# File No. MCDR-MCHDCLENTF4GL220245RPC2BRPROBRPROCCOPROUTER No. 9285) 1/29058/2024 1/29058/2024

# MCDR Inspection Report 2022-23

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Regional Controller of Mines
	Indian Bureau of Mines, Raipur
3) Accompanying mine official with designation	Mr. M. Senthil
	VP & Agent (Mines)
	Mr. Devendra Kumar Indora
	Mines Manager
	Mr. Ratikanta Behera
	(Geologist)
4) Date of Inspection	30-11-2023
5) Date of Previous Inspection	13-10-2022

#### I. GENERAL INFORMATION

SI. No	Particulars	Details	
1	Name of the Mine	Paraswani Limestone Mine	
2	Total Lease Area (Ha) with breakup of Non-	997.355 hect. (Non- forest)	
	forest and forest land		
3	Mine Code	38MPR28017	
4	IBM Registration Number under rule 45 of	IBM/441/2011	
	MCDR, 1988/2017		
5	Name of the lessee, Address, phone, email	UltraTech Cement limited	
	and fax number	Hirmi Cement Works	
		PO – Hirmi,	
		Dist. BalodaBazar- Bhatapara	
		Phone - 07726281217/18/19/20/21	
		Fax - 07726-281572	
6	Village	Hirmi	
7	Taluka/Mandal	Simga	
8	District	Baloda Bazar-Bhatapara	
9	Pin Code	493195	
10	State	Chhattisgarh	
11	Post office	Hirmi	
12	Nearest police station	Suhela	
13	Nearest Railway station	Tilda	
14	Date of Grant of Mining Lease	15.12.1992	
15	Date of Execution	22.02.1993	
16	Date of opening of Mine	01.04.1993	
17	Date of first Renewal, if applicable and its	22.02.2013 for 30 years and valid up to	
	period & expiry	21.02.2043	
18	Date of second Renewal, if applicable and	NA	
	its period & expiry		
19	Date of submission of renewal application	NA	
	if Mining Operations are continuing under		
	deemed extension		
20	Name of the Nominated Owner with	Mr. K.C. Jhanwar	
	Address, phone, email, fax number and	Ahura Centre, B Wing,	
	date of appointment	2nd floor, Mahakali Caves Road	
		Andheri (E) Mumbai 400093.	
		Mobile- 9702474200	
		Email- ajit.ostwal@adityabirla.com	
		DOA: 18.10.2018	

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I/29058/20 <del>24</del>	21 22	Name of the Mine Agent with Address, phone, email, fax number and date of appointment Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Shri M Senthil UltraTech Cement Ltd. Hirmi Cement Works, PO – Hirmi, Dist. BalodaBazar- Bhatapara Mob 8691046042 Fax - 07726-281572 <u>m.senthil@adityabirla.com</u> DOA: 15.06.2021 Shri Devendra Kumar Indora UltraTech cement Itd. Hirmi Cement Works, PO – Hirmi, Dist. BalodaBazar- Bhatapara Mob 09826300229 Phone - 07726281217/18/19/20/21
	23	Name of the Mining Engineer, Qualification	Fax - 07726-281572 <u>devendra.indora@adityabirla.com</u> DOA: 17.09.2021 Shri Devendra Kumar Indora
		and total experience with Address, phone, email, fax number and date of appointment in mine	B.E. Mining UltraTech cement ltd. Hirmi Cement Works, PO – Hirmi, Dist. BalodaBazar- Bhatapara 09826300229 Phone - 07726281217/18/19/20/21 Fax - 07726-281572 <u>devendra.indora@adityabirla.com</u> DOA: 17.09.2021
	24	Name of the Geologist , Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Shri Ratikanta Behera M. Sc. (Applied Geology) UltraTech cement ltd. Hirmi Cement Works, PO – Hirmi, Dist. BalodaBazar- Bhatapara Mob 09439317775 <u>ratikanta.behera@adityabirla.com</u> DOA: 19.12.2022
	25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57 of MCDR, 2017.	Yes
	26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Modification in Mining Plan approved on 14.08.2018 Proposal period 2018-19 to 2022-23
	27	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 on 30.12.2022 Proposal period 2023-24 to 2027-28
	28	Mineral(s) granted in lease and proved for mining	Limestone
	29	Method of Mining (Opencast, Underground)	Opencast
	30	Category (Fully Mechanized, Others or Manual)	Category-A, Fully Mechanized
	31	Captive/Non Captive	Captive

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#### **II. SCIENTIFIC MINING**

SI. No	Item	Proposals (2022-23)	Actual Work <i>(2022-23)</i>	Remarks
		A. EXPLOR	ATION: -	
1a	Backlog of Previous Year	Nil	Nil	
1b	Exploration Over Lease area for Geological Axis 1 or 2	No exploration has been proposed in the approved Review of Mining Plan during F.Y. 2022-23	Nil	Entire potential mineralized area has been explored under G-1
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	
1d	Balance area to be explored to bring Geological axis 1 or 2	No proposal	Not applicable	
1e	Balance reserves as on 01/04/2023			As per AR submitted for the year 2022-23
1f	General remarks of inspecting officer on geology, exploration etc.	No exploration has been proposed during the financial year 2022-23. The entire potential mineralized area has been explored under the G-1 level of exploration as per the approved RMP.		

