

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

D60

MCDR inspection REPORT

Hyderabad regional office

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

Mine code : 38APR10010

- (i) Name of the Inspecting : **RAM**) **RAMKISHAN R**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri B.U.V.N. Raju, Agent Shri K Kiran Kumar Singh, M
Official with
Designation
- (iv) Date of Inspection : 04-JAN-23
- (v) Prev.inspection date : 01-SEP-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JAGGAYYAPETA**
- (b) **Registration NO.** : **IBM/1071/2011**
- (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-MAR-89**
- (h) **Weekly day of rest** : **SUN**
2. **Address for correspondance** : **RINL LIMESTONE MINE**
JAGGAYYAPET
KRISHNA DIST.
3. (a) **Lease Number** : **APR0199**
- (b) **Lease area** : **1295**
- (c) **Period of lease** : **50**
- (d) **Date of Expiry** : **07-AUG-30**
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 : Ajit Kumar Saxena
 RINL/VSP VISAKHAPATNAM
 VISAKHAPATNAM ANDHRA
 PRADESH
 Phone:
 FAX :

Agent : B U V N Raju
 BUDAWADA VILLAGE
 JAGGAYYAPETA MANDAL KRISHNA
 DIST KRISHNA ANDHRA PRADESH
 Phone:
 FAX :

Mining Engineer
 Name : Krishna Kumar Dhruw, Full Time
 Qualification : B TECH MINING
 Appointment/ : 14-SEP-19
 Termination date

Manager
 Name : VIJAY KUMAR
 Qualification : B.SC ENGG & FCC
 Appointment/ : 31-MAR-09
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	30-NOV-01
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	16-MAY-05
		Modif.approved Mining Scheme	06-JUL-06
		Mining Scheme rule 12 MCDR1988	19-OCT-10
		Mining Scheme rule 12 MCDR1988	21-OCT-15
		MP review under 17(1) MCR 2016	31-MAR-20
		MP review under 17(1) MCR 2016	28-MAY-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No such specific proposal.	Nil	
1b	Exploration over lease area for geological axis 1 or 2	10 nos of boreholes were proposed during the year 2020-21 & 2021-22.	Nil	lessee allowed as per thier request to complete the exploration proposal for the year by 2024-25.
1c	Exploration Agencies and Expenditure in lakh rupees during the year		Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	lessee has proposed boreholes to brought area under G1/G2 level in the approved mining plan.	Nil	
1e	Balance reserve as on 01/04/20	As per the approved document dated 28-5-2020, the Limestone reserves are 328.93 mil.t	due to depletion/addition over the period of time the updated reserves as on dated 01.04.2022 are limestone: 328 milt.t.	
1f	General remarks of inspecting officers on geology, exploration etc		The Jaggayyapeta limestone form a part of the Narji Limestone unit belonging to the Jammalamadugu sub-group of the kunrool group. Limestone is predominantly grey in clolour but shades of white, yellow. limestone is massive, hard copmact with conccoidal fracture. the type of depsoit is bedded stratiform and tabular desoposits of regular habit.	

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	two pits are proposed for development during the year 2021-22.	one pit is being developed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal as no generation of top soil and OB envisaged.	Nil	
2c	Stripping ratio or ore to OB ratio	Not applicable	Nil	
2d	Quantity of topsoil generation in m3	No Proposal.	Nil	
2e	Quantity of overburden generation in m3	No Proposal.	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		development is carried out by opencast mining method as proposed.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two	one	
3b	Quantity of ROM mineral production proposed	0.78 mil.t. during the year 2021-22.	0.3 mil.t.	deviation is due to requirement of the captive steel plant
3c	Recovery of sailable/usable mineral from ROM production	0.78 mil.t.	0.3 mil.t.	

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.	Nil
3g	Grade of sub grade mineral generation	No proposal.	Nil
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.	No proposal.	Nil
3j	Provision of drilling and blasting in mineral benches	drilling and blasting is proposed.	drilling & blasting is carried out.
3k	Provision of mining machineries in mineral benches	excavator and dumper combination is proposed for excavation.	excavator and dumper combination is deployed for excavation.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	9 m	maintained.
3m	Total area covered under excavation/pits	51.2 ha at the end of plan period i.e. 2024-25	42.96 ha
3n	Ore to OB ratio for the pit/mine during the year.	Not applicable	Nil

