

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

MCDR inspection REPORT

Hyderabad regional office

Mine file No : AP/NLR/VR-23

Mine code : 62APR15015

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri. V.M Tickamchand Khimsura, Director & Sri.R.Shakt
Official with
Designation
- (iv) Date of Inspection : 21-JUN-23
- (v) Prev.inspection date : 15-MAR-17

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **DUGAR III**
- (b) **Registration NO.** :
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : NELLORE
Village : PALICHERLA
Taluka : GUDUR
Post office : PALICHERLA
Pin Code :
FAX No. :
E-mail :
Phone :
- (f) Police Station : GUDUR
- (g) First opening date : 12-NOV-89
- (h) Weekly day of rest : SUN
2. Address for : PALICHERLA (V), RAJUPALEM (PO)
correspondance : GUDURU (M)
NELLORE DISTRICT
3. (a) Lease Number : APR1024
(b) Lease area : 2.71
(c) Period of lease : 50
(d) Date of Expiry : 11-NOV-37
4. Mineral worked : VERMICULITE Main

5. Name and Address of the

Lessee : DUGAR INSULATIONS INDIA(P)LTD
 DUGAR TOWERS,123, MARSHALLS
 ROAD EGMORE,CHENNAI-8
 CHENNAI CITY TAMIL NADU
 Phone:
 FAX :

Owner : DUGAR INSULATIONS INDIA(P) LTD
 DUGAR TOWERS 123,MARSHALLS
 RD EGMORE,CHENNAI-8 CHENNAI
 CITY TAMIL NADU
 Phone:
 FAX :

Manager

Name : P.S.HARIBABU
 Qualification : DME
 Appointment/ : 20-FEB-06
 Termination date

6. Date of approval of Mining	:	Renewal under rule 24 MCR1960	01-FEB-08
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	05-FEB-15
		MP modif under 17(3) MCR 2016	20-APR-21

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposal	Nil	
1b	Exploration over lease area for geological axis 1 or 2	2021-22 - 02 core boreholes 2022-23 - 04 pits	No exploration work carried out. Violation pointed out as per rule.	
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	2021-22 - 02 core boreholes 2022-23 - 04 pits	As per the last approved MMP on 20.04.2021 , G1- 1.5 Ha & unexplored area is 1.207 Ha	
1e	Balance reserve as on 01/04/20	----	Proved Mineral Reserve is submitted as 3457Tonnes, whereas in the approved Modification of Mining Plan vide letter No. 659(562)/Ver/2007/NLR dated 20.04.2021, it is stated that proved mineral reserves is 4500Tonnes. Violation pointed out as per Rule for variation in Reserves and Resources.	
1f	General remarks of inspecting officers on geology, exploration etc			No exploration carried out as per proposal. Violation pointed out as per rule.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2021-22 & 2022-23: E 371100- E371150 to N1559675- N1559750	No workdone in the year 2021-22. Violation issued for not carrying out development work in the year 2021-22.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Seperated benches for overburden and mineral proposed	Overburden was dumped around the mining pit. Violation pointed out as per Rule.
2c	Stripping ratio or ore to OB ratio	2021-22 - 1:1.28 2022-23 - 1:1.49	OB generation record not maintained. Violation pointed out for not maintaining the records.
2d	Quantity of topsoil generation in m3	No proposal	Nil
2e	Quantity of overburden generation in m3	2021-22 - 608 cu.m 2022-23 - 1433 cu.m	OB generation record not maintained. Violation pointed out for not maintaining the records.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		No records maintained for generation and stacking of overburden. Violation pointed out as per Rule.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2021-22 - 952 Te 2022-23 - 964 Te	2021-22 - Nil 2022-23 - 1800 Te	
3c	Recovery of sailable/usable mineral from ROM production	50%	ROM excavation register not maintained and also recovery percentage not recorded. Violation pointed out as per Rule.	
3d	Quantity of mineral reject generation	2021-22 - 476 Te 2022-23 - 482 Te	Mineral rejection register not maintained. Violation pointed out as per Rule.	
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	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
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 proposed	Nil	
3k	Provision of mining machineries in mineral benches	Machinery proposed in the mineral benches	During inspection no machinery available in the mining area.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain bench height and width of 1.5 meters	Overburden were dumped adjacent to the mining pit. Violation pointed out as per Rule.	
3m	Total area covered under excavation/pits	Open pit - 0.32 Ha	Lease area utilisation submitted in the annual return were not matching with the field conditions. Plans and sections not updated as per statute. Violation pointed out as per Rule.	
3n	Ore to OB ratio for the pit/mine during the year.	2021-22 - 1:1.28 2022-23 - 1:1.49	OB generation record not maintained. Violation pointed out for not maintaining the records.	
3o	Total area put in use under different heads at the end of year	Open pit - 0.32 Ha Waste dump - 0.31 Ha Roads - 0.12 Ha	Lease area utilisation submitted in the annual return and digital aerial images were not matching with the field conditions. Violation pointed out as per Rule.	
3p	Production of ROM mineral during the last five year period as applicable	2018-19 - Nil 2019-20 - Nil 2020-21 - Nil 2021-22- 952 Te 2022-23 - 964 Te	2018-19 - Nil 2019-20 - Nil 2020-21 - Nil 2021-22- Nil 2022-23 - 900 Te	Violation pointed out for not carrying out production during the year 2021-22.

