

**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/200/BNG

**Mine code :** 30KAR03065

- (i) Name of the Inspecting : **P005** ) **C.PARAMESHWARAN**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri. Gopal Joshi. DGM Mines  
Official with  
Designation
- (iv) Date of Inspection : 05/11/2019
- (v) Prev.inspection date :

**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 : BE-Mining  
 Appointment/ : 15/08/2017  
 Termination date

## Geologist

Name : V ANANDA KUMAR, Full Time  
 Qualification :  
 Appointment/ : 01/02/2018  
 Termination date

## Manager

Name : GOPAL JOSHI  
 Qualification : DIP IN MINING, FCC  
 Appointment/ : 01/04/2006  
 Termination date

6. Date of approval of Mining	:	Existing rule 11 MCDR1988	15/10/1993
Plan/Scheme of Mining	:	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

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals	Nil	nil
1b	Exploration over lease area for geological axis 1 or 2	FY 2019-20 43 Trial Pits; Pit Size - 2(L) X 2(B) X 3(D)	43 Trial Pits; Pit Size - 2(L) X 2(B) X 3(D)	same as above
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Rai Bahadur Seth Shreeram Narasingdas Pvt Ltd	Trial Pits made by RBSNPL using its own equipment and manpower	Same no changes.
1d	Balance area to be explored to bring Geological axis in 1 or 2	Given in the approved document.	Area under G-2 - 2.41 Ha	no changes.
1e	Balance reserve as on 01/04/20	Given in the approved document.	Reserves - 2.866 Million MT Remaining Resources - 3.843 Million MT	yes reported in the AR & the approved document.
1f	General remarks of inspecting officers on geology, exploration etc	Given wherever applicable.	Done as per the approved document.	yes done appropriately.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	FY 2019-20 Pit-1, Pit-4, NE Side of Pit-3 in Float Ore & Northern part of area in Float Ore zone.	Pit-4, NE Side of Pit-3 in Float Ore	As above.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	2 Benches in Iron Ore and 2 Benches in Float Iron Ore	2 Benches in Float Iron Ore	Given above .
2c	Stripping ratio or ore to OB ratio	1:0.20 (T:T) (FY 2019-20)	1:0.12 (T:T) (Up to September 2019)	The overburden generated up to September 2019 is considered.

2d	Quantity of topsoil generation in m3	No proposals.	Nil	Nil
2e	Quantity of overburden generation in m3	17,186 CuM (For FY 2019-20)	26,250 CuM (Up to September 2019)	The Actual quantity of 10,500 MT (26,250 CuM) of waste was generated up to September 2019.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Given in the approve document.	Yes it is followed.	AS per the proposals within the approved document.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Pit-1, Pit-4, NE Side of Pit-3 in Float Ore & Northern part of area in Float Ore zone.	Pit-4, NE Side of in Float Ore	WITHIN THE PROPOSALS.
3b	Quantity of ROM mineral production proposed	294779 MT (For FY 2019-20)	92,000 MT (Up to September 2019)	The Actual quantity of 92,000 MT was produced up to September 2019.
3c	Recovery of sailable/usable mineral from ROM production	294779 MT (For FY 2019-20)	92,000 MT (Up to September 2019)	NO changes.
3d	Quantity of mineral reject generation	No proposals.	Nil	Nil
3e	Grade of mineral rejects generation and threshold value declared.	No proposals.	Nil	Nil
3f	Quantity of sub grade mineral generation.	No proposals.	Nil	Nil
3g	Grade of sub grade mineral generation	No proposals.	Nil	Nil
3h	Manual / Mechanised method adopted for segregating from ROM	Proposed for mechanical method.	Yes it is undertaken though mechanical means.	same as it is.

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Yes proposed.	Utilization of 500000 MT of subgrade ore from existing Sub grade stock at ML No. 2682	Sub grade Ore can be utilized subject to its being put up and being procured in eAuction In FY 2019-20, till September 2019, the Subgrade Ore was not put up for eAuction.
3j	Provision of drilling and blasting in mineral benches	DTH Drill, 115 mm diameter - 2 No.'s	DTH Drill, 115 mm diameter - 2 No.'s	DTH Drill, 115 mm diameter - 2 No.'s
3k	Provision of mining machineries in mineral benches	Excavators, Dumpers, Ripper Dozer, DTH Drills, Water Sprinklers	Excavators, Dumpers, Ripper Dozer, DTH Drills, Water Sprinklers	same as above
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Height - 8 Mts Width - 10 Mts	Height - 8 Mts Width - 10 Mts	no changes.
3m	Total area covered under excavation/pits	24.439 (as on end of FY 2018-19)	24.439 (as on end of FY 2018-19)	as it is, no changes.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.20 (T:T) (FY 2019-20)	1:0.20 (T:T) (FY 2019-20)	The overburden generated up to September 2019 is considered.
3o	Total area put in use under different heads at the end of year	81.65 Ha (as on end of FY 2018-19)	81.65 Ha (as on end of FY 2018-19)	no changes.

3p	Production of ROM mineral during the last five year period as applicable	2015-16: 295000 MT  2016-17: 295000 MT 2017-18: 294684 MT 2018-19: 294965 MT 2019-20: 294779 MT	2015-16: 295000 MT  2016-17: 295000 MT 2017-18: 40000 MT 2018-19: 193000 MT 92,000 MT (Up to September 2019)	The Annual Production for amalgamated Mining Lease 2682 was approved by CEC at 2,43,000 MT and was reduced on pro-rata basis to 40,000 MT for FY 2017-18 by the Hon'ble Monitoring Committee. The Annual Production for Amalgamated Sankalapuram Iron Ore Mine (ML No. 2682) was curtailed by DMG at 1,93,000 MT for FY 2018-19 under directions from the Hon'ble CEC.
3q	General remarks of inspecting officers on method of mining etc.	Proposed in the approved MP	Followed as per the approved Mining Plan.	No changes, satisfactory.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Top soil - Nil Mineral Reject - Nil OB dumped in Waste Dump (D1) located in SE of the Lease area. Waste from Float Ore Mining to be to be concurrently back filled in the area	Top soil - Nil Mineral Reject - Nil Waste was concurrently backfilled in the Pit-4, NE Side of Pit-3 in Float Ore	As above.
4b	Location of topsoil, OB and mineral reject dumps	Top soil - NA Mineral Reject - NA OB - Dump (D1) located in SE of the Lease area	Top soil - NA Mineral Reject - Nil Waste was concurrently backfilled in the Pit-4, NE Side of Pit-3 in Float Ore	no chnages.

4c	Number of dumps within lease area and outside of lease area	Within Lease are - 04 Outside Lease are - Nil	Within Lease are - 04 Outside Lease are - Nil	same as above.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed.	Yes as per the approved document.	Done as it is away from the UPL.
4e	Number of active and alive dumps.	Active Dumps - 01	Active Dumps -01	no changes.
4f	Number of dead dumps.	Dead Dumps-03	Dead Dumps-03	no changes.
4g	Number of dumps established.	04	04	No changes.
4h	Whether Retaining wall or garland drain all along dumps are there.	proposed.	yes it is present.	yes it is present.
4i	Length of Retaining wall or garland drain all along dumps	66 Mts (as on end of FY 2018-19)	1645 Mts (as on end of FY 2018-19)	Retaining Walls RW- 8,9,10,15 AND RW -11 to 14 as per R & R Plan prescribed for ML No. 2682
4j	Number of settling ponds	given proposals	nil	Retaining Walls RW- 8,9,10,15 AND RW -11 to 14 as per R & R Plan prescribed for ML No. 2682
4k	Specific comments of inspecting officer on waste dump management	Given proposals in the approved document.	Carrying out as per the proposals.	to the satisfaction.

#### 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.	Only Waste generated from Float Ore Mining during the Scheme Modification period will be backfilled	Waste - 10,500MT generated upto September 2019 was concurrently backfilled in the Pit-4, NE Side of Pit-3 in Float Ore	AS ABOVE.
5b	Area under backfilling of mined out area	Nil except as detailed above	Nil except as detailed above	NIL

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals	nil	nil
5d	Total area fully reclaimed and rehabilitated	no proposals	nil	nil
5e	General remarks of inspecting officers on backfilling and reclamation etc.	no proposals	nil	nil

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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).	The Annual Report on PCMP will be submitted within the stipulated time for FY 2018-19 within 1st July 2019	The Annual Report on PCMP submitted for FY 2018-19.	nil
6b	Area available for rehabilitation (ha) .	nil	Dumps Rehabilitation through plantation on dump slopes and Construction of - Toe Wall (RW-08, RW-09, RW-10 & RW-15) at Waste Dumps (ID-2 & Ad-1) & Garland Drains (GD-3 & GD-4). -Construction of Loose Boulder Check dam (LBCD-3). -Construction of Gabion Wire Check Dam (GCD-1, 3, 4, 5 & 6).	The Actual work done is as per the R & R works prescribed in the Fresh R & R Plan approved for Amalgamated SankalapuramIron Ore Mine (ML No. 2682) and that have been completed within FY 2018-19 and have been reported in the Annual Data Sheet and PMCP report for FY 2018-19.



6c	afforestation done (ha).	1.53 Ha (FY 2018-19)	9.72 Ha (as on end of FY 2018-19)	Inclusive of Avenue Plantation (within Lease area & outside Lease area) Annual Conceptual Stage afforestation, Afforestation on Dumps and Safety Zone Green Belt Afforestation that have been prescribed in the approved Fresh R & R Plan for ML No. 2682
6d	No. of saplings planted during the year	5245 (FY 2018-19)	11810 (as on end of FY 2018-19)	Out of total of 5245 proposed, the plantation of 1395 saplings in back filled area could not be taken up in FY 2018-19 because as the approach road was getting blocked.
6e	Cumulative no .of plants	5245 (FY 2018-19)	18550 (as on end of FY 2018-19)	18550 saplings is inclusive of 11810 within lease area plus 6740 planted outside the lease area.
6f	Any other method of rehabilitation	No proposals.	Detailed in "Actual work" under 6b	nil
6g	Cost incurred on watch and care during the year	102750/- (FY 2018-19)	260411/- (as on end of FY 2018-19)	The Actual expenditure refers to Plantation of Saplings
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	65 X 86 X 2 (FY 2018-19)	The backfilling was done (with waste handled) Pit-4, NE Side of Pit-3 in Float Ore in FY 2018-19	as above
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposals.	Nil	Nil

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	1395 Saplings (FY 2018-19)	Nil (as on end of FY 2018-19)	Plantation could not be taken up in FY 2018-19, as the approach road was getting blocked.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposals.	Nil	Nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposals.	Nil	Nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposals.	Nil	Nil
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposals.	Nil	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposals.	Nil	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, water & Noise within Core Zone	PM 2.50 & PM 10 Air Monitoring, Water and Noise Monitoring carried out in Core and Buffer Zones. by MoEF recognized Lab.	as above.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	No any specific proposals	Done as per the approved document.	yes done as per the approved document.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Proposed for grade wise sorting.	Grade wise sorting is done and sold in grade wise Lots in the eAuctions	yes done.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Given mechanical method.	The grade wise ROM is fed to the Crushing, Screening and Conveying system thus ensuring grade wise Lot formation of Lumps & Fines	yes it is being followed.
7c	Different grade of mineral sorted out at mines.	Given proposals appropriately.	Lumps: 55% to below 58% 58% to below 60% 60% to below 62% 62% to below 65% 65% and above Fines: Below 55% 55% to below 58% 58% to below 60% 60% to below 62% 62% to below 65%	as above.
7d	Any beneficiation process at mines .	Given proposals in the ML area.	The Iron Ore Beneficiation Plant operating within the Lease area procures feed iron ore through eAuction, inclusive of Old Sub grade iron Ore stock in the Lease area	yes it is being done.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Yes given as per the approved document.	Yes, the mineral conservation lessee taking complete control to conserve it & the beneficiiation.	yes it is done.

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposals.	Nil	Nil
8b	Concurrent use or storage of topsoil	No proposals.	nil	Nil

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate Dumps for OB: Waste Dump (D1) Waste Dump (D2) Waste Dump (D3) Waste Dump (D4) Waste from Float Ore to be concurrently backfilled	During FY 2018-19, Waste from Float Ore Mining was backfilled in Pit-4, NE Side of Pit-3 in Float Ore in FY 2018-19	yes done as reported above.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposals.	Nil	Nil
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposals.	Nil	nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Given proposals	done as per the approved document & also exhibits the presence of plantations.	As above.
8g	Survival rate	given	70%	yes in that range.
8h	Water sprinkling on roads to control airborne dust	Given water sprinkling provisions.	Water Tankers on roads and Atomized Mist sprayer in Ore stacking areas	yes done regularly.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Given proposals.	Lessee taking care as required in the filed.	Yes it is done in the ML area.

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Compliance of Rule 45:

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Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Given in the returns.	M.R. Submitted up to September 2019 A.R. Submitted up to 2018-19	submitted satisfactoryily.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes given	Mr. Gopal Joshi - Mines Manager. Mr. Pradyumna.R.Urs - Mining Engineer Mr. H.M. Murgyappa - Geologist	Yes appropriate.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given in the annual formats.	Current working=24.439 ha, Reclamation & rehabilitation =9.440 ha, waste dump=18.167 ha, plant & building=15.372 ha, others=23.672 ha.	as above reported.
9d	Scrutiny of Annual return on afforestation	given in the AR 2018-19	Not reported.	nil
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	not proposed.	No mineral Reject generation and same has been furnished in the A.R	no chnages.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	given in the AR	(a) Open Cast Workings 0.000, 193000.000, 0.000 (b) Dump Workings 2801226.150, 0.000, 2301226.150	In the dump working opening stock is given as 2801226t & wheras in closing stock is given as 2301226t, though there is no production during the year, which needs to be attended.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	given in the AR	The ex-mine price of different ore is given as follows; For lumps of <55%Fe to 62-65%Fe=the price is Rs. 2413 to 4075/-for fines of <55% Fe to 660 & 62%Fe is Rs. varies from Rs. 659/t to Rs. 2313/-t of ore. The sale value are Lump=55-58Fe is Rs. 2700/t, 58-60%Fe=Rs. 3000/-, 60-62%Fe is Rs. 3400/t, 62-65% of lumps is Rs. 8000/t to 9000/t. The cost of production is Rs. 846/t. respectively.	asreported inthe annual returns.

9h	Scrutiny of Annual return on fixed assets	given in the AR	given as Rs. 53,341,066/-	no changes.
9k	Scrutiny of Annual return on mining machineries	given in the AR	yes as reported the relevant machineries are under usage in the ML area appropriately in the ML as and when required.	yes it is used in the mine.

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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
Rule 45(7)	24/02/2020				

**Date :**

**(C.PARAMESHWARAN)**

Indian Bureau of Mines