[Data in respect of financial year (2022-23) or cumulative, as applicable]

SI. No	ltem	Proposals (2022-23)	Actual Work (2022-23)	Remarks
		B. DEVELOP	MENT: -	
2a	Location of development w.r.t. lease area	NORTH BLOCK E= 599549.3903 to 601753.5049, N= 2381157.9645 to 2383271.7136 RL (283-242) SOUTH BLOCK E= 599183.3709 to 599668.3749, N= 2380707.5829 to 2381076.769 RL (283-250)	Carried out within the proposed area	
2b	Separate benches in topsoil, overburden and mineral	Separate benches proposed in OB & mineral	Separate benches were maintained in OB & mineral	OB bench- 1 nos. Mineral bench-5 Nos.
2c	Stripping ratio or ore to OB ratio	1: 0.05 1: 0.10		Ore and OB ratio in tonne: m3
2d	Quantity of topsoil generation in m3	42264	34504	Used for carpeting of dump for plantation

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8/20	24 2e	Quantity of overburden generation in m3	597441	424946	
	2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The developments have be	en carried out as per the pr	oposal.

SI. No	ltem	Proposals (2022-23)	Actual Work (2022-23)	Remarks
		C. EXPLOITA	TION: -	
3a	Number of Pit Proposed for Production	02	02	As per proposal
3b	Quantity of ROM mineral production proposed	1000000 MT	4198846 tonnes	EC is for 4200000 tonnes
3c	Recovery of Saleable/ Usable Mineral from ROM Production			
3d	Quantity of mineral reject generation	400000 MT	26296 MT	As per AR
3e	Grade of mineral reject generation and threshold value declared	-	32.90 % CaO	As per AR
3f	Quantity of sub-grade mineral generation	1168011	-	Reported blended with high-grade ore
3g	Grade of sub-grade mineral generation	34-40% CaO	34-40% CaO	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized	Mechanized	
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	Drilling and Blasting proposed in mineral benches	Drilling and blasting were carried out in mineral benches as proposed	115 & 150 mm dia crawler mounted DTH drill machine used for drilling. Spacing: 5-7 M. Burden: 3.5-4.5 M. Depth of hole 5-9 M Subgrade- 0.5 M SME, ANFO and NONEL are used for blasting
3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
31	Whether height of benches in overburden	Yes, Height of	Bench height and width have been maintained	

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/202	4	and mineral suitable for	OB bench- 2-4.5 m	as per proposals.	
		method of mining	Ore bench 6-8 m		
		proposed in MP/SOM			
	3m	Total area covered	253.92 Ha. up to end of	191.424 Ha. up to end	
	5111	under excavation/pits	plan period 2022-23	of FY 2022-23	
	3n	Ore to OB ratio for the	1: 0.05	1: 0.10	Ore and OB ratio in
	511	pit/mine during the year	1. 0.03	1.0.10	tonne: m3
		Total area put in use	306.584 Ha. up to end of	266.77 Ha. up to end of	
	30	under different heads at	plan period 2022-23	FY 2022-23	
		the end of year			
		Production of ROM	2018-19- 42,00,000	2018-19- 3465778	(All units in MT)
		mineral during last five-	2019-20- 42,00,000	2019-20- 2708457	As per AR submitted
	Зр	year period, as	2020-21- 75,00,000	2020-21- 2865576	
		applicable	2021-22- 10,00,0000	2021-22-3745596	
			2022-23- 10,00,0000	2022-23-4198846	
		General remarks of	Open cast working is being	g carried out by deployme	ent of HEMM with the
	3q	inspecting officer on	help of deep hole drilling &	blasting.	
	зq	method of mining etc.			

SI. No	ltem	Proposals (2022-23)	Actual Work (2022-23)	Remarks
		GEMENT - DUMPING:-		
4a	Separate Dumping of Topsoil, OB and Mineral Rejects	Separate dumping of Topsoil & OB proposed	Separate dumping of Topsoil & OB carried out	
4b	Location of Topsoil, OB and Mineral Rejects Dumps	OB/WASTE DUMP N 2382405.3494 to N 2382220.7141 E 600603.6340 to E 600930.2929 Bardih Dump N 2381220.3233 to N 2380760.5162 E 601029.8301 to E 601344.7505	Waste dumping was carried out as proposed	Subgrade material used concurrently for blending
4c	Number of Dumps within Lease & Outside Lease area	02 nos. OB within lease area	02 nos. OB within lease area	
4d	Location of Dumps, within Ultimate Pit Limit	-	-	
4e	Number of Active & Alive Dumps	02	02	
4f	No of Dead Dumps	-	Nil	
4g	No of dumps stabilized	01	01	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	Yes	
4i	Length of Retaining Wall or Garland drain along	No proposal	Nil	Retaining wall of 220m. constructed

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I/29058/20	24	Dumps			at Bardih dump. Garland drain all along dump about 1800 m maintained
	4j	No. of Settling tanks	No proposal	03	
	4k	Specific comments of inspecting officer on waste dump management	Environmental protection around the waste dump.	n measures have been co	onstructed/maintained

SI. No	ltem	Proposals (2022-23)	Actual Work (2022-23)	Remarks
	I	E. SOLID WASTE MANAG	EMENT - BACKFILLING: -	
5a	Status of part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	No area has been exhausted fully for carrying out backfilling
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No proposal	Not applicable	
5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	The area is not fully exhausted for backfilling, reclamation, etc.		

