

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

Review and updation of Mining Plan REPORT

Bangalore regional office

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

Mine code : 30KAR03133

- (i) Name of the Inspecting : **257**) **Prashant S Hegde**
Officer and ID No.
- (ii) Designation : Regional Mining Geologist
- (iii) Accompanying mine : S/Shri Allum Prashant, Mine Owner and Vinodh S Jadha
Official with
Designation
- (iv) Date of Inspection : 12/10/2019
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **HARGINADONA**
- (b) **Registration NO.** : **IBM/4514/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : HARGINADONA
Taluka : BELLARY
Post office : BELLARY
Pin Code :
FAX No. : 08392-267666
E-mail : apmines@yahoo.co.in
Phone : 08392-267666, 9448113500
- (f) Police Station : Ballari Rural
- (g) First opening date : 21/07/2000
- (h) Weekly day of rest : SUN
2. Address for : Mr Allum Prashant, 11th ward,
correspondance : GADIGI PALACE, CAR STREET
BELLARY-583101
3. (a) Lease Number : KAR1515
- (b) Lease area : 69.6
- (c) Period of lease : 20
- (d) Date of Expiry : 20/07/2020
4. Mineral worked : IRON ORE Main

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 : 08392-267666

Agent : BASAVARAJ
 Gadifi Palace, Car Street
 Ballari BELLARY KARNATAKA
 Phone: 9448441458
 FAX :

Mining Engineer

Name : VINOD S JADHAV, Full Time
 Qualification : BE (MINING)
 Appointment/ : 01/10/2017
 Termination date

Manager

Name : VINODH S JADHAV
 Qualification : BE MINING
 Appointment/ : 01/10/2017
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 09/07/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	BH: NIL Trial Pits: 9 Nos	BH: NIL Trial Pits: NIL	Modified RMP submitted on 1/10/2019 and was under process. V/L issued on 25/10/2019.
1b	Exploration over lease area for geological axis 1 or 2	G-1: 8.79 Ha	G1: 8.79 Ha	NIL
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	NIL	NIL
1d	Balance area to be explored to bring Geological axis in 1 or 2	Remainnig Balance area of 62.9 Ha to be Covered within 2020-21 (Plan Period)	NIL during year 2018-19	Modified RMP submitted.
1e	Balance reserve as on 01/04/20	-----	Iron Ore: 1,960,632 tonnes (+45 % Fe) MMIO(Martitized Magnetite Iron Ore): 2,372,522 tonnes(+35 % Fe) (As on 1/4/2019)	Based on last approved modified RMP dated 9/7/2018
1f	General remarks of inspecting officers on geology, exploration etc	-----	-----	Based on recent Geological Mapping and earlier exploration, the revised exploration proposals were given for entire potentially mineralised area in modified RMP document submitted on 1/10/2019. Lessee had drilled 26 nos of BHs (14 RC+12 DTH) with 1092 meterage, sofar.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	Block-A (NE part w.r.t. lease area) (N1674635 to 1674474 and E689527 to 689478)	Carried out as per proposals.	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benched in OB and minerals	Carried out as per proposals.	No top-soil.
2c	Stripping ratio or ore to OB ratio	1:0.85	1:1.04	Based on Tonnage data.
2d	Quantity of topsoil generation in m3	NIL	NIL	NIL
2e	Quantity of overburden generation in m3	105805	51220	NIL
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-----	-----	Development is being carried out as per approved proposals. Lessee had submitted the modified RMP on 1/10/19 for change in location of dumping. Further, Corner BPs were also well maintained at time inspection.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Pit Dimension: 309 m X 80 m X 50m
3b	Quantity of ROM mineral production proposed	Iron Ore: 126,939 tonnes MMIO: 122,993 tonnes ----- Total: 249,932 tonns	Iron Ore: 78,800 tonnes MMIO: 20,000 tonnes ----- Total: 98,800 tonnes	NIL
3c	Recovery of sailable/usable mineral from ROM production	95 %	95 %	NIL

