

**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 : **A101**) **ARUN KUMAR**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine :
Official with
Designation
- (iv) Date of Inspection : 07/06/2018
- (v) Prev.inspection date : 08/08/2017

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KARADIKOLLA SURESH**
- (b) **Registration NO.** : **IBM/243/2011**
- (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. : **08394-226853 (F),pbsandson@**
E-mail : **pbsandson@gmail.com.**
Phone : **08394-228332 (O),897120039!**
- (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 **P.B.No. 3, Hampi Road,**
HOSPET, Bellary -583201
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

Mining Engineer

Name : J.Vijay Narasihulu, Full Time
Qualification : BE, Mining
Appointment/ : 01/08/2017
Termination date

Geologist

Name : N. Shiva Prasad., Full Time
Qualification : M.sc Geology
Appointment/ :
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
		MP review under 17(1) MCR 2016	27/11/2017

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	05 Bore Holes	Exploration work Under Progress	-
1b	Exploration over lease area for geological axis 1 or 2	Not Available	G1: 6.37 Ha. G2 : 2.96 Ha G2: 2.746 Ha. (Float ore)	23 no of core boreholes drilled by the lessee during 2012-13 & 2013-14
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not available	Geo Tech Exploration, Nagpur and Expenditure 18.0 Lakhs approximately	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	5.706 Ha needs to be explored to bring from G2 axis To G1axis .	Under progress
1e	Balance reserve as on 01/04/20	-	reserves as on 01.04.2018:2,03,78,547 MT	-
1f	General remarks of inspecting officers on geology, exploration etc			05 bore holes exploration in process to bring 5.9 Ha from G2 axis To G1 axis which were backlog of previous years.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N1683560 to N1684125 & E653460 to E653825.	working was not carried out towards the eastern side of the lease in between grid lines N1684350 to N1684400 & E653850 to E653900	Violation pointed out
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There is no separate benches for OB & mineral	Combined benches for OB & mineral	No generation of topsoil. Area already broken up
2c	Stripping ratio or ore to OB ratio	1:0.21	1:0.21	-
2d	Quantity of topsoil generation in m3	No proposal	Nil	working in broken up area

2e	Quantity of overburden generation in m3	29431 Cu.M	29428 Cu.M	No significant change
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Violation of Rule 11(1) was issued to the lessee for not doing the development towards the eastern side of the lease

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	Single pit , divided into 2 section as eastern and western sections	-
3b	Quantity of ROM mineral production proposed	0.48MMT	0.48MMT	-
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No proposal	Nil	-
3e	Grade of mineral rejects generation and threshold value declared.	No proposal	Nil	-
3f	Quantity of sub grade mineral generation.	No proposal	57600 tones	In pit blending of mineral reject with high grade ore.
3g	Grade of sub grade mineral generation	No proposal	< 45% Fe	-
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized Method proposed	Mechanized Method adopted	-

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	-
3j	Provision of drilling and blasting in mineral benches	Slurry explosive booster with conjunction of ANFO	Drilling & Blasting adopted.	-
3k	Provision of mining machineries in mineral benches	Drill m/c- 2Nos., Excavators - 7 Nos., Tippers - 14 Nos.	1 drill m/c, 4 Excavators & 7 tippers were in operation	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 8 m. height & 12m width (avg)	Benches of 8 & Height of 12 m width (avg.) is suitable for mining.	-
3m	Total area covered under excavation/pits	13.73 ha	No change	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.21	No change	-
3o	Total area put in use under different heads at the end of year	Mining Pit- 13.73 Ha., Waste dumps-11.3 Ha., Infrastructure- 0.20 Ha., Green Belt- 1.52 Ha., Roads-0.95 Ha. Others 14.4 Ha.	No Change	-
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 480000 2014-15: 480000 2015-16: 480000 2016-17: 480000 2017-18: 480000 (in tones)	2013-14: 4,40,150 2014-15: 4,76,000 2015-16: 4,78,850 2016-17: 4,80,000 2017-18: 4,80,000 (in tones)	Actual production with in proposed production limits

