

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

**MCDR INSPECTION REPORT**

**Bangalore regional office**

**Mine file No :** KNT/BLR/FE/52/BNG

**Mine code :** 30KAR03035

- (i) Name of the Inspecting : **256** ) **PUKHRAJ NENIVAL**  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : S/Shri Y.V. Rama Krishna Reddy, Mines Manager  
Official with  
Designation
- (iv) Date of Inspection : 14/11/2015
- (v) Prev.inspection date : 19/01/2015

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **KARADIKOLLA SURESH**
- (b) **Registration NO.** : **IBM243/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : KARNATAKA  
District : BELLARY  
Village : KARADIKOLLA SURESH  
Taluka : HOSPET  
Post office : KARIGANUR  
Pin Code :  
FAX No. : 08394-265355  
E-mail : pbsandson@gmail.com  
Phone : 08394-265366
- (f) Police Station : HOSPET
- (g) First opening date : 05/09/1953
- (h) Weekly day of rest : SUN
2. Address for : M/s P. BALASUBBA SETTY & SON  
correspondance : D.No-2078, P.B. No-03, 22nd ward  
J.P. Nagar, Bellary Road, Hospet-583 201
3. (a) Lease Number : KAR0323
- (b) Lease area : 44.6
- (c) Period of lease : 20
- (d) Date of Expiry : 22/01/2006
4. Mineral worked : IRON ORE Main

## 5. Name and Address of the

Lessee : P.B.SETTY & SONS  
D.No-2078, P.B.No-03 22nd  
Ward, J.P.Nagar Bellary  
Road, Hospet BELLARY  
KARNATAKA  
Phone:08394-265695, 265366  
FAX :08394-265355

Owner : P.V.Prakash, M.Partner of M/s P.B. Setty & Son  
D.No-2078, P.B.No-03, 22nd  
ward, J.P.Nagar, Bellary  
Road Hospet BELLARY  
KARNATAKA  
Phone: 08394-265595, 2  
FAX : 08394-265355

Geologist  
Name : Avinash R,Full Time  
Qualification : M.Sc  
Appointment/ : 10/06/2013  
Termination date

Manager  
Name : Y.V.Ramakrishna Reddy  
Qualification : Dip. in Mining  
Appointment/ : 01/12/2011  
Termination date

6. Date of approval of Mining : Existing rule 11 MCDR1988 12/04/1991  
Plan/Scheme of Mining Mining Scheme rule 12 MCDR1988 07/02/1996  
Renewal under rule 22 MCR1960 26/06/2001  
Modif.of approved Mining Plan 20/12/2002  
Modif.of approved Mining Plan 23/03/2007  
Mining Scheme rule 12 MCDR1988 27/06/2008  
Modif.approved Mining Scheme 11/01/2013  
MS modif under MCR 1960 27/08/2015

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	20 no's corebore holes(2000 mtrs).	18 no's corebore holes completed (1779.5mtrs)	Remaining Boreholes are proposed in 2016-17
1c	Exploration Agencies and Expenditure in lakh rupees during the year		M/s.Geotech Exploration, Nagpur, Expenditure- Rs 42.62 lakh	
1d	Balance area to be explored to bring Geological axis in 1 or 2	12.05 ha	10.55 ha	Remaining area is proposed for 2016-17 .
1e	Balance reserve as on 01/04/20	8.28 Million Ton as per SOM approved on 11.03.2013	21.817Million Ton as per Mod SOM approved on 26.08.2015.	Revised calculation of Reservesafter exploration
1f	General remarks of inspecting officers on geology, exploration etc			Exploration has been carried out satisfactorily but the particulars of boreholes drilled are not being maintained in a bound paged register hence violation has been pointed out.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1683750-1684000 E 653550-653850	N1683750-1684000 E 653550-653850	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden and Mineral-4	Overburden and Mineral-4 no's no's .	No top soil . No separate benches for overburden because ore occurs in all benches.
2c	Stripping ratio or ore to OB ratio	1:0.18	1:0.10	Upto Oct 2015.

