

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

Check up inspection REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/455/BNG

Mine code : 30KAR03160

- (i) Name of the Inspecting : **M003**) **G C MEENA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : **SHRIKANT, MINES MANAGER**
Official with
Designation
- (iv) Date of Inspection : 20/01/2018
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMGAD ML 2547**
- (b) **Registration NO.** : **IBM/1010/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : RAMGHAD POST
Taluka : SANDUR
Post office : RAMGHAD
Pin Code :
FAX No. : 08392-240462 (F),
E-mail : ztco2000@yahoo.com
Phone : 08392-240085 (O),984408500
- (f) Police Station : SANDUR
- (g) First opening date : 01/01/2008
- (h) Weekly day of rest : SUN
2. Address for : M/S.ZEENATH TRANSPORT COMPANY,
correspondance : 24, ZEENATH HOUSE,COWL BAZAR,
BELLARY - 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
 BELLARY KARNATAKA
 Phone: 08392 - 260225
 FAX : 08392- 240462

Mining Engineer

Name : N.VENKATESH,Full Time
 Qualification : BE(MINING)
 Appointment/ : 15/03/2009
 Termination date

Geologist

Name : T.HAYAVADAN,Full Time
 Qualification :
 Appointment/ : 03/01/2014
 Termination date

Manager

Name : J.SHRIKANT
 Qualification : FCC
 Appointment/ : 11/05/2009
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	02/04/2008
		Modif.approved Mining Scheme	12/08/2010
		Mining Scheme rule 12 MCDR1988	06/12/2012
		MS modif under MCR 1960	21/08/2014
		Modif.of approved Mining Plan	09/06/2016
		MP review under 17(1) MCR 2016	08/11/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	10 Bore holes of 500m length proposed during the year 2016-17.	During the year 2017-18, 12 nos. drilled to the length of 426m.	It is reported that, total 55 nos., of BH drilled to the extent of 2459.30m.
1b	Exploration over lease area for geological axis 1 or 2	G1=6.55 ha, & G2=13.31 ha.	G1=7.47ha & G2=6.29ha.	Against 19.86 ha area, it is reported for 13.76ha only, short of 6.1ha.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	ZTC company only.	M/s MAPP drilling & exploration Pvt. Ltd. Amount spent is Rs. 13,72,558/-	Yes observed during the inspection.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Reported nil	reported also nil,	from G2 to G1, i.e. 6.29 Ha extent of the area need to be converted from G2.
1e	Balance reserve as on 01/04/20	under UNFC category 111=7.18 million tonnes, 122=2.14 million tonnes & total = 9.32 MT 221=5.09MT, 222=0.87MT & total = 5.97MT.	as on 31.12.2017= 111=6.6MT & 122=2.14MT & Total= 8.73MT 221=5.09MT, 222=0.87MT & Total = 5.97MT.	189519t of production made from 1.11.2016 to 31.3.2017, which is the depleted reserves from the main reserves.
1f	General remarks of inspecting officers on geology, exploration etc	Proposed as per the existing geology	The exploration is being carrying out as per the existing geology.	satisfactory work is being carried out.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	For the year 2017-18 is section K-K', K1-K1' & L-L'	For the year 2017-18 is same section K-K', K1-K1' & L-L' is being followed.	The work of development is being carried out in the same location.

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No top soil, but OB is present.	No top soil benches, but OB benches are being developed.	Yes as per the proposals it is being worked in the mine.
2c	Stripping ratio or ore to OB ratio	1:0.30.	1:0.08	At times it varies.
2d	Quantity of topsoil generation in m3	nil	nil	nil
2e	Quantity of overburden generation in m3	38043t/ 19021m3.	15808m3/ 31616t.	slight variation in the achieved quantity.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	.		

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	ONE	One pit only working.	yes one only.
3b	Quantity of ROM mineral production proposed	480000t	399415t	Yes done as per the proposals.
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	as per the proposals.
3d	Quantity of mineral reject generation	nil	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	Mechanized.	mechanized	yes mechanized.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	nil	nil	dry crushing & screening system only.
3j	Provision of drilling and blasting in mineral benches	yes	Drilling & blasting is being done at required place.	yes it is used.
3k	Provision of mining machineries in mineral benches	yes proposed.	yes required machines are being used in the mines as per the proposals.	used appropriately.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	H=7.5m, width=8m	As above is practiced in the mine.	As per the proposed height & bench width is being maintained.
3m	Total area covered under excavation/pits	14.40ha	14.40ha only.	As above.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.08	1:0.08 up to 31/12/2017.	As above
3o	Total area put in use under different heads at the end of year	Mining=14.40ha , dumping=5.90ha , subgrade=7.35h a, building etc.=2.65ha, green belt=3.55 ha.	Mining=14.40ha, dumping=5.90ha, subgrade=7.35ha, building etc.=2.65ha, green belt=3.55 ha. protective measures=1.607ha, tree felled area=14.273ha. Total=49.73 ha.	As above is in use.
3p	Production of ROM mineral during the last five year period as applicable	2012- 13=440000t, 2013- 14=440000t, 2014- 15=440000t, 2015- 16=440000t, 2016- 17=460000t, & 2017- 18=480000t. total= 2700000t	2012-13=0t, 2013- 14=439510t, 2014- 15=439500t, 2015- 16=439500t, 2016- 17=459700t, & 2017- 18=399416t. total==2177626t	The reported figures as above.

