

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

Inspection under SDF for star rating of mines REPORT

Bangalore regional office

Mine file No : KNT/CTD/FE/34/BNG

Mine code : 30KAR07015

- (i) Name of the Inspecting : **M003**) **G C MEENA**
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 04/11/2019
- (v) Prev.inspection date : 12/01/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JOHN**
- (b) **Registration NO.** : **IBM/167/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : CHITRADURGA
Village : MEGALAHALI
Taluka : CHITRADURGA
Post office : SIRIGERE
Pin Code : 577541
FAX No. : 080-22440795 (F),
E-mail : mail@ermgroup.in
Phone : 080-26655930 (O),944984234.
- (f) Police Station : BARAMASAGARA
- (g) First opening date : 04/02/1977
- (h) Weekly day of rest : SUN
2. Address for : Mr RAMAMURTHY PRAVEEN CHANDRA
correspondance NO 59, 12 th MAIN, BANASHANKARI, Ist STAGE,
BANGALORE-560050
3. (a) Lease Number : KAR1088
- (b) Lease area : 42.6
- (c) Period of lease : 20
- (d) Date of Expiry : 03/02/2017
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : R.PRAVEEN CHANDRA,
NO 59, 12 th MAIN,
BANASHANKARI, Ist STAGE,
BANGALORE-560011 BANGALORE
KARNATAKA
Phone:08194 - 230565, 080 - 26655930
FAX :080 - 22440795

Owner : R.PRAVEEN CHANDRA
NO 59, 12 th MAIN,
BANASHANKARI, Ist STAGE,
BANGALORE-560050 BANGLORE
URBAN KARNATAKA
Phone: 08026655930
FAX : 080224407095

Mining Engineer

Name : DHANANJAYA . G.REDDY,Full Time
Qualification : B.E (MINING), GM MINES
Appointment/ : 01/02/2008
Termination date

Geologist

Name : DEEPAK.C.A,Full Time
Qualification : MSc (App Geo), DM(Geo).
Appointment/ : 26/01/2012
Termination date

Manager

Name : N.RANADIVE
Qualification : DIP MINING,MANAGER'S II ND CCC
Appointment/ : 19/04/2013
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	04/01/1991
		Renewal under rule 22 MCR1960	14/12/1999
		Mining Scheme rule 12 MCDR1988	06/03/2003
		Modif.approved Mining Scheme	28/10/2004
		Modif.approved Mining Scheme	22/08/2006
		Mining Scheme rule 12 MCDR1988	11/05/2007
		Mining Scheme rule 12 MCDR1988	12/09/2012
		Modif.of approved Mining Plan	03/06/2016
		MP review under 17(1) MCR 2016	09/11/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Exploration Proposals for the Reporting Year	No Exploration has been carried out during the RY as there were no proposals	Lessee has carried out exploration during 2011-13 and has drilled 59 boreholes with 7438.40 meters
1b	Exploration over lease area for geological axis 1 or 2	No Exploration Proposals for the Reporting Year	No Exploration has been carried out during the RY as there were no proposals	Mineralized zone covering 21.59 Ha has been explored to G1 Category
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Exploration Proposals for the Reporting Year	No Exploration has been carried out during the RY as there were no proposals	In House Exploration carried out in during 2011-13. 3.59 crores has been incurred.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Entire Mineralization area explored	No Exploration has been carried out during the RY as there were no proposals	Entire Mineralized zone of 21.59 Ha has been explored.
1e	Balance reserve as on 01/04/20	29.22 million tonnes	29.22 million tonnes	As per Proposal
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	E629661-629752 N1573710-157400 RL-959-931m E629723-629895 N1573210-1573640 RL-921-882m	E629661-629770 N1573710-157400 RL-954.5-925.20 E629723-629895 N1573210-1573640 RL-921-881.3m	As per Proposal

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposals of benches in top soil. Proposals of Separate benches in overburden	Lessee has developed and maintained separate benches in Over Burden. No benches in topsoil as not proposed	Complied
2c	Stripping ratio or ore to OB ratio	1:0.080	1:0.079	Complied
2d	Quantity of topsoil generation in m3	No proposals of generation of top-soil during the reporting year	No top soil generated	Complied
2e	Quantity of overburden generation in m3	40208.66 Cum	39958 Cum	Complied
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	Single pit proposed for production during RY	Working carried out in a Single Pit	Pit Dimension is 800mX230mX74 meters
3b	Quantity of ROM mineral production proposed	7,50,000 tonnes	7,49,938 tonnes	Complied
3c	Recovery of sailable/usable mineral from ROM production	100% of RoM is salable	100% of RoM is salable	Complied
3d	Quantity of mineral reject generation	No proposal for generation of mineral reject during the RY.	No Mineral Reject Generated	Complied
3e	Grade of mineral rejects generation and threshold value declared.	No proposal for generation of Sub-Grade during the RY.	No Sub grade Generated	Complied

