

MCDR-MiFLOLST/5/2022-BBS-IBM_RO_BBS
INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

I/20391/2023

MCDR INSPECTION REPORT

Bhubaneshwar regional office

Mine file No : ORI/DOL/SNG/MCDR-5/BBS-12/5/01 **Mine code :** 38ORI13014

- (i) Name of the Inspecting : **SKM1**) **SANJIB KUMAR MOHAPATRA**
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Sri Omprakash R Khelkar (Agent), Sri Debi Prasad Mish
Official with
Designation
- (iv) Date of Inspection : 14/09/2023
- (v) Prev.inspection date : 01/06/2022

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **LANJIBERNA LIMESTONE & DO**
- (b) **Registration NO.** : **IBM/393/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ORISSA
- District : SUNDARGARH
- Village : LANJIBERNA
- Taluka : Kutra
- Post office : LANJIBERNA
- Pin Code : 770023
- FAX No. : 06624-220933
- E-mail : ocl_rajgangpur@dalmiacement
- Phone : 06624-221212
- (f) Police Station : RAJGANGPUR
- (g) First opening date : 12/05/1951
- (h) Weekly day of rest : SUN
2. Address for : VILL/PO-LANJIBERNA
correspondance DIST-SUNDERGARH
ODISHA
3. (a) Lease Number : ORI0016
- (b) Lease area : 1002.01
- (c) Period of lease : 20
- (d) Date of Expiry : 20/08/1998
4. Mineral worked : DOLOMITE Associated
LIMESTONE Main

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5. Name and Address of the

Lessee : ORISSA CEMENT LIMITED
 AT/PO RAJGANGPUR
 SUNDARGARH ORISSA
 Phone:20133,20733
 FAX :20933, 20133

Owner : SHRI AMANDEEP
 M/S OCL INDIA LIMITED
 RAJGANGPUR ODISHA
 SUNDARGARH ORISSA
 Phone: 06624220933
 FAX :

Agent : SAROJ KUMAR ROUT
 LANJIBERNA RAJGANGPUR
 ODISHA SUNDARGARH ORISSA
 Phone: 06624676403
 FAX :

Mining Engineer

Name : B. JAGADEESH KUMAR,Full Time
 Qualification : AMIE in Mining Engg
 Appointment/ : 28/11/2015
 Termination date

Geologist

Name : DR. UDAYNATH SAHOO,Full Time
 Qualification : M.Sc, M. Phil, Ph. D (Geology)
 Appointment/ : 20/10/2010
 Termination date

Manager

Name : SUBRAT MISHRA
 Qualification : Diploma in Mining Engg. & FCC
 Appointment/ : 02/05/2019
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	27/01/2005
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	27/11/2005
	:	Modif.approved Mining Scheme	01/02/2007
	:	Renewal under rule 24 MCR1960	07/05/2009
	:	FMCP under 23C(1)	08/02/2012
	:	Modif.of approved Mining Plan	11/01/2013
	:	Mining Scheme rule 12 MCDR1988	25/03/2015
	:	MP modif under 17(3) MCR 2016	25/01/2018
	:	Modif.approved Mining Scheme	28/08/2019
	:	MP review under 17(1) MCR 2016	14/11/2019

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	During the year 2022-23 , No BH have been proposed.	During the year 2022-23 , 08 Holes ,945 mts have been drilled.	During the year 2022-23 , 08 Holes ,945 mts have been drilled.
1b	Exploration over lease area for geological axis 1 or 2	Nil	7.0 Ha have been converted to G2 level of exploration.	7.0 Ha have been converted to G2 level of exploration.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Natural Resources Exploration & Mining Pvt Limited, Bhubaneswar.	Natural Resources Exploration & Mining Pvt Limited, Bhubaneswar.
1d	Balance area to be explored to bring Geological axis in 1 or 2	470.935 Hects	Nil	No proposal during the reporting year. However the lessee has proposed the exploration program in the submitted modification of mining plan during 2023-24 & 2024-25 to convert the entire mineralised area to G1 level of exploration.
1e	Balance reserve as on 01/04/20		Limestone 95.518 Million Ton Dolomite 1.96 Million Ton as on 01.04.2023	Limestone 95.518 Million Ton Dolomite 1.96 Million Ton as on 01.04.2023

