

MCDR Data Base

1) Name of Inspecting officer:	Shri. Prem Prakash
2) Designation	Regional Controller of Mines
3) Accompanying mine official with designation	Shri Rajoo Joshi, HOD- Mines
4) Date of Inspection	16.12.2022
5) Date of Previous Inspection	16.10.2021

I. GENERAL INFORMATION

Sl.No	Particulars	Details
1	Name of the Mine	Rawan Limestone Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	Total area: 420.953ha. No forest land in the lease area.
3	Mine code	38MPR28007
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/447/2011
5	Name of the lessee, Address, phone, email and fax number	P.O. Rawan, Tehsil: Baloda Bazar-Bhatapara, Chhattisgarh- 493331
6	Village	Rawan, Pausari, Bharseli and Kukurdih
7	Taluka/Mandal	Baloda Bazar
8	District	Baloda Bazar-Bhatapara
9	Pincode	493331
10	State	Chhattisgarh
11	Post office	Baloda Bazar
12	Nearest police station	Baloda Bazar
13	Nearest Railway station	Bhatapara
14	Date of Grant of Mining Lease	26.06.1981
15	Date of Execution	26.06.1981
16	Date of opening of Mine	01.04.1984
17	Date of expiry of ML period	25.06.2031
18	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
19	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:- ajay.kapur@adani.com Date of Appointment:- 17.09.2022
20	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:- rajoo.joshi@adani.com Date of Appointment:- 01.11.2022

21	Name of the Mines 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:- kumar.rajesh@adani.com Date of Appointment:- 15.11.2021
22	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Ravindra Chaudhary P.O. Rawan, Tehsil: Baloda Bazar-Bhatapara, Chhattisgarh- 493331 Mobile:- 8085251073 E-mail:- ravindra.choudhari@adani.com Date of Appointment:- 17.12.2021
23	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Manoj Kushwaha P.O. Rawan, Tehsil: Baloda Bazar-Bhatapara, Chhattisgarh- 493331 Mobile:- 9672004222 E-mail:- manojrajnarayan.kushwaha@adani.com Date of Appointment:- 15.11.2021
24	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	Yes
25	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review Mining Plan and Progressive Mine Closure Plan , approved vide letter no. Raipur dated 08/01/2021 Proposal Period: 2021-22 to 2025-26
26	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
27	Mineral(s) granted in lease and proved for mining	Limestone
28	Method of Mining(Open cast, Underground)	Open cast
29	Category (Fully Mechanised, Others or Manual)	Fully Mechanized
30	Captive/Non Captive	Captive

II. SCIENTIFIC MINING

[Data in respect of financial year (2021-22) or cumulative, as applicable]

Sl. No	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
A. EXPLORATION:-				
1a	Backlog of Previous Year	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2021-22	Not applicable	
1b	Exploration Over Lease area for Geological Axis 1 or 2	2021-22 Nil Proposal 08 no. of boreholes were proposed in the FY 2022-23 as per approved Review of Mining Plan to cover the entire area in G1.	Boreholes drilling carried out in 2022-23	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	Phase wise exploration was carried out by different agencies in the past
1d	Balance area to be explored to bring Geological axis 1 or 2	-	-	6.5 Ha. Balance area
1e	Balance reserves as on 01/04/2022	Under (111): 55.00 Million Tonnes Under (211): 34.00 Million Tonnes Under (221): 346.00 Million Tonnes Under (222): 67.00 Million Tonnes Under (331): 45.00 Million Tonnes Under (333): 107.00 Million Tonnes		As per RMP approved and AR submitted for the year 2021-22
1f	General remarks of inspecting officer on geology, exploration etc.	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2021-22. 08 no. of bore holes were proposed in the FY 2022-23 to cover the entire area in G1.		

Sl. No	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
B. DEVELOPMENT:-				
2a	Location of development w.r.t. lease area	Development proposed in three (03) pits in North block and South block as shown in production and development plan	Being carried out as proposed	
2b	Separate benches in	Separate benches	Separate benches	Waste/OB: 01 no.

	topsoil, overburden and mineral	proposed in OB & mineral.	were maintained in OB & mineral.	Ore/Mineral: 03 nos.
2c	Stripping ratio or ore to OB ratio	1: 0.107	1:0.218	Tonne:Tonne
2d	Quantity of topsoil generation in m3	61500 Tonne	256536 Tonne	
2e	Quantity of overburden generation in m3	610500 Tonne	524514 Tonne	As per AR submitted for 2021-22
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	Production & development was carried out within the proposed grids as per the approved plans.		

