

MCDR INSPECTION REPORT 2021-22

General:

Sl .No.	Particulars	Details
1	Name of the Mine	Paraswani Limestone mine
2	Date of Inspection:	13 th Oct., 2022
3	Name of Inspecting Officer	Sh. D. Upadhyay
4	Name of official accompanying inspection	Sh. Devendra Indora
5	Last date of Inspection & Officer	Sh. Rudra N. Mishra (06th Sept., 2021)
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	NIL
7	Mine code	38MPR28017
8	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/441/2011
9	Name of the Lease, Address, Phone, email and fax number	UltraTech Cement limited Hirmi Cement Works PO – Hirmi, Dist. BalodaBazar- Bhatapara Phone - 07726281217/18/19/20/21 Fax - 07726-281572
10	Village	Hirmi
11	Taluka/Mandal	Simga
12	District	BoladaBazar- Bhatapara
13	Pin code	493195
14	State	Chhattisgarh
15	Post Office	Hirmi
16	Nearest Police Station	Suhela
17	Nearest Railway Station	Tilda
18	Date of Grant of Mining Lease	22-02-1993
19	Date of Execution	22-02-1993
20	Weekly day of rest	Sunday
21	Date of opening of Mine	01.04.1993
22	Date of First Renewal, if applicable and its period & expiry	22.02.2013 for 30 years and valid up to 21.02.2043
23	Date of Second Renewal, if applicable and its period & expiry	NA.
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	N.A.
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. K.C. Jhanwar Ahura Centre, B Wing, 2nd floor, Mahakali Caves Road Andheri (E) Mumbai 400093. Mobile- 9702474200 Email-- ajit.ostwal@adityabirla.com DOA: 18.10.2018

26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri M Senthil UltraTech Cement Ltd. Hirmi Cement Works, PO – Hirmi, Dist. BalodaBazar- Bhatapara Mo- 8691046042 Fax - 07726-281572 m.senthil@adityabirla.com DOA: 15.06.2021
27	Name of the Mine Manager with Address, phone, email, fax number and date of appointment in mines	Shri Devendra Kumar Indora UltraTech cement ltd. Hirmi Cement Works, PO – Hirmi, Dist. BalodaBazar- Bhatapara 09826300229 Phone - 07726281217/18/19/20/21 Fax - 07726-281572 devendra.indora@adityabirla.com DOA: 17.09.2021
28	Name of the Mining Engineer, Qualification and total experience with address, phone, email, fax number and date of appointment in the mine	Shri Devendra Kumar Indora B.E. Mining UltraTech cement ltd. Hirmi Cement Works, PO – Hirmi, Dist. BalodaBazar- Bhatapara 09826300229 Phone - 07726281217/18/19/20/21 Fax - 07726-281572 devendra.indora@adityabirla.com DOA: 17.09.2021
29	Whether Geologist and Mining Engineer appointment in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	YES
30	Date of Approval of Mine Plan/Modified Mine Plan with five- year period and specific condition in approval letter, if any.	Date of Approval of modification in Mining Plan 14.08.2018 and valid up to March 2023.
31	Date of Approval of Scheme of Mining/Modified Scheme of Mining with five- year period and specific condition in approval letter, if any.	
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 mechanised
35	Captive/Non-Captive	Captive mine
36	Present EC Status	Active
37	Status of Financial Assurance	Submitted as per MCDR, 2021, BG No. 047GM03173100001 , Rs.92,100,000 & Differential BG No. 5WSGT02220060007 of Rs. 6,14,00,000 Valid Up to :31.03.2023

