

## MCDR INSPECTION REPORT 2022-23

### General:

Sl .No.	Particulars	Details	
1	Name of the Mine	Rawan Limestone Mine	
2	Date of Inspection:	21.07.2023	
3	Name of Inspecting Officer	Shri. Dayanand Upadhyay, DCOM	
4	Name of official accompanying inspection	Manoj Kushwaha & Ravindra Chaudhary	
5	Last date of Inspection & Officer	16.12.2023 & Shri. Prem Prakash (RCOM)	
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total Area	420.953
		Non-Forest	420.953
		Forest	Nil
7	Mine code	38MPR28007	
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/447/2011	
9	Name of the Lease, Address, Phone, email and fax number	P.O. Rawan, Tehsil: Baloda Bazar-Bhatapara, Chhattisgarh- 493331. Phone- 8982073507 & rajoo.joshi@adani.com	
10	Village	Rawan, Pausari, Bharseli and Kukurdih	
11	Taluka/Mandal	Baloda Bazar	
12	District	Baloda Bazar-Bhatapara	
13	Pin code	493331	
14	State	Chhattisgarh	
15	Post Office	Baloda Bazar	
16	Nearest Police Station	Baloda Bazar	
17	Nearest Railway Station	Bhatapara	
18	Date of Grant of Mining Lease	26th June 1981	
19	Date of Execution	8th August 1986	
20	Weekly day of rest	Sunday	
21	Date of opening of Mine	8th August 1986	
22	Date of First Renewal, if applicable and its period & expiry	26/06/2001	
23	Date of Second Renewal, if applicable and its period & expiry	Nil	
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA	
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri. Ajay Kapur, No.2, Southland, S.B.Singh Road, Colaba, Mumbai Mobile:- 9820070057	

		E-mail:- <a href="mailto:ajay.kapur@adani.com">ajay.kapur@adani.com</a> Date of Appointment:- 17.09.2022
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Rajoo Joshi, P.O. Rawan, Tehsil: Baloda Bazar-Bhatapara, Chhattisgarh- 493331 Mobile:- 8982073507 E-mail:- <a href="mailto:rajoo.joshi@adani.com">rajoo.joshi@adani.com</a> Date of Appointment:- 01.11.2022
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Kumar Rajesh P.O. Rawan, Tehsil: Baloda Bazar-Bhatapara, Chhattisgarh- 493331 Mobile:- 8982073590 E-mail:- <a href="mailto:kumar.rajesh@adani.com">kumar.rajesh@adani.com</a> Date of Appointment:- 15.11.2021
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Ravindra Chaudhary P.O. Rawan, Tehsil: Baloda Bazar-Bhatapara, Chhattisgarh- 493331 Mobile:- 8085251073 E-mail:- <a href="mailto:ravindra.choudhari@adani.com">ravindra.choudhari@adani.com</a> Date of Appointment:- 17.12.2021
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Manoj Kushwaha (Geologist) Ravindra Chaudhary (Mining Engineer)
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	08.01.2021
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	No, Specific condition
32	Mineral(s) granted in lease and approved for Mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
35	Captive/Non-Captive	Captive
36	Present EC Status	6.31 million tones
37	Status of Financial Assurance	13.20 Cr. Valid upto 31.03.2027

## Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan:

### 1.0 Exploration:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
1a	Backlog of previous year Proposals	08 nos. of bore holes of 640 meterage drilling	In 2022-23, 08 nos. of bore holes of 696 meterage drilling, drilled by lessee	No Backlog.
1b	Exploration over lease area for Geological axis 1 or 2.	Within G1level of exploration	Within G1level of exploration	Entire lease area is explored under G1 Category.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	Not specified.	2,422,200 Exploration Agency – Synergy Geotech, Nagpur, Expenditure Rs. 2,422,200/-	Entire lease area is explored under G1 Category.
1d	Balance area to be explored to bring Geological axis in 1 or 2.	Nil	Entire lease area is explored under G1 Category.	Entire lease area is explored under G1 Category.
1e	Balance reserves as on 01.04.2023	Balance reserves as on 01.04.2023: 51.93 million tones		Balance reserves as on 01.04.2023: 51.93 million tones
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area is explored under G1 Category.		

