

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

Mining Plan Modification REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/294/BNG

Mine code : 30KAR03045

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Shri. Pavan, Representative, M. Ramakrishnan, Mine
Official with
Designation
- (iv) Date of Inspection : 06/09/2017
- (v) Prev.inspection date : 29/10/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NARAYANAPURA**
- (b) **Registration NO.** : **IBM/6557/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : NARAYANAPURA
Taluka : SANDUR
Post office : DEOGIRI
Pin Code :
FAX No. : 08394-225786 (O), 944812548
E-mail : narayanmines1602@gmail.com
Phone : 08394-225786 (O), 944812548
- (f) Police Station : HOSPET
- (g) First opening date :
- (h) Weekly day of rest : SUN
2. Address for : NARAYAN MINES PVT LTD
correspondance NO.602,A/15,18TH CROSS,SADASHIVNAGAR,
BANGALORE-560080
3. (a) Lease Number : KAR0209
- (b) Lease area : 109.27
- (c) Period of lease : 20
- (d) Date of Expiry : 22/01/1997
4. Mineral worked : IRON ORE Main
MANGANESE ORE Associated

5. Name and Address of the

Lessee : NARAYAN MINES PVT LTD
4/269, PATEL NAGAR,
HOSPET, BELLARY KARNATAKA
Phone:28301
FAX :

Owner : NARAYAN MINES PVT LTD
BELLARY KARNATAKA
Phone: 28301
FAX :

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	05/02/1991
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	14/09/1998
		Renewal under rule 24 MCR1960	23/06/2006
		MP review under 17(1) MCR 2016	02/01/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Given in the approved document.	Lessee undertaken.	yes it is under progress.
1b	Exploration over lease area for geological axis 1 or 2	Given for 1000m	Drilled 700m during the year.	yes it is in progress.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Given for 50 lakhs.	Used rs. 34 lakhs	Under progress.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Given for 300m	Under progress for carrying out the same.	Under progress.
1e	Balance reserve as on 01/04/20	Given	12.57 MMT as on 1.4.2017.	as reported in the report.
1f	General remarks of inspecting officers on geology, exploration etc	given	Undertaken as proposed in the ML area.	Satisfactory work undertaken.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Given	Not undertaken due to late resumption of mining operations.	Yes.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Given proposals.	Benches developed separately.	The mining operation started late, now it is in the initial stage.
2c	Stripping ratio or ore to OB ratio	Given	1.0.25	same thing maintained.
2d	Quantity of topsoil generation in m3	No proposals.	Nil	Nil
2e	Quantity of overburden generation in m3	Given for 62480t	5600t	very less development.

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Given in the approved document.	Resumed mining operation on February 2017 , but the mining operation nt to the full extent.	Mining operation nt in complete.
----	---	---------------------------------	---	----------------------------------

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Given for single pit.	Yes in single pit	one pit only.
3b	Quantity of ROM mineral production proposed	Given 156000t	156000t	Complete production made,
3c	Recovery of sailable/usable mineral from ROM production	90% given	100%	yes complete.
3d	Quantity of mineral reject generation	No proposals.	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposals.	Nil	Nil
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	Mechanical	Mechanical	yes same.
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	Nil

