

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/KSN/LST-17/HYD

Mine code : 38APR10010

- (i) Name of the Inspecting : **S41**) **Y M SIVA PRASAD**
Officer and ID No.
- (ii) Designation : Assistant Mining Engineer
- (iii) Accompanying mine : Shri Vijay Kumar, MinesManager.
Official with
Designation
- (iv) Date of Inspection : 11/01/2019
- (v) Prev.inspection date : 06/03/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAGGAYYAPETA**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KRISHNA
- Village : BUDDAWADA
- Taluka : JAGGAYYAPETA
- Post office : LIMESTONE TOWNSHIP
- Pin Code : 521175
- FAX No. : 08652- 222358
- E-mail : vspjlm@yahoo.co.in
- Phone : 08652-222358, 222373
- (f) Police Station : jaggayyapet
- (g) First opening date : 23/03/1989
- (h) Weekly day of rest : SUN
2. Address for : RINL LIMESTONE MINE
correspondance : JAGGAYYAPET
KRISHNA DIST.
3. (a) Lease Number : APR0199
- (b) Lease area : 1295
- (c) Period of lease : 20
- (d) Date of Expiry : 08/08/2020
4. Mineral worked : LIMESTONE Main

5. Name and Address of the

Lessee : RASHTRIYA ISPAT NIGAM LTD.
 VISAKHAPATNAM STEEL PLANT
 VISAKHAPATNAM
 VISAKHAPATNAM ANDHRA
 PRADESH
 Phone:0891-
 FAX :0891-

Owner : UMESH CHANDRA
 ADMN BUILDING,RINL/VSP.
 VISAKHAPATNAM ANDHRA
 PRADESH
 Phone:
 FAX : dir.opr@vizagst

Agent : SRI C N S SASTRY
 JAGGAYYAPETA LIMESTONE MINE
 RINL, VSP, BUDAWADA VILL.
 JAGGAYYAPET TQ KRISHNA
 ANDHRA PRADESH
 Phone:
 FAX : 0854 222358

Mining Engineer

Name : SRI C N S SASTRY,Full Time
 Qualification : B.E.(Mines)
 Appointment/ : 12/04/2007
 Termination date

Manager

Name : VIJAY KUMAR
 Qualification : B.SC ENGG & FCC
 Appointment/ : 31/03/2009
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	30/11/2001
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	16/05/2005
		Modif.approved Mining Scheme	06/07/2006
		Mining Scheme rule 12 MCDR1988	19/10/2010
		Mining Scheme rule 12 MCDR1988	21/10/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	2016-17=15 Core bore holes. 2017-18= 15 Core bore holes. Total exploration proposed in scheme period including backlog of prre scheme pewriod(2015-16 to 2019-20) till 2016-17 is 26 +30=56.	Exploration by means of 83 core bore holes have been under tacken along with 25 DTH.	
1b	Exploration over lease area for geological axis 1 or 2		G1 AXIS about 147 ha. G2 AXIS about 1148 ha.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year		M/s Maap Drilling and Exp;loration Pvt Ltd.. Rs. 72,52,200/- as per work order.	
1e	Balance reserve as on 01/04/20		As on 11.01.2019 =32.48 Million Tonnes.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit- 1: E2748502 to E2749091 & N 679270 to N679950 Pit-2 : E2749099 TO E2749934 & N 679710 to N680258.	E2749099 TO E2749934 & N 679710 to N680258. in Pit no. 2 as proposed in the Scheme .	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Proposals	There is no generation of top soil and over burden.	
2c	Stripping ratio or ore to OB ratio	1: 0	1: 0	

2d	Quantity of topsoil generation in m3	N I L	N I L
2e	Quantity of overburden generation in m3	N I L	N I L

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits.	Production produced from Pit no.:2	
3b	Quantity of ROM mineral production proposed	7,80,000. tonnes	2017-18 = 3,42,108 tonnes. 2,32,000 tonnes(April 2018 to Dec.2019)	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	No proposals	N I L	
3e	Grade of mineral rejects generation and threshold value declared.	N I L	N I L	
3f	Quantity of sub grade mineral generation.	N I L	N I L	
3g	Grade of sub grade mineral generation	N I L	N I L	
3h	Manual / Mechanised method adopted for segregating from ROM	Total ROM is utilised.	Yes.Enyire ROM is being utilised.	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposals	N I L	
3j	Provision of drilling and blasting in mineral benches	Proposed.	Deep hole drilling and blasting is carried out in the benches.	

3k	Provision of mining machineries in mineral benches	Propopsed.	Shovel 1.no. with bucket capacity of 4.6 cu.meter. Dumpers. 05 no's. 35 tonnes capacity. Drilling Machine 01.no. dia of bit is 115 mm.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 meters bench height.	Yes. It is suitable for method of mining as proposed in the Scheme of Mining. approved.
3m	Total area covered under excavation/pits	Area put to use at end of scheme period is 54.40 ha.	Area under pit as on 01/01/2019 is 38.8600 ha.
3o	Total area put in use under different heads at the end of year	Excavation : 50.40 ha. Storage : 7.20 ha. Infrastructre : 15.52 ha. Railways : 4.60 ha. Mineral seperation plant : 1.82 ha. Township arae : 21.00 & magazine : 1.05 ha.	Area degraded is within approved proposals.
3p	Production of ROM mineral during the last five year period as applicable	2013-14=780000 2014-15 = 780000 2015-16 = 780000 2016-17= 780,000 T. 2017-18 = 780000 tonnes.	2013-14= 401807 tonnes 2014-15=344402 tonnes 2015-16=354746 tonnes 2016-17= 348102 tonnes 2017-18= 342108 tonnes April 2018 to Dec.2019 =2,32,000 tonnes.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)		Does not arise.	

4b	Location of topsoil, OB and mineral reject dumps	No proposals.	Old waste dump is observed.
4c	Number of dumps within lease area and outside of lease area	No proposals.	One old waste dump is there.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposals	N I L
4e	Number of active and alive dumps.	No proposals.	1 dead dump (sillicious fines)
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposals	N I L
4i	Length of Retaining wall or garland drain all along dumps	Not applicable	N I L
4j	Number of settling ponds	N I L.	N I L.

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.		Area is not mature for backfilling	
5b	Area under backfilling of mined out area	N I L	N I L	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposals	There is no top soil.	
5d	Total area fully reclaimed and rehabilitated	N I L	N I L	N I L

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).	Lessee has to submit annual report as per statute.	Lessee has submitted annual report for the year 2017-18 to this office.	
6b	Area available for rehabilitation (ha) .	No proposals	N I L	
6c	afforestation done (ha).	No proposals	Not applicable for rehabilitation purpose.	
6d	No. of saplings planted during the year	No proposals.	Not applicable for rehabilitation purpose.	
6e	Cumulative no .of plants	No proposals	N I L.,area is not matured rehabilitation purpose.	
6f	Any other method of rehabilitation	-----	-----	
6g	Cost incurred on watch and care during the year	-----	-----	As for green belt developed Rs.804999 has been reported to be spent towards watering and maintenance during last two years.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	-----	Not applicable as area is not matured for rehabilitation by backfilling purpose.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	-----	N I L	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	-----	Not applicable as area is not matured for rehabilitation by backfilling purpose.	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	-----	Not applicable as area is not matured for rehabilitation by backfilling purpose.	
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	-----	-----	
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	-----	There is no waste land in the lease.	However as part of green belt development, lessee had proposed to undertake plantation at the rate of 1000 saplings per hectare 2016-17 and 2017-18. Against the same 5500 saplings have been planted over about 5.5 hectares area.
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)		No waste land.	However as part of green belt development, lessee had proposed to undertake plantation at the rate of 1000 saplings per hectare 2016-17 and 2017-18. Against the same 5500 saplings have been planted over about 5.5 hectares area.
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation			
6p	Compliance of environmental monitoring (core zone and buffer zone)		Monitoring was not made available.	