3d	Quantity of mineral reject generation	NIL	NIL	As per threshold value of minerals.
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL	As per threshold value of minerals.
3f	Quantity of sub grade mineral generation.	NIL	NIL	NIL
3g	Grade of sub grade mineral generation	No sub-grade ore generation.	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Dry crushing and screening (Mechanical)	Dry crushing and screening (Mechanical)	NIL
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals.	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Wagon drilling of 110mm dia, with 8 to 9 m depth Spacing -3m, burden 2.5 m and charge per hole 30 kg	Drilling and blasting carried out as per proposals.	NIL
3k	Provision of mining machineries in mineral benches	Yes, Excavators and Tippers of 16 tonnes	Carried out as per proposals	NIL
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height and width 8 m each	As per proposals.	NIL
3m	Total area covered under excavation/pits	2.63 Ha	2.63 Ha	NIL
3n	Ore to OB ratio for the pit/mine during the year.	1:0.85	1:1.04	Based on tonnage data

3o	Total area put in use under different heads at the end of year	Minng: 2.63 Ha Dump: 4.76 Ha Green Belt: 4.93 Road: 0.73 Ha	Minng: 2.63 Ha Dump: 3.35 Ha Green Belt: 4.93 Road: 0.73 Ha	NIL
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 45,846 2016-17: 46,000 2017-18: 46,000 2018-19: 250,000 2019-20: 250,000	2015-16: 45,846 2016-17: 30,000 2017-18: 45,800 2018-19: 98,800 2019-20: 31,000 (up to Sept.19)	Unit: In Tonnes; both Iron & MMIO are clubbed in production.
3q	General remarks of inspecting officers on method of mining etc.	-----	-----	Open-cast mechanised Mining method is being carried out as per approved proposals. Actual production achieved is within the limit.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed	Carried out as per proposals.	NIL
4b	Location of topsoil, OB and mineral reject dumps	A Block: N1674434 to N1674582 and E689343 to E689519 B Block: N1673505 to N1673602 and E689747 to E690030	Carried out at in Block-A only	Dumping in Block-B was not carried out due to local issues. Modifications in RMP sought on 1/10/2019 after approval of revised dump management plan by CEC.
4c	Number of dumps within lease area and outside of lease area	5 nos Within ML	4 nos Within ML	One Dump i.e. D-3 which was partially outside ML as per CEC survey during July 2011.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outiside the UPL.	Outiside the UPL.	NIL
4e	Number of active and alive dumps.	3 nos	2 nos	Modified RMP submitted.
4f	Number of dead dumps.	1 nos	1 nos	NIL
4g	Number of dumps established.	1 nos	1 nos	By afforestation.
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Carried out as proposed all along the dumps	NIL
4i	Length of Retaining wall or garland drain all along dumps	Dump Nos D-3,D-2,PD-1a,PD-1 Retaining walls: RW-1 - 320 m; RW-2 - 297 m; RW2a - 250 m;RW3 - 280 m Garland drain: GD 1 - 320 m;GD 2 - 300 m;GD2a - 260 m;GD3 - 290 m	Dump Nos D-3,D-2,PD-1a,PD-1 Retaining wall:RW-1 - 335 m;RW-2 - 320 m; RW2a - 255 m; RW3 - 285 m Garland Drains: GD 1 - 340 m,GD 2 - 330 m;GD2a - 260 m;GD3 - 290 m	As per approved R & R plan of CEC.
4j	Number of settling ponds	NIL	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management	----- -	-----	Waste dump management is being carried out as per approved modified RMP. Dumping in Block-B was not carried out due to local issues. Modifications in RMP sought on 1/10/2019 after approval of revised dump management plan by CEC.

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.	NIL	NIL	Pit was not matured for backfilling.
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.	-----	-----	Pit was not matured for backfilling as ore not exhausted.

