

MCDR INSPECTION

Date:-18.10.2024

General

SL. No.	Particulars	Details
1	Name of the Mine	Birmitrapur Limestone and Dolomite Mine
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	793.043 Hectares (Non Forest) Forest -Nil
3	Minecode	38ORI13003
4	IBM Registration Number under rule 45 of MCDR, 2017	IBM/4649/2011
5	Name of the lessee, Address, phone, email and fax number	The Bisra Stone Lime Company Limited AT/PO- Birmitrapur, Dist- Sundargarh - 770033 Email _bslcoltd.brmp1@gmail.com
6	Village	Banmunda, Brahamanmara, Banki, Jolongbira, Raipura &Kansbahal
7	Taluka/Mandal	Birmitrapur
8	District	Sundargarh
9	Pincode	770033
10	State	Odisha
11	Post office	Birmitrapur
12	Nearest police station	Birmitrapur
13	Nearest Railway station	Birmitrapur
14	Date of Grant of Mining Lease	23.09.1946
15	Date of Execution	26.06.2020 (supplementary lease deed)
16	Date of opening of Mine	10.10.1910
17	Date of expiry	01.04.2040
18	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Sri Arun Kanti Bagchi C1407 Magnifica Block, Brigade Gardenia, JP Nagar, 7 th Phase, Bangalore, Karnataka-560078 Mobile No.- 9448396972 Email Id. - bslcoltd.brmp1@gmail.com Date of appointment – 17.01.2024
19	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Mr.S.K.Patel B.S.L.Co.Ltd. At/Po- Birmitrapur, Sundargarh Mobile No-9776555554 Email – sanjay_patel@yahoo.com

		Date of appointment –25.08.2022
20	Name of the Mines Manager with Address, mobile no, email, fax number and date of appointment in mine	Mr.S.N.Mohapatra B.S.L.Co.Ltd. At/Po- Birmitrapur, Sundargarh Mobile No-8917260259 Email – sachidanandam7@gmail.com Date of appointment –01.03.2024
21	Name of the Mining Engineer , Qualification and total experience with Address, mobile no, email, fax/phone number and date of appointment in mine	Mr.C.R.Nayak, Degree in Mining, FMCC B.S.L.Co.Ltd. At/Po- Birmitrapur, Sundargarh Mobile No :9438550527 Email – crnayak1965@gmail.com Date of appointment – 10.01.2010
22	Name of the Geologist , Qualification and total experience with Address, mobile no, email, fax number and date of appointment in mine	Mr. V.Dungdung ,M.Sc (Geology) At/Po- Birmitrapur, Sundargarh Mobile No : 7008847825 Email geologistdungdung@gmail.com Date of appointment – 30.12.1992
23	Date of Approval of Mining Plan/Review of Mining Plan/ their modifications with five-year period and specific condition in approval letter, if any.	RMP/A/42-ORI/BHU/2019-20/1365 dated 21.02.2020
24	Mineral(s) granted in lease and proved for mining	Limestone & Dolomite
25	Method of Mining(Opencast, Underground)	Opencast
26	Category (Fully Mechanised, Others or Manual)	FM-A
27	Captive/Non Captive	Non Captive
28	Present EC Capacity	Limestone-2.83MTPA Dolomite-2.43MTPA

Exploration:---

SL.No.	Item	Proposals (FY 2023-24)	Actual work	Remarks
1a	Backlog of previous year	310.474 Ha for 179 bore holes with 10740 meters drilling.	NIL	Target not achieved as per proposal
1b	Exploration over lease area for Geological axis 1 or 2.	(Lease Area- 793.043 Ha) Unexplored Area - 310.474 Ha for 179 bore holes with 10740	NIL	Target not achieved as per proposal

		meters drilling.		
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Rs 5.34 Cr.	NIL	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G2 - 310.474	NIL	
1e	Balance reserves as on 01.04.2023 in million tons	As on 27/11/2019 (As per Mining Plan) Limestone UNFC Code 111-135.322 121 & 122 - 67.185 333-57.865 Total-260.372 Dolomite 111-48.851 121 & 122 - 51.971 333- 65.062 Total- 165.884	As on 01/04/2024 Limestone UNFC Code 111-134.994 121 & 122 - 67.185 333-57.865 Total-260.044 Dolomite 111- 44.457 121 & 122 - 51.971 333-65.062 Total-161.490	
1f	General remarks of inspecting officers on geology, exploration etc			

Development:--

SL.No	Item	Proposals (FY 2023-24)	Actual work	Remarks
2a	Location of development w.r.t. lease area	Dolomite:- 1.Patapahar Dolo Quarry 2. Duarsini Dolo Quarry 3. Main Dolo Quarry 4. Rail Cutting Dolo Quarry Limestone: - 1.Gurpahar Limestone Quarry 2.Duarsini Limestone Quarry 3.Khajurgadah Limestone Qry.	Within the Proposal	Pataphar Dolo quarry & Rail Cutting Dolo Quarries were not started production due to less demand and in Limestone Gurpahar Limestone Quarry & Duarsini Limestone Quarry were operated and other Quarry was not started production due to less demand.
2b	Separate benches in topsoil, overburden	Dolomite:- 1.Patapahar Dolo	Dolomite:- 1.Main Dolo	

	and mineral	Quarry Mineral Benches - 4 2. Duarsini Dolo Quarry Mineral Benches - 4 3.Main Dolo Quarry Mineral Benches -5 4.Rail Cutting Dolo Quarry Mineral Benches - 4 Limestone:- 1.Gurpahar Limestone Quarry Mineral Benches - 5 2.Duarsini Limestone Quarry Mineral Benches - 4 3. Khajurgadah Limestone Qry. Mineral Benches - 2	Quarry Mineral Benches -6 Limestone:- 1.Gurpahar Limestone Quarry Mineral Benches - 6 2.Duarsini Limestone Quarry Mineral Benches - 4	
2c	Stripping ratio or ore to OB ratio	1:0.10 in Dolomite 1:0.10 in Limestone	1:0.10 in Dolomite 1:0.10 in Limestone	Within the Proposal
2d	Quantity of topsoil generation in m3	Nil	Nil	
2e	Quantity of overburden generation in m3	Nil	155,178.81 Cum	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			

Exploitation:--

SL.No	Item	Proposals (FY 2023-24)	Actual work	Remarks
3a	Number of pits proposed for production	Dolomite:- 1.Patapahar Dolo Quarry 2.Duarsini Dolo Quarry 3.Main Dolo Quarry 4. Rail Cutting Dolo Quarry Limestone: - 1.Gurpahar Limestone	Dolomite:- Main Dolo Quarry	Pataphar Dolo quarry & Rail Cutting Dolo Quarries were not started production due to less demand and in Limestone Gurpahar Limestone Quarry &Duarsini

		Quarry 2.Duarsini Limestone Quarry 3. Khajurgadah Limestone Qry.	Limestone:- 1.Gurpahar Limestone Quarry 2.Duarsini Limestone Quarry	Limestone Quarry were operated and other Quarry was not started production due to less demand.
3b	Quantity of ROM mineral production proposed	Limestone- 28,29,685 MT Dolomite- 24,29,440 MT Total- 52,59,125 MT	Limestone- 190,722 MT Dolomite- 837,003 MT Total- 10,27,725 MT	100% Saleable
3c	Recovery of salable/usable mineral from ROM production	Limestone- 28,29,685 MT Dolomite- 24,29,440 MT Total- 52,59,125 MT	Limestone- 190,722 MT Dolomite- 837,003 MT Total- 10,27,725 MT	100% Saleable
3d	Quantity of mineral reject generation	Limestone - 2,82,968.50 MT Dolomite - 2,42,944.00 MT Total - 5,25,912.50 MT (10%)	Nil	
3e	Grade of mineral reject generation and threshold value declared	Dolomite: SiO ₂ more than 6% MgO less than 15% Limestone:- SiO ₂ more than 18% CaO less than 34% MgO moer than 5%	NIL	
3f	Quantity of sub-grade mineral generation	Nil	Nil	Directly blended in the Pit
3g	Grade of sub-grade mineral generation	Nil	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.	No	
3j	Provision of drilling &	Deployment of	Deployment of	

	blasting in mineral benches	integrated drill and Control Blasting	integrated drill and Control Blasting	
3k	Provision of mining machineries in mineral benches	Mining machineries have been deployed as per fully mechanized mine & as per provision mentioned in mining plan	Mining machineries have been deployed as per fully mechanized mine & as per provision mentioned in mining plan	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mineral benches will be 8M width and the OB will be dumped in the active dumps (BSD-4, BSD-5, BSD-7 & BSD-16) the average slope of the trace will be 28°	155,178.81 Cum OB has been dumped in active BSD No. 7 & 16	
3m	Total area covered under excavation/pits	174.932 Ha.(5 years plan)	154.560 Ha.	
3n	Ore to OB ratio for the pit/mine during the year	1:0.10 in Dolomite 1:0.10 in Limestone	Within the proposal	
3o	Total area put in use under different heads at the end of year	(5 Years plan from 2020-21 to 2024-25) 1. Storage of top soil - .940Ha. 2. Dump Area - 41.5505Ha. 3. Mineral Storage- 5.000Ha. 4. Infrastructure - 14.120Ha. 5. Road - 10.080 Ha. 6. Rail Line - 6.640 Ha. 7. Mineral separation plant - 7.500 Ha. 8. Township - 17.600Ha. 9. Plantation - 65.374 Ha.	Within the proposal	
3p	Production of ROM mineral during last five-years period , as applicable	<u>2019-20</u> Limestone - 2830000 MT Dolomite - 2429960 MT <u>2020-21</u> Limestone - 2830000	<u>2019-20</u> Limestone - 17220 MT Dolomite - 565909 MT <u>2020-21</u> Limestone - Nil	

		MT Dolomite - 2429960 MT <u>2021-22</u> Limestone - 2830000 MT Dolomite - 2429960 MT <u>2022-23</u> Limestone- 28,29,570 MT Dolomite- 24,29,960 <u>2023-24</u> Limestone- 28,29,685 MT Dolomite- 24,29,440 MT	Dolomite - 1,122,195.35 MT <u>2021-22</u> Limestone - 66,694.65 MT Dolomite - 1,175,558.59 MT <u>2022-23</u> Limestone- 52,760.160 MT Dolomite- 10,48,664.870 MT <u>2023-24</u> Limestone- 190,722 MT Dolomite- 837,003 MT	
2q	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Mechanized open cast mining is done.

Solid Waste Management-Dumping:--

SL.No	Item	Proposals (FY 2023-24)	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject (Rule 32, 33)	Nil	OB- 155,178.81 Cum	
4b	Location of topsoil, OB & mineral reject dumps	BSD-4, BSD-5, BSD-7 & BSD-16	BSD-7 & BSD-16	
4c	Number of dumps within lease area and outside lease area	17 BSD within lease hold area	BSD-7 & BSD-16	
4d	Location of dumps w.r.t. ultimate pit limit	BSD -4 (Near Patpahar Limestone quarry) 267434E to 267785E 2480330N to 2480671N BSD -5 (Near Gulpahar Limestone quarry)	Within proposal	

		266266E to 266801E 2480000N to 2480228N BSD -7 (Near Duarsini Limestone quarry) 264356E to 264599E 2480537N to 2480763N BSD -16 (Near Kansbahal Limestone quarry) 262123E to 262494E 2480048N to 2480339N		
4e	Number of active & alive dumps	04 Nos. of BSD active i.e. BSD-4, BSD-5, BSD-7 & BSD-16	BSD-7 & BSD-16	
4f	Number of dead dumps	13 Nos. of BSD dead i.e. BSD-1,2,3,6,8,9,10,11,12,13,14,15 & 17	13 Nos. of BSD dead i.e. BSD-1,2,3,6,8,9,10,11,12,13,14,15 & 17	
4g	Number of dumps stabilised	Nil	Nil	Already in existing
4h	Whether Retaining wall or garland drain all along dumps are there	04 Nos. of BSD i.e. BSD-4, BSD-5, BSD-7 & BSD-16	Retaining wall and garland drain at BSD-4, BSD-7 & BSD-16	Maintained
4i	Length of Retaining wall or garland drain all along dump	BSD-4 Retaining wall - 470M Garland drain - 1741M BSD-5 Retaining wall - 1050M Garland drain - 616M BSD-7 Retaining wall - 820M Garland drain - 1376M BSD-16 Retaining wall - 904M Garland drain - 1049M	BSD-4 Retaining wall - 470M Garland drain - 500M BSD-7 Retaining wall - 505M Garland drain - 1630M BSD-16 Retaining wall - 120M Garland drain - 130M	Maintained
4j	Number of settling ponds	Maintenance	01 Nos. of settling pond in BSD -7 and maintenance of other settling pond.	
4k	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			The dump management has been done in Active BSD and the dead dumps are stabilized

				and rehabilitated by natural growth of shrubs and bushes
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Solid Waste Management-Backfilling:--

