

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

Mining Plan Modification REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/125/BNG

Mine code : 30KAR03013

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Nikhil Steevanson T, Manager (Mines) and Sri Har
Official with
Designation
- (iv) Date of Inspection : 05/10/2017
- (v) Prev.inspection date : 25/05/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **ZEENATH M.L.2121**
- (b) **Registration NO.** : **IBM/1010/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BELLARY**
- Village : **RAMGAD**
- Taluka : **SANDUR**
- Post office : **SUSHILANAGAR**
- Pin Code : **583119**
- FAX No. : **08392-240462 (F)**
- E-mail : **ca.padmaraj@gmail.com,ztco:**
- Phone : **08392-240085 (O),984408500**
- (f) **Police Station** : **SANDUR**
- (g) **First opening date** : **05/10/1996**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **SRI.SYED AHMAD, MANAGING PARTNER**
correspondance **24, Zeenath House, COWL BAZAR, BELLARY,**
PIN - 583102
3. (a) **Lease Number** : **KAR0262**
- (b) **Lease area** : **36.42**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **03/06/2021**
4. **Mineral worked** : **IRON ORE** **Main**

5. Name and Address of the

Lessee : ZEENATH TRANSPORT COMPANY
 ZEENATH HOUSE, COWL BAZAAR,
 BELLARY, BELLARY KARNATAKA
 Phone:40462,40085
 FAX :

Owner : Syed Ahmed
 Zeenath Transport Company
 24, Zeenath House, Cowl
 Bazar Ballery BELLARY
 KARNATAKA
 Phone: 08392240085
 FAX : 08392240462

Agent : Syed Aslam
 Zeenath Transport Company
 Zeenath House, Cowl Bazar
 Bellary BELLARY KARNATAKA
 Phone: 08392240085
 FAX : 08392240462

Mining Engineer

Name : SALEEM SYED, Full Time
 Qualification : BE Mining
 Appointment/ : 24/07/2017
 Termination date

Geologist

Name : MOHAN KUMAR S, Full Time
 Qualification : MSc Geology
 Appointment/ : 16/11/2017
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	23/10/1989
Plan/Scheme of Mining	:	Renewal under rule 22 MCR1960	15/11/1996
	:	Mining Scheme rule 12 MCDR1988	27/11/2002
	:	Mining Scheme rule 12 MCDR1988	22/06/2006
	:	Modif.of approved Mining Plan	13/05/2016
	:	Modif.of approved Mining Plan	09/06/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	8 Core bore holes proposed in the year 2016-17	2 Core bore holes carried out in the year 2016-17 and 6 boreholes in the year 2017-18.	No short fall against the proposals.
1b	Exploration over lease area for geological axis 1 or 2	Proposed.	G1 -1.3ha G2- 6.00ha	The total mineralised area is 8.90 ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	proposed.	Through M/s MAPP Drilling & Exploration Pvt.Ltd. expenditure is Rs 48,20,027/-	The logging done by the geologists of the lessee.
1d	Balance area to be explored to bring Geological axis in 1 or 2	1.60 ha of G3 level	1.60 ha of G1 level	G1=8 ha. remaining in next proposals.
1e	Balance reserve as on 01/04/20	given	as on 30/9/2017, it is given as 5047024t	The balance reserves as on 1.4.2017: 173179 t(111) 3458971 t (122)
1f	General remarks of inspecting officers on geology, exploration etc	given in the document.	Lessee undertaken exploration to the satisfaction as per the proposals in the document.	The backlog of the exploration has been carried out in the year 2016-17 and 2017-18.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1674579-1674733 E 656254-656484 Southern side of the lease area.	N 1674579-1674733 E 656254-656484 Southern side of the lease area.	within the proposed area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	No top soil
2c	Stripping ratio or ore to OB ratio	1 : 1.10	1 : 0.16	The actual stripping ratio as on September, 2017