### 2.0 Development:

S. N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
2a	Location of Development w.r.t. lease area	<b>North Block</b> E613824.395; N2397214.715 E613905.241; N2397454.564 E614614.529; N2396842.864 E615180.067; N2397043.599  <b>South Block</b> E613160.525;	<b>North Block</b> E614442.9; N2397871.7 E614618.5; N2397958 E614823.5; N2397303.3 E615074.1; N2397588.8  <b>South Block</b> E613428.2;	Deviation in development is pointed out to the lessee through violation letter.

		N2395957.869 E613430.889; N2396130.951 E614324.806; N2396120.527 E614428.763; N2396255.025 E614688.436; N2396354.456 E614930.39; N2396609.732	N2396733.2 E613499.3; N2396903.7 E613166.4; N2396546 E613353.6; N2396636.4 E614417.2; N2396451.5 E614924.2; N2396867.1	
2b	Separate benches in topsoil overburden and mineral (Rule 15)	Separate benches in OB & Ore	Separate benches in OB & Ore	Separate benches in OB & Ore are maintained
2c	Stripping ratio or ore to OB ratio	0.095 ton/ton	0.161ton/ton	OB to Ore ratio.
2d	Quantity of topsoil generation in m <sup>3</sup>	0.032 millionm <sup>3</sup>	0.055 millionm <sup>3</sup>	Deviation in development is pointed out to the lessee through violation letter.
2e	Quantity of overburden generation in m <sup>3</sup>	0.316 millionm <sup>3</sup>	0.331 millionm <sup>3</sup>	
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Deviation in development is pointed out to the lessee through violation letter.		

### 3.0 Exploitation:

S. N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
3a	Number of pits proposed for production	02 pits	02 pits	02 pits
3b	Quantity of ROM mineral production proposed	5,500,000 tones	3,069,553 tones	ROM production is consumed to its captive plant.
3c	Recovery of Salable/usable mineral from ROM production	5,400,000 tones	3,069,553 tones	ROM production is consumed to its captive plant.
3d	Quantity of mineral reject generation	104,000 tones	30,817 tones	Mineral reject generated 30,817 tones
3e	Grade of mineral reject generation and threshold value declared	Below 34% CaO	Below% 34 CaO	Below% 34 CaO
3f	Quantity of sub-grade mineral generation	Not proposed	NiL	NiL
3g	Grade of sub-grade mineral generation	Not proposed	NiL	NiL
3h	Manual/Mechanized method	Mechanized	Mechanized	Mechanized

	adopted for segregation from ROM			
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Not proposed	NiL	NiL
3j	Provision of drilling & blasting in mineral benches	Drilling and blasting is proposed,	Drilling and blasting is carried out as per proposal.	Drilling and blasting is carried out as per proposal.
3k	Provision of mining machineries in mineral benches	Shovel and dumper combination	Shovel and dumper combination	Excavator, Loader and Dumper are equipped to winning out the mineral.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Yes	Bench height is suitably matched with the excavator.
3m	Total area covered under excavation /pits	226.23ha	194.308ha	194.308Ha area covered under excavation.
3n	Ore to OB ratio for the pit/mine during the year	0.095 ton/ton	0.161ton/ton	OB to Ore ratio.
3o	Total area put in use under different heads at the end of year	Mining-226.23 Road-3.50 Infrastructure-0.61 OB dump-19.87 Topsoil preservation-7.34 Others-5.48 Total put to use-263.03	Mining-194.308 Road-3.00 Infrastructure - 0.61 OB dump-19.87 Topsoil preservation-6.877 Others-4.70 Total put to use-229.365	194.308Ha area covered under excavation.
3p	Production of ROM mineral during last five-years period, as Applicable ( million tonnes)	6.00 Million tones (2018-19)	5382863 tones	ROM production is consumed to its captive plant.
		5.50 Million tones (2019-20)	5303551 tones	
		5.48 Million tones (2020-21)	5086126 tones	
		6.30 Million tones (2021-22)	3573863 tones	
		5.50 Million tones (2022-23)	3,069,553 tones	

