

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

MCDR INSPECTION REPORT

Bangalore regional office

Mine file No : KNT/BLR/Fe-413/A/BNG

Mine code : 30KAR03133

- (i) Name of the Inspecting : **P005**) **C.PARAMESHWARAN**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri Vijayakumar, Mining Engineer.
Official with
Designation
- (iv) Date of Inspection : 12/08/2015
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HARGINADONA**
- (b) **Registration NO.** :
- (c) **Category** : A Other than Fully Mech.
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : BELLARY
- Village : HARGINADONA
- Taluka : BELLARY
- Post office : BELLARY
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** :
- (g) **First opening date** :
- (h) **Weekly day of rest** :
2. **Address for** : **GADIGI PALACE**
correspondance **CAR STREET**
BELLARY-583101
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** :

5. Name and Address of the

Lessee : ALLUM PRASHANT
GADIGI PALACE, CAR STREET,
BELLARY, BELLARY KARNATAKA
Phone:08392-274282/ 267666
FAX :08392-277845 /267666

Owner : ALLUM PRASHANT
GADIGI PALACE, CAR STREET,
BELLARY, BELLARY KARNATAKA
Phone: 08392-274282
FAX : 08392-277845

6. Date of approval of Mining :
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2014-15	No drilling undertaken.	due to financial constraint.
1b	Exploration over lease area for geological axis 1 or 2	5.87 ha under G1	12 bore holes, 20 trial pits	undertaken later
1c	Exploration Agencies and Expenditure in lakh rupees during the year	lessee	5.10 lakhs, 1500 Rs. /m, 340m drilled at 0.20 lakhs @ 1000 Rs/pit.	nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	33.03 ha	8 nos. holes drilled during september	nil
1e	Balance reserve as on 01/04/20	(111)= 212,126t, (333=495,275t).	BMQ=(111=190096t, (333=805732t).	lessee undertaken some exploration.
1f	General remarks of inspecting officers on geology, exploration etc	yes proposed for exploration	though the mining operation is in small scale, lessee undertaken minimum exploration.	satisfactory.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	A block	A block-N 16745522 to 1674420 and E 689475 to 689385.	same location the development is made. Besides, the boundary pillars were checked in the ML area, all were intact and cemented and painted.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes proposed for separate benches.	4 benches developed partially in the ore & partially in shale.	need to advance further in the shale away from the pit.
2c	Stripping ratio or ore to OB ratio	1:0.41	1:0.172	nil
2d	Quantity of topsoil generation in m3	nil	nil	nil

2e	Quantity of overburden generation in m3	7500m3	3750m3	nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	yes proposed satisfactory	work is in progress, need to advance further in all the direction.	due to financial constraints, not advanced.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one only	one in A block	nil
3b	Quantity of ROM mineral production proposed	46000t, for the year 2014-15.	43600t	nil
3c	Recovery of sailable/usable mineral from ROM production	90%	80-90%	nil
3d	Quantity of mineral reject generation	nil	nil	nil
3e	Grade of mineral rejects generation and threshold value declared.	+45%Fe.	nil	nil
3f	Quantity of sub grade mineral generation.	nil	2014-15=nil, 2015-16=4000t	nil
3g	Grade of sub grade mineral generation	+45%fe	+35%Fe	low grade
3h	Manual / Mechanised method adopted for segregating from ROM	mechanised	mechanised	nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	nil	nil	nil

3j	Provision of drilling and blasting in mineral benches	yes propsoed for drilling & blasting	jack hammers were used, at times machines itself, if it is loose strata.	nil
3k	Provision of mining machineries in mineral benches	yes provisions given	yes machineries were used	small scale operations, as when required.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8m heighth & width	same were maintained due to medium hard.	nil
3m	Total area covered under excavation/pits	1.82 ha	1.82 ha	nil
3n	Ore to OB ratio for the pit/mine during the year.	1:0.41	1:0.17	as above, beter than te proposed one.
3o	Total area put in use under different heads at the end of year	11.158 ha	11.158 ha	out of 76.63 ha, 65.472 ha untouchable.
3p	Production of ROM mineral during the last five year period as applicable	2011-12=, 2012-13=, 2013-14=, 2014-15=46000t, 2015-16=46000t	2011-12=nil, 2012-13=nil, 2013-14=nil, 2014-15=43000t, 2015-16=nil	mining operation was stopped/ suspended due to court order.
3q	General remarks of inspecting officers on method of mining etc.	yes given	very small scale operations.	not satisfactory, due to financial constrains, lessee could not work in full strength.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	proposed	one OB dump, as on date, no mineral rejects.	nil
4b	Location of topsoil, OB and mineral reject dumps	SE art of A block	SE art of A block	no top soil developed.
4c	Number of dumps within lease area and outside of lease area	two dumps within the lease area.	one active & 1 inactive within the ML area.	nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N 1674765 to 1674695, E: 689278 to 689347	N 1674765 to 1674695, E: 689278 to 689347	same as above
4e	Number of active and alive dumps.	1+1	1+1	as above two dumps in total
4f	Number of dead dumps.	one only	one only	nil
4g	Number of dumps established.	one only	one only	nil
4h	Whether Retaining wall or garland drain all along dumps are there.	yes proposed.	under progress	under progress
4i	Length of Retaining wall or garland drain all along dumps	RW1=297m, RW2=320m, GD=300m, GD=320m	RW1=320m, RW2=55m, GD=220m, GD=20m	small scale of operations.
4j	Number of settling ponds	02	under progress	nil
4k	Specific comments of inspecting officer on waste dump management	yes proposals are there.	very small work is in operation	under progress some work at places.

