1/27626/2024

MCDR Report (2022-23)

1) Name of Inspecting officer:	Shri Prem Prakash
2) Designation	Regional Controller of Mines
3) Accompanying mine official with designation	Amit Chauhan (AGM Mines),
	Madhab Sumohan (Mining Engineer)
	Arun Soni (Geologist),
	Amit Kumar Gautam (Surveyor)
4) Date of Inspection	22/09/2023
5) Date of Previous Inspection	02/09/2022

I. GENERAL INFORMATION

Sl. No	Particulars	Details
1	Name of the Mine	Bharuwadih Limestone Mine
1	Trume of the trime	(SHREE LIMESTONE MINE)
2	Total Lease Area (Ha) with breakup of	Non- forest land - 531.126 Ha,
	Non-forest and forest land	Forest land – 0.00 Ha
3	Mine Code	38CHG14027
4	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/960/2011
5	Name of the lessee, Address, phone,	M/s. SHREE CEMENT LIMITED,
	email and fax number	POST BOX NO. 33, BANGUR NAGAR,
		BEAWAR,
		MASUDA, Phone No-07727203101,
		Email-shreebwr@shreecement.com,
		Fax No-07712430007
6	Village	Semaradih-Bharuwadih
7	Taluka/Mandal	Baloda Bazar
8	District	Baloda Bazar
9	Pin Code	493332
10	State	Chhattisgarh
11	Post office	Baloda Bazar
12	Nearest police station	Suhela
13	Nearest Railway station	Bhatapara
14	Date of Grant of Mining Lease	09/07/2010
15	Date of Execution	11/01/2011
16	Date of opening of Mine	17/12/2012
17	Date of first Renewal, if applicable and its period & expiry	Not Applicable
18	Date of second Renewal, if applicable and its period & expiry	Not Applicable
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not Applicable
20	Name of the Nominated Owner with	Shri Neeraj Akhoury, address- Bangur
	Address, phone, email, fax number and	Nagar, post box no33 Beawar, Pin code
	date of appointment	- 305901, Rajasthan Phone 01462-
		243413 fax no 01462-228117 Email-
		Neeraj.Akhoury@shreecement.com
21	Name of the Mine Agent with Address,	Shri Mahendra Kumar Garg,
	phone, email, fax number and date of	A-15, Shree Vihar, Bangur Nagar,
	appointment	Beawar – 305901 Raj. Phone 01462-

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1/27626/2024 243413 fax no.- 01462-228117, Email- gargmk@shreecement.com Date of appointment -28.02.2017Shri Amit Chauhan. 22 Name of the Mines Manager with Address, phone, email, fax number and B-124, SRCP colony village- Semradih, Tehsil- Baloda bazar Distt.- Balodabazar date of appointment in mines pin code- 493332, phone no. – 9214337329 Email- amit.chauhan@shreecement.com, Date of appointment in mines -05.01.2022 Shri Madhab Sumohan, 23 Name of the Mining Engineer, Qualification and total experience with Qualification - B.Tech. (Mining) Total Address, phone, email, fax number and experience – 10 year date of appointment in mine C-211 SRCP Township, Balobabazar, Dist.-Balodabazar, Pin code 493332 Phone no.- 8349301298, Emailmadhab.sumohan@shreecement.com, Arun Soni, Qualification – M.Sc. 24 Name of the Geologist, Qualification and total experience with Address, (Geology) Experience – 10 years Address – Civil phone, email, fax number and date of line Bhatapara, pin code- 493118 Mobile appointment in mine - 8085351442, Email-Arun.Soni@shreecement.com Whether Geologist and Mining 25 Yes Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57 of MCDR, 2017. Date of Approval of Mining 26 Approval letter no. Plan/Modified Mining Plan with five-BALODABA/CHUP/KHA YOyear period and specific condition in 1219/2019/Raipur/dated 09.12.2019. approval letter, if any. Proposal period 2020-21 to 2024-25 Date of Approval of Scheme of Not Applicable 27 Mining/Modified Scheme of Mining with five-year period and specific condition in approval letter, if any. Mineral(s) granted in lease and proved 28 Limestone for mining Method of Mining (Opencast, 29 Opencast Underground) Category (Fully Mechanized, Others or 30 Fully Mechanized Manual) 31 Captive/Non-Captive Captive

