

MCDR INSPECTION REPORT

General

S. N.	Particulars	Details
1	Name of the Mine	KHATKURBHAL NORTH BLOCK LIMESTONE AND DOLOMITE MINE
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	156.43 Ha, Forest Land- Nil
3	Mine Code	38ORI373001
4	IBM Registration Number under rule 45 of MCDR, 1988	IBM/4177/2011
5	Name of the lessee, Address, phone, email and fax number	M/s Shiva Cement Limited, Village-Telighana, PO- Biringatoli, Tehsil-Kutra, Dist- Sundargarh, Odisha-770018. Email- corporate@shivacement.com Phone-8966892531
6	Village	Khatkurbahal & Falsakani
7	Taluka/Mandal	Kutra
8	District	Sundargarh
9	Pincode	770018
10	State	Odisha
11	Post office	Khatkurbahal
12	Nearest police station	Kutra
13	Nearest Railway station	Rajgangpur
14	Date of Grant of Mining Lease	26.08.2022
15	Date of Execution	15-11-2022
16	Date of opening of Mine	25.01.2023
17	Date of first Renewal, if applicable and its period & expiry	NA
18	Date of second Renewal, if applicable and its period & expiry	NA
19	Date of submission of renewal application if Mining Operations are continuing under deemed extension	NA
20	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Manoj Kumar Rustagi, Nominated Owner and Whole Time Director, M/s Shiva Cement Limited, Village-Telighana, PO- Biringatoli, Tehsil-Kutra, Dist- Sundargarh, Odisha-770018. Email- manoj.rustagi@jsw.in Phone- 9324039201 Date of appointment in mine. 01.01.2020.
21	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Sri Gajendra Prasad Sahu, Agent and HOD Mines, M/s Shiva Cement Limited, Village-Telighana, PO-

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		Biringatoli, Tehsil-Kutra, Dist-Sundargarh, Odisha-770018. Email- gajendra.sahu1@jsw.in Phone-8966892531 Date of appointment in mine. 24.11.2022
22	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Sri Chitta Ranjan Mohapatra Manager Mines, M/s Shiva Cement Limited, Village-Telighana, PO- Biringatoli, Tehsil-Kutra, Dist- Sundargarh, Odisha-770018. Email- chittaranjan.mohapatra@jsw.in hone-9437105803 Date of appointment in mine. 30.03.2023
23	Name of the Mining Engineer, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Chitta Ranjan Mohapatra BE Mining Mining Engineer. Total experience. 13 Years M/s Shiva Cement Limited, Village-Telighana, PO- Biringatoli, Tehsil-Kutra, Dist- Sundargarh, Odisha-770018. Email- chittaranjan.mohapatra@jsw.in hone-9437105803 Date of appointment in mine. 24.11.2022
24	Name of the Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Sri Ritesh Chattaraj M. Sc. Applied Geology, Total experience. 19 Years M/s Shiva Cement Limited, Village-Telighana, PO- Biringatoli, Tehsil-Kutra, Dist- Sundargarh, Odisha-770018 ritesh.chattaraj@jsw.in Phone- 8886687571 Date of appointment in mine. 15.07.2023
25	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55& carrying out their duties as per rule 56 & 57.	Yes. Sri Chitta Ranjan Mohapatra – Mining Engineer Sri Ritesh Chattaraj - Geologist
26	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	
27	Date of Approval of Scheme of Mining/ Modified Scheme of Mining with five-year period and specific condition in approval letter, if any.	22.04.2021
28	Mineral(s) granted in lease and proved for mining	Limestone and Dolomite

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29	Method of Mining(Opencast, Underground)	Opencast
30	Category (Fully Mechanised, Others or Manual)	Fully Mechanized.
31	Captive/Non Captive	Captive

Scientific Mining: Compliance of proposals of approved mining plan/scheme of mining. (Duplication of information in existing TMIS data sheets and draft write up has been avoided.)

Exploration

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
1a	Backlog of previous year			
1b	Exploration over lease area for Geological axis 1 or 2.	16 no of boreholes	25 no of boreholes	
1c	Exploration Agency & Expenditure in lakh Rupees during the year	M/s Geo Drill Geo-technics & Survey, Pune 24.52 Lakh	M/s Geo Drill Geo-technics & Survey, Pune 39.44Lakh including GST.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserves as per latest approved document	Limestone: 53.38 million tones Dolomite: 76.88 million tones as per the last approved modification of mining plan.	Limestone: 53.38 million tones Dolomite: 76.88 million tones as per the last approved modification of mining plan.	Production from the mine has not started till the date of inspection.
1f	General remarks of inspecting officer on geology, exploration etc.	The mine is granted through auction process and executed on 16.11.2022. The mine has opened since 25.01.2023, but production could not be started till the date of inspection due to lack of surface right form the competent authority.		