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

1.0 Exploration:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
1a	Backlog of previous year Proposals	Not proposed in 2021-22	52 Bh drilled in 2021-22.	Due to Covid-19 outbreak vendor doesn't reported at site for drill proposal year 2020-21. The same was completed in the year 2021-22. Proposed bore holes in 2020-21: 40.
1b	Exploration over lease area for Geological axis 1 or 2.	G1 level	G1 level	G2 area converted in to G1.
1c	Exploration Agency & Expenditure in Lakh Rupees during the year	NA.	M/s Tapan Bid, Nagpur, MS. Total expenditure = 11128425.43	
1d	Balance area to be explored to bring Geological axis in 1 or 2.	129.65 Ha	129.65 Ha.	G2 area converted in to G1.
1e	Balance reserves as on 01.04.2022 as per modification in mining plan	219.142 (111) 32.947 (121)	206 (111) 33.0 (121)	
1f	General remarks of Inspecting officer on geology, exploration etc.	Entire lease area is explored under G1 level of exploration.		

2.0 Development:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
2a	Location of Development w.r.t. lease area	NORTH PIT E 599549.3903 TO E 601723.7633 N 2381620.5612 TO N 2383273.9649 RL (283-242) SOUTH PIT E599088.37 TO E599837.21 N 2380531.39 TO N 2381716.24 RL (283-242)	NORTH PIT E 599628.4972 TO E 601674.5792 N 2381730.6669 TO N 2383286.6978 RL (283-242) SOUTH PIT E 599163.8630 TO E 599636.2310 N 2380813.433 TO N 2381771.666 RL (283-242)	Development is carried out in 02 pits i.e North pit and South pit as per proposal.

2b	Separate benches in topsoil overburden and mineral (Rule 15)	OB bench- 1 nos. Mineral bench-5 Nos	OB bench- 1 nos. Mineral bench-5 Nos.	Top soil is separated and stacked at designated place and concurrently used.
2c	Stripping ratio or ore to OB ratio	1:0.0602	1:0.079	Ore to OB Ratio (ton/m ³)
2d	Quantity of topsoil generation in m ³	23668	15630	Due to irregular thickness, quantity varies.
2e	Quantity of overburden generation in m ³	602224	2,97,330	Due to less ROM production, OB generated less.
2f	General remarks of Inspecting officer on development of pit w.r.t type of deposit etc.	Development is carried out in 02 pits i.e North pit and South pit as per proposal.		

3.0 Exploitation:

S.N	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
3a	Number of pits proposed for production	02	02	
3b	Quantity of ROM mineral production proposed	10400000 MT	3819461 MT	Due to Covid-19 Pandemic our proposed project of line-II got delayed and hence Less production.
3c	Recovery of Salable/usable mineral from ROM production	96%	98%	Due to usage of petcoke LSF requirement was less. Hence, screen of material requirement was less as compared to mining plan.
3d	Quantity of mineral reject generation	400000 MT	73865 MT	Due to less ROM production, reject generated less.
3e	Grade of mineral reject generation and threshold value declared	Less than 34% CaO (Screen Reject)	CaO% 32.90 (Screen Reject)	
3f	Quantity of sub-grade mineral generation	935609T	274321T	Due to less ROM production, sub grade generated less.

3g	Grade of sub-grade mineral generation	34-40% CaO	34-40% CaO	
3h	Manual/Mechanized method adopted for segregation from ROM	Mechanised	Mechanised	Mechanised
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	For preparation of blast hole the primary drilling is done by 115/150 mm Dia crawler mounted DTH drills. Spacing-6 M. Burden- 4 M. Depth of hole 8.5 M Subgrade- 0.5 M Blasting is done in staggered pattern with SME, ANFO and NONEL.	For preparation of blast hole the drilling is done by 115 & 150 mm dia crawler mounted DTH drills. Spacing: 5-7 M. Burden: 3.5-4.5 M. Depth of hole 5-9 M Subgrade- 0.5 M Blasting is done in staggered pattern with SME, ANFO and NONEL.	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	At the end of plan period 253.92 Ha	179.339 Ha.	179.339 Ha covered under excavation
3n	Ore to OB ratio for the pit/mine during the year	1:0.0602	1:0.079	Ore to OB Ratio (ton/m ³)
3o	Total area put in use under different heads at the end of year	Pit- 253.92 Ha Waste/reject- 12.945 Ha Backfilling-0 Others – 39.719	Pit- 179.339 Ha Waste/reject- 8.568 Ha Backfilling- 0 Others- 20.648	Total area put in use under different heads at the end of year are as per proposal.
3p	Production of ROM mineral during last five-years period, as Applicable (tonne)	2017-18 43,68,000	2858385	ROM production is consumed to its captive plant.
		2018-19 43,68,000	3538259	