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II. SCIENTIFIC MINING

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

S1.	Item	Proposals	Actual Work	Remarks
No		(2022-23)	(2022-23)	
		A. EXPLOR	ATION: -	
1a	Backlog of Previous Year	Borehole – 17 Nos. (2020-2021)	Borehole – 18 Nos. (2022-2023)	Exploration completed in FY 2022-23
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	18 Nos.	The backlog exploration for FY 2020-21 has been completed in FY 2022-23.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	KHANNA & ASSOCIATES INDIA Expenditure- Rs. 2878174/-	Expenditure as reported in submitted Annual Return.
1d	Balance area to be explored to bring Geological axis 1 or 2	Nil	Nil	The entire potential mineralized area has been explored under G-1
1e	Balance reserves as on 01/04/2024	Under 111- 176.40 million tonne As per the submitted Annual Return 2022-23		
1f	General remarks of inspecting officer on geology, exploration etc.	No exploration has been proposed during the financial year 2022-23. However, the lessee has drilled 18 Nos. of boreholes against the backlog exploration proposal of the year 2020-21. The entire potential mineralized area has been explored under G-1 level of exploration.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
2a	Location of development w.r.t. lease area	Development proposed in one (01) pit namely Pit No.01	Pits have not been developed as envisaged in the approved RMP	Violation under Rule 11(1) of MCDR, 2017 pointed out in this regard.
2b	Separate benches in topsoil, overburden and mineral	Separate benches proposed in OB & mineral.	Separate benches were maintained in OB & mineral.	Top Soil- 1 Nos. Overburden – 1 Nos. Mineral – 3 Nos.
2c	Stripping ratio or ore to OB ratio	1:0.25	1:0.49	Tonne: Cum
2d	Quantity of topsoil generation in m3	103250 M³	103048 M³	
2e	Quantity of overburden generation	2810000 M³	3749592 M³	

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1/27626/20	24	in m3	
	2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The actual developments have not been carried out as envisaged in the approved Review of Mining Plan. Violation of Rule 11(1) of MCDR 2017 pointed out in this regard.

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
	1	EXPLOITATION	,	
3a	Number of Pit Proposed for Production	Pit 01 & 02	Pit 01	Pit No.02 (Block-01) has not been developed as envisaged in the approved RMP. Violation under Rule 11(1) of MCDR, 2017 pointed out in this regard.
3b	Quantity of ROM mineral production proposed	11.06 Million Ton	7.60 Million Ton	Less production to cater the needs of captive plant & low business environment
3c	Recovery of Sailable/ Usable Mineral from ROM Production	100%	100%	
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
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	No such study carried out	
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	Depth of hole 12m, Dia of hole 150mm to 165mm, Burden-4.0m-5.0m, Spacing – 6.0m-

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626/2024				7.0m Type of explosive used –Slurry explosives & ANFO
3k	Provision of mining machineries in mineral benches	Yes, HEMMs	HEMMs deployed	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mineral bench height- 12 Meter Overburden bench height- 5	Bench height and width have been maintained as per proposal.	
3m	Total area covered under excavation/pits	268.5 Ha. up to the end of plan period 2024-25	About179.60 Ha. up to end of FY 2022-23	
3n	Ore to OB ratio for the pit/mine during the year	1:0.25	1.0.49	Tonne:Cum
30	Total area put in use under different heads at the end of year	Total put to use-377.67 Ha. up to 2024-25	About 299.00 ha Up to end of F.Y. 2022-23	
3p	Production of ROM mineral during last five-year period, as applicable	2018-2019 = 8600000T 2019-2020 = 8600000T 2020-2021 = 8600000T 2021-2022=11060000T 2022-2023=11060000T	2018-2019 = 6572418T 2019-2020 = 5739914T 2020-2021 = 5767492T 2021-2022 = 5283713T 2022-2023 = 7602115T	As per AR 2022-23 submitted
3q	General remarks of inspecting officer on method of mining etc.		g carried out by deploymenting. Less production is reaptive cement plant.	

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
SOL	ID WASTE MANAGEN	MENT - DUMPING:-		
4a	Separate Dumping of Topsoil, OB and Mineral Rejects	Separate dumping of Waste /OB proposed	Separate dumping for Waste /OB carried out	Top Soil dump -1 OB dump - 7
4b	Location of Topsoil, OB and Mineral Rejects Dumps	Dump-1 E609400 to E609600 N2390328 to N2390400 Dump-2 E612400 to E612600 N2389200 to N2389400 Dump-3 E610925 to E611146 N2390757 to N2390852 Dump-4 E611543 to E611699 N2390800 to N2391000 Dump-5 E612200 to E612600 N2390400 to N2390672 Dump-6 E612800 to E613200	Waste dumps are made as proposed. However, one (01) additional waste dump is made near to dumper parking area.	Violation under Rule 11(1) pointed out