3q	General remarks of inspecting officers on method of mining etc.	0.48 MMT extracted with 100% recovery. Drilling & Blasting adopted to win the ore.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of OB proposed	Separate dumping of OB done	No Top soil and mineral rejects.
4b	Location of topsoil, OB and mineral reject dumps	Northing - 1684170 to 1684330, Easting - 653770 to 653870	No Change	OB dumping location
4c	Number of dumps within lease area and outside of lease area	One active dump & 2 inactive dumps within the ML	No change Approx. size 270 m x 200 m x 50 m	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	outside UPL	No change	-
4e	Number of active and alive dumps.	1 active dump proposed	Only 1 active dump	-
4f	Number of dead dumps.	2 no	2 no	-
4g	Number of dumps established.	No proposal	Both inactive dump & active dump is partially Stabilized by plantation.	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Proposed	Constructed	-
4i	Length of Retaining wall or garland drain all along dumps	125 m. of Retaining wall 125 m of garland drain.	145 m. of Retaining wall 145 m garland drain.	-
4j	Number of settling ponds	1Nos	1Nos	Total -7Nos. of settling ponds constructed
4k	Specific comments of inspecting officer on waste dump management			No deviation w.r.t dumping was observed during the course of MCDR inspection.

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	NA	Mineral is not exhausted in the working pit& B/F is not necessary as of now
5b	Area under backfilling of mined out area	No proposal	Not applicable	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal	Not applicable	-
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Mineral is not exhausted in the working pit& B/F is not necessary as of now

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).	Yes	Annual Report 2016-17 Submitted on date 29/06/2017	Submission due on 1st July 2018.
6b	Area available for rehabilitation (ha) .	0.2ha	0.2ha	-
6c	afforestation done (ha).	0.85 ha	0.18 ha	-
6d	No. of saplings planted during the year	2385	1100	Violation pointed out

6e	Cumulative no .of plants	603685	6,02,400	Plantation done on inactive dump, green belt area, safety barrier ,mine office
6f	Any other method of rehabilitation	Geo textiles / Coir mating	Coir matting laid on dump	-
6g	Cost incurred on watch and care during the year	RS. 5,00,000/-	RS. 6,52,682/-	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal	Nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal	Nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal	Nil	-
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	No waste land involved within ML area.

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)	Yes	Carried out periodically	With in Core zone & Buffer Zone
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental monitoring carried out periodically in the core & buffer Zone. Plantation was done but not as per the as per the proposal. Violation 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 of ROM by dry screening of ore	Found to be maintained	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical	mechanical	Hyd. Excavator & tipper combination used
7c	Different grade of mineral sorted out at mines.	+58% Fe,45 to 58 %Fe	No change	-
7d	Any beneficiation process at mines	No proposal	NA	Dry crushing & sizing

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	No deviation w.r.t mineral conservation is observed during the course of MCDR inspection.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil	No top soil, Already broken up area.
8b	Concurrent use or storage of topsoil	No proposal	Nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes, proposed	OB stacked separately	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	OB & Waste will be used during FMCP for backfilling	Nil	Mineral not exhausted
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Will be complied during FMCP	NA	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Proposed.	0.18 Ha with 1100 Nos.	Cumulative of plants 6,02,400 Nos.
8g	Survival rate	No proposal	80%	-
8h	Water sprinkling on roads to control airborne dust	Proposed	4 water tankers and one mist spray tanker	Total-5Nos water tankers deployed

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Entire ML is within forest land with thin vegetation. Most of ML area degraded. Healthy population of natural vegetation outside the ML area.
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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 April 2018 & A.R. Submitted up to 2016-2017	AR Submission due on 1st July 2018
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	ME: K.B.Tejnath, Geologist :N.Siva Prasad, MM: Y V Ramakrishna Reddy	No change for Mines Manager & Geologist.Mining Engineer: Shri. J .Vijay Narasihulu	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under Current Working:13.27 Ha ,Waste dumps:12.65 Ha, Infrastructure & roads:1.11 Ha.	Appears to be correct	-
9d	Scrutiny of Annual return on afforestation	WML: 2500 plants with 80% survival rate	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	Fe lumps:11207 tones, & Fines- 22000 tones.	Lumps & fine stacks are being surveyed periodically by the officials of DMG,Karnataka	-

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine price of different grades of lumps & fines are mentioned. Production cost : Rs.515.84/Ton	Appears to be correct	-
9h	Scrutiny of Annual return on fixed assets	Fixed assets: Rs.3460 Lakhs	Appears to be correct	-
9k	Scrutiny of Annual return on mining machineries	Excavators-07 Nos Tippers-16 Nos Crushers-03 Nos Water Tankers -05 Nos	No change	

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)	15/06/2018			

Date :

(ARUN KUMAR)

Indian Bureau of Mines