Development

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
2a	Location of development w.r.t. lease area	2466092N to 2466232N/240300E to 240800E	Nil	Mine production could not be started till the date of inspection due to lack of surface right form the competent

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				authority.
2b	Separate benches in topsoil, overburden and mineral (Rule 15)		Nil	Mine production could not be started till the date of inspection due to lack of surface right form the competent authority.
2c	Stripping ratio or ore to OB ratio	1:0.35	Nil	
2d	Quantity of topsoil generation in m3	18300	Nil	Mine production could not be started till the date of inspection due to lack of surface right form the competent authority.
2e	Quantity of overburden generation in m3	351000	Nil	Mine production could not be started till the date of inspection due to lack of surface right form the competent authority.
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The mine is granted through auction process and executed on 16.11.2022. The mine has opened since 25.01.2023, but production could not be started till the date of inspection due to lack of surface right form the competent authority.		

EXPLOITATION

N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
3a	Number of pits proposed for production	1	Nil	Mine production could not be started till the date

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				of inspection due to lack of surface right
3b	Quantity of ROM mineral production proposed	Limestone 400320 MT Dolomite 600120 MT	Nil Nil	
3c	Recovery of salable/usable mineral from ROM production	Nil	Nil	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral reject generation and threshold value declared	Nil	Nil	
3f	Quantity of sub-grade mineral generation	Nil	Nil	
3g	Grade of sub-grade mineral generation	Nil	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mining is not yet started.	
3i	Any analysis or beneficiation study proposed & carried out for sub-grade mineral and reject	Nil	Nil	
3j	Provision of drilling & blasting in mineral benches	Yes	Mining is not yet started.	Mining is not yet started.
3k	Provision of mining machineries in mineral benches	Yes	Mining is not yet started.	Mining is not yet started.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Not yet started	
3m	Total area covered under excavation/pits	61000 m2	Mining is not yet started.	Mining is not yet started.
3n	Ore to OB ratio for the pit/mine during the year	1:0.35	Nil	Mine production is not yet started.
3o	Total area put in use under different heads at the end of year		Road 3.49 Ha AQMS 0.002 Ha Crusher 0.86 Ha Weigh bridge 0.011 Ha	
3p	Production of ROM mineral during last six-year period, as applicable	Not applicable	Not applicable	Mine production is not yet started.
3q	General remarks of inspecting officer on method of	The mine is granted through auction process and		

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		executed on 16.11.2022. The mine has opened since 25.01.2023, but production could not be started till the date of inspection due to lack of surface right form the competent authority.
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Solid Waste management-Dumping

S.N	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
4a	Separate dumping of topsoil, OB & mineral reject (Rule 33, 37)	Yes Proposed		Mine production is not yet started.
4b	Location of topsoil, OB & mineral reject dumps	Location of OB-2466515-2466622N/239 960-240070E	Mining is not yet started.	Mine production is not yet started.
4c	Number of dumps within lease area and outside lease area	Within 1 Out Side: Nil	Within: Nil Outside: Nil	Mine production is not yet started.
4d	Location of dumps w.r.t. ultimate pit limit			
4e	Number of active & alive dumps	01	Nil	Mine production is not yet started.
4f	Number of dead dumps	Nil	Nil	Mine production is not yet started.
4g	Number of dumps stabilized	Nil	Nil	Mine production is not yet started.
4h	Whether Retaining wall or garland drain all along dumps are there	Yes	Nil	Mine production is not yet started.
4i	Length of Retaining wall or garland drain all along dump	210 m length retaining wall. 420 m length garland drain.	Nil	Mine production is not yet started.
4j	Number of settling ponds	01	Nil	Mine production is not yet started.
4k	Specific comments of inspecting officer on waste dump management	The mine is granted through auction process and executed on 16.11.2022. The mine has opened since 25.01.2023, but production could not be started till the date of inspection due to lack of surface right form the competent authority.		

Solid Waste Management-Backfilling

S.N	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	Mine production is not yet started.
5b	Area under backfilling of mined out area	Nil	Nil	Mine production is not yet started.

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				started. Hence not applicable for this year.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 36)	Plantation purposed	Mine production is not yet started.	Mine production is not yet started.
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	Mine production is not yet started. Hence not applicable for this year.
5e	General remarks of inspecting officer on backfilling, reclamation etc	The mine is granted through auction process and executed on 16.11.2022. The mine has opened since 25.01.2023, but production could not be started till the date of inspection due to lack of surface right form the competent authority.		