3f	Quantity of sub grade mineral generation.	No proposal for generation of Sub grade during the RY.	No Subgrade Generated	Complied
3g	Grade of sub grade mineral generation	No proposal for generation of mineral reject during the RY.	No Mineral Reject Generated	Complied
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method by Dry Screening and Crushing of RoM	Mechanised method by using 1 fixed plant of 300 TPH, 2 Mobile screening plant of 200 TPH and 300 TPH are used for segregating RoM	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposals of beneficiation studies during the RY	No Studies carried out during the RY	Previously during 2014, lessee has carried out studies on Siliceous Ore from IMMT, Bhubaneshwar.
3j	Provision of drilling and blasting in mineral benches	Lessee has proposed for Drilling and Blasting	Lessee has carried out Drilling and Blasting during the RY	As per proposal in approved mining plan.
3k	Provision of mining machineries in mineral benches	Excavators-4 no Dumpers-10 no Wheel Loader-4 no Ripper and Dozer-1 no Water Tankers-5 no. Compressor-1 no Wagon Drill-1 no	During the RY lessee has utilized the below machinery in mineral benches. Excavators-4 no Dumpers-10 no Wheel Loader-4 no Ripper and Dozer-1 no Water Tankers-5 no. Compressor-1 no Wagon Drill-1 no	As per proposal in approved mining plan.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes. Proposal of 7 meters height in Ore and Over Burden.	Lessee has maintained 7 meters height in Ore and Overburden	As per proposal in approved mining plan.
3m	Total area covered under excavation/pits	21.59 Ha.	21.59 Ha.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.080	1:0.079	Complied

3o	Total area put in use under different heads at the end of year	Mining-21.59 Ha Dumps-10.79 Ha Roads-0.060 Infrastructure-0.32 Ha Mineral Stock yards-6.66 Afforestation-2.71.	Mining-21.59 Ha Dumps-10.79 Ha Roads-0.060 Infrastructure-0.32 Ha Mineral Stock yards-6.66 Afforestation-2.71.	
3p	Production of ROM mineral during the last five year period as applicable	2014-15-350000MT 2015-16-350000 MT 2016-17-750000 MT 2017-18-750000MT 2018-19-750000 MT	2014-15-349600 MT 2015-16-349974 MT 2016-17-749911 MT 2017-18-749932 MT 2018-19-749938 MT	Complied as per proposals of approved mining plan
3q	General remarks of inspecting officers on method of mining etc.			

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal for dumping of Top Soil and Rejects during the RY. Proposal of separate dumping of Over Burden	No dumping of Top Soil and Rejects has been carried out as there was no proposal during RY. Separate dumping of Overburden has been carried out in earmarked area.	
4b	Location of topsoil, OB and mineral reject dumps	E629895-6298940 N1573660-1573670 E629960-630070 N1573620-1573690	E629895-629950 N1573640-1573740 E629960-630070 N1573620-1573700	

4c	Number of dumps within lease area and outside of lease area	Only one dump within lease area. There are no dumps outside lease area	Only one dump within lease area. There are no dumps outside lease area	Complied
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Small portion of dump on Northern Side is under UPL	Small portion of waste dump on northern side is under UPL, needs to be handled during conceptual plan period	
4e	Number of active and alive dumps.	Active Dump-1 covering 1.35 ha	Active Dump-1 covering 1.35 ha	
4f	Number of dead dumps.	Part of dump covering 4.75 ha is dead dump	Part of dump covering 4.75 ha is dead dump	
4g	Number of dumps established.	Part of dump covering 1.69 ha is stabilized.	Part of dump covering 1.69 ha is stabilized with afforestation	
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	No proposal of construction of Retaining wall or Garland drain during RY.	140 meters of Garland drain has been constructed during the RY	Retaining wall of 637 meters, Garland drain of 667 meters have been constructed at toe of dump.
4j	Number of settling ponds	No Proposal of construction during Ry	No Construction made during RY	One Settling pond of 45X15X3 meters constructed has been maintained
4k	Specific comments of inspecting officer on waste dump management			

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 proposal of back filling during the RY	Mining Pit is not matured for back filling as ore is not exhausted	NIL
5b	Area under backfilling of mined out area	No proposal of back filling during the RY	Not carried out during RY.	Nil
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal of back filling during the RY	Not carried out during RY.	Nil
5d	Total area fully reclaimed and rehabilitated	No proposal of back filling during the RY	Not carried out during RY.	Nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

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).	Before 31st July of 2019	PMCP report has been submitted on 15th May 2019	Complied.
6b	Area available for rehabilitation (ha) .	No proposals for the RY 2018-19	Not applicable.	Nil
6c	afforestation done (ha).	No proposals for the RY 2018-19	Not applicable.	Nil
6d	No. of saplings planted during the year	No proposals for the RY 2018-19	Not applicable.	NIL
6e	Cumulative no .of plants	No proposals for the RY 2018-19	Not applicable.	NIL
6f	Any other method of rehabilitation	No proposals for the RY 2018-19	Not applicable.	NIL

