

Sl.N	PARTICULARS	DETAILS
1	File No.	CHG/RAP/LST-76/NGP
2	Name & Designation of the inspecting officer	Arun Kumar , Regional Controller of Mines
3	Date of Inspection	02.09.2022
4	Date of Last Inspection & Officer	B. L. Gurjar, Regional Controller of Mines, Date: 13.08.2021
5	Accompanying mine personnel	Shri Amit Chauhan, Manager (Mines)
6	Name of the Mine	SHREE LIMESTONE MINE
7	Total Lease Area (Ha) with breakup of Non-forest and forest land	Non- forest land - 531.126 Ha, forest land – 0.00 Ha
8	Mine code	38CHG14027
9	IBM Registration Number under rule 45 of MCDR, 1988	IBM/960/2011
10	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, <a href="mailto:shreebwr@shreecement.com">E-mail-shreebwr@shreecement.com</a> , Fax No-07712430007
	Village	Semaradih-Bharuwadih
	Taluka/Mandal	Baloda Bazar
	District	Baloda Bazar
	Pin code	493332
	State	Chhattisgarh
	Post office	Baloda Bazar
11	Nearest police station	Suhela
12	Nearest Railway station	Bhatapara
13	Date of Grant of Mining Lease	09/07/ 2010
14	Date of Execution	11/01/2011
15	Date of opening of Mine	17/12/2012
16	Weekly day of rest	Relay System
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Prakash Narayan Chhangani, M/s Shree cement Ltd.,BangurNagar,PostBoxNo. 33, Beawar Pin code-305901, Phone – 01462228101 Email-shreebwr@shreecement.com
19	Name of the Mine Agent with Address, phone, email, fax	MahendrakumarGarg, A-15 Shree Vihar, Bangur Nagar, Beawar – 305901 Raj. Phone 01462- 243413

	number and date of appointment	fax no.- 01462-228117, Email- <a href="mailto:gargmk@shreecement.com">gargmk@shreecement.com</a> Date of appointment – 28.02.2017
20	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	AmitChauhan, B-124, SRCP colony village- Semradih, Tehsil- Baloda bazar Distt.- Balodabazar pin code- 493332, phone no. – 9214337329 Email- <a href="mailto:amit.chauhan@shreecement.com">amit.chauhan@shreecement.com</a> , Date of appointment in mines - 05.01.2022
21	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	MadhabSumohan, Qualification - B.Tech. (Mining) Total experience – 10 year Address – C-25 krishayan colony, Balobabazar, Dist.-Balodabazar, Pin code 493332 Phone no.- 8349301298, Email- madhab.sumohan@shreecement.com
22	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 42 & carrying out their duties as per rule 43 & 44.	ArunSoni, Qualification – M.Sc. (Geology) Experience – 10 years Address – Civil line Bhatapara, pin code- 493118 Mobile – 8085351442, Email- <a href="mailto:Arun.Soni@shreecement.com">Arun.Soni@shreecement.com</a>
23	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Approval letter no. BALODABA/CHUP/KHA YO-1219/2019/Raipur/dated 09.12.19 up to 31 <sup>st</sup> March 2025. Five – year period - 1 April 2020-31 March 2025 Modified mining plan date - 09/12/2019
24	Mineral(s) granted in lease and proved for mining	Limestone
25	Method of Mining (Opencast, Underground)	Opencast
26	Category (Fully Mechanized, Others or Manual)	Fully Mechanized
27	Captive/Non-Captive	Captive
28	EC for ROM Prod: Date of Issue:	11.06MT Date of Issue – 27.08.2022
29	FA amount Rs Valid up to:	Rs18,88,35,000/- valid up to 31.03.2025