		2019-20 43,68,000	2785621	
		2020-21 78,00,000	2916347	
		2021-22 10400000	3819461	
3q	General remarks of inspecting officer on method of mining etc	The ROM production has been carried out from two pits as per proposal.		

4.0 Solid Waste Management-Dumping:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32,33)	Concurrent use of top soil and separate dump for OB & mineral reject has been proposed.	Concurrent use of top soil is being done and separate dumping of OB & reject is being done.	Concurrent use of top soil is being done and separate dumping of OB & reject is being done.
4b	Location of topsoil, OB & mineral reject dumps	In Pit- temp dump (O.B.) E 600619.2137 to E 601003.5745 N 2382155.1972to N 2382437.3924 RL : 265 to 250 Bardih Dump E 600744.5997 to E 601339.5535 N 2380498.9744 to N 2381173.8636 RL : 288 to 304	In Pit- temp dump (O.B.) E 600595.8344 to E 600898.4034 N 2382159.3544 to N 2382455.2038 RL : 265 to 250 Bardih Dump E 600993.163 to E 601293.83 N 2380827.5724 to N 2381044.162 RL : 288 to 298	Being done as per proposal.
4c	Number of Dumps within lease area and outside lease area	02 nos. OB within lease area	02 nos. OB within lease area	Being done as per proposal.
4d	Location of Dumps w.r.t. ultimate pit limit (Rule 16)	In Pit- temp dump (O.B.) E 600619.2137 to E 601003.5745 N 2382155.1972to N 2382437.3924 RL : 265 to 250 Bardih Dump	In Pit- temp dump (O.B.) E 600595.8344 to E 600898.4034 N 2382159.3544 to N 2382455.2038 RL : 265 to 250 Bardih Dump	Being done as per proposal.

		E 600744.5997 to E 601339.5535 N 2380498.9744 to N 2381173.8636 RL : 288 to 304	E 600993.163 to E 601293.83 N 2380827.5724 to N 2381044.162 RL : 288 to 298	
4e	Number of Active & Alive dumps	02	02	02 active dump
4f	Number of dead dumps	Not proposed	NIL	NIL
4g	Number of dumps stablished	01	01	01 dumps stablished
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Retaining wall made.	Retaining wall made.
4i	Length of Retaining wall or garland drain all along dump	516 m Retaining wall	Retaining wall 520m. Length of garland drain all along dump is 1168 mtr.	
4j	Number of settling ponds	Not proposed	NIL	Existing 03 Nos.
4k	Specific commends of inspecting officer on waste dump management	Separate dumping of OB is maintained as per proposal. Retaining wall and garland drain is maintained along the dump.		

5.0 Solid Waste Management-Backfilling:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	Not proposed	NIL	--do--
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	Not proposed	NIL	--do--
5d	Total area fully reclaimed & rehabilitated	Not proposed	NIL	--do--
5e	General remarks of inspecting officer on backfilling, reclamation etc	Area is not matured for reclamation and rehabilitation.		