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1f	General remarks of inspecting officers on geology, exploration etc	There were no proposal for any exploration activities during the reporting year. However the lessee has drilled a total of 8 nos of bore hole, 945 mtrs and converted 7.0 Ha of area to G2 level of exploration.	There were no proposal for any exploration activities during the reporting year. However the lessee has drilled a total of 8 nos of bore hole, 945 mtrs and converted 7.0 Ha of area to G2 level of exploration.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	2463016N-2463834N 242492E-244246E	2463016N-2463834N 242492E-244246E	Development carried out within the proposed area during the reporting year.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No Proposal for top soil generation. Separate benches were proposed for Ore & OB excavation.	No Proposal for top soil generation. Separate excavation during the reporting year.	No Proposal for top soil generation. Separate were done for Ore & OB excavation during the reporting year.
2c	Stripping ratio or ore to OB ratio	1:0.79	1:0.60	1:0.60
2d	Quantity of topsoil generation in m3	No Proposal for top soil generation.	Nil	No Proposal for top soil generation during the reporting year.
2e	Quantity of overburden generation in m3	29,97,500	13,01,359	Less waste generated than proposal due to less production of limestone compared to proposal.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 Pits (Q1-3 & 4-5) and Q 2-6	02 Pits (Q1-3 & 4-5) and Q 2-6	02 Pits (Q1-3 & 4-5) and Q 2-6. Lessee has carried out production with the proposed pit, but could not achieved the proposed target during the reporting year.
3b	Quantity of ROM mineral production proposed	Limestone 94,96,750 Tons Dolomite 74,750 MT	Limestone 54,63,339 Tons Dolomite 3,852 tones Less production due to less market demand of cement in captive cement plant.	Limestone 54,63,339 Tons Dolomite 3,852 tones Less production due to less market demand of cement in captive cement plant.
3c	Recovery of sailable/usable mineral from ROM production	100% recovery proposed.	100% recovery carried out.	100% recovery carried out.
3d	Quantity of mineral reject generation	5,57,000 Tons	5,08,805 tons carried out during the reporting year.	5,08,805 tons carried out during the reporting year.
3e	Grade of mineral rejects generation and threshold value declared.	Threshold Value, CaO>34 % & MgO<5 .	Threshold Value, CaO>34 % & MgO<5 .	Threshold Value, CaO>34 % & MgO<5 .
3f	Quantity of sub grade mineral generation.	Nil	Nil	Nil
3g	Grade of sub grade mineral generation	NA	Not applicable	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	Fully Mechanized method	Mechanized method	Mechanized method

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3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	Nil
3j	Provision of drilling and blasting in mineral benches	Yes, Jack Hammer 115 mm dia Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with detonating cord & milli second delay detonators.	Yes, Jack Hammer 115 mm dia Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with detonating cord & milli second delay detonators.	Yes, Jack Hammer 115 mm dia Drills. Blasting proposed with LD explosives of 25mm dia. & 83mm dia. with detonating cord & milli second delay detonators.
3k	Provision of mining machineries in mineral benches	Yes, Shovel and Dumper combination proposed.	Yes, Shovel and Dumper combination carried out.	Yes, Shovel and Dumper combination carried out.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height proposed is 8 m & width is 12m.	The height of the bench is suitable for the method of mining proposed in review of mining plan.	The height of the bench is suitable for the method of mining proposed in review of mining plan.
3m	Total area covered under excavation/pits	166.187 Ha	152.01 hectares till 31.03.2023.	152.01 hectares till 31.03.2023.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.79	1:0.60	1:0.60
3o	Total area put in use under different heads at the end of year	263.277 ha (End of Review Period 2020-25 MP)	235.78 ha as on 01.04.2023	235.78 ha as on 01.04.2023

