

MCDR INSPECTION REPORT

S. N.	Particulars	Details
1	Name of the Mine	Durga Mineral corporation Vermiculite, Quartz Feldspar and Mica Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	7.183 Ha.
3	Minecode	49APR15046
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/6188/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Durga Mineral Corporation Prop. Smtt. G. Aruna H.No. 8/442, Puripalem, Ranganayakulapet, SPSR Nellore District, Andhra Pradesh State
6	Village	Jogipalli
7	Taluk/Mandal	Sydapuram
8	District	S.P.S.R. Nellore
9	Pincode	524407
10	State	Andhra Pradesh
11	Post office	Jogipalli
12	Nearest police station	Sydapuram
13	Nearest Railway station	Sydapuram
14	Date of Grant of Mining Lease	27/07/2001
15	Date of Execution	25/01/2002
16	Date of opening of Mine	25/01/2002
17	Date of first Renewal, if applicable and its period & expiry	N.A.
18	Date of second Renewal, if applicable and its period & expiry	N.A.
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not appointed. Mining operations are closed from last five years due to no Environment Clearance.
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not appointed. Mining operations are closed from last five years due to no Environment Clearance.
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Not appointed. Mining operations are closed from last five years due to no Environment Clearance.
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Not appointed. Mining operations are closed from last five years due to no Environment Clearance.
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Not appointed. Mining operations are closed from last five years due to no Environment Clearance.

25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	659(455)/Fels/2001/NLR dated 25/06/2001
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved vide letter no. APR/15028/MP/NLR dated 19/02/2022 dated 19/08/2022
27	Mineral(s) granted in lease and proved for mining	Vermiculite, Quartz, Feldspar & Mica
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Category B Manual
30	Captive/ Non captive	Non captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

1.0 Exploration

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
1a	Backlog of previous year	F.Y. 2022-23: 13 nos. of DTH boreholes with cumulative depth of 390.0 meters. and 09 nos. of Core boreholes with cumulative depth of 270.0 meters.	None of the boreholes have been drilled.	The Mining operations are closed from last five years due to no Environment Clearance.
1b	Exploration over lease area for Geological axis 1 or 2.	-do-	-do-	-do-
1c	Exploration Agency & Expenditure in lakh Rupees during the year	-do-	-do-	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	-do-	-do-	-do-
1e	Balance reserves as on 01.04.2024	As on 01/04/2024: Vermiculite Under (122): 57024.00 Tonnes Under (221): 67968.00 Tonnes	As on 01/04/2024: Vermiculite Under (122): 57024.00 Tonnes Under (221):	Grades: Vermiculite: SiO ₂ : 50.38% Fe ₂ O ₃ : 13.80% Al ₂ O ₃ : 14.58%

		<p>Under (333): 67968.00 Tonnes Quartz, Feldspar Under (122): 42144.00 Tonnes Quartz, Feldspar Under (211): 170850.00 Tonnes Under (333): 84225.00 Tonnes</p> <p>Mica Under (122): 24030.00 Tonnes Under (221): 36810.00 Tonnes Under (333): 22950.00 Tonnes</p>	<p>67968.00 Tonnes Under (333): 42144.00 Tonnes Quartz, Feldspar Under (122): 170850.00 Tonnes Under (211): 170850.00 Tonnes Under (333): 84225.00 Tonnes</p> <p>Mica Under (122): 24030.00 Tonnes Under (221): 36810.00 Tonnes Under (333): 22950.00 Tonnes</p>	<p>MgO: 7.66% Quartz & Feldspar: SiO₂: 99.58% Mica: SiO₂:46.40% Fe₂O₃: 2.75% Al₂O₃: 34.37% K₂O: 8.19%</p>
If	General remarks of inspecting officer on geology, exploration etc.	<p>The mining lease area is Mica, Quartz, Feldspar & Micaceous schist terrain. The mineralization of Mica, Vermiculite, Feldspar & Quartz is found in the form of two separate deposits in Micaceous Schist as county rock. Hence, the deposits have been marked as Pg-1. The mineralization of pegmatite (Mica, Quartz & Feldspar) are striking almost North 10 degrees West – South 10 degrees East in direction & dipping vertically. The mother rock Micaceous Schist are striking in the same direction as the mineralization of pegmatite. Therefore, the schist, pegmatite constitute main litho types of the complex. The major joint planes are parallel to the strike of the mineralization of pegmatite. The Mica & Vermiculite in the pegmatite shows mica-cleavage. The intercalations of Mica, Quartz & Feldspar in the pegmatite is a special character of the area, in which the percentage of recovery of constituents of pegmatite predominant role in evaluating the scope of the pegmatite (mineral) available in the area. The main ground geological succession of the area is as follows. Recent & Sub-Recent : Alluvium, Gravels & Soil Cover Pegmatite : Intrusive Body into Schist Upper Achaeans : Pegmatites, Quartz & Feldspar Mineralization Middle Achaeans : Schist Metamorphic Rocks Lower Achaeans : Igneous Rock</p>		