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1/27626/2027	4		N2389000 to N2389400		
2	4c	Number of Dumps within Lease & Outside Lease area	WML-08 Dumps OML- Nil	WML-09 Dumps OML- Nil	
2	4d	Location of Dumps, within Ultimate Pit Limit	Proposed within UPL	Within UPL	
4	4e	Number of Active & Alive Dumps	8	9	
4	4f	No of Dead Dumps	1	1	Dump No. 7 dead dump
2	4g	No of Dumps stabilized	1	1	
2	4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	Not constructed fully around the dumps	Violation under 11(1) issued
2	4i	Length of Retaining Wall or Garland drain along Dumps	Garland drain –2350 Meter Retaining wall – 2350 Meter	Not found constructed around the dumps	Violation under 11(1) issued
4	4i	No. of Settling tanks	No proposal	Not Applicable	
	4k	Specific comments of inspecting officer on waste dump management	One additional waste of place (Boundary Pillar-RMP. Environmental place not been construct	dump has been made nea (58) in about 3 Ha area with protective measures arounded as envisaged in RMP. Soointed out in this regard.	hout such approval in and the waste dumps

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
	SOLII) WASTE MANAGEME	NT - 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	

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202	24 5d	Total area fully reclaimed and rehabilitated	No proposal	Not applicable	
	5e	General remarks of inspecting officer on backfilling, reclamation etc.	Mineral has not been ex backfilling.	hausted fully & thus no pro	oposal was given for

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
PRC	GRESSIVE MINE CLO	SURE PLAN: -		
ба	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 29.06.2023
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 method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal	Nil	No area is mined out fully at present
6с	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	No proposal	Nil	No area has got matured for reclamation and rehabilitation purposes
6d	Compliance of Rehabilitation of waste land within lease	i) 1200 Nos. ii) 1.00 Ha. iii) By Green Belt	i) 1200 Nos. ii) About 1.00 Ha. iii) By Green Belt	1200 Nos. samplings @ 90 survival

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1/27626/20	24	i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation			
	6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring of air, water & noise proposed	Environmental monitoring of air, water & noise was carried out as per the proposal	All values of environment parameters were within permissible limits
	6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	Annual PMCP report has been submitted. Plantation has been carried out as per the proposal.		on has been carried

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks				
MIN	MINERAL CONSERVATION: -							
7a	ROM mineral dispatch or grade wise sorting within lease area	Direct ROM dispatch to their captive plant	Blasted ROM is being fed to the crusher for further sizing & dispatched to their captive cement plant by belt conveyors					
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	Blending by mechanized method	Bench wise blending as per the requirement of the cement plant					
7c	Different grade of mineral sorted out at mines	No proposal	Nil					
7d	Any beneficiation process at mines	No proposal	Nil					
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The run of mine ore is fed to crushers for sizing for feeding to the cement plant. Proper use of the combination of low-grade and high-grade limestone to prepare the pile by using cross belt analyzer.						

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks			
ENV	ENVIRONMENT: -						
8a	Separate removal and utilization of topsoil	Separate removal and utilization of topsoil proposed	Generated topsoil used for plantation	Topsoil generation- 103048 m3, Total topsoil used for plantation			
8b	Concurrent use or storage of topsoil	Concurrent use for Green belt development	Concurrent used for Green belt development				

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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	1200 Nos. of saplings within ML area covering 1 Ha area	With in lease area 1200 nos. saplings	
8g	Survival rate	Not specified	90 %	
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		round the mine area was good	d.

Sl. No	Item Comments			Remarks
CON	MPLIANCE OF RULE-4			
9a	Status of Submission of Monthly & Annual Returns	\mathcal{E}		
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	Manager- Amit Chauhan Geologist- Arun Soni Mining Engineer- Madhab Sumohan	Employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	299.96 На	About 299 Ha.	
9d	Scrutiny of Annual return on afforestation	With in lease area 1200 @ 90 % survival	Appears to be correct	

File No. MCDR-MCTDCRLS/TTF/400LS/TD2460RPCR2B3RIP_ROB_RIP_RQCR3PRPouter No. 9279)

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	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- 7602115 Closing stock-Nil	Appears to be correct	
	9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex. Mine price and cost of production – Rs. 268.99/Tonne Sale value-Nil	Captive consumption	
	9i	Scrutiny of Annual return on fixed assets	Rs. 287489628/- including Plant and Machinery including transport equipment, exploration etc.	Appears to be correct	
	9k	Scrutiny of Annual return on mining machineries	6 Back hoe, 6 drill,2 crane, 2 Crusher, 5 Dozer,33 Dumper, 2 Explosive van, 3 Generator, 1 Motor grade, 3 Pumps, 3 water tanker	Observed deployed	

10- Details of violations observed during current inspection: -Violation of Rule 11(1) of MCDR 2017 is pointed out after current inspection.

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