

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

MCDR INSPECTION REPORT

Bangalore regional office

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

Mine code : 30KAR03160

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : **SHRI SRIKANT. MINE MANAGER**
Official with
Designation
- (iv) Date of Inspection : 11/08/2015
- (v) Prev.inspection date : 07/02/2015

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **RAMGAD ML 2547**
- (b) **Registration NO.** :
- (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
E-mail : ztco2000@yahoo.com
Phone : 08392 - 260225
- (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 : MINE OWNER & EXPORTERS, COWL BAZAR,
BELLARY - 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
 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	:	Modif.of approved Mining Plan	02/04/2008
Plan/Scheme of Mining		Modif.approved Mining Scheme	12/08/2010
		Mining Scheme rule 12 MCDR1988	06/12/2012
		MS modif under MCR 1960	21/08/2014

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	FOR THE YEAR 2013-14=1260M 214-15=1020M	2013-14=482M, 778M BACK LOG. 2014-15=1551.30M ,	2033 Cumulative , 43 core bore holes drilled.
1b	Exploration over lease area for geological axis 1 or 2	G1=6.55 ha, G2=13.31 ha	G1=7.47 ha, G2=6.29 ha. total mineralized area=13.76 ha.	The company undertaken the exploratory work satisfactorily.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Zeenath Transport Company.	Through MAPP drilling & Exploration Pvt. Ltd., Incurred Rs. 72,41,737 , In house logging done by own company team geologist.	Yes, it ws witnessed in the ML area about the drilling & core logging.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2=6.29 ha.	G1=7.47 ha.	For the year 2015-16=09 nos. of holes proposed with 270mts.
1e	Balance reserve as on 01/04/20	UNFC code=111=83,2 8,862, 122= 2141089, (tot.= 10469951), 221=5092877, 222=876881(tot.=5969758) .	as on 31/7/2015= 111=7702150.91, 122= 2141089(Tot.=9843239.91). 221=5092877, 222=876881(tot.=5969758).	The balance reserve is as indicated above.
1f	General remarks of inspecting officers on geology, exploration etc	As per the approved document.	Yes, the lessee undertaking systematic work on exploration to undersand the geology to assess the reserves.	The well developed as per the existing geology and exploration work, logs arrangements in the core library are very satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	1668000-1667776 N TO 660790-661041 E(section from J-J' to within L-L').	On the day of inspection it was observed that the mining development and production were in progress from (section from J-J' to L-L' and carrying out beyond L-L' up to L1 -L1'. which is not in the approved document).Violation pointed out accordingly.	The working is carrying out beyond the proposals, which is against the approved document.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes proposals made.	Yes as per the proposals for separate benches are being followed.	Yes it being strictly followed.
2c	Stripping ratio or ore to OB ratio	1:0.23 to 0.24	1:0.33	Almost very close to the proposed & approved document.
2d	Quantity of topsoil generation in m3	Nil	Nil	No top soil as on date of inspection, since the work is in progress only in the broken area.
2e	Quantity of overburden generation in m3	50,482.5 m3/100,965 tonnes.	29,768m3/59,536 tonnes.	At places, the excavation of top soil & OB are involved.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Yes proposal made in the approved document.	Yes it is being followed, systematically, but the development is crossed the limit.	Yes it is being followed, except the development limit, which is not as per the approvals.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one only.	Only one pit is in production.	same is followed.
3b	Quantity of ROM mineral production proposed	440,000 tonnes	187,211 tonnes.	Not able to maintain the propduction proposals.
3c	Recovery of sailable/usable mineral from ROM production	95%	95%	Yes the mine is able to maintain the saleable recovery.
3d	Quantity of mineral reject generation	Nil	Nil	Nil