2d	Quantity of topsoil generation in m3	Nil	Nil	The entire workings are in the excavated area. There is no top soil.
2e	Quantity of overburden generation in m3	65894 cu.m	44940 cu.m	Within the proposed quantity.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Proposed for systematic working.	Yes it is being carried out in the mine.	The workings are being carried out as per the proposals.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	One pit of size is 630m x 250m x 78m respectively.
3b	Quantity of ROM mineral production proposed	1,80,000 tonnes	91355.64 tonnes	The production upto September, 2017.
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	satisfactory.
3d	Quantity of mineral reject generation	Nil	Nil	No mineral rejects generated.
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	Only +45%fe is being utilized.
3f	Quantity of sub grade mineral generation.	Nil	Nil	nil
3g	Grade of sub grade mineral generation	Nil	nil	There is no generation of sub grade from the mine.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	same as above.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Only dry crushing and screening.
3j	Provision of drilling and blasting in mineral benches	Yes	Yes	Drilling & blasting are practised in the mine for development & production purposes.
3k	Provision of mining machineries in mineral benches	Yes	Yes	used in the workings.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	6m -7.5m height & width of 8-10m.
3m	Total area covered under excavation/pits	20.97 ha	20.97 ha	As per the report in the document.
3n	Ore to OB ratio for the pit/mine during the year.	1: 1.10	1 : 0.16	The stripping ratio is up to September, 2017.
3o	Total area put in use under different heads at the end of year	46.48 ha	46.48 ha	Report furnished by the lessee.
3p	Production of ROM mineral during the last five year period as applicable	2013-14=Nil 2014-15=Nil 2015-16=120000t 2016-17=150000t 2017-18=180000t	2013-14=Nil 2014-15=Nil 2015-16=119500t 2016-17=149820t 2017-18=179700t	Lessee maintained the proposed production within the limit.
3q	General remarks of inspecting officers on method of mining etc.	proposed for systematic working.	maintained as per the proposals.	Yes well maintained in the mines.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed for OB benches.	Yes done within the ear marked area.	well within the proposed area.
4b	Location of topsoil, OB and mineral reject dumps	propsoed in AD-no.2	worked within the AD-2.	Yes as per the proposals.
4c	Number of dumps within lease area and outside of lease area	Propsoed seven nos.	Yes 07 nos.	Well within the limit.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside the ultimate pit limit	All the dumps are outside the UPL	yes all the dumps are outside the UPL.
4e	Number of active and alive dumps.	proposed for two dumps.	two only.	yes two nos.
4f	Number of dead dumps.	05 nos.	05 nos.	yes 05 only.
4g	Number of dumps established.	05 nos.	05 nos.	yes within the five.
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed for all along the dumps.	Yes provided all along the dumps.	yes provided.
4i	Length of Retaining wall or garland drain all along dumps	1160m propsoed.	1140m till date made.	yes as on date.
4j	Number of settling ponds	one only.	one only	yes single tank.
4k	Specific comments of inspecting officer on waste dump management	proposed for systematic work.	yes made systematic way.	yes systematically constructed.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	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	No pit is matured for such work.

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 proposed to submit.	Submitted.	satisfactory.
6b	Area available for rehabilitation (ha) .	proposed.	9.77 ha.	same as above.
6c	afforestation done (ha).	0.5 ha	0.5 ha	Same area.
6d	No. of saplings planted during the year	propsoed	500 nos.	as above.
6e	Cumulative no .of plants	3600 nos.	3660 nos.	yes done.
6f	Any other method of rehabilitation	No proposals.	Nil	Nil
6g	Cost incurred on watch and care during the year	Rs. 100000	More than the proposals.	yes as above.
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
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)	Proposed.	being carried out as per the proposals seasonally.	Yes this is being adopted.

6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	proposed.	Yes satisfactory.	As per the proposals in the document, the lessee underatekes.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	180000t	179700t both fines and the lumps.	Within the limits.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	mechanical	yes machanical means.
7c	Different grade of mineral sorted out at mines.	Proposed for various grades	-55, 55-58% Fe, 58-60%Fe, 60-62, 62-655Fe	As reported above in the document & in the returns.
7d	Any beneficiation process at mines	proposed for dry process	Yes only dry and no wet.	Yes only dry is being followed.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	propsoed for systematic mine working	lessee works the mine with all systems to the satisfaction	yes satisfactory.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No propsoals.	Nil	Nil
8b	Concurrent use or storage of topsoil	No propsoals.	nil	nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	proposed for OB only	Same thing is being carried out in the mine.	Yes OB is being developed and stored as proposed.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No propsoals.	No such work done.	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No propsoals.	only dumps were stabilized.	As per the proposals.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No propsoals.	ML area exhibits the availability of plantations.	Natural growth of forest & the additional saplings undertaken by the lessee.
8g	Survival rate	60-70%	60-70%	approximately.
8h	Water sprinkling on roads to control airborne dust	No propsoals.	yes it is followed in th ML area wherever applicable.	yes followed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	No propsoals.	As per the approved document, the work is being carried out.	satisfactory, aesthetic beauty is well maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Submitted Monthly & AR for the year 2016-17 on time.	Given as per the formats.	yes satisfactory.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Given all the names of mining engineer, geologist & the managers.	Yes all are working in the mine.	It was observed during the inspection that the technical officers were present.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	mining=20.97 ha, dump=14 ha, building & plant etc=3.68 ha, safety zone=4.93 ha & others in PMCP work=2.9 ha.	found as above is appropriate.	All the things are under the proposals.
9d	Scrutiny of Annual return on afforestation	No proposals.	560 nos.	almost 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	proposed	Opening & closing stock are 512t & production reported as 149820t.	satisfactory.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given as per the format	62-65%Fe & aboveFurnished satisfactory, the price varies between fines and the lumps. 62-65=Rs.2530/t, 65% Fe & above =lumps =Rs.2500/t. 60-62%Fe fines =rs. 1740/t, 62-65%Fe fines = Rs. 2850/t for 65% Fe above Rs. Rs. 1960/t. Cost of production/ t Rs. 768/t.	reported information and data are satisfactory.
9h	Scrutiny of Annual return on fixed assets	given	rs. 5192812.	Reported figure is found satisfactory.
9k	Scrutiny of Annual return on mining machineries	Furnished satisfactory	Yes all the machineries are used in the mines during the inspections.	yes all are used at the site.

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