### **1.0 EXPLORATION**

<b>SN</b>	<b>ITEM</b>	<b>PROPOSALS (2021-22)</b>	<b>ACTUAL WORK (2021-22)</b>	<b>REMARKS</b>
1a	Backlog of previous year	17 boreholes proposed during the year 2020-21	No exploration carried out	Violation of Rule 11(1) of MCDR, 2017 pointed out.
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1-531.16 Ha	236 nos of core bore holes have been drilled in the past. Out of 531.126 Ha, 434.186 Ha is mineralized & 96.94 Ha is non mineralized as per the approved document
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specified	Nil	Rs.Two crore ten lakhs were incurred for exploration activities in the past
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	However 17 core bore holes were proposed to be drilled in Block 1 & Block 3 to prove depth continuity
1e	Balance reserves as 01.04. 2021 (million tonnes)	Nil	184 Million Tons of reserves with average quality of 43.12 CaO	As per Annual Returns submitted for the year 2021-2022
1f	General remarks of inspecting officer on geology, exploration etc.	The deposit is regular strata bound deposit. However previously drilled boreholes were terminated in Limestone zone, exploration of 17 boreholes up to a depth of end of mineralisation was proposed during the year 2020-21. Since, no exploration has not been carried out citing COVID situation, Violation of Rule 11(1) of MCDR, 2017 was pointed out.		

### **2.0 DEVELOPMENT**

<b>SN</b>	<b>ITEM</b>	<b>PROPOSALS (2021-22)</b>	<b>ACTUAL WORK (2021-22)</b>	<b>REMARKS</b>
2a	Location of development	Block-1, E609200 to E609756, N2389309 to	Block-1, E609210 TO E609746,	

	w.r.t. lease area	N23390021 Block-3,E610041 To E612048, N2389314 To N2390671	N2389329 TO N23390008 Block-3,E610203 To E611911, N2389311 To N2390581	
2b	Separate benches in topsoil, overburden and mineral (Rule 15)	Topsoil- 0.25m. Overburden – 11m Mineral - 12m	Topsoil- 0.75m. Overburden – 6m Mineral – 12m	
2c	Stripping ratio or ore to OB ratio	1:0.44	1:0.88	
2d	Quantity of topsoil generation in m <sup>3</sup>	112500 m <sup>3</sup>	104000 m <sup>3</sup>	
2e	Quantity of overburden generation in m <sup>3</sup>	2530000 m <sup>3</sup>	2491667 m <sup>3</sup>	TCF(T/m3): Top Soil- 1.6, OB- 1.8,Limestone- 2.5
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The development of quarry in pit no.2 second bench is not developed as per proposal due to lack of demand of Limestone from the captive plant. Top soil and waste handling are almost as proposed.		

### **3.0 EXPLOITATION**

<b>S.N.</b>	<b>ITEM</b>	<b>PROPOSAL (2021-22)</b>	<b>ACTUAL WORK (2021-22)</b>	<b>REMARK</b>
3a	Number of pits proposed for production	Pit- 1& 2	Pit -1&2	No production & development work had been carried out in pit no. 2. Violation of 11(1) of MCDR, 2017 is pointed out.
3b	Quantity of mineral production proposed	11.06 MT	5.28 MT	Violation of 11(1) of MCDR, 2017 is pointed out
3c	Recovery of saleable/usable mineral from production	100%	45.51%	
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 method proposed for segregating from ROM	Mechanized method adopted for segregating from ROM	2 crushers installed for crushing.
3i	Any analysis or beneficiation study proposed & carried out	No proposal	No such study carried out	

	for sub-grade mineral and reject			
3j	Provision of drilling & blasting in mineral benches	Provision of drilling & blasting made in mineral benches	Drilling & blasting is carried out in the mineral benches	Depth of hole -12m, Diameter of hole -165mm, Burden-4.0m-5.0m, Spacing - 5.0m-7.0m Charge of explosive per hole-110Kg-150Kg, Power Factor-6-7, Type of explosive to be used -Emulsion(SME), Slurry explosives & ANFO,
3k	Provision of mining machineries in mineral benches	Shovel dumper combination proposed	Mining is done using Shovel dumper combination.	Two excavators & 05 Dumpers were observed in operation on the day of inspection. Lower benches were water logged.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Overburden - 6m Mineral - 12m	Bench height & width maintained. Overburden - 6m Mineral - 12m	
3m	Total area covered under excavation/pits	268.5 Ha at the end of plan period	156.500 Ha at the end of reporting year	
3n	Ore to OB ratio for the pit/mine during the year	1:0.43	1:0.88	
3o	Total area put in use under different heads at the end of year	Area under mining-268.5 Ha, Storage of top soil-27.09 Ha, Waste dump site-49.68 Ha, Mineral storage-3.5 Ha, Infrastructure-3.4 Ha, Roads-3.5 Ha, Township area-22 Ha, at the end of plan period	Covered under currentworking: 156.5 ha, used for waste dump- 25.4 ha, occupied by plant & building- 6.9 ha, other purpose (township+top soil+Storage+ Plantation) - 81 ha	Land use as furnished in Annual Return
3p	Production of mineral during last five-year period, as applicable (tones)	2017-18: 5820000	4112837	Actual production is within the proposed quantity .All units in MT. Violation of 11(1) of MCDR, 2017 is pointed out for lower production
		2018-19: 10720000	6572418	
		2019-20: 8600000	5739914	
		2020-21: 8600000	5767492	
		2021-22	5283713	