		Formation The main formations in this belt are of Achaean age. According to Sri B.C. Roy (GSI) the major rock types of the Nellore Schist belt have been stratigraphically grouped as below. Alluvium Cuddalore Sand Stone Rajmahal Plant Beds Granite – with associated veins of Pegmatite & Vermiculite Period of Diastrophism: Pre-Cambrian-Kandra Volcanics, Schistose Series Kandra Volcanic : The Kandra Volcanics are basically metamorphosed igneous consisting of staurolite, amphibolites, chlorite, kyanite, garnet and also epidorites and dolerites tuffs. In the region, the Kandra Volcanics are devoid of pegmatite.
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2.0 Development

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
2a	Location of development w.r.t. lease area	F.Y. 2023-24; In between UTM co-ordinates N1571455 to N1571585 & E362285 to E362335	No production and development have been done in the mine, due to no EC.	The Mining operations are closed from last five years due to no Environment Clearance.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Top soil: 01 no. OB: 01 no. Mineral/Ore: 02 nos.	Top soil: 01 no. OB: 01 no. Mineral/Ore: 02 nos.	-do-
2c	Stripping ratio or ore to OB ratio	1 : 4	Nil, as the mine is not operational from May 2018 years.	-do-
2d	Quantity of topsoil generation in m ³	200.0 CuM	-do-	-do-
2e	Quantity of overburden generation in m ³	440.00 CuM	-do-	-do-
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Mine is non operational w.e.f. May 2018.		

3.0 Exploitation

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
3a	Number of pits proposed for production	01 no.	Mine is non-operational w.e.f. May	The Mining operations are closed

			2018.	from last five years due to no Environment Clearance.
3b	Quantity of ROM mineral production proposed	F.Y. 2023-24: 19104.00 Tonnes	2023-24: Nil	-do-
3c	Recovery of salable/usable mineral from ROM production	60%	Nil.	-do-
3d	Quantity of mineral reject generation	7641.00 Tonnes	Nil.	-do-
3e	Grade of mineral reject generation and threshold value declared	Not mentioned in the approved document.	Nil.	-do-
3f	Quantity of sub-grade mineral generation	No proposal.	Nil.	-do-
3g	Grade of sub-grade mineral generation	No proposal.	Nil.	-do-
3h	Manual / Mechanised method adopted for segregating from ROM	Manual.	Nil.	-do-
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No proposal.	Nil.	-do-
3j	Provision of drilling & blasting in mineral benches	No proposal.	Nil.	-do-
3k	Provision of mining machineries in mineral benches	No proposal.	Nil.	-do-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	OB/Waste: 3.0 m Mineral: 6.0 m	OB/Waste: 3.0 m Mineral: 6.0 – 8.0 m	At places bench height not maintained.
3m	Total area covered under excavation/pits	Pit- 2.094 Ha.	Pit: 1.7 Ha.	The Mining operations are closed from last five years due to no Environment Clearance.
3n	Ore to OB ratio for the pit/mine during the year	1 : 4.0	Nil.	-do-
3o	Total area put in use under different heads at the end of year	Pit- 2.094 Ha. Dumps- 0.11 Ha. Others- 0.211 Ha.	Pit- 1.70 Ha. Dumps- 0.67 Ha.	-do-

		Up to end of F.Y.2023-24	Others- 0.10 Ha. Up to end of F.Y.2023-24	
3p	Production of ROM mineral during last five-year period, as applicable	Yr. 2022-23:13728.00 Tonnes Yr. 2023-24: 19104.00 Tonnes	Yr. 2022-23: Nil. Yr. 2023-24: Nil.	-do-
3q	General remarks of inspecting officer on method of mining etc.	Mine is non-operational w.e.f. May 2018 due to no environment clearance.		

4.0 Solid Waste Management-Dumping

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Proposal has been given in the approved document for separate dumping of OB in between UTM co-ordinates N1571400 to 1571435	Several dumps and stocks were observed within lease area.	The Mining operations are closed from last five years due to no Environment Clearance.
4b	Location of topsoil, OB & mineral reject dumps	OB: In between UTM co-ordinates N1571400 to 1571435	-do-	-do-
4c	Number of dumps within lease area and outside lease area	01 no.	-do-	-do-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed within UPL.	All the dumps and stocks are present within UPL.	-do-
4e	Number of active & alive dumps	01 no.	Mine is non-operational w.e.f. May 2018 due to no environment clearance.	-do-
4f	Number of dead dumps	No proposal.	Nil.	-do-
4g	Number of dumps stabilized	No proposal.	Nil.	-do-
4h	Whether Retaining wall or garland drain all along dumps are there	Proposal has been given in the approved document for construction of retaining wall and	Not constructed.	-do-

		garland drain along waste/ob dump.		
4i	Length of Retaining wall or garland drain all along dump	Retaining Wall: 10.0 Meters Garland Drain: 10.0 Meters	Not constructed.	-do-
4j	Number of settling ponds	No proposal.	Nil.	-do-
4k	Specific comments of inspecting officer on waste dump management.	Mine is non-operational w.e.f. May 2018 due to no environment clearance.		