6g	Cost incurred on watch and care during the year	No proposals for the RY 2018-19	Not applicable.	NIL
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposals for the RY 2018-19	Not applicable.	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals for the RY 2018-19	Not applicable.	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposals for the RY 2018-19	Not applicable.	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals for the RY 2018-19	Not applicable.	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals for the RY 2018-19	Not applicable.	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Afforestation- Gap Plantation with 200 saplings	Not carried out during the RY.	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Area- Gap Plantation within afforested 0.8 Ha.	Not carried out during the RY.	NIL

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Method of Rehabilitation - BY Plantation	Not carried out during the RY.	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment Monitoring for AAQM, Fugitive Emissions, Surface, Ground Water Quality, Noise Monitoring proposed in Core and Buffer zone	Environment Monitoring for AAQM, Fugitive Emissions, Surface, Ground Water Quality, Noise Monitoring proposed in Core and Buffer zone carried out through M/s Metamorphosis NABET approved and NABL accredited laboratory	Monitoring reports verified and monitored results are with in permissible standards as per CPCB
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise mineral sorting within lease area	Grade wise Production made during 2018-19 are furnished below Fines Grade Qty in tonnes 58-60 509387 60-62 24547 Lumps Grade Qty in tonnes 50-55 29424 55-58 14562 58-60 13284 60-62 12127 62-65 146647	NIL
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanised	Mechanised	NIL

7c	Different grade of mineral sorted out at mines.	Fines & Lumps <55% 55-58 % 58-60% 60-62% 62-65%	Fines Grade Qty in tonnes 58-60 509387 60-62 24547 Lumps Grade Qty in tonnes 50-55 29424 55-58 14562 58-60 13284 60-62 12127 62-65 146647	NIL
7d	Any beneficiation process at mines .	Crushing and Screening-by Dry Process	Crushing and Screening-by Dry Process using Fixed Plant and two Mobile screening plants carried out.	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal for Removal or utilization of top soil	Mining Area is devoid of top soil.	NIL
8b	Concurrent use or storage of topsoil	No Proposals for the RY	No usage or storage of top soil is carried out for the RY	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed for separate dumps in OB and Ore Stacks. No Proposals for Rejects during the RY.	Separate dump in OB and mineral stocks are maintained as per ear marked area.	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposals	Not Applicable.	NIL

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No Proposals during the Reporting Year	Not Applicable	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Prior to Mining, the lease area falls under forest with dry Deciduous type -2 forest enriched with Shrubs and Grasses.	Lessee during the Year have planted 950 Saplings with 65 % Survival rate. Out-side lease area 24263 were planted with 45 % survival rate	Cumulatively Within Lease area lessee has planted 33272 saplings which have registered 65 % survival rate.
8g	Survival rate	50%	65%	NIL
8h	Water sprinkling on roads to control airborne dust	Dust suppression using water tankers, dry fog dust suppression system.	On Haul roads Static sprinklers have been fixed. 5 water tankers are engaged for water spraying. Mineral processing plant is covered with GI hood cover and dry fog dust suppression systems are installed. Truck mounted fog system is used to mitigate air borne dust pollutants. Use of Geocoir mats on inactive terraces are seen which mitigate air borne dusts.	NIL
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted upto Sept-2019 A.R. submitted upto FY 2018-19.	M.R. Submitted upto Sept-2019 A.R. submitted upto 2018-19.	FY

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer- Dhananjaya.G.R eddy. Geologist- Deepak.CA Manager- Ranadive.N	Mining Engineer- Dhananjaya.G.Reddy. Geologist-Deepak.CA Manager-Ranadive.N	Verified and Found correct.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining Area- 21.59 Dumping-10.79 Stocks, roads, Infrastructure -7.04 Others- Afforestation- 2.71	Mining Area-21.59 Dumping-10.79 Stocks, roads, Infrastructure-7.04 Others-Afforestation- 2.71	Verified and Found correct.
9d	Scrutiny of Annual return on afforestation	950 saplings with in Lease area 24263 saplings outside lease area	950 saplings with in Lease area 24263 saplings outside lease area	Verified with Plantation Ledger and found correct.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject Generation-Nil	Mineral Reject Generation-Nil	Verified and Found correct.

9f	Scrutiny of Annual return on ROM stock and/or graded ore	RoM Stock-Zero. Closing Stock of Fines 50-55 727 55-58 40 58-60 320235 60-62 12797 62-65 83 65 0 Total 333882	RoM Stock-Zero. Closing Stock of Fines 50-55 727 55-58 40 58-60 320235 60-62 12797 62-65 83 65 0 Total 333882	Verified with Production/Dispatch Ledger and found correct.
		Lumps 50-55 26641 55-58 12566 58-60 19196 60-62 1226 62-65 105490 65 0 Total 165119	Lumps 50-55 26641 55-58 12566 58-60 19196 60-62 1226 62-65 105490 65 0 Total 165119	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost			
9h	Scrutiny of Annual return on fixed assets			
9k	Scrutiny of Annual return on mining machineries			

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

Date :

(G C MEENA)

Indian Bureau of Mines