		11060000		
3q	General remarks of inspecting officer on method of mining etc.	Production was carried out using deployment of HEMM with the help of drilling & blasting.		

#### **4.0 SOLID WASTE MANAGEMENT-DUMPING**

<b>SN</b>	<b>ITEM</b>	<b>PROPOSALS (2021-22)</b>	<b>ACTUAL WORK (2021-22)</b>	<b>REMARKS</b>
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Separate dumping of Topsoil & OB proposed	Separate dumping of topsoil and OB carried out.	
b	Location of topsoil, OB & mineral reject 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 N2389000 to N2389400 Dump-7 E612600 to E612892 N2389344 To N2389600	Dump-1 E612238 to E612339 N2390563 to N2390656 Dump-2 E612495 to E612654 N2389279 to N2389511 Dump-3 E611131 to E610960 N2390728 to N2390851 Dump-4 E611542 to E611547 N2390802 to N2390980 Dump-5 E612389 to E612611 N2390371 to N2390564 Dump-6 E612799 to E613170 N2388963 to N2389361 Dump-7 E612654 to E612804 N2389325 To N2389511	
4c	Number of dumps within lease area and outside lease area	WML-07 Dumps  OML- Nil	WML-07 Dumps  OML- Nil	
4d	Location of dumps w.r.t.	Temporary OB	UPL E612479 to	Dumps are

	ultimate pit limit (Rule 16)	dumps proposed within UPL	N2389195 Dump2 E612495 to N2389198 Dump7 E612654 to N2389279 UPL E612830 to N2389177 Dump6 E612864 to N2389171	inside the UPL & temporary in nature.
4e	Number of active & alive dumps	6 Dumps	6 Dumps	
4f	Number of dead dumps	1Dump	1Dump	
4g	Number of dumps stabilized	1Dump	1Dump	Plantation has been carried out
4h	Whether Retaining wall or garland drain all along dumps are there	Garland drain -Yes	Garland drain – yes	
4i	Length of Retaining wall or garland drain all along dump	Garland drain -Yes	Constructed Garland drain of 1100m	Violation issued for non construction of retaining wall.
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer	Waste dump management was satisfactory. Top soil stacking and waste dumping were carried out as per proposal.		

### **5.0 SOLID WASTE MANAGEMENT-BACKFILLING**

<b>SN</b>	<b>ITEM</b>	<b>PROPOSALS (2021-22)</b>	<b>ACTUAL WORK (2021-22)</b>	<b>REMARKS</b>
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	No area is mined out.
5b	Area under backfilling of mined out area	No proposal	Nil	-do-
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	No proposal	Top soil is used for plantation	-do-
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc	Mineral has not been exhausted fully & hence no area has been backfilled.		

### **6.0 PROGRESSIVE MINE CLOSURE PLAN**

<b>SN</b>	<b>ITEM</b>	<b>PROPOSALS (2021-22)</b>	<b>ACTUAL WORK (2021-22)</b>	<b>REMARKS</b>
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6a	Whether Annual report on PMCP submitted on time and correctly - Rule 23E (2). Details should be given in the format as given in Annexure-20.	To be submitted before 01 <sup>st</sup> July every year	PMCP report received in time	Annual return submitted on 30.06.2022.
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha)	No proposal	Nil	No area is mined out at present.
	ii) Afforestation done (ha)	No proposal	Nil	-do-
	iii) No. of saplings planted during the year	No proposal	Nil	-do-
	iv) Cumulative no. of plants	No proposal	Nil	-do-
	v) Any other specific method of rehabilitation	No proposal	Nil	Rain water collected at the bottom of the dug out pit
	vi) Cost incurred on watch & care during the year	No proposal	Nil	-do-
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	No proposal	Nil	No backfilling proposal
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	i) Afforestation - yes ii) Area rehabilitated : 1ha iii) Method of rehabilitation-plantation of 1200 saplings	i) Afforestation - yes ii) Area rehabilitated (ha) - 1Ha iii) Method of rehabilitation – 1200 saplings	WML- 1200saplings @90% survival & 14200 saplings outside the ML area
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring proposed	Environmental monitoring carried out	2 Nos of AQMS each in core & buffer zone.02 piezometers with online telemeter



				for water level indicator
6f	General remarks of inspecting officer on PMCP compliance & progressive	Annual PMCP report has been submitted. Plantation has been done as per proposal.		

