

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

**Mining Plan Modification REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/200/BNG

**Mine code :** 30KAR03065

- (i) Name of the Inspecting : **S011** ) **K.SRINIVAS**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : G. Lakshminarayana, SGM, Gopal Joshi DGM, Pradyumna  
Official with  
Designation
- (iv) Date of Inspection : 24/06/2023
- (v) Prev.inspection date : 03/05/2017

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SANKALAPURAM 188 AC**
- (b) **Registration NO.** : **IBM/154/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **KARNATAKA**
- District : **BELLARY**
- Village : **KARIGANUR**
- Taluka : **HOSPET**
- Post office : **KARIGANUR**
- Pin Code : **583201**
- FAX No. : **08394-265424 (F),**
- E-mail : **office@rbssn.com**
- Phone : **08394-265011/265825/265424**
- (f) **Police Station** : **RURAL POLICE STATION**
- (g) **First opening date** : **23/06/1986**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **M/S.R.B.SETH SHREERAM NARSINGDAS**  
**D.No 1499/1, P.B.NO.38, HOSPET,**  
**BELLARY-583201.**
3. (a) **Lease Number** : **KAR0219**
- (b) **Lease area** : **111.09**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **22/06/2026**
4. **Mineral worked** : **IRON ORE** **Main**

## 5. Name and Address of the

Lessee : R.B.SETH SHREERAM NARSINGDAS  
 D.No-1499/1, P.B.NO.38,  
 Post-Kariganur HOSPET-583  
 201 BELLARY KARNATAKA  
 Phone:08394-266011  
 FAX :08394-265424

Owner : AJAY SARAF  
 D.NO 1499/1, P.O BOX NO 38  
 KARIGANUR HOSPET BELLARY  
 KARNATAKA  
 Phone:  
 FAX :

Agent : KANDA SWAMY  
 RBSSN PVT LTD BELLARY  
 KARNATAKA  
 Phone: 990055004  
 FAX :

## Mining Engineer

Name : Pradyumna R. Urs., Full Time  
 Qualification : B.Tech (Mining Engineering) Holder of Sec  
 Appointment/ : 15/08/2017  
 Termination date

## Geologist

Name : Palle Ganesh Kumar, Full Time  
 Qualification : M.Sc GEOLOGY  
 Appointment/ : 03/12/2020  
 Termination date

## Manager

Name : GOPAL JOSHI  
 Qualification : DIP IN MINING, FCC  
 Appointment/ : 15/08/2017  
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	15/10/1993
		Mining Scheme rule 12 MCDR1988	31/01/2002
		Mining Scheme rule 12 MCDR1988	10/05/2002
		Modif.approved Mining Scheme	08/03/2004
		Renewal under rule 24 MCR1960	22/07/2005
		Mining Scheme rule 12 MCDR1988	13/05/2010
		Mining Scheme rule 12 MCDR1988	12/05/2015
		Modif.of approved Mining Plan	04/01/2016
		Modif.of approved Mining Plan	01/06/2017
		MP review under 17(1) MCR 2016	13/12/2019
		MP modif under 17(3) MCR 2016	11/12/2020

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	nil	-
1b	Exploration over lease area for geological axis 1 or 2	No proposal	nil	No proposal for the year 2022-23.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	nil	nil	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Not specified	G-1- 77.01 Ha G-2- 2.41 Ha G-3- 16.76 Ha Non-mineralised area- 14.19 Ha Total Area- 111.09 Ha	-
1e	Balance reserve as on 01/04/20	-	--	Reserves as on 1.04.2023 is 2030159 tonnes.
1f	General remarks of inspecting officers on geology, exploration etc	-	-	There is no specific comment on geology, exploration. However, during the year 2022-23, 29 DTH boreholes were drilled to ascertain availability of ore in the extent of 64.50Acres falling in the beneficiation plant area within the mining lease area.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Location of Development- West central part for float and South eastern part of ML for reef ore.	Location of Development- West central part for float and South eastern part of ML for reef ore.	-

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, Bench height -7m Bench width - 8m	Bench height -7m Bench width -8m	There is no top soil generation
2c	Stripping ratio or ore to OB ratio	1:0.19 (tonnes)	1:0.189 (tonnes)	Ore : 2,43,000 t OB : 46000t
2d	Quantity of topsoil generation in m3	No proposal	nil	No top soil generation
2e	Quantity of overburden generation in m3	18582 m3	18400 m3	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	nil	nil	The development has been carried out as per the proposals.

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#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one	one	-
3b	Quantity of ROM mineral production proposed	2,43,000 Metric Tonnes	2,43,000 Metric Tonnes	-
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposal	nil	No generation of rejects
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	nil	-
3f	Quantity of sub grade mineral generation.	No proposal	nil	-
3g	Grade of sub grade mineral generation	No proposal	nil	-

3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method	Mechanised method	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	No such beneficiation study carried out	-
3j	Provision of drilling and blasting in mineral benches	Provision of Drilling and Blasting is proposed for mineral benches.	Drilling has been carried out.	-
3k	Provision of mining machineries in mineral benches	Mining Machineries proposed- Excavators- 3 Tippers- 12 Dumpers-6 Drill-2 Wheel Loaders -4	Machinery deployed: Excavators- 3 Dumpers- 6 Drill-2 Wheel Loaders-5 Water tanker-2	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height- 7m Bench Width- 8m	Bench Height- 7m Bench Width- 8m	-
3m	Total area covered under excavation/pits	52.034 Ha for the plan period.	48.093 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.19 (tonnes)	1:0.189 (tonnes)	Ore : 2,43,000 t OB : 46000t
3o	Total area put in use under different heads at the end of year	Mine Working- 52.034 Ha Dumping - 6.590Ha Mineral storage- 12.207Ha Roads-6.30Ha Infrastructure -4.260Ha Mineral Separation plant-4.812Ha Afforestation- 9.960 Ha	Mine Working- 48.093 Ha Dumping -6.590Ha Mineral storage etc.- 28.175Ha Infrastructure-15.372Ha	-

3p	Production of ROM mineral during the last five year period as applicable	2018-19: 243000 2019-20: 243000 2020-21: 243000 2021-22: 243000 2022-23: 243000 in Tonnes	2018-19: 193000 2019-20: 243000 2020-21: 243000 2021-22: 237780 2022-23: 243000 in Tonnes	-
3q	General remarks of inspecting officers on method of mining etc.	-	-	There is no change in the method of mining in the mine.

## Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate Dumping of Overburden is proposed.	Separate Dumping of Overburden is being carried out.	-
4b	Location of topsoil, OB and mineral reject dumps	AD1 Location- N 1684914 to 1684870 E 652692 to 652772	Overburden Dump Location- N 1684914 to 1684870 E 652692 to 652772	-
4c	Number of dumps within lease area and outside of lease area	Within Lease Area- 3 Outside lease- NIL	Within Lease Area: 2 ID,1AD,1CID Outside lease- NIL	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the Ultimate Pit Limit	Outside the Ultimate Pit Limit	-
4e	Number of active and alive dumps.	1	1	-
4f	Number of dead dumps.	2	2	-
4g	Number of dumps established.	2	2	-
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	nil	-

4i	Length of Retaining wall or garland drain all along dumps	No proposal	nil	-
4j	Number of settling ponds	No proposal	nil	-
4k	Specific comments of inspecting officer on waste dump management	-	-	No specific comments on waste dump management.

#### 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.	Proposal in float ore area.	Concurrent backfilling carried out.	Concurrent backfilling carried out in float ore zone of F2 and F3.
5b	Area under backfilling of mined out area	2.05Ha	2.05Ha	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	nil	-
5d	Total area fully reclaimed and rehabilitated	2.05Ha	2.05Ha	In the float ore zone.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	The material of - 2mm size is being used for concurrent backfilling in the float zone.

#### 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).	Annual report on PMCP submitted on time and correctly - Rule 26(2).	Not submitted.	Violation pointed out.

6b	Area available for rehabilitation (ha) .	0.87Ha	Not carried out	Float ore worked out area. Violation pointed out.
6c	afforestation done (ha).	0.87Ha	Not carried out	Float ore worked out area. Violation pointed out.
6d	No. of saplings planted during the year	2175 Violation pointed out.	Not carried out	Violation pointed out.
6e	Cumulative no .of plants	3925	1750	Violation pointed out.
6f	Any other method of rehabilitation	NA	NA	-
6g	Cost incurred on watch and care during the year	NA	Not specified	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Not specified	Not specified	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	waste	waste	Backfilling the waste in the float ore zone.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	0.87Ha with 2175 plants.	Not carried out	Violation pointed out.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	nil	-
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	nil	-



6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal	nil	-
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	nil	-
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	nil	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environment monitoring is proposed for Core and Buffer Zone.	Environment monitoring is being carried out monthly in Core and Buffer Zone.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	Afforestation has not been carried out on the concurrent backfilled area in float ore zone. The violation has been pointed out.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Grade wise sorting is proposed within lease area.	Grade wise sorting is done within lease area.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical Sorting	Mechanical Sorting	Dry Crushing & Screening and wet processing unit.
7c	Different grade of mineral sorted out at mines.	Grade wise sorting is proposed.	Grade wise sorting is done in lease area.	-
7d	Any beneficiation process at mines .	Yes	Beneficiation is being carried out within the lease area to upgrade Iron ore procured from e-auction.	-

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	There are no specific comments on mineral conservation and beneficiation.
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	NA	-
8b	Concurrent use or storage of topsoil	No proposal	NA	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal for Separate dumping of Overburden.	Separate dumping of Overburden is carried out.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	nil	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	No specific proposal	7800 saplings planted.	Green belt/Avenue plnation
8g	Survival rate	-	70%	-

8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to control airborne dust.	Water tankers are deployed to control the airborne dust on haul roads and screening plant.	two water tankers each of 6000lts and 12,000 liters capacity.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	There is no change in aesthetic beauty in and around mine area.

#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to May, 2023	A.R. for the year 2022-23 submitted on 28.06.23.	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	P.Ganesh Kumar Reddy, Geologist Gopal Joshi, Mine Manager Pradyumana R.Urs, Mining Engineer	Appears to be correct.	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mine Working- 48.093 Ha Dumping - 6.590Ha Mineral storage etc.- 28.175Ha Infrastructure -15.372Ha	Appears to be correct.	-
9d	Scrutiny of Annual return on afforestation	7800 saplings planted.	Appears to be correct.	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Appears to be correct.	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	O/s -1000 t Production - 243000t C/s -108501t	Appears to be correct.	-

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Details furnished	Appears to be correct.	-
9h	Scrutiny of Annual return on fixed assets	Fixed assets - Rs.333779689/-	Appears to be correct.	-
9k	Scrutiny of Annual return on mining machineries	Machinery deployed: Excavators- 3 Dumpers- 6 Drill-2 Wheel Loaders- 5 Water tanker-2	Appears to be correct.	-

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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(1)	20/07/2023	13/09/2023				
MCDR17	Rule 26(2)	20/07/2023	13/09/2023				

**Date :**

**(K.SRINIVAS)**

Indian Bureau of Mines