

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

MCDR INSPECTION REPORT

Bangalore regional office

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

Mine code : 30KAR03013

- (i) Name of the Inspecting : **S011**) **K.SRINIVAS**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Shri Nikhil Steevanson T, Manager (Mines) and Sri Har
Official with
Designation
- (iv) Date of Inspection : 12/09/2017
- (v) Prev.inspection date : 28/10/2010

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 : COWL BAZAR, BELLARY,
PIN - 583102
3. (a) Lease Number : KAR0262
- (b) Lease area : 36.42
- (c) Period of lease : 20
- (d) Date of Expiry : 02/10/2020
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 : Venkatesh B., Full Time
 Qualification : B.E. (Mining), FCC
 Appointment/ : 01/01/2016
 Termination date

Manager

Name : NIKHIL STEEVANSON T
 Qualification : FCC
 Appointment/ : 01/01/2015
 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.	-
1b	Exploration over lease area for geological axis 1 or 2	-	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	-	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	-
1e	Balance reserve as on 01/04/20	-	-	The balance reserves as on 1.4.2017: 1731979 t(111) 3458971 t (122)
1f	General remarks of inspecting officers on geology, exploration etc	-	-	No backlog on exploration for the mineral.

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.	-
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	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	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	-
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%	-
3d	Quantity of mineral reject generation	Nil	Nil	No mineral rejects generated.
3e	Grade of mineral rejects generation and threshold value declared.	Nil	Nil	-
3f	Quantity of sub grade mineral generation.	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	-

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	-
3k	Provision of mining machineries in mineral benches	Yes	Yes	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	-
3m	Total area covered under excavation/pits	0.45ha	0.45ha	The area covered under the excavation during the year.
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	43.58 ha	43.58 ha	-
3p	Production of ROM mineral during the last five year period as applicable	2012-12: Nil 2013-14: Nil 2014-15: Nil 2015-16: 1,20,000 t 2016-17: 1,50,000t 2017-18 :1,80,000t	2012-12: Nil, 2013-14: Nil, 2014-15: Nil 2015-16: 1,19,500 t , 2016-17: 1,49,820 t 2017-18 : 91,355.64 t (upto September,2017)	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	There is no change in the method of mining. The operations are being carried out as proposed.

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)	Yes	Yes	-
4b	Location of topsoil, OB and mineral reject dumps	Western side of the lease area.	Western side of the lease area.	No top soil generated.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side the UPL	All the dumps are out side the UPL	
4e	Number of active and alive dumps.	02	02	
4f	Number of dead dumps.	05	05	
4g	Number of dumps established.	05	05	
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Yes	
4i	Length of Retaining wall or garland drain all along dumps	1015m	998m	No proposal for the year 2017-18
4j	Number of settling ponds	01	01	The waste dump management is being done as proposed.

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	-
5b	Area under backfilling of mined out area	No proposals	Nil	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals	Nil	-

5d	Total area fully reclaimed and rehabilitated	No proposals	Nil	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	There is no proposals for backfilling.

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 for the year 2016-17	
6b	Area available for rehabilitation (ha) .	No proposals	nil	-
6c	afforestation done (ha).	No proposals	nil	-
6d	No. of saplings planted during the year	No proposals	nil	-
6e	Cumulative no .of plants	Nil	NIL	-
6f	Any other method of rehabilitation	No proposals	nil	-
6g	Cost incurred on watch and care during the year	No proposals	nil	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals	nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals	nil	-

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	No proposals	nil	-
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals	nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposals	nil	-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	300 saplings	300 saplings	For the year 2016-17.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	nil	nil	-
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Not specified.	Nil	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	As per guidelines	Continuously monitoring is being done as per the schedule.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Work is carried out as proposed.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sizing and sorting	Sizing and sorting is being done.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	150TPH dry crushing and screening plant is being used.
7c	Different grade of mineral sorted out at mines.	0-55%Fe ,55-58% , 58-60% , 60-62% ,62-65% ,+65%	0-55%Fe 55-58% 58-60% 60-62% 62-65% +65%	-
7d	Any beneficiation process at mines	Nil	Nil	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	The low grade ore is being blended with high grade ore as per the buyer's requirement.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals	Nil	Working confined to excavated area / broken up area.
8b	Concurrent use or storage of topsoil	Nil	Nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes	-

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals	Nil	7.62 Ha of inactive dump (ID-1 to ID-5) is stabilized by afforestation with protective measures toe wall, Garland drains and silt settling tanks.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	no proposals	nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	300 saplings	300 saplings	-
8g	Survival rate	80%	70%	-
8h	Water sprinkling on roads to control airborne dust	yes	yes	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Benches are well maintained with proper slope & height & width clean, View point provided.

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Returns submitted upto August- 2017 Annual Returns submitted upto 2016-2017	-	-

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Sri Nikhil Steevanson T is a Mining Engineer. Sri Harish Ninganahalli is a Geologist.	-	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The area under waste disposal is 14.0ha The area covered under workings is 20.97 ha. The area under infrastructure is 4.93 ha. The area covered under PMCP is 2.9 ha.	-	-
9d	Scrutiny of Annual return on afforestation	No of saplings planted is 560 within the lease area. No of saplings planted is 107 outside the lease area.	-	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral rejects generated with grade is nil.	-	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock of open cast workings is 512.0 tonnes. Stock of dump workings is 27854.98 tonnes.	-	-

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value is Rs 2530 per tonne of 62% to below 65% Fe. Ex-mine price is Rs 2530 per tonne of 62% to below 65% Fe. Cost of production is Rs 768.52 per tonne.	-	-
9h	Scrutiny of Annual return on fixed assets	The fixed assets have been furnished.	-	-
9k	Scrutiny of Annual return on mining machineries	Wheel loaders -1 Bach hoe excavator -2 Tipper-6 Water tanker -1 Crusher - 1 Air compressure -1	-	-

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 19(1)	08/11/2017	11/01/2018				
MCDR17	Rule 31(4)	08/11/2017	11/01/2018				

Date :

(K.SRINIVAS)

Indian Bureau of Mines