

## MCDR INSPECTION REPORT

**General**

S.No	Particulars	Details
1 (a)	Name of the Mine	Ambadungar Fluorspar Mine
1(b)	Name of Inspecting Officer & Designation	Shri Sanjaya Kumar Sahoo, Jr Mining Geologist
1(c)	Accompanying Mines Representatives	Nagendra Singh Rathore (Manager/Mining Engineer) & Nirav Patel (Geologist)
1(d)	Type of Inspection	Star Rating Inspection
1(e)	Date of Inspection	16-12-2024
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	63.2 hect., Forest Land
3	Mine Code	24GUJ18002
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/727/2011
5	Name of the lessee, Address, phone, email and fax number	Ambadungar Fluorspar Mine
6	Village	Ambadungar
7	Taluka/Mandal	Kawant
8	District	Chhota Udepur
9	Pin code	391175
10	State	Gujarat
11	Post office	Kawant
12	Nearest police station	Kawant
13	Nearest Railway station	Chhota Udepur
14	Date of Grant of Mining Lease	10-07-1964
15	Date of Execution	05-12-1964
16	Date of opening of Mine	05-12-1964
17	Date of first Renewal, if applicable and its period & expiry	05-12-184 to 04-12-1994
18	Date of second Renewal, if applicable and its period & expiry	05-12-1994 to 04-12-2004
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Earlier, two separate mining leases were approved in Ambadungar. By the order number- 102019 of the State Government, dated 09-09-2022, these two mining leases have been amalgamated. After amalgamation, the integrated mining lease is valid till 04-12-2044.
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri. Roopwant Singh, IAS Khanji Bhavan, 132ft Ring Road, Vastrapur, Ahmedabad 25-01-2023
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Praful Kumar Rastogi, BTech (Metallurgy), GMDC Ltd, Fluorspar Project- Kadipani, Mo: 8003690121, Email Id : psrastogi@gmdcltd.co.in 07-10-2023
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri Nagendra Singh Rathore, BE (Mining), GMDC Ltd, Fluorspar Project- Kadipani, Mo.8058998011, Email:

		ngrathore@gmdcltd.co.in, 24-07-2024
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Nagendra Singh Rathore, BE (Mining), Exp: 17 years GMDC Ltd, Fluorspar Project-Kadipani. Mo.8058998011,Email: ngrathore@gmdcltd.co.in, 24-07-2024
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Shri Nirav Patel (Geologist), GMDC Ltd, Fluorspar Project-Kadipani, Mo:9023730139, Email id : nspatel@gmdcltd.co.in 01-11-2024
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	MCDR-MPCP0CaFI/57/2023-GNR- IBM_RO_GNR MP-525, Dated 08-01-2024 FY 2024-25 to FY 2028-29
26	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	--
27	Mineral(s) granted in lease and proved for mining	Fluorspar
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	A, Full Mechanised (HEMM)
30	Captive/Non Captive	Non-Captive

**Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. -**

**1.0 Exploration**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
1a	Backlog of previous year	No Proposal	Not Applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	No Proposal	8 boreholes, 2435 meter	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	No Proposal	₹ 7305900	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No Proposal	8 boreholes, 2435 meter	48 Nos borehole with 4099 meter proposed in 2024-25 to 2028-29.
1e	Balance reserves as on 01.04.2024	UNFC Code: 111- 2521550 MT, 122-732830 MT		
1f	General remarks of inspecting officer on geology, exploration etc.	In FY 2023-24 exploration was not proposed, earlier GSI drilled 18, by CGM 24 nos and 74 Nos borehole drilled by GMDC		

**2.0 Development**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
2a	Location of development w.r.t. lease area	N2432736, E403083 to N2432770, E403094 Bench- 545mRL to 540 mRL	No Work	No development work.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	No Proposal	Not Applicable	
2c	Stripping ratio or ore to OB ratio	1:0	No Work	
2d	Quantity of topsoil generation in m3	No Proposal	Not Applicable	
2e	Quantity of overburden generation in m3	No Proposal	Not Applicable	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Due to revamping of beneficiation plant, mine was not in operation the date of inspection.		

**3.0 Exploitation**

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
3a	Number of pits proposed for production	One	No Production	
3b	Quantity of ROM mineral production proposed	150 MT	0 MT	
3c	Recovery of saleable/usable mineral from ROM production	150 MT	0 MT	
3d	Quantity of mineral reject generation	No Proposal	Not Applicable	
3e	Grade of mineral reject generation and threshold value declared	No Proposal	Not Applicable	
3f	Quantity of sub-grade mineral generation	No Proposal	Not Applicable	
3g	Grade of sub-grade mineral generation	No Proposal	Not Applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	No Work	No Production
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	No Proposal	Not Applicable	
3j	Provision of drilling & blasting in mineral benches	Yes	No Done	
3k	Provision of mining machineries in mineral	Excavator Dumper/ Tippers	Nil	No Development

	benches	DTH Drills Compressors		work and No Production
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	5.0 m in mineral	No Work	No Production, the bench height of existing pits is 5m.
3m	Total area covered under excavation/pits	18.19 Ha	18.19 Ha	
3n	Ore to OB ratio for the pit/mine during the year	1:0	No Work	
3o	Total area put in use under different heads at the end of year	Under Pit: 18.19 Ha Roads: 0.4522 Ha Dump: 1.5374 Ha	Under Pit: 18.19 Ha Occupied by plant, buildings, residential, welfare buildings and roads- 0.950 Ha	
3p	Production of ROM mineral during last five-year period, as applicable	2020-21 = 100 MT 2021-22 = 100 MT 2022-23 = 150 MT 2023-24 = 150 MT	2020-21 = 0 MT 2021-22 = 0 MT 2022-23 = 50 MT 2023-24 = 0 MT	
3q	General remarks of inspecting officer on method of mining etc.	There were no development work and production done during 2023-24. Due to revamping of beneficiation plant, mine was not in operation.		