Sl. No	Item	Proposals	Actual Work	Remarks
C. EXPLOITATION:-				
3a	Number of Pit Proposed for Production	03	03	
3b	Quantity of ROM mineral production proposed (million tonnes)	6300000 Tonne	3573863 Tonne	
3c	Recovery of Sailable/ Usable Mineral from ROM Production (million tonnes)	98 %	99.5 %	
3d	Quantity of mineral reject generation	130000 Tonne	16211 Tonne	
3e	Grade of mineral reject generation and threshold value declared	-	Below 34%	
3f	Quantity of sub-grade mineral generation	No Proposal	Nil	
3g	Grade of sub-grade mineral generation	No Proposal	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	Blasted material from the mines is fed to the crusher.
3i	Any analysis or	No Proposal	No such study carried	

	beneficiation study proposed & carried out for sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Deep-hole drilling and Blasting proposed in mineral benches.	Deep hole drilling and blasting is carried out in mineral benches as proposed.	
3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Benches of 3 to 9 meter in limestone and 3 to 7 meter in overburden	Bench height and width have been maintained as per proposal	
3m	Total area covered under excavation/pits	226.23ha. up to end of RMP period 2025-26	183.047ha. Up to end of F.Y. 2021-22	
3n	Ore to OB ratio for the pit/mine during the year	1: 0.107	1:0.218	Tonne:Tonne
3o	Total area put in use under different heads at the end of year	Total put to use- 263.03 Ha. up to 2025-26	Total area 235.433 Ha. up to 2021-22	
3p	Production of ROM mineral during last five-year period, as applicable	Yr-2017-18:6300000 Yr-2018-19: 6300000 Yr-2019-20:5500000 Yr-2020-21:5480000 Yr-2021-22: 6300000	Yr-2017-18:5279965 Yr-2018-19: 5382863 Yr-2019-20:5303551 Yr-2020-21:5086126 Yr-2021-22: 3573863	All units in Tonne
3q	General remarks of inspecting officer on method of mining etc.	Open cast working being carried out by deployment of HEMM with the help of deep hole drilling & blasting.		

Sl. No	Item	Proposals	Actual Work	Remarks
D. SOLID WASTE MANAGEMENT - DUMPING:-				
4a	Separate Dumping of Topsoil, OB and Mineral Rejects (Rule 32,33)	Separate dumping of Topsoil & OB proposed	Separate dumping of Topsoil & OB carried out	
4b	Location of Topsoil, OB and Mineral Rejects Dumps,	In between UTM Co-ordinate E613454 to E613727 N2397017 to	Waste dumping being carried out as proposed.	Topsoil used for plantation

	OB/waste dumping	N2397212		
4c	Number of Dumps within Lease & Outside Lease area	05	05	Within lease area
4d	Location of Dumps, within Ultimate Pit Limit (Rule-16)	Proposed beyond Ultimate pit limit	Beyond UPL	
4e	Number of Active & Alive Dumps	01	01	
4f	No of Dead Dumps	02	02	
4g	No of Dumps Established	02	02	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	Yes	
4i	Length of Retaining Wall or Garland drain along Dumps	Not specified	Retaining wall and garland drain constructed around the dumps	
4j	No. of Settling tanks	-	03	
4k	Specific comments of inspecting officer on waste dump management	Protection measures for waste dump in form of garland drain and retaining wall have been provided and plantations have been carried out over the old dumps.		

Sl. No	Item	Proposals	Actual Work	Remarks
E. SOLID WASTE MANAGEMENT - BACKFILLING:-				
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	Proposal for full extraction of mineral from mined out area before starting of the backfilling	Full extent of mining being carried out before backfilling	
5b	Area under backfilling of mined out area	Void available for backfilling 1.36 Ha in 2021-22	About 1.30 ha. in 2021-22	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Concurrent use of topsoil for plantation and horticulture work	Being used for plantation	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	

