

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

Mining Plan Modification REPORT

Bangalore regional office

Mine file No : KNT/BLR/FE/157/BNG

Mine code : 30KAR03049

- (i) Name of the Inspecting : **A101**) **ARUN KUMAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. Sandeep M Naik-Manager Mines
Official with
Designation
- (iv) Date of Inspection : 24/12/2020
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **R.K.D.R.**
- (b) **Registration NO.** : **IBM/156/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : KARNATAKA
District : BELLARY
Village : KALLAHALLI
Taluka : HOSPET
Post office : HOSPET
Pin Code :
FAX No. : 08394-224998 (F)
E-mail : auro.hspt@gmail.com
Phone : 08394-228308 (O), 94483951:
- (f) Police Station : HOSPET
- (g) First opening date : 24/07/1982
- (h) Weekly day of rest : SUN
2. Address for : ANEGODY HOUSE,
correspondance : N.C. COLONY,HOSPET,
BELLARY-583201.
3. (a) Lease Number : KAR0161
- (b) Lease area : 31
- (c) Period of lease : 20
- (d) Date of Expiry : 22/05/2021
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : AURO MINERALS
 ANAGONDI HOUSE, N.C.
 COLONY, HOSPET, BELLARY
 KARNATAKA
 Phone:
 FAX :

Owner : AURO MINERALS
 ANAGONDI HOUSE, N.C.
 COLONY, HOSPET, BELLARY,
 BELLARY KARNATAKA
 Phone:
 FAX :

Mining Engineer

Name : C.JANARDHANA, Full Time
 Qualification : B.E[MINING]
 Appointment/ : 20/09/2002
 Termination date

Mining Engineer

Name : B.RAMA SUBBA REDDY, Full Time
 Qualification : BE MINING
 Appointment/ : 20/09/2002
 Termination date

Manager

Name : S.M.NAGDEVE
 Qualification : DIP IN MINING, FIRST CLASS MCC
 Appointment/ : 20/09/2002
 Termination date

Manager

Name : B.RAMA SUBBA REDDY
 Qualification : BE MINING
 Appointment/ : 20/09/2002
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	06/11/1990
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	06/12/1996
		Renewal under rule 22 MCR1960	30/04/2002
		Mining Scheme rule 12 MCDR1988	18/09/2006
		Mining Scheme rule 12 MCDR1988	13/09/2013
		Mining Scheme rule 12 MCDR1988	17/06/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	07 DTH Bore holes & 5 trenches were carried out	The mine resumed on 24.11.2020. So far 15 core BH were drilled with total meterage of 774.10 Mts & 7 DTH holes, 234 mts.
1b	Exploration over lease area for geological axis 1 or 2	G1 & G2	G1:9.23 ha G2:1.76 ha.	Mineralized area : 10.99 ha, Non mineralized area: 20.01 ha
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	In House by M/s Auro Minerals, Hospet	Total cost of exploration 52.60 Lakhs .
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	Nil	Non mineralized area: 20.01 ha
1e	Balance reserve as on 01/04/20	Nil	0.536 Million Tones with average grade of 60 %	Nil
1f	General remarks of inspecting officers on geology, exploration etc			The mine resumed on 24.11.2020. So far 15 core BH were drilled with total meterage of 774.10 Mts & 7 DTH holes, 234 mts in the reporting year .

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	Proposed development : N653620 to N653660, E1682800 to E1682880	No development has been carried out since 29th July 2011	The mining operation resumed on 24.11.2020
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches proposed in overburden and mineral	Separate benches maintained in overburden and mineral in the past	Ore-6 Benches, OB-9 Benches

2c	Stripping ratio or ore to OB ratio	1:1.10	Nil	Nil
2d	Quantity of topsoil generation in m3	No proposal	Nil	Nil
2e	Quantity of overburden generation in m3	52814 tones	Nil	Bulk Density (CuM/t) : Iron Ore-3.2,HSIO-2.5,BHQ-2.5 & Waste-2
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The mining operation resumed on 24.11.2020 after obtaining all the statutory clearances. The mine was closed since 29.07.2011.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single pit	Nil	Approximate dimension : L:812 m , W: 169 m, D : 114 m
3b	Quantity of ROM mineral production proposed	84000 Tons	Nil	The mining operation resumed on 24.11.2020
3c	Recovery of sailable/usable mineral from ROM production	80%	Nil	Nil
3d	Quantity of mineral reject generation	No proposal	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	+ 45% Fe for hematite Iron Ore & +35% Fe for Heamatatic siliceous ore	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 proposed for segregation from ROM	Nil	Nil
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Proposal	No Such Beneficiation study carried out	Only dry crushing and screening proposed.
3j	Provision of drilling and blasting in mineral benches	Provision of drilling & blasting in mineral benches is made .	Nil	The mining operation resumed on 24.11.2020
3k	Provision of mining machineries in mineral benches	Excavator tipper combination proposed	Nil	The mining operation resumed on 24.11.2020
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 8 m. height & 10m width proposed	8 Benches of 8 m. height & 10m width maintained in the past	Nil
3m	Total area covered under excavation/pits	13.74 ha proposed under mining pit at the start of plan period.	13.74 at the end of FY 2019-20	Nil
3n	Ore to OB ratio for the pit/mine during the year.	1:1.10	Nil	The mining operation resumed on 24.11.2020