3q	General remarks of inspecting officers on method of mining etc.	Production not reported during the year 2021-22. Violation pointed out as per Rule.
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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)	Waste dump proposed	Nil. Violation pointed out for stacking overburden adjacent to the mining pit.	
4b	Location of topsoil, OB and mineral reject dumps	Waste dump proposed outside UPL	Not done	
4c	Number of dumps within lease area and outside of lease area	One dump proposed	Nil	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Nil	
4e	Number of active and alive dumps.	One active dump proposed	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.	2021-22: Retaining Wall - 35 meters Garland drain - 35 meters	Nil. Violation pointed out as per Rule.	
4i	Length of Retaining wall or garland drain all along dumps	2021-22: Retaining Wall - 35 meters Garland drain - 35 meters	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management			Dumps were not developed as per proposal. Waste material stacked around the mining pit.

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.			No area of the mine is excavated upto the ultimate pit limit to start backfilling.

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 yearly report before 1st July	Not submitted. Violation pointed out as per Rule.	
6b	Area available for rehabilitation (ha) .	No proposal	Nil	
6c	afforestation done (ha).	2021-22- Nil 2022-23 -0.72 Ha	Not carried out plantation as per proposal. Violation pointed out as per Rule.	
6d	No. of saplings planted during the year	2021-22 - Nil 2022-23 - 50 No.s	Not carried out plantation as per proposal. Violation pointed out as per Rule.	
6e	Cumulative no .of plants	No proposal	No records maintained for cumulative no. of saplings planted.	
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 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)	Environmental monitoring work to be carried out	Environmental monitoring work not carried out. Violation pointed out as per Rule.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental monitoring work not carried out. Violation pointed out as per Rule.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Sorting of waste and mineral proposed	Mineral and waste sorting done within the lease area.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Manual	Manual	
7c	Different grade of mineral sorted out at mines.	Grade wise sorting not done in mines	Grade wise sorting not done in mines	
7d	Any beneficiation process at mines	No proposal	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Mineral and waste sorted out in the mining lease area.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	No proposal	Nil
8b	Concurrent use or storage of topsoil	No proposal	Nil
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperated dump for overburden proposed	Overburden dumped around the mining pit. Vioaltion pointed out as per Rule.
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)	2021-22- Nil 2022-23 -0.72 Ha & 50 Nos.	Plantation not carried out. Violation pointed out as per Rule.
8g	Survival rate	No proposal	Nil
8h	Water sprinkling on roads to control airborne dust	Water sprinkling to be done to control dust	Water sprinkling done
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Plantation not done as per the proposal. Vegetation found in and around the mining lease area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
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9a	Status of submission of Monthly and Annual returns	Monthly return Submitted before 10th of every month and Annual return to be submitted before 1st July.	Monthly returns not submitted in time.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager - Sri. R. Shakthivelu Mining Engineer - Nil Geologist - Nil	Violation issued for not appointing Mining Engineer and Geologist as per statute.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Openpit - 1.3 Ha	The lease area utilization submitted in the annual returns are not matching with the field conditions. Violation pointed out as per Rule.
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	OS & CS - 1589 Te	Total ROM production details not submitted correctly and ROM register not maintained for verification.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Nil	Nil
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets reported as NIL.	Violation pointed out as per Rule.
9k	Scrutiny of Annual return on mining machineries	Machinery details not submitted.	Violation pointed out as per Rule.

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 :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines