MCDR INSPECTION

General:

SL. No.	Particulars	Details
1	Name of the Mine	KHATKURBHAL LIMESTONE AND
		DOLOMITE MINE
	Name of Inspecting Officer with	Shri Sujit Kumar Jena, JMG
	Designation	Sint Sujit Izumai vena, virie
	Date of Inspection	10.01.25
2	Total Lease Area (Ha) with breakup of	Non forest Land-72.439 Ha
	Non-forest and forest land	Forest Land- Nil
3	Minecode	38ORI13028
4	IBM Registration Number under rule 45 of MCDR, 2017	IBM/4177/2011
5	Name of the lessee, Address,	M/s Shiva Cement Limited, Village-
	phone, email and fax number	Telighana, PO -Biringatoli, Tehsil-Kutra,
		Dist-Sundargarh, Odisha-770018.
		Email- corporate@shivacement.com
		Phone-9805757619
6	Village	Khatkurbahal & Kulenbahal
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	15-01-1992
15	Date of Execution	04-11-1997
16	Date of opening of Mine	01.04.1998
17	Date of expiry	14.01.2042
18	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Mr. 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
19	Name of the Mine Agent with	Mr. Radhe Shyam Ray,

date of appointment M/s Shiva Cement Limited, Village-Telighana, PO- Biringatoli, Tehsil-Kutra, Dist Sundargarh, Odisha-770018.	
Biringatoli, Tehsil-Kutra, Dist	
	t-
Email- radheshyam.ray@sw.i	n
Phone-9805757619	
20 Name of the Mines Manager with Mr. Santosh Kumar Jaypuria	
Address, mobile no, email, fax number Manager Mines,	
and date of appointment in mine M/s Shiva Cement Limited, V	/illage-Telighana
PO-Biringatoli, Tehsil-Kutra,	
Odisha-770018.	Dist buildinguin,
Email- santosh.jayapuria@jsv	w in
Phone-8610136811	V .111
21 Name of the Mining Engineer , Mr. Sanjay Kumar Pradhan.	
Address, mobile no, email, fax/phone Mining Engineer.	7:11 TD - 1: - 1
number and date of appointment in M/s Shiva Cement Limited, V	
mine PO-Biringatoli, Tehsil-Kutra,	Dist-Sundargarn,
Odisha-770018.	•
Email- sanjaya.pradhan@jsw.	.in
Phone:8827996656	
Name of the Geologist , Qualification Mr. Tofan Singh	
and total experience with Address, M. Sc. Geology, M. Phil. (Geo	
mobile no, email, fax number and date M/s Shiva Cement Limited, V	
of appointment in mine PO -Biringatoli, Tehsil-Kutra,	, Dist-Sundargarh,
Odisha-770018	
tofan.singh@jsw.in	
Phone-9348896174	
Date of Approval of Mining 01.12.2021 Modified mining p	plan approved on
Plan/Review of Mining Plan/ their 12.07.2024	
modifications with five-year period	
and specific condition in approval	
letter, if any.	
24 Mineral (s) granted in lease and proved Limestone	
for mining	
131 mining	
25 Method of Mining(Opencast, Opencast	
Underground)	
Office ground)	
Cotogory (Fully Machanicad Others on Fully Machania 1	
26 Category (Fully Mechanised, Others or Fully Mechanized.	
Manual)	
27 Captive/Non Captive Captive	
28 Present EC Capacity 1.50 Million TPA Limestone	

Exploration:---

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
1a	Backlog of previous year	NA	NA	

1b	Exploration over lease area for Geological axis 1 or 2.	Nil	72.439	Total area explored in G1
	Geological axis 1 of 2.			level
1c	Exploration Agency & Expenditure in lakh Rupees during the year	NA	NA	Already explored in G1 Category
1d	Balance area to be explored to bring Geological axis in 1 or 2	NA	NA	Already explored in G1 Category
1e	Balance reserves as on 01.04.2024		62780773 Tonnes	As per AR

Development:--

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Pit-1- East- 240800E North- 2466100N West-240300E South- 2465800N	Pit-1- East- 240800E North- 2466100N West-240300E South- 2465800N	V/L issued.
		PIT-2- East-239900E North-2466100N West-239500E South-2465800N	PIT-2- Not developed properly as per plan PIT-3-	
		PIT-3- East-239000E North-2466100N West-238700E South-2466100N	Not developed properly as per plan	
2b	Separate benches in topsoil, overburden and mineral	Separate benches in topsoil, overburden and mineral proposed	Separate benches in topsoil, overburden and mineral carried out	
2c	Stripping ratio or ore to OB ratio	1:0.04	1:0.07	As interbedded waste stripping ratio increases.
2d	Quantity of topsoil generation in m3	13217	0	No top soil generated
2e	Quantity of overburden generation in m3	66084	59587.953	

Exploitation:--

SL.No.	Item	Proposals	Actual work	Remarks
		(FY 2023-24)		

3a	Number of pits proposed for production	3 Nos.	3 Nos.	
3b	Quantity of ROM mineral production proposed	1500120	1188271.390	
3c	Recovery of salable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	150012 tonne	32007.620 tonne	
3e	Grade of mineral reject generation and threshold value declared	CaO < 34% MgO > 5%	CaO < 34% MgO > 5%	
3f	Quantity of sub-grade mineral generation		Same as 3d	
3g	Grade of sub-grade mineral generation		Same as 3e	
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 such proposal	NA	
3j	Provision of drilling & blasting in mineral benches	Drilling & blasting proposed	Drilling & blasting carried out as per proposal	
3k	Provision of mining machineries in mineral benches	Dumper & Excavator	Dumper & Excavator combination carried out	
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench Height-6 Bench Width-6	Not maintained, V/L issued	
3m	Total area covered under excavation/pits	13.738	14.75	
3n	Ore to OB ratio for the pit/mine during the year	1:0.04	1:0.07	As inter- bedded waste stripping ratio increases.
30	Total area put in use under different heads at the end of year	20.599	19.88	
3p	Production of ROM mineral during last five- years period, as applicable			
	2019-20 2020-21 2021-22	315000 MT 675000 MT 1350000 MT	79610.00 MT 72712.44 MT 96230.74 MT	

2023-24 1500120 MT 1188271.390 MT

Solid Waste Management-Dumping: --

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
4a	Separate	Separate dumping of	As per proposal	
	dumping of	topsoil, OB & mineral		
	topsoil, OB &	reject proposed		
	mineral reject (Rule 32, 33)			
4b	Location of	22 ⁰ 16'50.65"/84 ⁰ 28'16.97"	22°16'51.56"/84°28'16.96"	
40	topsoil, OB &	22 10 30:03 704 20 10:37	22 10 31:30 704 20 10:30	
	mineral reject			
	dumps			
4c	Number of	Within 1	Within 1	
	dumps within	Out Side: Nil	Outside: Nil	
	lease area and			
	outside lease			
	area			
4d	Location of	Outside UPL	Outside UPL	
	dumps w.r.t.			
	ultimate pit limit			
4e	Number of	01	01	
46	active & alive	01		
	dumps			
4f	Number of	Nil	NA	
'1	dead dumps			
4g	Number of	Nil	NA	
	dumps			
	stabilished			
4h	Whether	NA	NA	
	Retaining wall			
	or garland			
	drain all along dumps are			
	there			
4i	Length of	No such proposal	NA	
1	Retaining wall			
	or garland			
	drain all along			
	dump			
4j	Number of	NA	NA	
	settling ponds			

Solid Waste Management-Backfilling: --

SL.No.	Item	Proposals	Actual work	Remarks
		(FY 2023-24)		

5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No such proposal	NA	
5b	Area under backfilling of mined out area	No such proposal	NA	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No such proposal	NA	
5d	Total area fully reclaimed & rehabilitated	No such proposal	NA	

Progressive Mine Closure Plan: ---

SL.N.	Item	Proposals (FY 2023-24)	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). (Hard copy same provided)	As per Rule 26(2) Annual PMCP report to be submitted before 1st day of July of Every Year	Submitted within the stipulated time period for the reporting year.	
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	NA	Plantation done in 2.032 Ha Total 1050 nos of plantation done for the year 2023-2024 Cumulative no of plants 4700 nos in approx. 4.00 ha Cost incurred 2.50 lakhs	
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	NA	NA	

	backfilled area iv) Rehabilitation by making water 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	NA	NA	
бе	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring for core zone and buffer zone.	Monitoring of Air, Water etc. been carried out. In core and buffer zone	

Mineral Conservation: ---

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM Mineral dispatch or grade- wise sorting within lease area	Grade wise sorting proposed within lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines	+40% CaO – Limestone 34-40% - Subgrade limestone	+40% CaO – Limestone 34-40% - Subgrade limestone	
7d	Any beneficiation process at mines	NA	NA	

Environment: --

SL.No.	Item	Proposals ((FY	Actual work	Remarks
		2023-24)		
8a	Separate removal and	Yes	No top soil	
	utilization of topsoil		generated	
8b	Concurrent use or storage	Yes	No top soil	
	of topsoil		generated	

8c	Separate dumps for overburden, waste rock, rejects and fines	Separate dumps for overburden, waste rock, rejects and fines	As per proposal	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA	
8f	Baseline information on existence of plantation & additional plantation done	Planation of 750 saplings proposed.	1050 saplings planted	
8g	Survival rate	70%	79%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling proposed on haul roads to suppress the dust.	Water sprinkling carried out on haul roads to suppress the dust.	

Compliance of Rule 45

SL.No.	Item	COMMENTS		Remarks.
9a	Status of submission of Monthly and Annual returns	As per MCDR 2017, the monthly return is to be submitted before 10th day of every month in respect of the preceding month and AR shall be submitted before the 1st day of July each year for the proceeding financial year		Monthly and Annual returns submitted in due time frame.
S.N.	Item	Details GIVEN in A.R.	Actual in field	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	1. Sri S K Jaypuria, Mines Manager 2. Mr Tofan Singh, Geologist.	1. Sri S K Jaypuria, Mines Manager 2. Mr Tofan Singh, Geologist were present during inspection	
9c	Scrutiny of Annual return on land use pattern for area	14.75 ha(pit) 1.71 ha(Dump)	It appears to be correct.	

	under pits, reclaimed area, dumps etc.	3.42 ha (others)		
9d	Scrutiny of Annual return on afforestation	1050 nos. of sapling planted within lease area	It appears to be correct.	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	32007.62 tonne	It appears to be correct.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	1188271.39 tonne	It appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	533.00	It appears to be correct.	
9i	Scrutiny of Annual return on fixed assets	261404016.00	It appears to be correct.	
9k	Scrutiny of Annual return on mining machineries	As per modification of review of mining plan.	It appears to be correct.	

Sujit Kumar Jena Junior Mining Geologist

Date:04.03.25