### **7.0 MINERAL CONSERVATION**

<b>SN</b>	<b>ITEM</b>	<b>PROPOSALS (2021-22)</b>	<b>ACTUAL WORK (2021-22)</b>	<b>REMARKS</b>
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct ROM dispatch to their captive plant	Blasted material is 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	No proposal	Bench wise blending as per the requirement of cement plant	02 nos of crusher installed for further sizing
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 production from the mine is on lower side due to reduced demand from the captive cement plant. The run of mine ore is fed to crushers for sizing for feeding to cement plant.		

### **8.0 ENVIRONMENT**

<b>SN</b>	<b>ITEM</b>	<b>PROPOSALS (2021-22)</b>	<b>ACTUAL WORK (2021-22)</b>	<b>REMARKS</b>
8a	Separate removal and utilization of topsoil (Rule 32)	Separate removal and utilization of topsoil proposed	All the top soil generated is concurrently used for plantation	104000 m <sup>3</sup> of top soil generated & used.
8b	Concurrent use or storage of topsoil	Concurrent use – Yes, Green belt development	Concurrent use – Yes Green belt development	

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate OB dump –Yes	total 6 active separate dump	
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	Rain water collected in the bottom of the dug out pits
8f	Baseline information on existence of plantation & additional plantation done (Rule 41)	1200 saplings within ML area covering 1 Ha	Proposed no of saplings planted	
8g	Survival rate	Not specified	90%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to suppress the dust	Continuous water sprinkling on haul roads by water tankers to suppress the dust generated; Along with this at crushers Bag filters are in place for preventing dust to become airborne	18 KL water tanker deployed for suppression of dust.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines are	Aesthetic beauty in & around the mine area was good as the lessee had carried out afforestation & environmental protection measures as per the proposal.		

## **9.0 COMPLIANCE OF RULE 45**

S. N.	Item	Details GIVEN in A.R.	Observation of I/Officer	Remarks
9 a	Status of submission of monthly and Annual returns	Monthly Returns submitted up to – July 2022, Annual Return submitted up to -2021-22	Submitted AR on 30.06.2022	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager- Amit Chauhan, Mining Engineer – Madhab Sumohan, Geologist - Arun Soni	Same mine officials were present during the course of action.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area,	Covered under current working: 156.5 ha, Waste dump: 25.4 ha, Occupied plant & building: 6.9 ha, Other	Appears to be correct.	

	dumps etc.	purpose: 81 ha		
9d	Scrutiny of Annual return on afforestation	WML- 1200 saplings & OML-14200 saplings @ 90% survival rate	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	NIL	No generation of mineral rejects reported.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock- Nil, Production- 5283713 tons, closing stock- Nil	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex mine price & cost of production- Rs 291.48/Ton Sale Value: Nil	Limestone from the mine is used for captive consumption in cement plant	
9i	Scrutiny of Annual return on fixed assets	Fixed assets –Rs. 166061329/- including plant & machinery & transport equipment.	Appears to be correct.	
9k	Scrutiny of Annual return on mining machineries	Back hoe(6 cum) - 08, dumper(55 tonne) - 28, dozer(320 HP)-05, blast hole drill(160mm)- 07, front end loader(3.3 cum) - 03, water tanker(18000lit) -02	Observed during the visit to the mine.	

10- Details of violations observed during current inspection and compliance position of earlier violation: Violation of Rule 11(1) & 26(1) have been pointed out. No outstanding violation.

Date: 14.09.2022

अरुण कुमार / Arun Kumar  
क्षेत्रीय खान नियंत्रक / Regional Controller of Mines  
भारतीय खान ब्यूरो / Indian Bureau of Mines