

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

Mining Plan Modification REPORT

Bangalore regional office

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

Mine code : 30KAR07015

- (i) Name of the Inspecting : **S19**) **SANDEEP KUMAR SINGH**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Dhananjaya G. Reddy, Mining Engineer, Shri Randive. N
Official with
Designation
- (iv) Date of Inspection : 21/11/2022
- (v) Prev.inspection date : 06/05/2016

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 : B.S.VINAYAKA,Full Time
Qualification : M.SC GEOLOGY
Appointment/ : 01/02/2008
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	:	Existing rule 11 MCDR1988	04/01/1991
Plan/Scheme of Mining		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
		MP review under 17(1) MCR 2016	19/03/2020
		MP review under 17(1) MCR 2016	13/12/2021

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Proposal	NIL	NIL
1b	Exploration over lease area for geological axis 1 or 2	2 exploratory boreholes proposed with total meterage of 300m.	5 nos. of exploratory boreholes drilled with total meterage of 563 m for the year 2021-22.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned.	APC drilling company, Nammakal, Tamilnadu during 2021-22 17.95 Lakhs has been incurred.	As reported by the Lessee during inspection.
1d	Balance area to be explored to bring Geological axis in 1 or 2	G-1- 20.74 ha, Non mineralized area- 21.39 ha.	G-1- 20.74 ha, Non mineralized area- 21.39 ha.	It was observed that in majority of these sections respective boreholes have ended in mineralized zone. It is inferred from sAccordingly, boreholes required for establishing both lateral and vertical continuity of ore body in accordance with M(EMC) Rules have been incorporated in the Modified Mining plan which is approved dtd 03/02/23.
1e	Balance reserve as on 01/04/20	39407884 tonnes as on 10.09.2021 (27333075 tonnes of Haematitic iron ore with avg grade 56.7 % Fe & 12074809 tonnes of HSIO with avg grade 38.9 % Fe.	38765514 Tonnes as on 1.04.2022 (After depletion of Production)	The details of Mineral Reserve under UNFC code 111 are not reported correctly under Part V-Sec-3 A (1) of AR 2021-22 as per the last approved document. Violation issued under Rule 45(7) of MCDR 2017.

1f	General remarks of inspecting officers on geology, exploration etc	The details of Mineral Reserve under UNFC code 111 are not reported correctly under Part V-Sec-3 A (1) of AR 2021-22 as per the last approved document. Violation issued under Rule 45(7) of MCDR 2017.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N-1573200-1574020 E-629550-629850 Top mRL 929, Bottom-871mRL	Development carried out within the proposed extents as per the proposal.	NIL
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposal of Separate benches in overburden and mineral	Developed and maintained separate benches in Over Burden and mineral.	8 benches in ore and 3 benches in waste. 6 m average bench height maintained for both OB and mineral.
2c	Stripping ratio or ore to OB ratio	1:0.09 (In Cum)	1:0.16 (In Cum)	Total ROM-1328570 tons~489344 Cum. Waste-136980 tons~80576 Cum. Stripping ratio variation due to more waste generated in Dump-Rehandling.
2d	Quantity of topsoil generation in m3	No top soil generation proposal	NIL	NIL
2e	Quantity of overburden generation in m3	39,650 Cum proposed including waste generated during excavation and dump rehandling	80,576 Cum waste generated including waste generated from excavation and dump rehandling.	NIL