5.0 Solid Waste Management-Backfilling

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Proposal has been given for backfilling over 0.02 Sq. Mt. area in Pit No. 1 and 0.06 Sq. Mt area in Pit no. 2.	Not done.	The Mining operations are closed from last five years due to no Environment Clearance.
5b	Area under backfilling of mined out area	Pit no. 1: 0.02 Sq. Mt. Pit no. 2: 0.06 Sq. Mt.	Not done.	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	200.0 CuM of generated topsoil will be utilized for the purpose of plantation.	Nil topsoil generated.	-do-
5d	Total area fully reclaimed & rehabilitated	0.003 Ha. area will be utilized for plantation of 30 nos. of saplings along the OB dump.	Not done.	-do-
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mine is non-operational w.e.f. May 2018 due to no environment clearance.		

6.0 Progressive Mine Closure Plan

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
6a	Whether Annual report on PMCP submitted on time	As per rule 26(2), lessee has to submit	Not submitted. The mine is non-	The Mining operations

	and correctly - Rule 23E(2). Details should be given in the format as given in Annexure-20.	the annual report before 1st day of July of every year.	operational w.e.f. May 2018 due to no environment clearance.	are closed from last five years due to no Environment Clearance.
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal.	Nil.	-do-
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means	No proposal.	Nil.	-do-
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	30 nos. 0.003 Ha. By plantation.	Not done.	-do-
6e	Compliance of Environmental monitoring (core zone & buffer zone)	No proposal.	Nil.	-do-
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Mine is non-operational w.e.f. May 2018 due to no environment clearance.		

7.0 Mineral Conservation

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM/Ore will be dispatched directly to the after manual sorting.	The mine is non-operational w.e.f. May 2018 due to no environment clearance.	The Mining operations are closed from last five years due to no Environment Clearance.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Manual sorting.	-do-	-do-
7c	Different grade of mineral sorted out at mines	No proposal.	Nil.	-do-
7d	Any beneficiation process at mines	No proposal.	Nil.	-do-
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The mine is non-operational w.e.f. May 2018 due to no environment clearance.		

8.0 Environment

S.N.	Item	Proposals F.Y. 2023-24	Actual work F.Y. 2023-24	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposal has been given in the approved document for separate removal and concurrent use of topsoil for the purpose of plantation.	The mine is non-operational w.e.f. May 2018 due to no environment clearance.	The Mining operations are closed from last five years due to no Environment Clearance.
8b	Concurrent use or storage of topsoil	200.00 CuM of generated topsoil will be utilized for the purpose of plantation.	-do-	-do-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Proposal has been given in the approved document for separate dumping of OB in between UTM co-ordinates N1571400 to	Several dumps and stocks were observed within lease area.	The Mining operations are closed from last five years due to no Environment Clearance.

		1571435		
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal.	Nil.	-do-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.003 Ha. area will be restored by plantation of 30 nos. of saplings along the OB dump.	Not done.	-do-
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	30 nos. of saplings will be planted over 0.003 Ha. area.	Not done.	-do-
8g	Survival rate	80%	Not done.	-do-
8h	Water sprinkling on roads to control airborne dust	No proposal.	Nil.	-do-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The mine is non-operational w.e.f. May 2018 due to no environment clearance.		

9.0 Compliance of Rule 45

S.N.	Item	COMMENTS	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to March 2024 A.R. submitted up to F.Y. 2023-24	Nil.

S.N.	Item	Details GIVEN in A.R. F.Y. 2023-24	Observation of I/Officer F.Y. 2023-24	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Not appointed. Mining Engineer: Not appointed. Geologist: Not appointed.	Manager: Not appointed. Mining Engineer: Not appointed. Geologist: Not appointed.	The mine is non-operational w.e.f. May 2018 due to no environment clearance.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- Nil. Dumps- Nil. Others- Nil.	Pit- 1.70 Ha. Dumps- 0.67 Ha. Others- 0.10 Ha. Up to end of F.Y.2023-24	-do-
9d	Scrutiny of Annual return on afforestation	Within lease area: Nil.	Within lease area: Nil.	-do-

		Outside lease area: Nil.	Outside lease area: Nil.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Mineral Reject: Nil. Grade: Nil.	Mineral Reject: Nil. Grade: Nil.	-do-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Closing Stock: Nil. Cement Grade Limestone Closing stock: Nil.	ROM Closing Stock: Nil. Cement Grade Limestone Closing stock: Nil.	-do-
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value: Nil. Ex-mine Price: Nil. Cost of Production: Nil.	Sale value: Nil. Ex-mine Price: Nil. Cost of Production: Nil.	-do-
9i	Scrutiny of Annual return on fixed assets	Nil.	Nil.	-do-
9k	Scrutiny of Annual return on mining machineries	Nil.	Nil.	-do-

Details of violations observed during current inspection and compliance position of earlier violation pointed out:

(Name of inspecting officer with designation and date)

Shaival Kartikeya
Senior Mining Geologist
Date of inspection: 24/04/2024