3o	Total area put in use under different heads at the end of year	109.14 ha at the end of plan period i.e. 2024-25.	94.15 ha
3p	Production of ROM mineral during the last five year period as applicable	2017-18: 0.78 mil.t. 2018-19: 0.78 mil.t. 2019-20: 0.78 mil.t. 2020-21: 0.78 mil.t. 2021-22: 0.78 mil.t.	2017-18: 0.34 mil.t. 2018-19: 0.31 mil.t. 2019-20: 0.28 mil.t. 2020-21: 0.23 mil.t. 2021-22: 0.30 mil.t.
3q	General remarks of inspecting officers on method of mining etc.		production is carried out by opencast mining method as proposed.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal as no generation of top soil, OB and mineral reject is envisaged.	Nil	
4b	Location of topsoil, OB and mineral reject dumps	No Proposal.	Nil	
4c	Number of dumps within lease area and outside of lease area	No proposal.	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No proposal.	Nil	
4e	Number of active and alive dumps.	No proposal.	Nil	
4f	Number of dead dumps.	No proposal.	Nil	

4g	Number of dumps established.	No Proposal.	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal.	Nil
4i	Length of Retaining wall or garland drain all along dumps	No proposal.	Nil
4j	Number of settling ponds	No proposal.	Nil
4k	Specific comments of inspecting officer on waste dump management		No OB/waste generation is envisaged.

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.	Area not matured for reclamation.	
5b	Area under backfilling of mined out area	No proposal.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal.	Nil	
5d	Total area fully reclaimed and rehabilitated	No proposal.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.		Area not matured for reclamation.	

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).	PMCP report to submitted. submitted before 1 st July.		
6b	Area available for rehabilitation (ha) .	No proposal.	Nil	
6c	afforestation done (ha).	0.8 ha during the year 2020-21.	Nil	in the year 2020-21 2.42 ha plantation was carried out which includes the proposed plantation area of year 2021-22.
6d	No. of saplings planted during the year	1200 saplings	Nil	in the year 2020-21 3793 nos of saplings plantation was carried out which includes the proposed saplings plantation of 1200 nos during the year 2021-22.
6e	Cumulative no .of plants		157663 nos	
6f	Any other method of rehabilitation	No proposal.	Nil	
6g	Cost incurred on watch and care during the year		Not assessed.	
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 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.
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)	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB.	Periodical Monitoring as stipulated in Environment Clearance granted by MoEF & CC and Consent to Operate granted by SPCB is carried out.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		PMCP measures were carried out as proposed.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposed.	carried out.	entire ROM (Limestone) of BF grade is used in the captive steel plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	mechanical.	mechanical.	
7c	Different grade of mineral sorted out at mines.	BF grade limestone.	BF grade limestone.	
7d	Any beneficiation process at mines .	No proposal.	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		entire ROM (Limestone) of BF grade is used in the captive steel plant.	

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal as no generation of top soil is envisaged.	Nil	
8b	Concurrent use or storage of topsoil	No proposal.	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal.	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal.	Nil	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		Nil	
8g	Survival rate		70%	
8h	Water sprinkling on roads to control airborne dust	water sprinkling on haul raods for dust supression is proposed.	carried out	

8i General remarks of inspecting officer on aesthetic beauty in and around mines area

aesthetic beauty in and around the mines area is maintained.

Compliance of Rule 45:

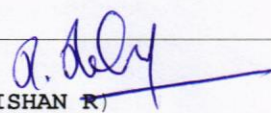
Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and annual returns are to be submitted as per rule 45 of MCDR, 2017	submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	(i) Graduate Mining Engineer 4, (ii) Geologist 1	found to be in order.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	(i) Covered under current (O/C) Workings 42.960 ha, (ii) Used for waste disposal 7.200 ha, (ii) Occupied by plant, buildings, residential, welfare buildings & roads 43.990 ha etc.,	found to be in order.	
9d	Scrutiny of Annual return on afforestation	Nil	Nil	
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 closing stock is Nil	found to be in order.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-Mine price is Rs. 1079.7	Ex-Mine price furnished in the annual return submitted for the year 2021-22 is not matching with the derived weighted average of the Ex-mine prices furnished in Monthly returns for the year 2021-22.	advised the lessee to rectify the issue.
9h	Scrutiny of Annual return on fixed assets	Rs. 307396680	Rs. 307396680	
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC) 4.500 CUM 2, SHOVEL (HYDRAULIC) 3.200 CUM 1, FRONT END LOADER 4.800 CUM 1, DUMPER 35.000 TONNE 6 etc.,	found to be in order.	

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 31(4)	10-JAN-23			
MCDR17	Rule 34(1)	10-JAN-23			

Date : 01/2/23


(RAMKISHAN R)

Indian Bureau of Mines