MCDR Report (2022-23)

1) Name of Inspecting officer:	Shri Prasant Kumar Sahu	
2) Designation	Assistant Mining Engineer	
3) Accompanying mine official with designation	Shri Amit Chauhan (AGM Mines),	
	Shri Hemraj Singhal (Manager Mines)	
4) Date of Inspection	22.09.2023	
5) Date of Previous Inspection	This is the first (01st) inspection after the	
_	opening of the mine i.e. 11 th Aug 2022.	

I. GENERAL INFORMATION

Sl. No	Particulars	Details
1	Name of the Mine	Karhi-Chnadi Limestone Mines
2	Total Lease Area (Ha) with breakup of	Non- forest land – 225.719 Ha,
	Non-forest and forest land	Forest land – 0.00 Ha
3	Mine Code	38CHG644001
4	IBM Registration Number under rule 45 of MCDR, 1988/2017	IBM/960/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. Shree Cement Limited, Post Box No. 33, Bangur Nagar, Beawar, Masuda, Phone No-07727203101, E-mail-shreebwr@shreecement.com, Fax No-07712430007
6	Village	Karhi-Chandi
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	24.03.2021
15	Date of Execution	18.03.2023
16	Date of opening of Mine	11.08.2022
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 Address, phone, email, fax number and date of appointment	Shri Neeraj Akhoury, Address- Bangur nagar, Post Box No33 Beawar Pin code – 305901, Rajasthan Phone 01462- 243413 Email- Neeraj.Akhoury@shreecement.com Date of appointment – 08.02.2023
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri Mahendra Kumar Garg, Address- A-15 Shree Vihar, Bangur Nagar, Beawar – 305901 Raj. Phone 01462- 243413 fax no 01462-228117,

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		Email- gargmk@shreecement.com Date
		of appointment – 18.08.21
22	Name of the Mines Manager with	Shri Hemraj Singhal,
	Address, phone, email, fax number and	Address- C-244, SRCP Township
	date of appointment in mines	village- Bharuwadih, Tehsil- Baloda
		bazar Distt Balodabazar pin code-
		493332, phone no. – 9214776224 Email-
		hemraj.singhal@shreecement.com,
		Date of appointment -02.05.2022
23	Name of the Mining Engineer,	Shri Hemraj Singhal,
	Qualification and total experience with	Address- C-244, SRCP Township
	Address, phone, email, fax number and	village- Bharuwadih, Tehsil- Baloda
	date of appointment in mine	bazar Distt Balodabazar pin code-
		493332, phone no. – 9214776224 Email-
		hemraj.singhal@shreecement.com,
		Date of appointment- 02.05.2022
24	Name of the Geologist, Qualification	Amit Singh Tanwar,
	and total experience with Address,	Qualification – M.Sc. (Geology)
	phone, email, fax number and date of	Experience – 10 years Address – SRCP
	appointment in mine	Township village- Bharuwadih, Tehsil-
	арронинени и инис	Baloda bazar Distt Balodabazar pin
		code- 493332 Mobile – 9214037391,
		Email- amit.tanwar@shreecement.com
		Date of appointment - 02.05.2022
25	Whether Geologist and Mining	Yes
23	Engineer appointed in mines satisfy the	105
	rule 55 &carrying out their duties as per	
	rule 56 & 57 of MCDR, 2017.	
26	Date of Approval of Mining	Approval letter no.
	Plan/Modified Mining Plan with five-	BALODABA/CHUP/KHA YO-
	year period and specific condition in	1284/2021/Raipur/dated09.07.2021
	approval letter, if any.	Date of approval -09.07.2021
	, ,	Mining plan period -2021-22 to 2025-26
27	Date of Approval of Scheme of	Not Applicable
	Mining/Modified Scheme of Mining	
	with five-year period and specific	
	condition in approval letter, if any.	
28	Mineral(s) granted in lease and proved	Limestone
	for mining	
29	Method of Mining (Opencast,	Opencast
	Underground)	
30	Category (Fully Mechanized, Others or	Fully Mechanized
	Manual)	
31	Captive/Non Captive	Captive

II. SCIENTIFIC MINING

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

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks		
	A. EXPLORATION:-					
1a	Backlog of Previous Year	2021-22- 35 Nos.	Borehole – 72 Nos. (2022-2023)			
1b	Exploration Over Lease area for Geological Axis 1 or 2	2022-23- 37 Nos.	72 Nos.	The backlog exploration proposal for FY 2021-22 and the proposal for FY 2022-23 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. 7320600/-	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 based on the recent exploration		
1e	Balance reserves as on 01/04/2023	Under 111- 57.80 Million Tonne As per submitted Annual Return 2022-23				
1f	General remarks of inspecting officer on geology, exploration etc.	The exploration proposed for this financial year (2022-23) along with the backlog proposal for the year 2021-22 has been completed in year 2022-23 by drilling 72 nos. bore holes. The entire potential mineralized area has been explored under G-1 level of exploration based on the recent exploration carried out.				