3o	Total area put in use under different heads at the end of year	Mining Pit- 11.62 ha, Waste dumps- 10.95 ha, Backfilling- 2.40 Ha, mineral storage - 0.56 ha, Infrastructure & roads - 0.81 ha, green belt-1.44 ha, Protective measures-0.6 Ha, Biodiversity area-1.0Ha, Virgin area- 1.62 Ha at the end of plan period .	Current working: 13.74 ha. Waste dump: 10.95 ha. Infrastructure: 0.01 ha. Others: 6.85 ha. Work done under progressive mine closure plan-0.5 ha	Nil
3p	Production of ROM mineral during the last five year period as applicable	2015-16: 84000 2016-17: 84000 2017-18: 84000 2018-19: 84000 2019-20: 84000	2015-16: Nil 2016-17: Nil 2017-18: Nil 2018-19: Nil 2019-20: Nil	No mining operation in view of the interim ban by Hon'ble supreme court since 29th july2011
3q	General remarks of inspecting officers on method of mining etc.			The mining operation resumed on 24.11.2020 after obtaining all the statutory clearances. The mine was closed since 29.07.2011

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	Nil	Temporary Backfilling proposed in the past
4b	Location of topsoil, OB and mineral reject dumps	No proposal	Nil	Non operating mine since 2011
4c	Number of dumps within lease area and outside of lease area	With in mining lease -5 no. of dumps, outside mining lease nil.	With in mining lease -5 no. of dumps, outside mining lease nil.	Nil

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Temporary backfilling proposed within ultimate pit limit.	No temporary backfilling was carried out in the plan period.	The mining operation resumed on 24.11.2020
4e	Number of active and alive dumps.	01 dump	One number of active dump within the lease	Nil
4f	Number of dead dumps.	4 no. dead dumps	Four inactive dump	Nil
4g	Number of dumps established.	No proposal	04 dumps stabilized	Plantation was observed on the inactive dumps
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall and garland drain proposed all along the temporary backfilled dumps	Nil	no mining operation had taken place & no backfilling done
4i	Length of Retaining wall or garland drain all along dumps	No proposal	Nil	TW1-1534 mts, TW2-628mts, TW3-551 mts, TW4-250 Mts & TW5-162 Mts constructed in the past as per the approved R & R Plan.
4j	Number of settling ponds	No proposal	NA	Nil
4k	Specific comments of inspecting officer on waste dump management			The mining operation resumed on 24.11.2020 after obtaining all the statutory clearances. The mine was closed since 29.07.2011

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Backfilling proposed after full extraction of the mineral	Nil	The mine was closed since 29.07.2011
5b	Area under backfilling of mined out area	2.40 Ha	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.			Backfilling proposed after full extraction of the mineral. However no mining operation were carried out in the plan period. The mining operation resumed on 24.11.2020

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).	To be submitted before 1st july of every year.	Nil	Mine was non operational for the want of statutory clearances
6b	Area available for rehabilitation (ha) .	No proposal	Nil	Nil
6c	afforestation done (ha).	1.00 ha	1.00 ha	Nil
6d	No. of saplings planted during the year	2000 saplings	2102 saplings within ML area	Nil
6e	Cumulative no .of plants	10,000 saplings	12102 saplings	Nil
6f	Any other method of rehabilitation	Backfilling proposed	Nil	Mine was non operational
6g	Cost incurred on watch and care during the year	Rs.2,00,000 per year	Rs.2,00,000 spent	Nil

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	10477 m3	Nil	Mine was non operational
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Backfilling proposed	Nil	Nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation 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)	Environmental monitoring proposed in core and buffer zone	Monitoring of ambient air quality, water quality & noise to be done.	The mining operation resumed on 24.11.2020
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation had been carried out in the ML area as proposed. The mining operation resumed on 24.11.2020

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting of ROM proposed by dry crushing and screening	Nil	Fines : 0 to 10mm, Lumps : +10 to 40mm.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical method proposed for grade wise sorting	Nil	Nil
7c	Different grade of mineral sorted out at mines.	Lumps & fines proposed	Nil	Nil
7d	Any beneficiation process at mines	No proposal	No such study carried out	Nil
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			The mining operation resumed on 24.11.2020 after obtaining all the statutory clearances. The mine was closed since 29.07.2011

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	No top soil, working proposed in broken up area.

8b	Concurrent use or storage of topsoil	No proposal	Nil	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal	Nil	Nil
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB as waste was proposed for back filling	Nil	No operation carried out since 2011
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	OB as waste was proposed for back filling	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed -2000 Nos. of saplings	With in Mining Lease : 2102 nos. , Outside ML lease : 2900 nos.	Nil
8g	Survival rate	Not specified	75 %	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control the air bone dust.	water sprinkling was done on haul roads by water tankers on the day of inspection.	Nil
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in & around the mine area was good as the lessee had carried out afforestation & environmental protection measures as per the proposal.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to October 2020 A.R. Submitted for the year of 2019-2020	AR submitted on 23.06.2020
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manage: None Mining Engineer : None Geologist : None,	On the day of inspection Sandeep M Naik-Manager Mines, Sudarshan B Waghmare-Geologist & Manohar-Mining Engineer were present during the course of inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Current working: 13.74 ha. Waste dump: 10.95 ha. Infrastructure : 0.01 ha. Others: 6.85 ha. Work done under progressive mine closure plan- 0.5 ha	Appears to be correct
9d	Scrutiny of Annual return on afforestation	With in Mining Lease : 2102 nos. , Outside ML lease : 2900 nos. with survival rate of 75%	Appears to be correct
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM : Opening ,production and Closing Stock - Nil,	Nil
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value, Ex. Mine price & production cost: Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets: Nil	Nil

9k	Scrutiny of Annual return on mining machineries	Nil	Nil
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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
MCDR17	Rule 11(4)	03/02/2021			
MCDR17	Rule 24(1)	03/02/2021			

Date :**(ARUN KUMAR)**

Indian Bureau of Mines