3e	Grade of mineral rejects generation and threshold value declared.	Not proposed.	Not proposed.	Nil
3f	Quantity of sub grade mineral generation.	Not proposed	lending.generally the ore is of 45 to 58 & up to 66% Fe, hence all the ROM produced is being sent to the stack yard for	All the ores excavated from the mine is being utilized by blending.
3g	Grade of sub grade mineral generation	45-58% Fe.	As above.	All the ore are being utilized by blending.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized with machines.	Machine & mechanical is followed.	Mechanical if followed as observed during the inspections.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals made.	No proposals made.	no proposals.
3j	Provision of drilling and blasting in mineral benches	yes provisions made for drilling & blasting using HEMM, for drilling long holes drilling & blasting.	Jack hammers & Wagon drills are used. High explosives will be used for blasting, 150kgs of explosives , 25kgs/ hole.	The above proposed pattern is being followed.
3k	Provision of mining machineries in mineral benches	Volvo excavators of 247 HP, rock breaker, front end loaders, tippers, water sprinkler are used in the mineral & waste benches.	The same machineries as mentioned above, i.e. are being used Volvo excavators of 247 HP, rock breaker, front end loaders, tippers, water sprinkler are used in the mineral & waste benches..	HEMM re used in the benches for their operations.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The size of the pit is 960m x 150m x 46m(LxBxH).Maximum 7.5m height & minimum 8m width.	Some of the strata are competent and strong, where the proposed height is suitable, if it is weak, than the height need to be reduced.	Depends on the waste OB & ore, the bench height will be managed.

3m	Total area covered under excavation/pits	13.20 ha.	Additional area is utilized by carrying out developent & production workings in extra area along the L1-L1', which is extra area.	with the additional area in workings, the above 13.20 ha is not same in the present situations.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.23	1:0.31	same as above is being utilized.
3o	Total area put in use under different heads at the end of year	49.73 ha	51.00ha	1.27 ha has been utilized additionally.
3p	Production of ROM mineral during the last five year period as applicable	2010-11=14,99,957t, 2011-12=20,00,000t, 2012-13=4,40,000t, 2013-14=4,40,000, 2014-15=4,40,000t, 2015-16=4,40,000t	2010-11=3,18,087t, 2011-12=97,000t, 2012-13=00t, 2013-14=4,39,510t, 2014-15=4,39,500t, 2015-16=1,87,211t	In all the three years , production are within the limit of proposals as per the approved document.
3q	General remarks of inspecting officers on method of mining etc.	Systematic method of mining was proposed.	Yes, the method of mining operation was systematic, as observed during the inspections.	During the inspection, various activiities in the mine was found systematic.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes proposals made for separate OB dumping, MR & top soil.	During the course of working as it encounters with differnt locations, excavations were made and respective materials were stacked , generally OB & MR,	Separate stacking method is practiced in the mine, systematically.
4b	Location of topsoil, OB and mineral reject dumps	The OB location is given on eastern side, which is active and one inactive dump on the western side.	One Inactive dump on the wasteren side & active on the eastern side in operation as observed during the inspections.	Mainly waste OB dump is being developed and kept in the mine side. Top soil is being consumed as when excavated from the mine workings.

4c	Number of dumps within lease area and outside of lease area	2 nos. within the lease area.	2 nos. within the lease area.	yes both the dumps are within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Active dump=N1667627 to 1667384 and E 661117 to 661276 Inactive dump=N 1668557 to 1668288 & E 659825 to 660008.	The waste dumps mentioned are as follows: Active dump=N1667627 to 1667384 and E 661117 to 661276 Inactive dump=N 1668557 to 1668288 & E 659825 to 660008.	The waste dumps are within the Ultimate pit limit.
4e	Number of active and alive dumps.	One only	Only one.	During the inspection, only one has been identified.
4f	Number of dead dumps.	Only one.	Only one.	same only one.
4g	Number of dumps established.	one dump has been stabilized.	One dump.	only one dump.
4h	Whether Retaining wall or garland drain all along dumps are there.	yes provided.	yes provided all along the waste dumps both active and for inactive.	It was observed that, the retaining walls are made well within the lease area.
4i	Length of Retaining wall or garland drain all along dumps	2415m	2456m	what is reported is witnessed in the field.
4j	Number of settling ponds	6 nos.	6 nos.	all the settlings ponds are constructed to the satisfactions.
4k	Specific comments of inspecting officer on waste dump management	for systematic and scientific way.	yes, systematically it has been made.	The mining operation on waste dump management are well maintained.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposals.	Nil	None.
5b	Area under backfilling of mined out area	No area is matured for back filling.	yes no area is matured.	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	No area is reclaimed or rehabilitated.	nothing.	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No area is mined out for back filling.	No area is matured.	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).	Not submitted.	Submitted for the year 2013-14.	Not submitted for the year 2014-15.
6b	Area available for rehabilitation (ha) .	Nil	Nil	No area available for rehabilitations.
6c	afforestation done (ha).	nil	nil	nil
6d	No. of saplings planted during the year	not proposed.	planted on inactive dump-1000 nos. + green belt., 2.2 ha rea has been planted , total 40000 nos.	as above on the dumps and not in the mined out area.
6e	Cumulative no .of plants	not proposed	40000 nos.	total as reported 40000 nos.