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Development carried out within the proposed extent as per the proposal.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One existing pit proposed for production.	Actual working carried out in one existing pit.	NIL
3b	Quantity of ROM mineral production proposed	13,99,893 tonnes of iron ore (11,19,893 tonnes ROM production from Pit & 2,80,000 tonnes from dump Rehandling)	13,28,570 tonnes of iron ore(11,93,085 tonnes ROM production from Pit & 1,35,485 tonnes from dump Rehandling)	CEC capping is 13,28,600 Tonnes.
3c	Recovery of sailable/usable mineral from ROM production	100 % proposed	100 % achieved.	NIL
3d	Quantity of mineral reject generation	No mineral reject generation proposal	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	NIL	NIL
3f	Quantity of sub grade mineral generation.	No proposal	NIL	NIL
3g	Grade of sub grade mineral generation	No proposal	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized method by dry crushing and screening of ROM	Dry Crushing & Screening carried out as per the proposal	Crushing plant - 01 Jaw (Primary)& 1 Cone (Secondary) crusher of 300TPH.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	NIL	NIL
3j	Provision of drilling and blasting in mineral benches	Drilling and blasting proposed	Ripper dozer is utilized for scrapping of hard strata	No blasting has been taken place in 2021-22.
3k	Provision of mining machineries in mineral benches	Excavators-6 no's Dumpers-14 no's Wheel Loader-4 no's Dozer-1 no Water Tanker-6 no's Wagon Drill-1 no	Excavators-5 no's (1.6 Cum, 1 Cum & 3.1 Cum) Dumpers-14 nos. (25 tons) Wheel Loader-3 nos. (1.7 Cum) Dozer-1 no Water Tanker-6 nos. (8KL, 10KL, 14KL) Wagon Drill-1 no (160 mm)	As reported in AR 2021-22.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6-7 m bench height proposed for both OB & mineral	6m bench height maintained for both OB & mineral	8 benches in ore and 3 benches in waste. 6 m average bench height maintained for both OB and mineral.
3m	Total area covered under excavation/pits	20.74 Ha (As per approved RMP dated 13/12/2021)	20.74 Ha as on 1.04.2022.	The land use (area in ha) as given in Part-I (12) under 12(ii), i.e., Covered under current(O/C) workingsof AR 2021-22 have not been reported correctly in accordance with approved land use pattern of the last approved RMP dated 13/12/2021. Violation issued under Rule 45(7) of MCDR 2017.

3n	Ore to OB ratio for the pit/mine during the year.	1:0.09 (In Cum)	1:0.16 (In Cum)	Total ROM-1328570 tons~489344 Cum. Waste- 136980 tons~80576 Cum. Stripping ratio variation due to more waste generated in Dump-Rehandling.
3o	Total area put in use under different heads at the end of year	Area under Mining - 20.74Ha Waste dumps - 9.32 Ha. Infra & roads including mineral storage- 9.16 ha (As per approved RMP dated 13/12/2021)	Area under Mining -20.74 Ha Waste dumps - 9.32 Ha. Infra & roads including mineral storage- 9.16 ha (As on 1.04.2022)	The land use (area in ha) as given in Part-I (12) under 12(ii), i.e., Covered under current(O/C) workings ,12(iv) i.e., Used for waste disposal & 12(v) i.e., Occupied by plant, buildings, residential, welfare buildings & roads of AR 2021-22 have not been reported correctly in accordance with approved land use pattern of the last approved RMP dated 13/12/2021.Violation issued under Rule 45(7) of MCDR 2017.
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 7,50,000MT 2018-19: 7,50,000 2019-20: 7,50,000 2020-21: 13,99,843 2021-22: 13,99,893 (In tons)	2017-18: 7,49,932 MT 2018-19: 7,49,978 2019-20: 7,49,970 2020-21: 13,29,970 2021-22: 13.28.570 (In tons)	CEC capping is 13,28,600 Tonnes for the year 2021-22.

3q General remarks of inspecting officers on method of mining etc.

The land use (area in ha) as given in Part-I (12) under 12(ii), i.e., Covered under current(O/C) workings,12(iv) i.e., Used for waste disposal& 12(v) i.e., Occupied by plant, buildings, residential, welfare buildings & roads in AR 2021-22, have not been reported correctly in accordance with approved land use pattern of the last approved RMP dated 13/12/2021. Violation issued under Rule 45(7) of MCDR 2017.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposal of separate dumping of Over Burden proposed at dump AD-1.	Separate waste dumping carried out at waste dump AD-1 as per the proposal.	Sec H-H' to L-L' Top -888 mRL, Bottom- 872 mRL.
4b	Location of topsoil, OB and mineral reject dumps	N-1573467-1573688 E-629958-630059 RL-888-872mRL	Waste dumping Carried out within the proposed extent as per the proposal.	Waste Dumping in the Active Dump - AD-1
4c	Number of dumps within lease area and outside of lease area	2 waste dumps within lease. AD-1(Active) & ID-1(In active)	2 waste dumps within lease. AD-1(Active) & ID-1(In active)	NIL
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	AD-1(Active dump) outside UPL.	AD-1(Active dump) outside UPL.	As per the current exploration data.
4e	Number of active and alive dumps.	One Active Dump-AD-1	One Active Dump-AD-1	NIL