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3p Production of ROM mineral during the last five year period as applicable	2017-18 :	2017-18 :	2017-18 :
	Limestone =	Limestone=	Limestone=
	43,89,690 MT	41,50,721.000 MT	41,50,721.000 MT
	Dolomite=	Dolomite =	Dolomite =
	73,737 MT	5572.000	5572.000
	2018-19 :	2018-19 :	2018-19 :
	Limestone =	Limestone=	Limestone=
	44,92,750	39,47,099	39,47,099
	Dolomite=	Dolomite =	Dolomite =
	46,150	43,664	43,664
2019-20	2019-20	2019-20	
Limestone =	Limestone =	Limestone =	
65,01,250	44,05,692	44,05,692	
Dolomite=	Dolomite =	Dolomite =	
78,950	17,331	17,331	
2020-21 :	2020-21 :	2020-21 :	
Limestone =	Limestone=	Limestone=	
85,00,000 MT	60,99,957 MT	60,99,957 MT	
Dolomite=	Dolomite =	Dolomite =	
79,150 MT	22,991	22,991	
2021-22 :	2021-22 :	2021-22 :	
Limestone =	Limestone=	Limestone=	
89,99,750 MT	57,55,505 MT	57,55,505 MT	
Dolomite=	Dolomite =	Dolomite =	
78,550 MT	7,480 MT	7,480 MT	
2022-23 :	2022-23 :	2022-23 :	
Limestone =	Limestone=	Limestone=	
94,96,750 MT	54,63,339 MT	54,63,339 MT	
Dolomite=	Dolomite =	Dolomite =	
74,750 MT	3,852 MT	3,852 MT	

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3q	General remarks of inspecting officers on method of mining etc.	The lessee has proposed for production for both limestone and dolomite during the reporting year. The lessee has carried out the production proposal well within the proposed location but could not achieved the targeted production during the reporting year. However, in view of the same the lessee has submitted a modified proposal and the same is under process of approval.	The lessee has proposed for production for both limestone and dolomite during the reporting year. The lessee has carried out the production proposal well within the proposed location but could not achieved the targeted production during the reporting year. However, in view of the same the lessee has submitted a modified proposal and the same is under process of approval.	The lessee has proposed for production for both limestone and dolomite during the reporting year. The lessee has carried out the production proposal well within the proposed location but could not achieved the targeted production during the reporting year. However, in view of the same the lessee has submitted a modified proposal and the same is under process of approval.
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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate stacking of mineral reject are being proposed temporarily, which will be subsequently blended with the high grade material and sold out. There is no proposal for generation of Top soil during the year.	Separate stacking of mineral reject are being proposed temporarily, which have been subsequently blended with the high grade material and sold out during the reporting year. There is no generation of Top soil during the year.	Separate stacking of mineral reject are being proposed temporarily, which have been subsequently blended with the high grade material and sold out during the reporting year. There is no generation of Top soil during the year.
4b	Location of topsoil, OB and mineral reject dumps	i) Dump 5N: 244601E-245090E & 2463705N-2463905N, ii) Dump 7N Extension: 245475E-245692E & 2463771N-2463851N	Dump 5 N has been carried out as per the proposal. Whereas Dump 7N could not be carried out as per the proposal, as the lessee could not able to get the surface right of the proposed location. However, in view of the above reason the lessee submitted modification of RoMP with a revised proposal of dumping and production also, where already surface right have been acquired.	Dump 5 N has been carried out as per the proposal. Whereas Dump 7N could not be carried out as per the proposal, as the lessee could not able to get the surface right of the proposed location. However, in view of the above reason the lessee submitted modification of RoMP with a revised proposal of dumping and production also, where already surface right have been acquired.
4c	Number of dumps within lease area and outside of lease area	10 - Inactive 01 - Active (within lease area)	10 - Inactive 01 - Active (within lease area)	10 - Inactive 01 - Active (within lease area)
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside UPL	Outside UPL	Outside UPL