Progressive Mine Closure Plan

N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	Yes	Yes	
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	Nil Nil Nil Nil Nil	Nil Nil Nil Nil Nil	Mine production is not yet started, hence management of worked/mined out benches for the reporting year is nil.
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	Nil Nil Nil Nil Nil	Nil Nil Nil Nil Nil	Mine production is not yet started, hence compliance on reclamation and rehabilitation by backfilling for the reporting year is nil.

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6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Nil	Mine production is not yet started.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Air, Noise and Water quality monitoring will be done during the year within the lease area.	Environmental monitoring stations for core zone and buffer zone have been fixed at proposed places. However, mine production is not yet started.	Environmental monitoring stations for core zone and buffer zone have been fixed at proposed places. However, mine production is not yet started.
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	The mine is granted through auction process and executed on 16.11.2022. The mine has opened since 25.01.2023, but production could not be started till the date of inspection due to lack of surface right form the competent authority. Environmental monitoring stations for core zone and buffer zone have been fixed at proposed places during the reporting year.		

Mineral Conservation

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
7a	ROM Mineral dispatch or grade-wise sorting within lease area	CaO > 42% & MgO < 5% CaO 34-42% MgO < 5% The same will be blended as per the plant requirement.	Nil	Mine production is not yet started.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Nil	Mine production is not yet started.
7c	Different grade of mineral sorted out at mines	CaO > 42% & MgO < 5% CaO 34-42% MgO < 5% The same will be blended as per the plant requirement.	Nil	Mine production is not yet started.
7d	Any beneficiation process	No	Installation of	Mine

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	at mines	beneficiation apart from dry crushing and screening. Limestone crusher 800 TPH, Dolomite crusher 600 TPH and Reject crusher 100 TPH. Each crusher unit mainly consists of hopper, rusher, vibratory screens and a number of belt conveyors proposed.	crusher 800 TPH under construction.	production is not yet started.
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	The mine is granted through auction process and executed on 16.11.2022. The mine has opened since 25.01.2023, but production could not be started till the date of inspection due to lack of surface right form the competent authority. No beneficiation apart from dry crushing and screening during the reporting year. However, only installation of crusher 800 TPH under construction till the date of inspection.		

Environment

S.N.	Item	Proposals for, 2022-23	Actual work during 2022-23	Remark
8a	Separate removal and utilization of topsoil (Rule 36)	Yes, separate removal of top soil proposed	Nil	Mine production is not yet started.
8b	Concurrent use or storage of topsoil	Concurrent use storage not proposed	Nil	Complied.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 37)	Proposal separate OB and Waste rocks, rejects, proposed	Nil	Complied.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not Proposed for the year	Nil	Complied.
8e	Phased restoration, reclamation and rehabilitation of lands	Not Proposed for the year	Nil	Complied.

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	affected by mining operations (Pits, dumps etc.)			
8f	Baseline information on existence of plantation & additional Plantation done	Planation of 800 saplings proposed.	Planation of 876 saplings were carried out.	Mine production is not yet started.
8h	Water sprinkling on roads to control airborne dust	Two numbers of 10 KL Water tanker proposed.	Nil	Mine production is not yet started.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	The mine is granted through auction process and executed on 16.11.2022. The mine has opened since 25.01.2023, but production could not be started till the date of inspection due to lack of surface right form the competent authority. However, there were no such proposal for phased restoration, reclamation and rehabilitation during the reporting year.		

Compliance of Rule 45

S.N	Item	COMMENTS		Remarks
9a	Status of submission of Monthly and Annual returns	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.		Mine production is not yet started.
S.N	Item	Details given in A.R. for the year 2022-23	Observation of I/ Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.	Monthly returns and annual return for the reporting year have been submitted within the stipulated time period.	Mine production is not yet started.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	1. Sri Chitta Ranjan Mohapatra - Mines Manager 2. Sri Chitta Ranjan Mohapatra - Mining Engineer 3. Sri Ritesh Chattaraj - Geologist. were present during the inspection.	1. Sri Chitta Ranjan Mohapatra - Mines Manager 2. Sri Chitta Ranjan Mohapatra - Mining Engineer 3. Sri Ritesh Chattaraj - Geologist. were present during the inspection.	
9d	Scrutiny of Annual return on afforestation	Planation of 876 within the lease area saplings were carried out.	Planation of 876 within the lease area saplings were carried out.	

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9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	Nil	Mine production is not yet started.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	Mine production is not yet started.
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Nil	Nil	Mine production is not yet started.
9i	Scrutiny of Annual return on fixed assets	Value of Fixed Assets: Rs. 73000000/-	Value of Fixed Assets: Rs. 73000000/-	
9k	Scrutiny of Annual return on mining machineries	Nil	Nil	Mine production is not yet started.

Sanjib Kumar Mohapatra
Senior Mining Geologist