

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

**MCDR inspection REPORT  
Hyderabad regional office**

**Mine file No :** AP/KNL/FE--28/HYD

**Mine code :** 30APR11013

- (i) Name of the Inspecting : **M001** ) **S K MUDULI**  
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine :  
Official with  
Designation
- (iv) Date of Inspection : 28/02/2020
- (v) Prev.inspection date : 22/06/2018

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **SRI BRAHMESWARA**
- (b) **Registration NO.** : **IBM/296/2011**
- (c) Category : A Other than Fully Mech.
- (d) Type of Working : Opencast
- (e) Postal address  
State : ANDHRA PRADESH  
District : KURNOOL  
Village : VELDURTHI  
Taluka : DHONE  
Post office : VELDURTHI  
Pin Code : 518216  
FAX No. :  
E-mail : venkataramireddygowri@yahoo  
Phone : 08516-273499, 9440294076
- (f) Police Station : VELDURTHI
- (g) First opening date : 01/01/1963
- (h) Weekly day of rest : SUN
2. Address for correspondence : **SRI G.VENKATARAMI REDDY**  
H.NO.7/175,GOWRIPETA  
BETHAMCHERLA - 518599, KURNOOL DISTRICT.
3. (a) Lease Number : APR1155
- (b) Lease area : 33.01
- (c) Period of lease : 20
- (d) Date of Expiry : 27/11/2012
4. Mineral worked : IRON ORE Main  
STEATITE Associated

## 5. Name and Address of the

Lessee : G.VENKATARAMI REDDY  
 7-175 GOWRIPETA  
 BETHAMCHERLA KURNOOL ANDHRA  
 PRADESH  
 Phone:08516-273499, 9440294076  
 FAX :

Owner : G.VENKATARAMI REDDY  
 H.NO.7/175, GOWRIPETA  
 BETHAMCHERLA KURNOOL  
 ANDHRA PRADESH  
 Phone:  
 FAX :

## Mining Engineer

Name : T.M.Ravi Prakash,Full Time  
 Qualification : Diploma in Mining Engineering  
 Appointment/ : 10/04/2018  
 Termination date

## Geologist

Name : K.NAGARAJ,Full Time  
 Qualification : M.Sc(Geology)  
 Appointment/ : 29/01/2018  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	06/07/1995
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	23/01/2004
		Mining Scheme rule 12 MCDR1988	09/01/2008
		Modif.approved Mining Scheme	04/04/2011
		Renewal under rule 24 MCR1960	29/04/2014
		MP review under 17(1) MCR 2016	04/09/2017
		FMCP under 23C(1)	28/01/2020

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	32 nos trial pits	5 Nos. core BH and 2 nos DTH bore hole for a total meterage of 116m and 24 nos. trial pits completed.	Lessee advsied to complete the pending exploratory trial pits ti cinoke exokiratuib as oer ryke 12(4A) of MCDR 2017
1b	Exploration over lease area for geological axis 1 or 2	No area mentioned in the RMP	3.51 Ha in G1 (Insitu Iron Ore body), 2.20 Ha in G2 (Float Ore)	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	1. NRDCS 2. MAPP Drilling 3. Chemical Analysis	Rs.4,36,718/- Rs.6,04,632/- Rs.84,960/-	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	-	Entire Mineralised area explored under G1 & G2 level	-
1e	Balance reserve as on 01/04/20	5,11,736 T	5,27,284 T	-

1f	General remarks of inspecting officers on geology, exploration etc	It is a strata bound type deposit formed along the fracture zone of the Gani Kalva Fault and is having a strike length of 400m and width varying from 10 to 50m and steeply dipping towards SE. Lessee has carried out GI & G2 level of exploration laterally over the entire lease area. Exploration upto a depth of 300m as per rule 12(4A) of MCDR, 2017 is still pending.	-	-
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	The development cum production is proposed between grid lines N4920-4960 and E2024-2085	The development cum production took place broadly between proposed gridlines.	-