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.	nil	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.	not proposed , nil not matured.	nil
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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	not submitted violation issued.	nil
6b	Area available for rehabilitation (ha) .	nil	nil	nil
6c	afforestation done (ha).	1.37 ha	1.34 ha, 2500 nos.	as above
6d	No. of saplings planted during the year	given proposals	2500 nos.	due to small operation work is less.
6e	Cumulative no .of plants	yes	10000 nos.	nil
6f	Any other method of rehabilitation	execpt plantation, no other method suggested.	nil	nil
6g	Cost incurred on watch and care during the year	not reported.	not reported.	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	nil	nil	nil, not possible to undertake.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	nil	nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation 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	not applicable.	nil	nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes proposed through monitoring committee	carrying as per the schedule	nil
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	not proposed, as such	some part of area has done plantations.	nil

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes proposed	only one grade	yes only one grade
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	both mechanical & manual.	both mechanical & manual at times due to small scale operation.	some times manual .
7c	Different grade of mineral sorted out at mines.	45-62%Fe	50-55%fe	yes only one grade.
7d	Any beneficiation process at mines .	not proposed	nil	nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	mineral conservation measures have been proposed/ but not for beneficiation.	yes only mineral conservation and not beneficiation.	nil

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes if it is available, it is used.	at places if any top soil occurs, it is used for plantation purposes.	nil
8b	Concurrent use or storage of topsoil	nil	nil	nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes proposed for waste dump, fines.	as per the deposition, whatever materials excavated were stacked.	yes as on date of inspection, no work was in the mine.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	not proposed for the present	not matured for the present.	nil

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	not proposed for the present.	mining in the initial stage, no such situations prevails in the Ml area.	yes no area avialable for such work
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Though the area vast with natural afforestation with srhubs and bushes.	natural bushes and shrubs are present, at places additional plantations done. in safety zone & within the area .0.87 ha + 0.50 ha with 3500+2500 so for.	very small operation, at places plantation doen.
8g	Survival rate	50-60%	60%	nil
8h	Water sprinkling on roads to control airborne dust	yes provision made for water sprinklers	yes through tankers water is sprayed in the ML area wherever required.	yes doen.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	no such proposals.	The mining operation is very small in single pit, at times mines were not operated regularly.	not to that extent.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	2014-15 were recd in this office, all the information were furnished,	furnished satisfactory.	furnished all informations.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer, geologist & Manager	Shri G.Vijay Kumar as Mining Engineer & Manager and Jagan Mohan Reddy as Geologist.	as above present in the mine.

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1.82 ha for current workings, 2.13 ha for waste dump, 7.208 ha for buildings, roads, plant etc., & 65.472 ha as untouched area.	The area indicated against each items are nearly approximate.	tentaive area reflected.
9d	Scrutiny of Annual return on afforestation	2000 tress planted during the year with 60% survival	Survival found to be less due to shortage of water.	nil
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 is nil, production of ROM is 43600t & same is the closing stock.	as reported, 43600t in the mine	yes so much stock were present.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	lumps of below 55% Fe- 1373.22t, dispatch is 913.83t & closing stock is 459.38t, fines= below - 55%-1586.17t as Opening stock & closing stock. Price not indicated.	other than the price, only only opening & closing stock indicated.	yes as it is given without the price.
9h	Scrutiny of Annual return on fixed assets	value of FA is Rs. 17,34,355 and the depreciation on fixed assets is Rs. 188764 in Rs.	value of mine, plant, workshop & water installation , etc.	as above the dtails were furnished.
9k	Scrutiny of Annual return on mining machineries	Diesel generator -1, crusher-1 & water tanker- 1000 litres.	The items indicated on machineries atre given in the site.	yes as it is were present.

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)	20/04/2015	28/12/2015			
Rule 13(1)	23/12/2015				
Rule 23E(2)	23/12/2015				
Rule 24	23/12/2015				

Date :
(C. PARAMESHWARAN)

Indian Bureau of Mines