6.0 Progressive Mine Closer Plan:

S. N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly-Rule	Yes	Yes	Annual report on PMCP

	26 (2)			submitted
6b	Management of worked/mined out benches	Not proposed	NIL	NIL
	Area available for rehabilitation (Ha)	0.00	0.00	
	Afforestation done (ha)	2.936ha	3.2ha	
	No. of saplings planted during the year 2021-22	7340no.	7800no.	
	Cumulative no. of plants	Not specified.	218726no.	
	Any other specific method of rehabilitation	Not proposed	NIL	NIL
	Cost incurred on watch & care during the year	Not specified.	1041823/-	
6c	Compliance on reclamation and 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	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
6d	Compliance of Rehabilitation of waste land within lease i. Afforestation ii. Area rehabilitation (ha) iii. Method of rehabilitation	Not proposed	NIL	NIL
6e	Compliance of Environment monitoring (core zone & buffer zone)	Quarterly monitoring	Quarterly monitoring	Quarterly monitoring
6f	General remarks of inspecting officer on PMCP compliance & progressive closer operations	Area is not matured for reclamation and rehabilitation. Plantation is carried out as per proposal.		

7.0 Mineral Conservation:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM dispatch after Dry crushing and screening.	ROM dispatch after Dry crushing and screening.	ROM dispatch after Dry crushing and screening.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	Mechanized
7c	Different grade of mineral sort out at mine	-40% CaO and +40%	-40% CaO and	-40% CaO and

		CaO	+40% CaO	+40% CaO
7d	Any beneficiation process at mines	Nil	Nil	Dry crushing and screening.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	Dry crushing and screening is practiced.		

8.0 Environment:

S.N.	Item	Proposals (2021-22)	Actual Work (2021-22)	Remarks
8a	Separate removal and utilization of topsoil (Rule32)	YES	Separate removal and utilization of topsoil is being done	Separate removal and utilization of topsoil is being done
8b	Concurrent use or storage of topsoil	YES	concurrent utilization of topsoil is being done	concurrent utilization of topsoil is being done
8c	Separate dumps for overburden waste rock, rejects and fines (Rule 33)	Separate dumps for overburden waste rock, rejects	Separate dumps for overburden/waste rock and rejects.	Separate dumps for overburden/waste rock and rejects.
8d	Use of overburden, waste rock, rejects and fines dump for restoring the land to its original use	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not proposed	NIL	Area is not matured for reclamation and rehabilitation.
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	Not specified.	Total of 218726 nos. plantation in 70.05 hect. area up to March, 2022.	Total of 218726 nos. plantation in 70.05 hect. area up to March, 2022.
8g	Survival rate		85%	85%
8h	Water sprinkling on roads to control airborne dust	Water Tanker	Water sprinkling on roads is being done by two 28KL and 8KL tanker to control airborne dust.	Water sprinkling on roads is being done by two 28KL and 8KL tanker 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
9a	Status of submission of monthly and Annual returns	AR & MR submitted regularly.		AR & MR submitted regularly.
S N	Item	Details Given in A.R.	Observation of I/Officer	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining engineer, Geologist employment is furnished	Mining engineer, Geologist are employed in the mine.	Mining engineer, Geologist are employed in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Land use pattern furnished in AR.	Found in order.	Found in order.
9d	Scrutiny of Annual return on afforestation	7800 no. of plantation	7800 no. of plantation	7800 no. of plantation
9e	Scrutiny of Annual return on mineral reject (Screen Reject) generation (Grade & Quantity)	73865 MT, CaO% 32.90	73865 MT, CaO% 32.90	73865 MT, CaO% 32.90
9f	Scrutiny of Annual return on ROM stock and/or grade ore	ROM closing stock-Nil.	ROM closing stock-Nil.	ROM closing stock-Nil.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production costs	Ex. Mine price Rs. 286.70	Ex. Mine price Rs. 286.70	Ex. Mine price Rs. 286.70
9i	Scrutiny of Annual return on Fixed assets	Fixed assets Rs. 441164761	Fixed assets Rs. 441164761	Fixed assets Rs. 441164761
9k	Scrutiny of Annual return on mining Machineries	Machineries furnished in AR.	Found in order.	Found in order.

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

No violation was observed during inspection.

Date: 23/12/2022

Signature:
Name: D. Upadhyay
Designation: Sr. ACOM