3q	General remarks of inspecting officer on method of mining etc	The ROM production has been carried out from two pit. ROM production is consumed to its captive plant.
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#### **4.0 Solid Waste Management-Dumping:**

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Yes	Yes	OB is used in backfilling.
4b	Location of topsoil, OB & mineral reject dumps	Topsoil & mineral reject dumps <b>North Block</b> E612728.71; N2396475.03 E612929.62; N2396679.12 <b>South Block</b> E615067.77; N2396438.35 E615271.6; N2396627.86	<b>North Block</b> E615168.1; N2397268.8 E615323.4; N2397269  <b>South Block</b> E612776.8; N2395920.7 E613469.6; N2396175.3	OB is used in backfilling.
4c	Number of Dumps within lease area and outside lease area	No OB dump proposed.	Concurrent backfilling of OB/waste is carried out.	Concurrent backfilling of OB/waste is carried out.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	No OB dump proposed.	Concurrent backfilling of OB/waste is carried out.	Concurrent backfilling of OB/waste is carried out.
4e	Number of Active & Alive dumps	No OB dump proposed.	Concurrent backfilling of OB/waste is carried out.	Concurrent backfilling of OB/waste is carried out.
4f	Number of dead dumps	2 dumps	2 dumps	2 dumps
4g	Number of dumps established	2 dumps	2 dumps	2 dumps
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Retaining wall and garland drain made by lessee	Retaining wall and garland drain made by lessee
4i	Length of Retaining wall or garland drain all along dump	770m Retaining wall and 770m Garland drain	810m Retaining wall and 825 garland drain	810m Retaining wall and 825 garland drain made by lessee
4j	Number of settling ponds	Not proposed.	Nil.	Nil.
4k	Specific commends of inspecting officer on waste dump management	Concurrent backfilling of mined out area by OB/waste is carried out. Retaining wall and garland drain made by lessee along old dumps.		

## 5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	6387.8 sq.m area proposed for backfilling.	6387.8 sq.m area is covered under backfilling.	6387.8 sq.m area is covered under backfilling.
5b	Area under backfilling of mined out area	6387.8 sq.m area proposed for backfilling.	6387.8 sq.m area is covered under backfilling.	6387.8 sq.m area is covered under backfilling.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Topsoil use in plantation	Topsoil use in plantation	Topsoil use in plantation
5d	Total area fully reclaimed & rehabilitated	6387.8 sq.m area proposed for backfilling.	6387.8 sq.m area is covered under backfilling.	6387.8 sq.m area is covered under backfilling.
5e	General remarks of inspecting officer on backfilling, reclamation etc	Concurrent backfilling of mined out area is carried out.		

## 6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly- Rule 26 (2)	As per provision of MCDR 2017.	Annual report on PMCP submitted	Annual report on PMCP submitted
6b	Management of worked/mined out benches	Not Proposed	Nil	Nil
	Area available for rehabilitation (Ha)			
	Afforestation done (ha)			
	No. of saplings planted during the year			
	Cumulative no. of plants			
	Any other specific method of rehabilitation			
	Cost incurred on watch & care during the year			
6c	Compliance on reclamation and	6387.8 sq.m	6387.8 sq.m	6387.8 sq.m

	rehabilitation by backfilling Voids available for backfilling (L*B*D) Void filled by waste/tailings Afforestation on the backfilling Rehabilitation by making water reservoir Any other specific means	area proposed for backfilling.	area is covered under backfilling.	area is covered under backfilling.
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	2.28ha.	156 ha	Deviation is pointed out through violation letter.
6e	Compliance of Environment monitoring (core zone & buffer zone)	2250 nos. of saplings	2259 nos. of saplings planted by lessee.	2259 nos. of saplings planted by lessee.
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Concurrent backfilling of mined out area is practiced.		

