.216t & closing stock is 112047.43t respectively.	Reported figure is found to be correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given in the formt.	Ex-mine price of lumps is Rs. 2043/t of 58-60%Fe. Rs. 2083/t=60-62%Fe. Rs. 1697/t for 62-65%Fe. Fines = 58-60%fe= Rs. 973/t. Cost of prod=Rs. 1031/t, and the sale value lump is Rs. 1180/- for <55%Fe. , Rs. 2329/t for 58-60%Fe, Rs. 2239/t for 60-625Fe. Rs. 62-65%Fe is Rs. 1859/t. Fines = <55%Fe= Rs. 780/t.	Appropriate.

9h	Scrutiny of Annual return on fixed assets	Given in the format	Rs. 22812972/-, on mine, plant machineries, work shop, power & water installation. Depreciation fixed assets is rs. 2005240/-	As reported.
9k	Scrutiny of Annual return on mining machineries	Given as per the format of returns.	Details furnished in the returns as per the approved document.	Yes satisfactory, lessee uses in the mine as required.

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