

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

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/VZNR/MN-123/HYD

Mine code : 40APR20069

- (i) Name of the Inspecting : **RK13**) **A.V.Ramesh Kumar**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri Satya Rao, Manager(Mines)
Official with
Designation
- (iv) Date of Inspection : 30/07/2016
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SHIVA SHANKAR**
- (b) **Registration NO.** :
- (c) **Category** : B Manual
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : VIZIANAGARAM
- Village :
- Taluka :
- Post office :
- Pin Code :
- FAX No. :
- E-mail : info.bjr@goelgroup.co.in
- Phone : 0771-4288019
- (f) **Police Station** :
- (g) **First opening date** : 01/04/2008
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : S.K.GOYAL, DIRECTOR, SRI BAJARANG POWER & ISPATH
LTD, BORJHARA VILLAGE, URLA, GUMMA ROAD,
RAPUR, CHATTISGARH.
3. (a) **Lease Number** :
- (b) **Lease area** :
- (c) **Period of lease** :
- (d) **Date of Expiry** :
4. **Mineral worked** : MANGANESE ORE Main

5. Name and Address of the

Lessee : S.NARAYANA RAJU
VANGAPALLIPETA
CHEEPURUPALLI(M)
VIZAINAGARAM DIST
VIZIANAGARAM ANDHRA PRADESH
Phone:9589522-3112
FAX :

Owner : S.K.GOYAL
M/S SRI BAJARANG POWER &
ISPATLTD, BORJHARA VILLAGE,
URLA. GUMMA ROAD, RAIPUR,
CHATTISGARH. RAIGARH MADHYA
PRADESH
Phone:
FAX :

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 03/06/2015
Plan/Scheme of Mining

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	It is proposed to carry out 05 boreholes during the year 2015-16.	The lessee has carried out 05 boreholes during the year 2015-16.	None
1b	Exploration over lease area for geological axis 1 or 2	The total area covered is not mentioned in the approved document.	The total area covered under the boreholes carried out is 0.15 ha	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No information is there in the approved document	It was informed by the lessee that they have incurred an expenditure of about three lakh rupees for the said purpose.	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	It is proposed to carry out 05 boreholes in the lease area	After thye exploration carried out by the lessee, only an area of 05 ha remains to be covered under exploration.	None
1e	Balance reserve as on 01/04/20	The reserves as per the document approved in November 2015 are 111-46911 tonnes 122-13286 tonnes 221-50811 tonnes 222-7770 tonnes	The reserves as on 1.4.2016 are 42021 tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	None	None	None

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	It is proposed to carry out mining operations in the two pits made on South West side of the lease.	It is observed that the development is being carried out as proposed.	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	it is proposed to have 04 benches in OB and 03 benches in Ore.	It is observed that the benches are made as per the proposal.	None
2c	Stripping ratio or ore to OB ratio	it is proposed to have a stripping ratio of 1:1.66	It is observed that a stripping ratio of 1:1.016 is being maintained.	None
2d	Quantity of topsoil generation in m3	No topsoil is proposed to be generated during 2015-16.	It is observed that no topsoil was generated during the year 2015-16	None
2e	Quantity of overburden generation in m3	It is proposed to generate 8866 tonnes of overburden during the year 2015-16.	It is noticed that a total of 4900 tonnes of overburden was generated during the year 2015-16.	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	None	None	None

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It was proposed to produce from two pits	It was noticed that production from two pits.	None
3b	Quantity of ROM mineral production proposed	It was proposed to produce 7488 tonnes during 2015-16.	it was reported that 4980 tonnes was produced during 2015-16.	None
3c	Recovery of sailable/usable mineral from ROM production	None	None	None

3d	Quantity of mineral reject generation	None	None	None
3e	Grade of mineral rejects generation and threshold value declared.	None	None	None
3f	Quantity of sub grade mineral generation.	None	None	None
3g	Grade of sub grade mineral generation	None	None	None
3h	Manual / Mechanised method adopted for segregating from ROM	A other than Fully mechanised	A other than fully mechanised category	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	None
3j	Provision of drilling and blasting in mineral benches	None	None	None
3k	Provision of mining machineries in mineral benches	it is proosed to use one Excavator,03 tippers and a water tanker	it was noticed that the machinery as proposed is being used in the mine.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It is proposed 3-4 meters of bench height.	it is noticed that bench height is 3-4 meters height.	None
3m	Total area covered under excavation/pits	it is proposed to cover 1.38 ha under pits	it is noticed that an area of 1.45 ha is under pits	None
3n	Ore to OB ratio for the pit/mine during the year.	1:1.16	1:1.01	None
3o	Total area put in use under different heads at the end of year	3.67 ha	3.67 ha	None

3p	Production of ROM mineral during the last five year period as applicable	2011-12-4387 tonnes 2012-13-5062 tonnes 2013-14-3861 tonnes 2014-15-5197 tonnes 2015-16-7488 tonnes	2011-12-Nil 2012-13-2700 tonnes 2013-14-3860 tonnes 2014-15-5193 tonnes 2015-16-4980 tonnes	None
3q	General remarks of inspecting officers on method of mining etc.	None	None	None