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
DEA	ELOPMENT: -			
2a	Location of development w.r.t. lease area	Development proposed in one (01) pit namely Pit No.01 (Block-03) and Pit No.02 (Block-01)	Pit has 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.	Mineral bench – 2 No.
2c	Stripping ratio or ore to OB ratio	1:0.12	1:25.5	Ore and OB ratio in tonee/ m3 Overburden generation is on the higher side. As this is a new mine and

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				mining commenced from 22.03.2023 in FY 2022-23, so mainly development works were carried out with very less limestone production
2d	Quantity of topsoil generation in m3	No proposal	Nil	
2e	Quantity of overburden generation in m3	36160 M³	4272 M³	
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	However, actual develor and also the actual of envisaged in the approv	ment were carried out with pment was less in compart levelopments have not by yed Review of Mining Pla was pointed out for less	rison to the proposal been carried out as in. Violation of Rule

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
EXF	PLOITATION: -			
3a	Number of Pit Proposed for Production	Pit 01	Pit 01	Pit No.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	302600 Ton	167.5 Ton	As this is a new mine and mining commenced from 22.03.2023 in FY 2022-23, so mainly development works were carried out with very less limestone production.
3c	Recovery of Saleable / Usable Mineral from ROM Production	100%	100%	1
3d	Quantity of mineral reject generation	No proposal	Nil	
3e	Grade of mineral reject generation and	No proposal	Nil	

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	threshold value			
	declared Quantity of sub-grade	No proposal	Nil	
3f	mineral generation			
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanised 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	Not carried out	As this is new mine deep hole drilling and blasting permission from the DGMS was under process.
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 meters and 50 meter minimum width	Bench height and width were not maintained as proposed	Violation under Rule 11(1) of MCDR, 2017 pointed out in this regard.
3m	Total area covered under excavation/pits	9.15 Ha. up to the end of plan period i.e. FY 2025-26	About 1 Ha. up to end of FY 2022-23	
3n	Ore to OB ratio for the pit/mine during the year	1:0.12	1:25.5	As this is a new mine and mining commenced from 22.03.2023 in FY 2022-23, so mainly development works were carried out with very less limestone production
30	Total area put in use under different heads at the end of year	Total put to use-16.10 Ha. up to 2025-26	About 2.4 ha Up to end of F.Y. 2022-23	
3p	Production of ROM mineral during last five-year period, as applicable	2021-2022-300300 2022-2023-302600	2021-2022- Nil 2022-2023- 167.5 Ton	As per AR 2022-23 submitted
3q	General remarks of inspecting officer on		carried out by deploymen not maintained as envisag	

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		method of mining etc.	Review of Mining Plan. Violation under Rule 11(1) of MCDR, 2017	
			pointed out in this regard.	

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	No separate dumping was done	All the OB generated has been disposed of in the periphery/safety zone of the mine boundary
4b	Location of Topsoil, OB and Mineral Rejects Dumps	Two (02) temporary IB dumps were proposed on the eastern and western side of the ML area	No dumping was carried out	
4c	Number of Dumps within Lease & Outside Lease area	02	No dumping was carried out	
4d	Location of Dumps, within Ultimate Pit Limit	Proposed beyond UPL	No dumping was carried out	
4e	Number of Active & Alive Dumps	02	Nil	
4f	No of Dead Dumps	No proposal	Not Applicable	
4g	No of Dumps Established	No proposal	Not Applicable	
4h	Whether Retaining Wall or Garland drain along Dumps are there	Yes	Not constructed	No dumping was carried out
4i	Length of Retaining Wall or Garland drain along Dumps	Retaining wall-270 m Garland drain- 290 m	Not constructed	
4j	No. of Settling tanks	No proposal	Not Applicable	
4k	Specific comments of inspecting officer on waste dump management	All the overburden periphery/safety zone of	generated has been defined the mine boundary.	isposed of in the

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
	SOLII	O WASTE MANAGEMEN	T - 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

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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.	Mineral has not been exhabackfilling.	austed fully & thus no pro	oposal was given for

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks		
PRC	PROGRESSIVE MINE CLOSURE 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 30.06.2023		
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	No proposal	Nil	No area has got matured for reclamation and rehabilitation purposes		

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	reservoir v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Afforestation - 1200 ii) Area rehabilitated (ha) -0.72 Ha iii) Method of rehabilitation- Green Belt	i) Afforestation - 1200 ii) Area rehabilitated (ha) -About 0.7 Ha iii) Method of rehabilitation – Green belt	Outside lease area- 1370 Nos. trees planted @ 90 % survival
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.		

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
MIN	ERAL CONSERVATIO	N:-		
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 captive cement plant	
7b	Method of Grade-wise mineral sorting i.e. manual or mechanical	Blending by mechanized method	Benchwise 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 f	ed to the captive cement pl	ant.

Sl. No	Item	Proposals (2022-23)	Actual Work (2022-23)	Remarks
ENV	VIRONMENT: -			
8a	Separate removal and utilization of topsoil	No proposal	Nil	No proposal for topsoil generation
8b	Concurrent use or storage of topsoil	No proposal	Nil	

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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 0.72 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 go	ood.

Sl. No	Item	Comments		Remarks		
CON	COMPLIANCE OF RULE-45: -					
9a	Status of Submission of Monthly & Annual Returns	MR being submitted regularly AR Submitted up to = FY 2022-23				
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- Hemraj Singhal Geologist- Amit Kumar Tanwar Mining Engineer- Hemraj Singhal	Employed			
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	2.44 Ha.	About 2.4 Ha.			
9d	Scrutiny of Annual	With in lease area 1200	Appears to be correct			

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		return on afforestation	@ 90 % 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- 167.500 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. 82843.61/Tonne Sale value-Nil	Captive consumptions	As this is a new mine and mining commenced from 22.03.2023 in FY 2022-23, so mainly development works were carried out with very less limestone production.
	9i	Scrutiny of Annual return on fixed assets	Rs. 7320600/- Capitalized Expenditure such as pre-production exploration, development, major overhaul and repair to machinery etc.	Appears to be correct	
	9k	Scrutiny of Annual return on mining machineries	01 Back hoe and 02 dumper	Observed deployed	

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

प्रशान्त कुमार साहू / Prasant Kumar Sahu सहायक खनन अभियंता / Assistant Mining Engineer भारतीय खान ब्यूरो, रायपुर/ Indian Bureau of Mines, Raipur