3k	Provision of mining machineries in mineral benches	Given	Yes machineries are in use.	Used as applicable.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Given	Yes it is suitable.	yes it is sufficient.
3m	Total area covered under excavation/pits	Given 1.43 ha.	1.43 ha	same no change.
3n	Ore to OB ratio for the pit/mine during the year.	Given for 1:0.25	1.0:10	slight difference.
3o	Total area put in use under different heads at the end of year	given 68.049 ha	68.049 ha	same.
3p	Production of ROM mineral during the last five year period as applicable	2012-13=nil, 2013-14=nil, 2014-15=nil, 2015-16=nil, 2016-17=nil & 2016-17=156000t	2012-13=nil, 2013-14=nil, 2014-15=nil, 2015-16=nil, 2016-17=156000t	same as aabove.
3q	General remarks of inspecting officers on method of mining etc.	Given in the approved document.	As per the proposals in the document, work is going.	the work is going well.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Given in the document	As shown in the document.	nil
4b	Location of topsoil, OB and mineral reject dumps	Given in the document.	yes it is in south corner of the ML area.	Same.
4c	Number of dumps within lease area and outside of lease area	One side the ML area & Outside nil	One side the ML area & Outside nil	No change.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Given on the south corner of the M1 area.	Same location is followed.	No change.
4e	Number of active and alive dumps.	One dump active .	One single active only.	yes single.
4f	Number of dead dumps.	Given three dumps dead.	Three dead dumps.	Only three dumps.
4g	Number of dumps established.	Nil	Nil	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	provided.	Yes constructed.	yes constructed.
4i	Length of Retaining wall or garland drain all along dumps	Given for 2000m	2000m	yes constructed.
4j	Number of settling ponds	proposed for three settling tank	Three settling tank constructed.	yes constructed.
4k	Specific comments of inspecting officer on waste dump management	proposed for systematic working	Yes undertaken satisfactorily.	yes done.

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	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).	To be Submitted.	Submitted on time.	Yes submitted.
6b	Area available for rehabilitation (ha) .	10.50 ha	10.50 ha	same no change.
6c	afforestation done (ha).	Given	4.50 ha	done this within the ML area.
6e	Cumulative no .of plants	Given	20000 nos.	nil
6f	Any other method of rehabilitation	No proposals.	Nil	Nil
6g	Cost incurred on watch and care during the year	Given	1 lakhs	same.
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)Afforestati on on backfilled area	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)	Given	Done as per the seasons.	Done as per the proposals.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Given	for systematic PMCP work.	Yes.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Given proposals.	Sorting & sizing of ROM within the ML area.	Yes done as per the proposals.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Given for mechanical eans.	Yes as per the mechanical mens.	Yes followed the same.
7c	Different grade of mineral sorted out at mines.	proposed for different grades.	+45%Fe and above.	As reported.

7d	Any beneficiation process at mines	Given for dry process & no wet process.	Yes only dry process.	Same.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Proposals drawn for systematic operations.	Systematic operations are being carried out in the mine.	This is being followed in the mine.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8b	Concurrent use or storage of topsoil	No proposals.	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Given proposals.	As per the proposals things are being followed.	Yes followed.
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)	Proposals drawn for 20000 nos.	20000 nos done.	yes doen.
8g	Survival rate	Given	70%	70%
8h	Water sprinkling on roads to control airborne dust	yes given in the approved document.	yes it is being followed.	yes done.

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Given for sytematic and scientific mining.	yes the aesthetic beauty is maintained.	Well maintained.
----	--	--	---	------------------

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted on time.	yes submitted.	yes on time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given as per the formats	Yes given all officers and they are working in the mine.	yes observed during the inspections.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given as per the format.	current mining=40.23 ha, waste dump=2.7 ha, plant & building=8.6 ha, others purpose like green belt, mineral stock etc.,=55.94 ha	Given datas are found to be correct.
9d	Scrutiny of Annual return on afforestation	Given in the returns as per the format.	800 nos with 60% survival.	yes almost same.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given in the format.	opening stock is 100000t opening stock of workings, 626000t of production for the year 2017-18, nil closing stock. 1065000t of dump working opening & closing stock of subgrade +45%Fe and above.	Stocks old present in the mine.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given in the format	Ex-mine price is Rs. 2447/t, 2481/t, 2520/t for 58-60, 60-62 & 62-65%Fe grades lumps respectively. For fines = 1810/t, 2430/t, 2678/t & 2705/t for 58-60, 60-62, 62-65 & 65& above %Fe. Cost of production is rs. 1605/t. The sale value is Rs.2754/t, lumps of 60-62%fe, for fines= Rs. 2550/t, for 62-65%Fe Rs. 2659/-t.	reported information is appropriate.
9h	Scrutiny of Annual return on fixed assets	given in the format.	Rs. 6180742 for mines, machineries, plant beneficiation & water installation. Fixed assets is Rs. 1090291.	Given information is appropriate.
9k	Scrutiny of Annual return on mining machineries	Given in the returns as per the document.	Furnsied.	Yes machines are used as per the requirments.

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