

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

Mining Plan Modification REPORT

Bangalore regional office

Mine file No : KNT/CTD/FE/6/BNG

Mine code : 30KAR07001

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/ Shri. Manjunath, Mining Engineer/ Mohan M B, Geolo
Official with
Designation
- (iv) Date of Inspection : 18/10/2017
- (v) Prev.inspection date : 11/06/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **B.B.H. M.L.1074**
- (b) **Registration NO.** : **IBM/4247/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address
- State : KARNATAKA
- District : CHITRADURGA
- Village : B. B. HALLI
- Taluka : CHITRADURGA
- Post office : BHEEMASAMUDRA
- Pin Code : 577520
- FAX No. : 080-42459737 (F), 96112176
- E-mail : bbh@mel.co.in, minent@me
- Phone : 080-42459797 (O),081942070
- (f) Police Station : HOSADURGA
- (g) First opening date : 01/04/1972
- (h) Weekly day of rest : SUN
2. Address for : M/s Mineral Enterprises Ltd
correspondance : No.49, 3rd Floor, Khanija Bhavan
West Wing, Race Course Road,BANGALORE-560001
3. (a) Lease Number : KAR0283
- (b) Lease area : 103.81
- (c) Period of lease : 20
- (d) Date of Expiry : 06/10/2012
4. Mineral worked : MANGANESE ORE Associated
IRON ORE Main

5. Name and Address of the

Lessee : MINERAL ENTERPRISES (P)LTD
 # 300, 1/B, 16TH CROSS,
 SADASHIVNAGAR, BANGALORE
 KARNATAKA
 Phone:080-3612569, 3613182
 FAX :080-3612737

Owner : MINERAL ENTERPRISES (P)LTD
 # 300, 1/B, 16TH CROSS,
 SADASHIVNAGAR, BANGALORE
 KARNATAKA
 Phone: 080-3612589, 36
 FAX : 080-3612737

Agent : N.B.SANJAY
 CHITRADURGA KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : G.ASHOK KUMAR,Full Time
 Qualification :
 Appointment/ : 01/02/2006
 Termination date

Geologist

Name : N.S.THYAGARAJA,Part Time
 Qualification : MSc GEOLOGIST
 Appointment/ : 11/06/2004
 Termination date

Manager

Name : ASHOK KUMAR G.S.
 Qualification : 1ST CLASS MINES MANAGER CERTIFICATE OF C
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	20/11/1992
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	09/08/1999
	:	Modif.of approved Mining Plan	08/04/2003
	:	Mining Scheme rule 12 MCDR1988	08/03/2004
	:	Modif.approved Mining Scheme	20/10/2008
	:	Mining Scheme rule 12 MCDR1988	17/06/2009
	:	Modif.approved Mining Scheme	07/09/2012
	:	Renewal under rule 24 MCR1960	26/12/2012
	:	Modif.of approved Mining Plan	10/03/2016
	:	MP modif under 17(3) MCR 2016	03/11/2016

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	10 Test Pits 4 Bore Holes	nOT DONE.	IT WAS REPORTED IT WILL BE DONE IN JAN, 2018.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Private agency with Rs. 8Lakhs.	Not undertaken.	the proposals drawn to Jan, 2018.
1d	Balance area to be explored to bring Geological axis in 1 or 2	10 Test Pits 4 Bore Holes	Not done.	It will be in January, 2018.
1e	Balance reserve as on 01/04/20	56.56 MMT	56.56 MMT	as above.
1f	General remarks of inspecting officers on geology, exploration etc	Proposed	Yes the programme changed to do in January, 2018.	Accordingly things changed.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	pIT nO.1 & 3	Pit no-1 (Cross Section T-T' to U-U') Pit No-3 (Cross Section S-S' to U-U')	same as above.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposals.	Nil	Nil, only for waste dump.
2c	Stripping ratio or ore to OB ratio	1:0.31	1:0.31	as above
2d	Quantity of topsoil generation in m3	No proposals.	nil	nil
2e	Quantity of overburden generation in m3	Pit-1=25029 m3 Pit-3=33812 m3	not reported properly.	Nil, Still work is under progress

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed.	Yes it is being carried out in the mine.	Yes work is satisfactory.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit no.1 & Pit no.3	Pit no.1 & Pit no.3	Same no change.
3b	Quantity of ROM mineral production proposed	570000 Tonnes	274209.05 Tonnes Up to Sept-17	same as above.
3c	Recovery of sailable/usable mineral from ROM production	80%	80%	same as above.
3d	Quantity of mineral reject generation	No proposals.	Nil	nil
3e	Grade of mineral rejects generation and threshold value declared.	given for +45%Fe.	sam no change.	But in the subsequent submission, +355Fe ha sbeen prepared for approval.
3f	Quantity of sub grade mineral generation.	Pit 1-25214 T Pit 3-25242 T	nil	nil
3g	Grade of sub grade mineral generation	Fe 45% to 50%	Fe 45% to 50%	no change as indicated.
3h	Manual / Mechanised method adopted for segregating from ROM			
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 due to soft strata.