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).	1 st July	Submitted before inspection.	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	600 nos	2000 nos	Within ML
6e	Cumulative no .of plants	NA	7000 nos	Within ML
6f	Any other method of rehabilitation	Afforestation.	Afforestation	NIL
6g	Cost incurred on watch and care during the year	NA	one lakh Rs.	NIL

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	NIL	NIL	Pit was not matured for backfilling.
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 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	600 nos	2000 nos	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	0.24 Ha	1.5 Ha	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation.	Afforestation.	NIL

6p	Compliance of environmental monitoring (core zone and buffer zone)	Season-wise environmental monitoring proposed.	Season-wise environmental monitoring carried out and all parameters are within limit.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-----	-----	PMCP implementation is being carried out as approved proposals. Modified RMP submitted on 1/10/2019 for change in location of dumping in block-B as approved by CEC.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting proposed within the lease area.	Grade wise sorting done within the lease area.	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Dry crushing and screening by mechanical.	NIL
7c	Different grade of mineral sorted out at mines.	Lumps and fines < 55 % Fe and MMIO +35 % Fe	Lumps and fines < 55 % Fe and MMIO +35 % Fe	Manual sorting in case of MMIO.
7d	Any beneficiation process at mines .	NIL	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-----	-----	Mineral Conservation aspects are being carried out as per the proposals.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	No top soil generated.
8b	Concurrent use or storage of topsoil	NIL	NIL	Earlier generated topsoil was used for plantation
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumps for OB waste and MMOI	Carried out as per proposals.	Modified RMP submitted for change in location of dumping.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NIL	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL	Pit was not matured and one dump stabilized by afforestation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	600 nos of plantation proposed for year 2018-19	2000 within ML and 500 Outside ML carried out durin year 2018-19	7000 nos of Cum. Planation of within ML and 2000 nos of cum. plantation outside ML were carried out so far.
8g	Survival rate	NA	40 %	NIL
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on roads proposed.	Carried out as per proposals.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-----	-----	Aesthetic beauty in and around mines area was good as the lessee had implementing R & R plan and PMCP.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	-----	On-line submission of AR and MRs are regular.	NIL
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME and Mines Manager: VINODH S Geologist: JAGAN MOHAN REDDY	ME and Mines Manager: VINODH S Geologist: None	V/L issued.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit :2.636 Ha Dump: 4.763 Ha Green Belt: 4.933 Ha Road and Infra: 1.748 Ha	Actual also same except dump	V/L issued on 25/10/2019.
9d	Scrutiny of Annual return on afforestation	Within ML: 2000 nos Out-side ML: 500 nos	Actual as same.	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	NIL MMOI: 20000 tonnes	Actual also same.	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock: 18,680 tonnes Lumps (< 55 % Fe):18,680 tonnes Fines: (< 55 % Fe): 8,100 Tonnes	Actual also same at that time.	NIL
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Lumps Below 55% Fe: Rs 700 Fines Below 55% Fe: Rs 600 Cost of production: Rs 600	Actual exmine price is not matching with sale values as per rule 45(8)(b)(II) of MCDR 2017.	V/L issued.
9h	Scrutiny of Annual return on fixed assets	Rs 44,55,710	Actual appear to be correct.	NIL

9k	Scrutiny of Annual return on mining machineries	BACK HOE(0.900 Actal also same. CUM) : 2 nos TRUCK (20.000 TONNE): 8 nos ROCK DRILL (ELEC.) (100.000 MM: 1 nos WATER TANKER (5000.000 LITRE) 1 nos WHEEL LOADER: 1 nos	NIL
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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
MCDR17	Rule 11(1)	25/10/2019			
MCDR17	Rule 35(2)	25/10/2019			
MCDR17	Rule 45(7)(a)	25/10/2019			
MCDR17	Rule 55(1)(3)	25/10/2019			

Date :

(Prashant S Hegde)

Indian Bureau of Mines