5e	General remarks of inspecting officer on backfilling, reclamation etc.	Backfilling/reclamation being carried out as proposed.
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Sl. No	Item	Proposals	Actual Work	Remarks
F. PROGRESSIVE MINE CLOSURE PLAN:-				
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26 (2)	To be submitted before 01st July every year	PMCP report received in time	Annual Report submitted on 30.06.2022
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 2.28 2250 - No proposal 2.65lakh	Nil About 2.30 Ha. 2261 - Nil 3.75 lakh Approx.	As Per Annual Return
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	1.36 Ha No proposal No proposal -	About 1.30 Ha Nil Nil -	

6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) 2.28 Ha ii) - iii) One meter topsoil is to be filled on the entire area followed by plantation	i) 2.30 Ha. ii) - iii) Being done as per proposal	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Proposed	Being carried out	All environment parameters are within permissible limits
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The lessee has carried out the PMCP activities as per the proposal. Monitoring of environmental parameters was done regularly.		

Sl. No	Item	Proposals	Actual Work	Remarks
G. MINERAL CONSERVATION:-				
7a	ROM mineral dispatch or grade wise sorting within lease area	Direct ROM dispatch to their captive plant	ROM is being sent to the crusher for further sizing & dispatched to their captive cement plant	
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	N/A	N/A	
7d	Any beneficiation process at mines	No proposal	No beneficiation is done in mines except crushing	Only crushing is done, after which mineral is conveyed to plant through covered belt conveyors
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The run of mine ore is fed to crushers at the plant for sizing and feeding to cement plant.		

Sl. No	Item	Proposals	Actual Work	Remarks
H. ENVIRONMENT:-				
8a	Separate removal and utilization of topsoil (million cu.m)	Separate dumping of Topsoil & OB proposed	Separate dumping of Topsoil & OB carried out	Utilized for plantation within the lease area
8b	Concurrent use or storage of topsoil	Concurrent use of topsoil for plantation and horticulture work	Utilized for plantation within the lease area	
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden, waste rock, rejects is proposed	Separate dumps are maintained	
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)	Proposed for backfilling in 1.36 ha.	About 1.30 ha (backfilled) in south pit	
8f	Baseline information on existence of plantation & additional plantation done	Plantation Proposed : WML: 2250 saplings in 2021-22	Within lease area- 2261 nos. saplings	As per the AR 2021-22
8g	Survival rate	-	95%	As per the AR 2021-22
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads through water tanker	Continuous water sprinkling done on haul roads to suppress the dust generated	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & around the mine area was good as the lessee had carried out afforestation & environmental protection measures as per the proposal.		

Sl. No	Item	Comments		Remarks
I. COMPLIANCE OF RULE-45:-				
9a	Status of Submission of Monthly & Annual Returns	MR being regularly submitted AR Submitted up to 2021-22		
Sl. No	Item	Details Given in A.R	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Kumar Rajesh- (Mines Manager) Ravindra Chaudhary- (Mining Engineer) Manoj Kushwaha- (Geologist)	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Total area 235.433 Ha. up to 2021-22	Total area 235.433 Ha. up to 2021-22	
9d	Scrutiny of Annual return on Afforestation	Within lease area: 2261 @ 95% survival rate	Within lease area: 2261 @ 95% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	16211 tons (below CaO- 34%)	16211 tons (below CaO- 34%)	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening stock- Nil, Production- 3573863.00 tonnes, Closing stock- Nil	ROM: Opening stock- Nil, Production- 3573863.00 tonnes, Closing stock- Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price & cost of production- Rs 222.13/Ton Sale Value: Nil	Limestone from the mine is used for captive consumption in cement plant	
9i	Scrutiny of Annual return on fixed assets	Rs. 2461540809 including land, machinery & building	Rs. 2461540809 including land, machinery & building	
9k	Scrutiny of Annual return on mining machineries	Shovel Komatsu 1250-02 Backhole-02 Komatsu HD465 Dumpers- 08 Drill Machine-02 Dozer-01 Water Tanker-01 Explosivevan-01	Being deployed	

III. Status of compliance of MCDR, 2017 including therewith the rectification of outstanding violation of the rules.

Date of last inspection	Violation pointed out	Compliance reported
16.10.2021	Rule 13(1), 14(4), 46 and 55 of MCDR,2017 on dated 21.10.2021	Complied on 05.01.2022

No any serious violations observed during current inspection.

Date: - 29.03.2023

प्रेम प्रकाश / Prem Prakash
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines
भारतीय खान ब्यूरो / Indian Bureau of Mines