SL.No	Item	Proposals (FY 2023-24)	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	Nil	Nil	
5b	Area under backfilling of mined out area	Nil	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	Nil	nil	
5d	Total area fully reclaimed & rehabilitated	Nil	Nil	
5e	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Ore bodies are continuing in the depth, Hence no back filling has been done so far

Progressive Mine Closure Plan:---

SL.N.	Item	Proposals (FY 2023-24)	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2). (Hard copy same provided)	Yes	Submitted vide letter No. BSLC/IBM/2024-25/65 dated 27.06.2024	
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	Nil 1.000Ha. 1500	Nil 1.000Ha. 1500	

	plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	Nil	349,500 Nos. Nil Rs 82,000/-	
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	
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	Nil	Nil	
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Yes	Yes	
6f	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			During the present plan period there is no proposal for reclamation and rehabilitation by backfilling. The same will be carried out at the end of the life of the mine when the mine reaches its ultimate pit limit.

Mineral Conservation:

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Limestone CaO> 42% SiO ₂ - <7% Dolomite MgO>19% SiO ₂ <4%	Limestone CaO> 42% SiO ₂ - <7% Dolomite MgO>19% SiO ₂ <4%	Sub-grade ore is blending in the pit and 100% ROM is saleable
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Mechanical	Mechanical	
7c	Different grade of mineral sorted out at mines	Limestone CaO> 42% SiO ₂ - <7% Dolomite MgO>19% SiO ₂ <4%	Limestone CaO- 36-42% SiO ₂ - <12% Dolomite MgO >17 to 19% SiO ₂ <4 to 5%	Blending is done itself at the mine pit.
7d	Any beneficiation process at mines	Available of crusher plant for making sizing as per the requirement of buyers	Available of crusher plant for making sizing as per the requirement of buyers	Different sizes are produced in the crusher plants
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Systematic blending ore and sub grade for maintaining the quality of the ore is done mechanically in the pit itself

Environment:--

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks
8a	Separate removal and utilization of topsoil	Nil	Nil	No generation
8b	Concurrent use or storage of topsoil	BSD-4,5,7 &16	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines	BSD-4,5,7 &16	BSD-7 &16	
8d	Use of overburden, waste rock, rejects and fines	BSD-4,5,7 &16	BSD-7 &16	Stacked

	dumps for restoring the land to its original use			
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Nil	Nil	
8f	Baseline information on existence of plantation & additional plantation done	1500 Nos.	349,500 Nos.	Within lease hold area
8g	Survival rate	80%	80%	
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on the dust prone areas such as haul roads, loading & unloading sites and other possible dust generation areas.	Done	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation inside the lease hold area.

Compliance of Rule 45

SL.No.	Item	Proposals ((FY 2023-24)	Actual work	Remarks.
9a	Status of submission of Monthly and Annual returns	To be submitted in due time	Submitted timely	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes	Mr C.R. Nayak- Mining Engineer, Mr V.Dungdung- Geologist, Mr P.K Patra- Manager	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	As on 27/11/2019 (As per Mining Plan) Excavation Area- 151.473 Ha. Dump Area – 33.850 Ha.	As on 01/04/2024 Excavation Area- 154.560 Ha. Dump Area – 33.021 Ha. Reclaimed area - Nil Others	

		Reclaimed area - Nil Others (Infrastructure, Residential, Road)-	(Infrastructure, Residential, Road)-55.535	
9d	Scrutiny of Annual return on afforestation	1500	1500	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Limestone- 28,29,685 MT Dolomite- 24,29,440 MT	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Nil	Nil	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Ex-mine Price- Rs. 560.22/-	Appears to be correct	
9i	Scrutiny of Annual return on fixed assets	Value of Fixed Assets: (Rs. 5,52,68,035/-)	Appears to be correct	
9k	Scrutiny of Annual return on mining machineries	CRUSHER- 1CRUSHER-2 CRUSHER-2 AIR COMPRESSOR -3 ROCK DRILL (NON- ELEC.)-3 SHOVEL (HYDRAULIC) -4 FRONT END LOADER-2 FRONT END LOADER-2 DUMPER-10 EXPLOSIVE-1 VAN WATER TANKER- 1ELEC. MOTO-45	Appears to be correct	