2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	24868	16336	Upto Oct 2015.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Pit development work is carried out satisfactorily.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1	1	
3b	Quantity of ROM mineral production proposed	4,80,000 tons	3,84,000 tons	Upto Oct 2015.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	NA	NA	
3f	Quantity of sub grade mineral generation.	NIL	NIL	Subgrade mineral is utilised for blending with high grade ore .
3g	Grade of sub grade mineral generation	45 - 56% Fe	45 - 56% Fe	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	
3j	Provision of drilling and blasting in mineral benches	YES	YES	
3k	Provision of mining machineries in mineral benches	YES	YES	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	YES	YES	
3m	Total area covered under excavation/pits	12.35 HA	12.35 HA	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.18	1:0.10	Upto Oct 2015.
3o	Total area put in use under different heads at the end of year	Mine pit - 12.78 ha OB dump - 14.16 ha Infrastructure - 1.25 ha Green Belt - 8.85 ha R&R work - 5.06 ha	Mine pit - 12.78 ha OB dump - 14.16 ha Infrastructure - 1.25 ha Green Belt - 8.85 ha R&R work - 5.06 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12- 1MT 2012-13- 0.16MT 2013-14-0.48 MT 2014-15-0.48MT 2015-16-0.48MT	2011-12--1,64,619 t, 2012-13--nil, 2013-14--4,40,150t, 2014-15--4,76,000 t 2015-16--3,84,000t (up to oct-2015)	
3q	General remarks of inspecting officers on method of mining etc.			Mineral exploitation has been carried out satisfactorily.

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	YES	YES	No Top soil or Mineral reject generation.
4b	Location of topsoil, OB and mineral reject dumps	OB-N1683750-1684000 E 653550-653850	OB-N1683750-1684000 E 653550-653850	
4c	Number of dumps within lease area and outside of lease area	02 no's 1 -Active 2-Inactive	02 no's 1 -Active 2-Inactive	No dumps outside the ML area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	N1683770-1684334, E653705-654200	N1683770-1684334, E653705-654200	One active dump is away from the ultimate pit limit
4e	Number of active and alive dumps.	1 no	1 no	Inactive dump is prposed for rehandling
4f	Number of dead dumps.	Nil	NIL	
4g	Number of dumps established.	NIL	NIL	Bottom 2 terraces of active dump area Stabilized.
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	NIL	NIL	
4j	Number of settling ponds	5 no's	5 no's	
4k	Specific comments of inspecting officer on waste dump management			Solid waste management is being done satisfactorily.

#### 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.	NIL	NIL	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			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 report submitted on 29/5/2015.	
6b	Area available for rehabilitation (ha) .	NA	NA	
6c	afforestation done (ha).	NA	NA	
6d	No. of saplings planted during the year	NA	NA	
6e	Cumulative no .of plants	Monitoring proposed.	Monitoring is done.	
6f	Any other method of rehabilitation	NA	NA	

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6g	Cost incurred on watch and care during the year	NA	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	NA	NA
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NA	NA
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	NA	NA
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NA	NA
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	NA
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	NA	NA
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	NA	NA



6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	NA	NA	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposed	Carried out	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			PMCP compliance is made satisfactorily.

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#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Yes	Done	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines.	Below 55% Fe 55-58% 58-60% 60-62% 62-65% Above 65%	Below 55% Fe 55-58% 58-60% 60-62% 62-65% Above 65%	
7d	Any beneficiation process at mines	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral conservation is duly taken care but mineral stock is lying at various places in addition to the earmarked place. Thus violation is pointed out.

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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	NIL	NIL	
8b	Concurrent use or storage of topsoil	NIL	NIL	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	YES	YES	No mineral rejects.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	4900 saplings	1690 saplings upto Oct 2015. Cumulative 103340 trees & 177000 Agave	
8g	Survival rate	70%	70%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Work on environmental aspects is being done satisfactorily but Environment data's are not being maintained in a bound paged register thus violation has been pointed out.

## 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 October 2015 Annual returns submitted 2014 - 15.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer & Manager - G.Venkatkrishn a Geologist - R.Avinash		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Mine pit - 12.78 ha OB dump - 14.16 ha Infrastructure - 1.25 ha Green Belt - 8.85 ha R&R work - 5.06 ha		
9d	Scrutiny of Annual return on afforestation	Trees-5300 (WML) & 500 trees (OML)		
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 stock 150 tonnes Dump working - 354442 ton Lumps - 60062.660 ton Fines - 16197 ton		
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale value- Rs.3764 Ex Mine price- Rs195 rs Production cost- Rs 548 / t		
9h	Scrutiny of Annual return on fixed assets	Rs 326310000		

9k      Scrutiny of      Hydraulic  
Annual return on      excator - 8  
mining      nos  
machineries      Rock drill -  
                         2nos  
                         Dumpers - 16  
                         nos  
                         Water tanker -  
                         4 nos  
                         FE loader - 4  
                         nos  
                         Other  
                         equipments - 7  
                         nos.

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**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
Rule 13(1)	09/12/2015				
Rule 21(1)	09/12/2015				
Rule 48	09/12/2015				

**Date :****( PUKHRAJ NENIVAL )**

Indian Bureau of Mines