### **7.0 Mineral Conservation:**

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM generated is cement grade and proposed to directly supply to Captive Cement Plant.	ROM Generated is directly supplied to Captive cement plant.	ROM Generated is directly supplied to Captive cement
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	Mechanical
7c	Different grade of mineral sort out at mine	Homogeneous grade	Homogeneous grade	Homogeneous grade
7d	Any beneficiation process at mines	Not proposed	NIL	Not proposed
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	ROM Generated is directly supplied to Captive cement plant.		

### **8.0 Environment:**

S.N.	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	Yes	Topsoil utilized for	Topsoil utilized for



			plantation.	plantation.
8b	Concurrent use or storage of topsoil	Use for plantation	Topsoil utilized for plantation.	Topsoil utilized for plantation.
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	104,000	30,817	Mineral reject is separate stack
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	6387.8 sq.m area proposed for backfilling.	6387.8 sq.m area is covered under backfilling.	6387.8 sq.m area is covered under backfilling.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	6387.8 sq.m area proposed for backfilling.	6387.8 sq.m area is covered under backfilling.	6387.8 sq.m area is covered under backfilling.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	2250 nos. of saplings	2259 nos. of saplings planted by lessee.	2259 nos. of saplings planted by lessee.
8g	Survival rate	Not specified.	Survival rate 96%	Survival rate 96%.
8h	Water sprinkling on roads to control airborne dust	Water tanker	Water tanker deployed to control airborne dust.	Water tanker deployed to control airborne dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mine area	Aesthetic beauty in and around mines area is maintained by plantation.		

### 9.0 Compliance of Rule 45:

S N	Item	Comments	Remarks	
9 a	Status of submission of monthly and Annual returns	MR submitted up to June-2023 AR submitted up to 2022-23 (27.06.2023)		
S N	Item	Details Given in A.R.	Observation of I/Officer	
9 b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Ravindra Chaudhary- (Mining Engineer) Manoj Kushwaha- (Geologist) Kumar Rajesh- (mines Manager)	Ravindra Chaudhary- (Mining Engineer) Manoj Kushwaha- (Geologist) Kumar Rajesh- (mines Manager)	Found in order
9 c	Scrutiny of Annual return on land use	Mining-194.308 Road-3.00	Mining-194.308 Road-3.00	Found in order

	pattern for area under pits, reclaimed area, dumps etc.	Infrastructure- 0.61 OB dump-19.87 Topsoil preservation-6.877 Others-4.70 Total put to use-229.365	Infrastructure- 0.61 OB dump-19.87 Topsoil preservation-6.877 Others-4.70 Total put to use-229.365	
9d	Scrutiny of Annual return on afforestation	2259 sapling	2259 sapling	Found in order
9e	Scrutiny of Annual return on mineral reject generation (Grade & Quantity)	30,817 (CaO below 30%)	30,817 (CaO below 30%)	Found in order
9f	Scrutiny of Annual return on ROM stock and/or grade ore	No Stock	No Stock	Found in order
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	233.61	233.61	Found in order
9i	Scrutiny of Annual return on Fixed assets	Rs 2413789379	Rs 2413789379	Found in order
9k	Scrutiny of Annual return on mining Machineris	Shovel Komatsu 1250-02 Backhole-02 Komatsu HD465Dumpers-06 Drill Machine-01 Dozer-01 Water Tanker-01 Explosivevan-01	Shovel Komatsu 1250-02 Backhole-02 Komatsu HD465Dumpers-06 Drill Machine-01 Dozer-01 Water Tanker-01 Explosivevan-01	Found in order

**10- Details of violations observed during last inspection and the compliance status.**

During last inspection no any violation was pointed out. During inspection, violation of Rule 11(1) and 19(1) has been pointed to the lessee. .

Date: 04/09/2023

Signature:  
Name: D. Upadhyay  
Designation: Deputy Controller of Mines