

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/NLG/LST-7A/HYD

Mine code : 38APR14023

- (i) Name of the Inspecting : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : **Sri.N.Hariprasad Rao, DGM(Mines) & Sri. M. Ramakrishn**
Official with
Designation
- (iv) Date of Inspection : 26-MAY-23
- (v) Prev.inspection date : 26-NOV-22

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **SITAPURAM LEASE- II**
- (b) **Registration NO.** : **IBM/996/2011**
- (c) **Category** : **A Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **TELANGANA**
- District : **NALGONDA**
- Village : **DONDAPADU**
- Taluka : **KODAD**
- Post office : **DONDAPADU**
- Pin Code : **508246**
- FAX No. : **08683235229**
- E-mail : **n.harprasadrao@zcltd.com**
- Phone : **08683235333**
- (f) **Police Station** : **SITAPURAM**
- (g) **First opening date** : **10-MAR-93**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **SITAPURAM, DONDAPADU**
correspondance : **MELLACHERVU MANDAL**
: **NALGONDA DISTRICT-508246**
3. (a) **Lease Number** : **APR0068**
- (b) **Lease area** : **776.49**
- (c) **Period of lease** : **20**
- (d) **Date of Expiry** : **02-MAY-05**
4. **Mineral worked** : **LIMESTONE** Main

5. Name and Address of the

Lessee : ZUARI CEMENT
 HALL 10TH MAIN ROAD
 JEEVANBHEEMANAGAR BANGLORE
 URBAN KARNATAKA
 Phone:0805207610
 FAX :0805207622

Owner : VIMAL KUMAR JAIN
 ZUARI CEMENTS LIMITED THE
 PALM DRIVE, TOWER A FLAT
 NO.302, SECTOR 66, GURGAON.
 GURGAON HARYANA
 Phone:
 FAX :

Agent : G.GOPALA KRISHNA MURTHY
 SITAPURAM WORKS DONDAPADU
 SURYAPET DISTRICT NALGONDA
 TELANGANA
 Phone: 08683235107
 FAX :

Mining Engineer

Name : Ramesh Kumar, Full Time
 Qualification : B Tech Mining
 Appointment/ : 10-JUN-18
 Termination date

Geologist

Name : M.Ramakrishna Naidu, Full Time
 Qualification : Msc geology
 Appointment/ :
 Termination date

Manager

Name : N.HARIPRASAD RAO
 Qualification : BTECH MINING
 Appointment/ : 17-JUL-14
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	30-JUL-10
Plan/Scheme of Mining		Renewal under rule 24 MCR1960	13-SEP-13
		MP review under 17(1) MCR 2016	09-DEC-16
		MP modif under 17(3) MCR 2016	09-SEP-20
		MP review under 17(1) MCR 2016	11-JAN-22
		MP review under 17(1) MCR 2016	11-JAN-22

2a	Location of development w.r.t.lease area	N 1859900 to 1860100 E 394600 to 394800	Development was carried out within the proposed area.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No proposal for top soil and OB . Only mineral benches	Only mineral benches	
2c	Stripping ratio or ore to OB ratio	NIL	NIL, as there is 100 % recovery	
2d	Quantity of topsoil generation in m3	No Proposal	NIL	There is no generation of top soil as the mineral is occurring as outcrops
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	_____	_____	The development is being made as per the common boundary permission with the other lease obtained from DGMS

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	One pit	
3b	Quantity of ROM mineral production proposed	1,50,750 MT	NIL	There is no production during the year 2022-23. However, 16, 000 MT was dispatched from the stack lying in the pit. Violation letter issued for less production on 18.4.2023

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	NIL	
1b	Exploration over lease area for geological axis 1 or 2	NIL	NIL	Total mineralised area has been explored under G1 scale
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	NIL	NIL	
1e	Balance reserve as on 01/04/20	Proved-- 379.05 million tonnes Pre feasibility Mineral resource-- 178.09 milli.tonnes	Proved--379.05 million tonnes Pre feasibility Mineral resource--178.09 milli.tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	The ML area forms a part of Palnad basin comprising pre cambrian proterozoic data. Litho units belongs to the Jammalamadugu series of Kurnool district co relatable to Narji Limestone formation. The entire mineralised area has been explored under G1 scale