4f	Number of dead dumps.	One dead dump- ID-1	One dead dump-ID-1	NIL
4g	Number of dumps established.	No proposal	NIL	NIL
4h	Whether Retaining wall or garland drain all along dumps are there.	240 m Retaining wall proposed for the year 2021-22.	436 m Retaining wall constructed along the toe of waste dump.	NIL
4i	Length of Retaining wall or garland drain all along dumps	240 m Retaining wall proposed for the year 2021-22.	436 m Retaining wall constructed along the toe of waste dump.	NIL
4j	Number of settling ponds	No proposal	NIL	NIL
4k	Specific comments of inspecting officer on waste dump management			The waste dumping carried out at the earmarked location as per the proposal.

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 proposal.	NIL	NIL
5b	Area under backfilling of mined out area	No proposal.	NIL	NIL
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	NIL	NIL
5d	Total area fully reclaimed and rehabilitated	No proposal.	NIL	NIL
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No Backfilling proposals.

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	To be submitted before 1st of July every year.	PMCP report has been submitted on 05 May 2022 through Email	NIL
6b	Area available for rehabilitation (ha) .	1.16 ha afforestation on inactive waste dump	1.28 ha afforestation carried on in active waste dumps.	As reported by Lessee in Annual PMCP report 2021-22
6c	afforestation done (ha).	1.16 ha afforestation on inactive waste dump	1.28 ha afforestation carried on in active waste dumps.	As reported by Lessee in Annual PMCP report 2021-22
6d	No. of saplings planted during the year	2990 nos. of plants proposed	5445 nos. of plants planted within ML area with 70 % survival rate.	As reported in AR 2021-22.
6e	Cumulative no .of plants	27000 Nos. as on 31.3.2022	29970 Nos cumulative as on 1.04.2022	As reported by the Lessee during inspection.
6f	Any other method of rehabilitation	No proposal	NIL	NIL
6g	Cost incurred on watch and care during the year	Rs.1,20,000 proposed	Rs. 1,63,530 expenditures incurred	As reported by the Lessee during inspection.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	NIL	NIL
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	NIL	NIL
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	No proposal	NIL	NIL

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	NIL	NIL
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment Monitoring proposed in both Core and Buffer zone	The Environment Monitoring in Core and Buffer zone for air, water, noise & soil carried out as per the proposal. Monitoring report of Quarter- Dec-Feb-22 available during inspection. Parameters within limit.	NIL
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			The PMCP proposals have been implemented inside the mine as per the proposal.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	Only dry crushing & Screening Proposed	Crushing plant - 01 Jaw (Primary) & 1 Cone (Secondary) crusher of 300TPH. Production during 2021-22 are as follows Fines: Grade Qty in tonnes <55 32,000 55-582,01,662 58-608,24,913 Lumps: Grade Qty in tonnes <55 360 55-5846,631 58-6022,255 62-651,70,749	As per AR 2021-22.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Only dry crushing & Screening Proposed	Crushing plant - 01 Jaw (Primary) & 1 Cone (Secondary) crusher of 300TPH Production during 2021-22 are as follows Fines: Grade Qty in tonnes <55 32,000 55-582,01,662 58-608,24,913 Lumps: Grade Qty in tonnes <55 360 55-5846,631 58-6022,255 62-651,70,749	As per AR 2021-22.
7c	Different grade of mineral sorted out at mines.	Fines & Lumps of: <55% 55-58 % 58-60% 60-62% 62-65%	Fines: Grade Qty in tonnes <55 32,000 55-582,01,662 58-608,24,913 Lumps: Grade Qty in tonnes <55 360 55-5846,631 58-6022,255 62-651,70,749	The data is matching with the AR submitted for the FY 2021-22
7d	Any beneficiation process at mines	No beneficiation proposal	NIL	NIL
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The mineral conservation activities carried out inside the mine as per the proposal