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2b	Separate benches in topsoil, overburden and minerals (Rule 15)	The OB benches will be developed with 3m height and width more than 3m. The advancement of benches is proposed North and South respectively in F/W and H/w.	The development has been broadly carried out as per the approved proposal.	-
2c	Stripping ratio or ore to OB ratio	No proposal	Nil	Mining proposed in already broken up area.
2d	Quantity of topsoil generation in m3	No proposal	Nil	Mining proposed in already broken up area.
2e	Quantity of overburden generation in m3	14156m3	12670 tonnes	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The advancement of pit has been carried out on either side of the mineralized zone i.e towards north and south	The advancement of pit has been carried out on either side of the mineralized zone i.e towards north and south	-

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	-
3b	Quantity of ROM mineral production proposed	95,813 MT	84400 tonnes iron ore, 11413 tonnes mineral reject of iron ore	ROM production is within the approved proposal quantity
3c	Recovery of sailable/usable mineral from ROM production	77,608 MT	Lump 40,950 Tonnes, Fines 43,450 Tonnes. Total-84400 MT	Recovery % has increased from 81% to 88%.

3d	Quantity of mineral reject generation	324 m3	4565 m3	The generation of mineral rejection is on higher side due to incidence high silica content in the ore.
3e	Grade of mineral rejects generation and threshold value declared.	Not furnished in the plan	35% of Fe	-
3f	Quantity of sub grade mineral generation.	There is no proposal of generation of sub grade mineral.	Nil	The sub grade mineral generated is concurrently blended with superior grade and thus there is no separate quantification of the same.
3g	Grade of sub grade mineral generation	-	No generation of sub grade mineral	-
3h	Manual / Mechanised method adopted for segregating from ROM	Crushing and Screening	ROM is segregated by mechanized means before crushing and screening.	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal is made.	-	-
3j	Provision of drilling and blasting in mineral benches	Drilling & blasting in hard strata along with excavator and rock breaker. Second ary blasting.	An excavators of 0.900 m3, and one rock breaker of 9 m3 has been deployed for the development as well as for winning of the ore. Secondary blasting has been carried out.	-
3k	Provision of mining machineries in mineral benches	Suitable Heights 3m in OB and Ore have been proposed.	The development has been broadly carried out as per the approved proposal.	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Suitable Heights 3m in OB and Ore have been proposed.	The development has been broadly carried out as per the approved proposal.	-

3m	Total area covered under excavation/pits	6.217 Ha	6.217 Ha	-
3n	Ore to OB ratio for the pit/mine during the year.	1:0.18	1:0.15	-
3o	Total area put in use under different heads at the end of year	13.74 Ha	13.72 Ha. approximately.	-
3p	Production of ROM mineral during the last five year period as applicable	2014-15 = 53,767 T, 2015-16 = 53,755 T, 2016-17 = 53,755 T, 2017-18 = 97,496 T, 2018-19 = 95813 T.	2014-15 = 53,845 T, 2015-16 = 54,000 T, 2016-17 = 53,400 T, 2017-18 = 75,155 T, 2018-19 = 84,400 T.	-
3q	General remarks of inspecting officers on method of mining etc.	Opencase semi mechanized method of mining with a combination of mining machinery viz. excavator, rock is being carried out.	-	-

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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)	yES, Separate dumping of OB and mineral rejects is proposed	The OB and Mineral rejects are separately dumped.	-
4b	Location of topsoil, OB and mineral reject dumps	There exists no top soil proposal. The location of waste dump is between grid lines N5033-5182 and E2257-2320 and Mineral rejects is between N5070-5300 and E2330-2450.	The waste and Mineral rejects have been dumped at designated places respectively.	-