SI. No	ltem	Proposals (2022-23)	Actual Work (2022-23)	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 28.06.2023			
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	No proposal	Nil	No area is mined out fully at present			

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l/29058/20	24	method of				
		rehabilitation				
		vi) Cost incurred on				
		watch & care during the				
		year				
		, Compliance on	No proposal	Nil	No area has	
		reclamation and			matured for	
		rehabilitation by			reclamation and	
		, backfilling			rehabilitation	
		i) Voids available for				
		backfilling (L X B X D)			purposes	
	6.	ii) Void filled by				
	6c	waste/tailings				
		iii) Afforestation on the				
		backfilled area				
		iv) Rehabilitation by				
		making water reservoir				
		v) Any other specific				
		means				
		Compliance of				
		Rehabilitation of waste				
		land within lease			10005 Nos.	
	6d	i) Afforestation	9308 Nos.	10005 Nos.	samplings @ 80	
		ii) Area rehabilitated	3.723 Ha.	About 3.7 Ha	survival	
		(ha)	By plantation	By Plantation		
		iii) Method of rehabilitation				
		renabilitation	Environmental	Environmental	All values of	
		Compliance of				
	6	Environmental	monitoring of air,	monitoring of air, water	environment	
	6e	monitoring (core zone &	water & noise	& noise was carried out	parameters were	
		buffer zone)	proposed	as per the proposal	within permissible	
					limits	
		General remarks of	Annual PMCP report has been submitted. No area has got matured for reclamation and rehabilitation purposes. Plantation has been carried out as			
	~	inspecting officer on		ation purposes. Plantation h	as been carried out as	
	6f	PMCP compliance &	per the proposal.			
		progressive closure				
		operations				

SI. No	ltem	Proposals (2022-23)	Actual Work (2022-23)	Remarks
		G. MINERAL COM	ISERVATION: -	
7a	ROM mineral dispatch or grade wise sorting within lease area	ROM dispatch to their captive plant after crushing	ROM is being sent to the crusher for further sizing & fed to their captive cement plant	
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	No proposal	Nil	
7c	Different grade of mineral sorted out at mines	No proposal	Nil	Only crushing is done, after which mineral is fed to the cement plant
7d	Any beneficiation process at mines	No proposal	No beneficiation is done in mines except crushing	

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1	24		
		General remarks of	No beneficiation is warranted in the case of Limestone. The run of mine are
	7e		fed to the crusher for sizing and screening for further feeding to the captive
	7e	Mineral conservation &	cement plant.
		beneficiation issues	

SI. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
		H. ENVIROI	NMENT: -	
8a	Separate removal and utilization of topsoil	Separate removal and utilization of topsoil proposed	Generated topsoil used for plantation	
8b	Concurrent use or storage of topsoil	Proposed for concurrent use	Concurrent utilized for plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden, waste rock, and rejects are 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.)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done	9308 Nos. of saplings within ML area covering 3.723 Ha area	Within lease area 10005 nos. saplings	
8g	Survival rate	No specified	80%	
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	sprinkling done on haul	Water sprinkling on roads is being done by 28 KL and 8 KL tanker to control airborne dust
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Aesthetic beauty in & aro	und the mine area was good.	

SI. No	Item	Comments	Remarks
		I. COMPLIANCE OF RULE-45: -	
9a	Status of Submission of Monthly & Annual Returns	MR being submitted regularly AR Submitted up to = FY 2022-23	

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⁴SI. 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	Manager & Mining Engineer-Devendra Kumar Indora Geologist- Ratikanta Behera	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	253.92 Ha.	253.92 Ha.	
9d	Scrutiny of Annual return on afforestation	Within lease area 10005 @ 80% survival rate	Within lease area 10005 @ 80% survival rate	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	No generation of mineral reject reported	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM Opening stock- Nil Production- 4198846.00 Closing stock-Nil	ROM Opening stock-Nil Production- 4198846.00 Closing stock-Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price and cost of production – Rs. 286.54 /Tonne Sale value-Nil	Captive consumption	
9i	Scrutiny of Annual return on fixed assets	Rs. 881916764 /- including land, building etc.	Rs. 881916764 /- including land, building etc.	
9k	Scrutiny of Annual return on mining machineries	ShovelHydraulic-04,Backhoe-01,Dumper-27,DrillMachine-03,WheelLoader-01,Water tanker-2	Observed deployed	

10- Details of violations observed during current inspection: -No serious violation was observed during inspection.

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