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NIL	NIL
8b	Concurrent use or storage of topsoil	No proposal	NIL	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping proposed for OB at dump-AD-1	Separate waste dumping carried out at AD-1 as per the proposal	NIL
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	NIL	NIL
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	27000 Nos. as on 31.3.2022	29970 Nos cumulative as on 1.04.2022	As reported by the Lessee during inspection.
8g	Survival rate	60 % proposed	70% achieved	As reported in AR 2021-22.
8h	Water sprinkling on roads to control airborne dust	Dust suppression using water sprinkler proposed.	On haul roads Static sprinklers have been fixed. 6 no's water tankers are engaged for water spraying to control airborne dust.	8 KL water sprinkler- 4 nos., 10 KL water sprinkler-1 no., 14KL water sprinkler-1 no. (As reported by Lessee in AR 2021-22)

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The aesthetic beauty in and around the mines looks very good.
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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns submitted up to Oct'2022on 10-11-2022 Annual returns submitted up to 2021-22 28-06-2022.	Monthly returns submitted up to Oct'2022on 10-11-2022 Annual returns submitted up to 2021-22 28-06-2022.	The monthly return for the month of Oct-22 has been submitted on 10th November 2022 which is after the due date. In the instant case the monthly return is submitted 01 day late from the due date of submission. Violation issued under Rule 45(7) for payment of one day late fine as per the provision of this rule.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer: DhananjayaG. Reddy Geologist: Deepak.CA Manager: Ranadive.N	Mining Engineer: DhananjayaG. Reddy Geologist: Deepak.CA Manager: Ranadive.N	Mr. Vinayaka BS has been appointed as Geologist and notice of appointment sent to IBM dtd. 03-06-2022.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mining Area: 20.75 Ha Dumping: 8.04 Ha Stocks, roads, Infrastructure : 9.15 Ha	The land use (area in ha) as given in Part-I (12) under 12(ii), i.e., Covered under current(O/C) workings,12(iv) i.e., Used for waste disposal& 12(v) i.e., Occupied by plant, buildings, residential, welfare buildings & roads have not been reported correctly in AR 2021-22 in accordance with approved land use pattern of the last approved RMP dated 13/12/2021	Violation issued under Rule 45(7) of MCDR 2017.

9d	Scrutiny of Annual return on afforestation	5445 saplings planted with in lease area with 70 % survival rate.	Appears to be correct	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject Generation: Nil	Appears to be correct	NIL
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM(Opencast workings) O/s- 0 ton Production- 11,63,085 tons C/s- 30,000 tons. (Dump workings) O/s- 0-ton, Production- 1,35,485 tons, C/s- 0 ton Graded Ore O/s- 4,81,663 tons Production- 12,98,570 tons Despatch- 13,15,591 tons C/s- 4,64,642 tons. (Includes both lumps & fines)	i)The ROM production under Part-VI(1)(2)(a)- Opencast Workings have not been reported correctly. ii)The opening stock & closing stock under Part-VI(1)(2)(b)-Dump workings have not been provided, however production has been reported from Dump workings. iii) The production reported during the financial year 2021-22 is mentioned as ''1298570'' tonnes in this part and is not correct, since Part-IV (3) & Part-V, Sec4.2(B) mentions ''1328570'' tonnes.	Violation issued under Rule 45(7) of MCDR 2017.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price(Rs/ton) Fines <55 2110 55-58 3373 58-60 3183 60-62 3081 Lumps <55 4972 55-58 6616 58-60 6396 62-65 7752 Cost of Production- Rs. Rs. 1426 /ton	Appears to be correct	Non-captive mine.

9h	Scrutiny of Annual return on fixed assets	?11,81,42,484 including land, Plant & machinery etc.	Appears to be correct	NIL
9k	Scrutiny of Annual return on mining machineries	Excavators-5 no's (1.6 Cum, 1 Cum & 3.1 Cum) Dumpers-14 nos. (25 tons) Wheel Loader-3 nos. (1.7 Cum) Dozer-1 no Water Tanker-6 nos. (8KL, 10KL, 14KL) Wagon Drill-1 no (160 mm) etc.	Appears to be correct	NIL

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)	08/12/2022	03/01/2023			

Date :

(SANDEEP KUMAR SINGH)

Indian Bureau of Mines