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)			
4b	Location of topsoil, OB and mineral reject dumps	it is proposed to dump the waste generated on the existing dump situated on the Northern side of the lease.	It is observed that the waste generated is dumped on the place as proposed in the approved document.i.e. on the N-E part of the lease.	None
4c	Number of dumps within lease area and outside of lease area	One dump was proposed	One dump as proposed was noticed.	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	it is proposed to dump on N-E to N-W side of the lease.	It is observed that the waste generated is dumped on the location as proposed.	None
4e	Number of active and alive dumps.	One dump	One dump is observed in the lease.	None
4f	Number of dead dumps.	None	None	None
4g	Number of dumps established.	One dump is proposed	One dump os observed.	None
4h	Whether Retaining wall or garland drain all along dumps are there.	One retaining wall was proposed	it is noticed that one retaining wall was made.	None
4i	Length of Retaining wall or garland drain all along dumps	312x0.5x1m	300x0.8x1m	None

4j	Number of settling ponds	None	None	None
4k	Specific comments of inspecting officer on waste dump management	None	None	None

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.	It is proposed to backfill 0.387 ha by way of reclamation	It was observed 0.298 ha byway of reclamation	None
5b	Area under backfilling of mined out area	0.387 ha	0.298 ha	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No propoal for generation of topsoil.	No generation of topsoil was noticed in the lease.	None
5d	Total area fully reclaimed and rehabilitated	0.387 ha	0.298 ha	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None

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).	It was proposed to submit Annual report on PMCP for 2015-16.	The Annual report was not submitted for the year 2015-16,However, a violation was issued for the same and the lessee has complied by submitting the report.	None

6b	Area available for rehabilitation (ha) .	There is no proposal for any rehabilitation during the year 2015-16	It was observed that no area has matured for reclamation or rehabilitation during the year 2015-16.	None
6c	afforestation done (ha).	it is proposed to plant 550 saplings.	A cumulative plantation of 460 plants has been done by lessee.	None
6d	No. of saplings planted during the year	It is proposed to plant 550 plants during 2015-16.	It was observed that 200 plants were planted.	None
6e	Cumulative no .of plants	None	A cumulative plantation of 460 plants has been carried out	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	None	No expenditure for watch and ward has been reported by the lessee.	None
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	None	None	None
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on on backfilled area	None	None	None
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	It was proposed to reclaim 0.387 ha by way of reclamation	it was reported that 0.298 ha has been reclaimed during the year 2015-16.	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	None	None	None
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None	None

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The ROM reported was 4980 tonnes	The ROM generated was within the proposals made in the approved document.	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	It was proposed to produce 7488 tonnes of manganese ore duirng the year 2015-16.	It was reported that 2730 tonnes of ROM below 25%MN grade and 2250 tonnes of ROM between 25-35% MN was produced.	None

7c	Different grade of mineral sorted out at mines.	No sorting or beneficiation was proposed in the mine	it was noticed that no sorting or beneficiation was carried out in the mine	None
7d	Any beneficiation process at mines .	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil was reported to be generated during the year 2015-16.	It was noticed that no topsoil was generated duiing the year 2015-16.	None
8b	Concurrent use or storage of topsoil	None	None	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	A total of 4900 tonnes of overburden was removed.	It was proposed to generate 8866 tonnes of overburden.However it iwas reported to generate 4900 tonnes.	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	The overburden generated is being used for backfilling.	it was noticed that the quantity of the overburden generated is being used for backfilling.	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	It was reported that 0.20 ha was rehabilitated during the year 2015-16	it was noticed that the above reported area has been rehabilitated duiing the year 2015-16	None

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	it was reported to be planted 200 plants during the year 2015-16.	it was observed that 200 plants have been planted during the year 2015-16	nONE
8g	Survival rate	No survival rate of plantation was mentioned in the Annual return	it was observed that the average survival rate is around 75%	None
8h	Water sprinkling on roads to control airborne dust	It was proposed to control dust pollution by sprinkling of water.	All the measures for controlling of the dust/air pollution are being taken.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	None	None	None

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	The ROM reported in the Annual return is 4980 tonnes.	The Production proposed is 7488 tonnes.	There is no significant deviation in the production.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	A full time Geologist was reported to be employed	It was noticed that a Geologist was employed	None
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	It is reported that total lease area is 3.95 ha.Out of that 1.1. ha is under mine workings.	it is observed that the 1.1 ha reported in the Annual return has been noticed in the Mining lease.	None
9d	Scrutiny of Annual return on afforestation	It was reported that 200 trees have been planted	It was noticed during the inspection that the reported plantation has been carried out.	None

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No Mineral reject was reported to be generated.	It was observed that no Mineral reject was generated.	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Total ROM was reported to 4980 tonnes	The reported ROM is within the proposed production level.	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price was reported to be Rs.1220/- .The Cost of production was reported to be Rs.1200/-	It was noted that the cost of production and ex-mine price was in order.	None
9h	Scrutiny of Annual return on fixed assets	It was reported that the fixed assets are worth Rs.163805/-	Scrutiny of the fixed assets could not be carried out.	None
9k	Scrutiny of Annual return on mining machineries	It was reported that two tippers of 2 Cum capacity are in use.	It was observed that the machinery reported was in use.	None

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 23E(2)	26/08/2016	12/09/2016			

Date :
(A.V.Ramesh Kumar)

Indian Bureau of Mines