6f	Any other method of rehabilitation	Not proposed.	Planted on the waste dumps only and not in the mined out areas as reclamation & rehabilitations.	Yes not in the mined areas.
6g	Cost incurred on watch and care during the year	Not proposed.	Normal cost involved on the employee and not specifically for the watch and care unit.	No special care and watch was deployed.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	Not proposed.	nil	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	not proposed.	not done anything.	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	Not proposed.	No land matured.	No area is available for such work.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposals.	No such work.	nothing.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	In the inactive dump=1000 nos. of plantations.	undertaken green belt plantations in theinactive dumps.	40000 nos. of plantations undertaken.

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2.2 ha in inactive dump through coir matting & terracing.	2500 nos plantations undertaken for gap filling.	125000 plantation undertaken in other areas, covering 0.3 ha area through agaves.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	coir matting & plantations.	gap plantations.	along with the coir matting.
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes proposals made.	But the lessee company did not carried out.	violation need to be issued.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The mine is under progress, still PMCP work is not yet commenced, since the area is not matured.	Yes, the work of PMCP is yet to start.	There is no scope for the present PMCP work.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	440000 tonnes. with 60% fines & 40% caliberated ore.	Till july,2015 is nil	Due to auctioning & price cut in the market., despatch as not taken.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical method is adopted for sorting and sizing.	Yes same mechanical means is followed.
7c	Different grade of mineral sorted out at mines.	55, 55-58, 58-60, 60-62, 62-65 & +65% Fe.	Almost the above grades are sorted 55, 55-58, 58-60, 60-62, 62-65 & +65% Fe.	The segregation method is scientific and in order.
7d	Any beneficiation process at mines	Not proposed.	EXcept dry crushing & screening.	No beneficiation process in the mine as on date.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No proposals as such made in the mine.	the mine is working with the usual way of crushing and sorting through screens.	The method is suitable for the type of ores.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals as such	whenever any area comes it is used for useful purposes.	actually, the present workings are confined to broken up area.
8b	Concurrent use or storage of topsoil	Not proposed.	no work as such	no concurrent use of top soil arise.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes proposals made for, except rejects.	OB waste is placed in the active dumps.	No rejects dumps is maintained in the mine.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals.	No proposals as such.	2.2 ha inactive dumps is stabilized by afforestations, with protective measures.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed.	Not yet matued.	It will take more time for taking PHASED WORK.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The present ML area reveals the existance of plantations.	In addition to the existance, additional plantations were undertaken in the area, along with the R & R activiites.	Wherever necessary , accordingly the plantations are underataken.
8g	Survival rate	80%	70%	due to less rain fall.

8h	Water sprinkling on roads to control airborne dust	yes proposals are made.	Yes, water sprinklers are utilized to suppress the dust.	well maintained through water sprinklers.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	systematic proposals were made.	works are maintained both within the M1 area in and around to maintain the aesthetic beauty.	yes well maintained.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	received MR up to & AR in this office.		

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
Rule 13(1)	10/11/2015				
Rule 23E(2)	10/11/2015				
Rule 45(7)	10/11/2015				

Date :**(C.PARAMESHWARAN)**

Indian Bureau of Mines