#### 4.0 Solid Waste Management-Dumping

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 36, 37)	No Proposal	Not Applicable	Top Soil, OB, Mineral Reject not in proposal in Mining plan for F.Y. 2023-24
4b	Location of topsoil, OB & mineral reject dumps	No Proposal	Not Applicable	
4c	Number of dumps within lease area and outside lease area	Two	Two	Existing Dumps
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Inside Lease Area	Inside Lease Area	
4e	Number of active & alive dumps	Two	Two	
4f	Number of dead dumps	Nil	Nil	
4g	Number of dumps stabilised	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	Along NW side of Dump-1	Along NW side of Dump-1	
4i	Length of Retaining wall or	49 meter	49 meter	

	garland drain all along dump			
4j	Number of settling ponds	No Proposal	Not Applicable	
4k	Specific comments of inspecting officer	Location of existing Dumps; Dump-1: N21° 59'35.02" & E74° 3' 26.77", Dump-2: N21° 59'41.37" & E74° 3' 40.17". Location of Retaining wall- N21° 59'45.46" & E74° 3' 23.63". There are two existing dumps. There was no proposal of dump working for 2023-24. No waste was generated as there was no production during 2023-24.		

### 5.0 Solid Waste Management-Backfilling

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No Proposal	Not Applicable	
5b	Area under backfilling of mined out area	No Proposal	Not Applicable	Backfilling was not proposed
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	No Proposal	Not Applicable	No top soil generated
5d	Total area fully reclaimed & rehabilitated	No Proposal	Not Applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc	There was no proposal of backfilling and topsoil generation. Due to revamping of beneficiation plant, mine was not in operation.		

### 6.0 Progressive Mine Closure Plan

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2)	Yes	Yes Along with Annual Return, dated 22-06-2024	
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	i. Nil ii. 0.1 Ha iii. 100 Nos iv. Survival rate- 70%	Nil 0.20 Ha 250 Nos Cumulative number of plants- 500 Survival rate- 80%	
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L X B X D) ii) Void filled by	No Proposal	Not Applicable	

	waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No Proposal	Not Applicable	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officer on PMCP compliance & progressive	Location of Plantation- N21° 59'44.01" & E74° 3' 43.01". More number of plants planted than proposal.		

### 7.0 Mineral Conservation

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	150 MT	No work	No work was done during the year, old Stacks are present.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanised	No work	
7c	Different grade of mineral sorted out at mines	Fluorspar Below 30% CaF <sub>2</sub>	No work	
7d	Any beneficiation process at mines	Proposed	No work	
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Location of existing Stack- N21° 59'51.22" & E74° 3' 42.83. Due to revamping of beneficiation plant, mine was not in operation.		

### 8.0 Environment

SN	Item	Proposals (2023-24)	Actual work (2023-24)	Remarks
8a	Separate removal and utilization of topsoil (Rule 36)	No Proposal	Not Applicable	No topsoil
8b	Concurrent use or storage of topsoil	No Proposal	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	No Proposal	Not Applicable	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	Not Applicable	
8e	Phased restoration, reclamation and rehabilitation of lands	No Proposal	Not Applicable	

	affected by mining operations (Pits, dumps etc)			
8f	Baseline information on existence of plantation & additional plantation done (Rule 44)	Additional plants- 100 Nos	Additional plants- 250 Nos Cumulative number of plants- 500	
8g	Survival rate	70%	80%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Through Water Tanker Sprinkler	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Plantation done near the view point highlights the aesthetic beauty of the mine.		

### 9.0 Compliance of Rule 45

S.N	Item	COMMENTS	Remarks
	Status of submission of Monthly and Annual returns	January 2024 Monthly Return submitted on 04-2-2025. FY 2023-24 Yearly Return Submitted on 22-06-2024.	

S.N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Ankur Patel, Mining Engineer Shri Jay Parmar, Geologist	Shri Nagendra Singh Rathore, Mining Engineer Shri Nirav Patel, Geologist	Form H Submitted
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Under Pit: 18.19 Ha Occupied by plant, buildings, residential, welfare buildings and roads- 0.950 Ha		No violation found
9d	Scrutiny of Annual return on afforestation	Plants- 250 Nos Cumulative number of plants- 500 Survival rate- 80%		
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil		
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM stock- Nil Grade wise(Below 30% CaF <sub>2</sub> ): O/S and C/S- 84384.594 MT		
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Cost of production- 0/- EMP- 0/- Sale value- 0/-		
9i	Scrutiny of Annual return on fixed assets	0/-		
9k	Scrutiny of Annual return	Nil		No

	on mining machineries		Development work and No Production
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**10- Details of violations observed during current inspection and compliance position of earlier violation pointed out:-**

- a. VL cum SCN was issued on 11-09-2023 11(1), 45(5)(c) 34A(1) and the same was compiled on 18-01-2024.
- b. No violation was pointed out during current year inspection.
- c. Self-assessment date of Star Rating by the Lessee is 29-06-2024. 4 Star was given by the Lessee; it was validated and given 3 Star.
- d. Drone data was submitted by the Lessee on 11-06-2024 and it has been referred back.

Sanjaya Kumar Sahoo  
Junior Mining Geologist  
Indian Bureau of Mines