3k	Provision of mining machineries in mineral benches	given	used machines like rippers for breaking the strata before loading.	yes production undertaken without drilling & blasting.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6m only	same 6m is maintained.	yes it is maintained.
3m	Total area covered under excavation/pits	35.86 Ha	35.86 Ha	35.86 Ha
3n	Ore to OB ratio for the pit/mine during the year.			
3o	Total area put in use under different heads at the end of year	69.35 Ha	69.35 Ha	NO CHANGE.
3p	Production of ROM mineral during the last five year period as applicable	2012-13: 107121 2013-14: 378968 2014-15: 379966 2015-16: 379985 2016-17: 570000 (in tonnes)	2012-13: NIL 2013-14: NIL 2014-15: NIL 2015-16: NIL 2016-17: 94985.6 (in tonnes)	dUE TO cec/ SUPREME COURT ORDER MINE WAS STOPPED.
3q	General remarks of inspecting officers on method of mining etc.	PROPOSED FOR SYSTEMATIC WORKING.	YES workings in the mine well maintained bench workings.	yes well done.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed for dumping OB, Topsoil & Mineral Reject	Followed accordingly.	Yes done.

4b	Location of topsoil, OB and mineral reject dumps	UTM Readings: E-632508 N- 1571751 to E- 632389 N- 1571773, E-632248 N- 1571485 to E- 632399 N-1571443	No changes.	Yes done as it is.
4c	Number of dumps within lease area and outside of lease area	1 No dump is Proposed within Lease Area in Pit no-2	No deviation	yes no changes.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal of dumps within Ultimate Pit Limit	Yes away from the UPL.	yes outside the UPL.
4e	Number of active and alive dumps.	One no.	One only	single only.
4f	Number of dead dumps.	D1, D2 & D3	D1, D2 & D3	same no change.
4g	Number of dumps established.	D1, D2 & D3	D1, D2 & D3	no changes.
4h	Whether Retaining wall or garland drain all along dumps are there.	Given proposals.	Yes undertaken	yes done all along
4i	Length of Retaining wall or garland drain all along dumps	Given in the approved document.	Retaining Wall-1677 mts& Garland Drains- 1679	Done.
4j	Number of settling ponds	Given	Two Nos.	same.
4k	Specific comments of inspecting officer on waste dump management	Given for systematic waste dumping operations.	Doing as per the proposals.	Yes done as per the proposals.

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, since no area is matured for back filling in the worked out area.

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).	Yes submitted	Submitted on time.	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 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 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, since no area is matured for reclamation or rehabilitation in the worked out area or within the M1 area.
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
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	340000 T/A	Nil	NIL, permission was not obtained.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical means.	Mechanical means only.	Nil
7c	Different grade of mineral sorted out at mines.	Given	Nil	NIL
7d	Any beneficiation process at mines	Given	Nil	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Given	No work in the mine.	Not yet started.

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)	Given.	But due to non operational, no work done.	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals	No such work till now in the mine.	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)	Given.	The M1 area exhibits the presence of natural growth plantation/ also lessee undertaken some portion in the M1 safety zone.	19915 No's of sapling done in the mine.
8g	Survival rate	65-68%	65%	same as above.
8h	Water sprinkling on roads to control airborne dust	Given	Undertakes at time of working the mine.	Otherwise naturally through rain.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Given	naturally topography exhibits the presence of greenary and including the saplings undertaken by the lessee.	yes undertake.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Given as per the format.	Submitted the returns both the nil returns & the annual returns	yes 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 are working in the mine as reported.	Yes they are working.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given as per the format.	Yes given Already exploited & abandoned by OC working=8.23 ha, current working=32.59 ha, waste dumping=3.66 ha, plant & building=1.65 ha, Others minerals stack, green belt etc.,=49.80 ha work on PMCP=3.3 ha.	Reported datas areas are found to be exist in the mine.
9d	Scrutiny of Annual return on afforestation	Given	2644 nos with 70% survival	Yes appropriate.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Given	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	437.11t of opening stock, 95422.71t of closing stock, 94985t of production for the year 2016-17.	reported appropriately.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Ex-mine price of <555Fe=1480/t, sales price is Rs. 1350/t, cost of production not reported.	For the the year 2016-17, cost of production is not reported.
9h	Scrutiny of Annual return on fixed assets	Given in the format.	Rs. 87016123/- for the mine, beneficiation, work shop, power & water installation etc.	Given information are found to be appropriate.
9k	Scrutiny of Annual return on mining machineries	Given all the details of machineries.	Yes given machineries are used as & when required without drilling & blasting, due to soft strata.	Yes appropriate.

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