4c	Number of dumps within lease area and outside of lease area	Three dumps exists within the ML area only.	All the three dumps are located within the ML area.	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	The dumps are proposed beyond UPL.	All the three dumps are located beyond ultimate pit limit.	-
4e	Number of active and alive dumps.	One.	There exists only one active dump	-
4f	Number of dead dumps.	Two	There are two inactive / non operative dumps.	-
4g	Number of dumps established.	No Proposal.	The two inactive / non operative dumps are partly stabilized by substantial natural growth of vegetation.	-
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal.	Nil during 2018-19.	-
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	Nil during 2018-19	-
4j	Number of settling ponds	No proposal	Nil	-
4k	Specific comments of inspecting officer on waste dump management	Terracing of active waste dumps needs to be carried out.	-	-

#### 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 such proposals has been submitted.	Nil	-
5b	Area under backfilling of mined out area	No such proposals has been submitted.	No part of the lease area is matured for backfilling.	-



5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No such proposals has been submitted.	No part of the lease area is matured for backfilling.	-
5d	Total area fully reclaimed and rehabilitated	No such proposals has been submitted.	No part of the lease area is matured for backfilling.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No part of the lease area is matured for backfilling and reclamation.	-	-

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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).	To be submitted	Yes	-
6b	Area available for rehabilitation (ha) .	No such proposal has been submitted	Nil	-
6c	afforestation done (ha).	No such proposal has been submitted. However, complimentary afforestation of 100 nos. is proposed in the 7.5m safety zone.	340 nos sappling planted	-
6d	No. of saplings planted during the year	Complimentary afforestation is proposed	340 sapplings planted	-
6e	Cumulative no .of plants	No proposal	Nil	-

6f	Any other method of rehabilitation	Except complimentary afforestation along 7.5m safety zone, no other proposals have been submitted	Nil	-
6g	Cost incurred on watch and care during the year	-	Rs.1.5 Lakhs	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( L x B x D	No such proposal has been submitted as the mineral is yet to exhaust.	Nil	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal has been submitted as the mineral is yet to exhaust.	Nil	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area			
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir			
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.			
6m	Compliance of rehabilitation of waste land within lease (i)afforestation			

- 6n Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)
- 6o Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation
- 6p Compliance of environmental monitoring (core zone and buffer zone)
- 6q General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.

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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	During the year 2018-19, the production proposed is 95813 T	During 2018-19 84400 tonnes have been produced.	-
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Partly mechanical and partly manual sorting is proposed.	The sorting of the mineral is done both mechanical and manual.	-
7c	Different grade of mineral sorted out at mines.	Yes	Grade-wise sorting as proposed is done.	-
7d	Any beneficiation process at mines	No such proposal has been submitted	Crushing and Screening is done.	-

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The effective mineral conservation is achieved by the liberation of mineral through crushing-screening and followed by manual sorting.	-	-
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## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No such proposal has been submitted.	Nil	-
8b	Concurrent use or storage of topsoil	No such proposal has been submitted.	-	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposed. Maintained separately.	Separate dumps have been maintained for waste material and mineral rejects.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal has been submitted as the mineral is yet to exhaust.	Nil	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal has been submitted as the mineral is yet to exhaust.	Nil	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-	Cumulatively about 28,000 saplings have been planted and the survival rate is good and GB is observed.	340 nos saplings planted in 2018-19.

8g	Survival rate	80%	80%	-
8h	Water sprinkling on roads to control airborne dust	Proposed	Water sprinkling is done on haul roads to prevent airborne dust.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Afforestation has been done both with in and outside ML area to improve the aesthetic beauty around 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	Monthly and Annual returns submitted.	-	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	M. Vitttoba Rao-Manager Mines, K. Naga Raju - Geologist	Appointed	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	12.981 Ha.	13.72 Ha.	-
9d	Scrutiny of Annual return on afforestation	340 nos	340 nos	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	11413 tonnes Fe%-35%	-	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	-	-	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	-	-	-

9h	Scrutiny of Annual return on fixed assets	-	-	-
9k	Scrutiny of Annual return on mining machineries	-	-	-

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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

**Date :**

(S K MUDULI)

Indian Bureau of Mines