3q General remarks of inspecting officers on method of mining etc. satisfactory. satisfactory as per the proposals. Yes work is being carried out as proposed.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Not top soil, but OB. 1667366-1667574 N E 661271-661366	OB. 1667366-1667574 N E 661271-661366	As per the proposals.
4b	Location of topsoil, OB and mineral reject dumps	nil	nil	nil
4c	Number of dumps within lease area and outside of lease area	Active one dump & Inactive one dump.	Within the lease active & one inative.	Both are within the lease.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within the UPL	Both te dumps are within the UPL.	yes within the UPL. Nothing outside the ML area.
4e	Number of active and alive dumps.	one only	one only	yes one only.
4f	Number of dead dumps.	one	one	one only.
4g	Number of dumps established.	one	one	one
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes proposed.	work under progress.	yes under progress.
4i	Length of Retaining wall or garland drain all along dumps	.RW1-1326m,RW2 -934m & RW-3--419m.	RW1-1317m,RW2 -907m & RW-3--395m.	under progress & in good condition.
4j	Number of settling ponds	six settling tank proposed.	6 settling tanks completed.	yes completed.,
4k	Specific comments of inspecting officer on waste dump management	Wase dump management proposed.	carrying out proposals as per the approval.	yes under progress.

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	Nil	nil	nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	nil	nil
5d	Total area fully reclaimed and rehabilitated	Nil	nil	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Nil	nil	nil, as such no area is matured for back filling.

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 proposals.	submitted on 9/6/2017.	nil
6b	Area available for rehabilitation (ha) .	nil	nil	nil
6c	afforestation done (ha).	Nil	nil	nil
6d	No. of saplings planted during the year	Nil	40910 nos. of saplings on old dump area, safety zone, dumps slopes, covers an area 2.2 ha & 1.25000 agaves are planted. 0.3 ha area covered with geo coir matts.	as above.
6e	Cumulative no .of plants	proposed as per guidelines.	continous monitoring done as per schedule.	nil.

6f	Any other method of rehabilitation	nil	nil	nil
6g	Cost incurred on watch and care during the year	nil	nil	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	nil	nil	nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	nil	nil	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	nil	nil	nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	nil	nil	nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	nil	nil	nil

6p	Compliance of environmental monitoring (core zone and buffer zone)	nil	nil	nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	no propoposals.	nil	nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	480000t	lumps=138159t, fines=195142t & total=333292t	materials are sold thro e-auction only.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanized means	mechanized.	yes as above.
7c	Different grade of mineral sorted out at mines.	0-55, 55-58, 58-60, 60-62, 62-65 & 65%Fe respectively.	0-55, 55-58, 58-60, 60-62, 62-65 & 65%Fe respectively.	Same aas above.
7d	Any beneficiation process at mines	No wet process only dry process.	Yes as above.	Same as above.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	proposed	satisfactory.	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	Nil	nil	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes proposal made for separate OB, BHQ & no mineral rejects.	Present excavation waste is being dumped in the active dump AD1 & no mineral rejects to dump.	As above.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not proposed as on date.	Since no area available for the same.	Yes no area matured for the work.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals.	2.2 ha area has been stabilized through afforestation.	As reported it is done in the ML area.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	250nos..	500nos.	Approximately the figure reported, in the filed it may vary on higher side.
8g	Survival rate	80%	65-70%	Approximately 65%.
8h	Water sprinkling on roads to control airborne dust	.proposed	water sprinkling is being done.	Yes it is followed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	proposed	Proposal are being maintained.	it is well maintained and also aesthetic beauty.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	AR submitted for the year 2016-17 & the monthly returns up to December, 2017.	Submitted as per the format.	yes submitted.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	S/Shri. J. Srikant, Mines manager, Prashant Gali Mining Engineer, Cheluva Murthy, Geologist .	Yes during the inspection, all the above officers were on the job.	This mine is working with all the officials as per the requirements.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	13.6ha under mining Oc. 5.5ha under waste disposals, 2.65 ha under plant, buildins etc., 27.98 ha under stock yard & under PMCP for the yaer is 2.5 ha.	It was observed during the field inspection, that the mine is working as per the land use pattern.	yes as per the proposals.
9d	Scrutiny of Annual return on afforestation	1010 Nos of plantations & 80 % within the ML area, 210 nos in outside the ML.	During the field inspection both within & outside lease undertaken the plantations.	It was observed that the plantations reported found to be satisfactory.
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	Opening stock in OC working is 300t, production is 459700t & closing stock is 300t. Dump working is opening stock is 300t & nil production & closing stock in dump working is 300t.	As per the approved document it is reported production of 459700t is appropriate and correct. But the dump working reported for 300t as opening & closing stock is not correct & not observed in the field.	yes as it is reported based on the field observations.

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price for lumps is Rs. 2290/t for 55-<58, Rs. 2500/t=58-<60, Rs. 1960/t=60-<62%Fe & Rs. 1600/t=62-<65%Fe. For fines, Rs. 1850/t= 55-<58%Fe, Rs. 2025/t=60-<62%Fe, & Rs. 1285/t=62-<65%Fe. the sale value is fines & lumps are Rs. 1229/t of 55-<58%Fe, to Rs. 1825/t . Rs. 1540/t Rs. 1284/t of 62-65%fe.Lumps is Rs. 1125/t of 55-58%fe, rs. 1600/t of 62-65%Fe. Cost of prod=rs. 631/t.	The prevailing rate through e-auction is given accordingly.	Yes the whole of the state, the rates are through e-auction.
9h	Scrutiny of Annual return on fixed assets	fixed assets is rs. 40484256 in respect of mine, beneficiation plant & workshop etc. Depreciation on fixed assets=rs. 7144280/.	As per the existing assests values are reported.	As above are correct.
9k	Scrutiny of Annual return on mining machineries	Under part-V, the machineries details are furnished. That are put use in the mine.	those machineries are under use for the daily usage.	Yes used in the mine for their daily developemnt & the production.

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
Rule 45(7)	13/06/2018				

Date :

(G C MEENA)

Indian Bureau of Mines