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In Overburden- -NIL In Mineral--8 m	Bench height is being maintained as 7-8 m	
3m	Total area covered under excavation/pits	9.91 m	8.765 m	
3n	Ore to OB ratio for the pit/mine during the year.	NIL	NIL	
3o	Total area put in use under different heads at the end of year	23.62 ha	21.31 ha	
3p	Production of ROM mineral during the last five year period as applicable	2018-19-- 594990 t, 2019- 20--594990 t, 2020-21-- 594990 t, 2021-22-- 30,000 t, 2022-23-- 150750 t	2018-19--3,33,101 t, 2019-20--NIL, 2020-21-- 7,650 t, 2021-22--NIL , 2022-23--NIL	Less production due to lack of demand from the plant.
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	Mining operations are being carried out by open cast method of mining by deploying HEMM. Common lease boundary permission with Lease -1 was obtained from DGMS.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	As there is no top soil and overburden, no proposal was made	NIL	

3c	Recovery of sailable/usable mineral from ROM production	100 %	100%
3d	Quantity of mineral reject generation	NIL	NIL
3e	Grade of mineral rejects generation and threshold value declared.	NIL	NIL
3f	Quantity of sub grade mineral generation.	NIL	NIL
3g	Grade of sub grade mineral generation	Not Applicable	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	NIL
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	Proposed to carry out drilling in the mineral benches by 115 mm dia and blasting by ANFO	The drilling and blasting is being carried out as proposed
3k	Provision of mining machineries in mineral benches	Shovel-01(2.8 m3) Dumpers--02 (30 T) Drill machine- -01	Shovel-01(2.8 m3) Dumpers--02 (30 T) Drill machine--01

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	_____	_____	As there is no generation of top soil, overburden no dumps were established in the lease area.

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	NIL	

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.	_____	_____	The area is not matured for backfilling and 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).	Yes, Annual report on PMCP compliance is to be submitted on or before 1.7.2023	To be submitted before the due date.	
6b	Area available for rehabilitation (ha) .	No Proposal	NIL	
6c	afforestation done (ha).	No Proposal	NIL	
6d	No. of saplings planted during the year	No Proposal	NIL	
6e	Cumulative no .of plants	No Proposal	NIL	
6f	Any other method of rehabilitation	No Proposal	NIL	
6g	Cost incurred on watch and care during the year	No Proposal	NIL	

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	1000 plants	1000 plants
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)	Quarterly monitoring of environmental parameters are to be undertaken in core and buffer zone	Quarterly monitoring of environmental parameters are being undertaken in core and buffer zone and the reports are submitted to IBM. Verified the test reports and found that the results are within the prescribed limits.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	The pit area is not matured for reclamation and rehabilitation activities

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No Proposal for grade wise sorting as total ROM is being dispatched to the crusher	Total ROM is being dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	NIL	
7c	Different grade of mineral sorted out at mines.	No proposal	NIL	
7d	Any beneficiation process at mines	No proposal	NIL	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No beneficiation is required as total ROM is dispatched to the crusher
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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 generation of top soil is anticipated as the mineral is occuring as outcrops
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	No Overburden, waste rock and rejects are generated. Hence there are no such dumps in the lease area.
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)	1000 plants	1000 plants	
8g	Survival rate	No proposal	83%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling is proposed on haul roads to control airborne dust by water tankers and sprinklers	Water sprinkling is being carried out as per the proposals.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____	Greenbelt development enhances the aesthetic beauty in and around the lease area

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns submitted up to May, 2023 Annual Return submitted up to FY: 2021-22	Monthly returns submitted up to May, 2023 Annual Return submitted up to FY: 2021-22	Annual Return for the year 2022-23 is yet to be submitted before 30.6.2023
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-- Sri.Ch.Ramesh Kumar, Geologist-- Sri. M. Ramakrishnanai du, Manager-- Sri.N. Hariprasad Rao	Found in order	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits--8.765 ha, reclaimed area--0, Dumps--0	Found in order
9d	Scrutiny of Annual return on afforestation	1000 plants	1000 plants verified from the afforestation Register
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 stock-- 24060 t	Verified and confirmed in the field
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production-- Rs.926.56/- Ex.Mine price- - Rs.926.56/-	Found in order
9h	Scrutiny of Annual return on fixed assets	Fixed assets-- 0	Found in order
9k	Scrutiny of Annual return on mining machineries	SHOVEL (HYDRAULIC)-2 .800 CUM--1 DUMPER-30.000 TONNE--2 ROCK DRILL (NON-ELEC.)- 115.000 MM-1	Found in order

Ch. Suresh
9/6/23

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