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		Entire mineral is despatched without sorting after size reduction. 2016-17 = 347135 T. 2017-18 =	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.		Not applicable, as entire ROM is consumed.	
7c	Different grade of mineral sorted out at mines.	----	-----	
7d	Any beneficiation process at mines	-----	No benefeciation process. Only size reduction is done.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	-----	There is no top soil or over burden.	
8b	Concurrent use or storage of topsoil	-----	There is no top soil or over burden.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	-----	There is no top soil or over burden. However an old fines dump is there in lease.	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	-----	Mine is not matured for the purpose of restoring the land to its original use. However it is not possible either due to inadequate matereial for backfilling.	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	-----	Not applicable as the mine is not matured for the purpose.	

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	-----	1,48,370 saplings over an 93.40 hectares till 2016-17 and additional 5500 saplings over 5.5 ha in 2017-18.
8g	Survival rate		80%
8h	Water sprinkling on roads to control airborne dust	Proposed	Permanent water sprinkling system has been provided on haul road and water tanker is there for the mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Lessee has to submit monthly returns and annual returns to this office as per statute.	Lessee is submitting monthly and annual returns through On-line.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer = Sri C.N.S. Sastry, Full TIME. Manager = Vijay Kumar (Sr.Manager (Mines). Geologist = Y.Ramesh Kumar. Dy.Manager (Geology)	Mining Engineer = Sri C.N.S. Sastry, Full TIME. Manager = Vijay Kumar (Sr.Manager (Mines) Geologist = Y.Ramesh Kumar. Dy.Manager (Geology)	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern reported : 1) Covered u/r current workings= 38.860 ha. 2)Used for waste disposal = 7.200ha. 3)Plant,building resicntial, Welfare buildings & roads= 44.490 ha.	Land use pattern reported : 1) Covered u/r current workings= 38.860 ha. 2)Used for waste disposal = 7.200ha. 3)Plant,building resicntial, Welfare buildings & roads= 44.490 ha.	

9d	Scrutiny of Annual return on afforestation	1000 saplings within ML area.	5500 saplings during the years 2016-17 and 2017-18.within Mining lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No proposals	N I L
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Production- 342108 T.Entire ROM is consumed.	It is observed that entire ROM production 342108 T is consumed.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	---	Cost of production Rs.752.18 /- for the graded mineral.
9h	Scrutiny of Annual return on fixed assets	-----	-----

9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 4.500 CUM 1 Non Electrical Opencast SHOVEL (HYDRAULIC) 3.200 CUM 1 Non Electrical Opencast FRONT END LOADER 4.800 CUM 1 Non Electrical Opencast DUMPER 35.000 TONNE 5 Non Electrical Opencast ROCKER SHOVEL LOADER 0.900 CUM 1 Non Electrical Opencast BLAST HOST DRILL 115.000 MM 2 Non Electrical Opencast DOZER 320.000 HP 1 Non Electrical Opencast PUMPS (ELEC.) 2207.000 L/MN 7 Electrical Opencast CONVEYOR (ELEC.) 280.000 T/H 8 Electrical Opencast CRANE 25.000 TONNE 1 Electrical Open	SHOVEL (HYDRAULIC) 4.500 CUM 1 Non Electrical Opencast SHOVEL (HYDRAULIC) 3.200 CUM 1 Non Electrical Opencast FRONT END LOADER 4.800 CUM 1 Non Electrical Opencast DUMPER 35.000 TONNE 5 Non Electrical Opencast ROCKER SHOVEL LOADER 0.900 CUM 1 Non Electrical Opencast BLAST HOST DRILL 115.000 MM 2 Non Electrical Opencast DOZER 320.000 HP 1 Non Electrical Opencast PUMPS (ELEC.) 2207.000 L/MN 7 Electrical Opencast CONVEYOR (ELEC.) 280.000 T/H 8 Electrical Opencast CRANE 25.000 TONNE 1 Electrical Open
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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 :

(Y M SIVA PRASAD)

Indian Bureau of Mines