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4e	Number of active and alive dumps.	02 Nos active and alive dumps (one for dumping & one for relocation)	02 Nos active and alive dumps (one for dumping & one for relocation)	02 Nos active and alive dumps (one for dumping & one for relocation)
4f	Number of dead dumps.	No such proposal during the year.	Nil	10 nos dump already stabilised prior to the reporting year.
4g	Number of dumps established.	No such proposal during the year.	Nil	10 nos dump already stabilised prior to the reporting year.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal during the reporting year.	Nil	No proposal during the reporting year. Hence work done during the reporting yaer is NIL. However, retaining wall and garland drains are already exists along the dumps within the lease area.
4i	Length of Retaining wall or garland drain all along dumps	No proposal during the reporting year.	Nil	No proposal during the reporting year. Hence work done during the reporting yaer is NIL. However, retaining wall and garland drains are already exists along the dumps within the lease area.

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4j	Number of settling ponds	No proposal during the reporting year.	Nil.	No proposal during the reporting year. Hence work done during the reporting yaer is NIL. However, settling retaining wall and garland drains and settling ponds are already exists along the dumps within the lease area.
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4k	Specific comments of inspecting officer on waste dump management	Dump 5 N : 244601E- 245090E & 2463705N- 2463905N,has been carried out as per the proposal. Whereas Dump 7N: 245475E- 245692E & 2463771N- 2463851N could not be carried out as per the proposal, as the lessee could not able to get the surface right of the proposed location. However, in view of the above reason the lessee submitted modification of RoMP with a revised proposal of dumping and production also, where alredy surface right have been acquired. The precautionary measures were taken care off all	Dump 5 N : 244601E- 245090E & 2463705N- 2463905N,has been carried out as per the proposal. Whereas Dump 7N: 245475E-245692E & 2463771N-2463851N could not be carried out as per the proposal, as the lessee could not able to get the surface right of the proposed location. However, in view of the above reason the lessee submitted modification of RoMP with a revised proposal of dumping and production. The precautionary measures were taken care off all around the waste dumps during the reporting year.	Dump 5 N : 244601E-245090E & 2463705N- 2463905N,has been carried out as per the proposal. Whereas Dump 7N: 245475E-245692E & 2463771N-2463851N could not be carried out as per the proposal, as the lessee could not able to get the surface right of the proposed location. However, in view of the above reason the lessee submitted modification of RoMP with a revised proposal of dumping and production. The precautionary measures were taken care off all around the waste dumps during the reporting year.
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Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	Nil	Nil.	No such proposal in the reporting year.
5b	Area under backfilling of mined out area	Nil	Nil	No such proposal in the reporting year.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Nil	No such proposal in the reporting year.
5d	Total area fully reclaimed and rehabilitated	Nil	Nil	No such proposal in the reporting year.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		The re is no such proposal for soild waste management in the form of backfilling during the reporting year.	The re is no such proposal for soild waste management in the form of backfilling during the reporting year.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	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.	Submitted within the stipulated time period for the reporting year.
6b	Area available for rehabilitation (ha) .	Nil	No such proposal during the reporting year.	No such proposal during the reporting year.

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6c	afforestation done (ha).	2500 sapplings proposed to be planted over 0.7 ha. area .	2620 nos of sapplings were planted over 0.7 ha. area with a survival rate of 70% during the reporting year.	2620 nos of sapplings were planted over 0.7 ha. area with a survival rate of 70% during the reporting year.
6d	No. of sapplings planted during the year	2500 sapplings proposed to be planted over 0.7 ha. area .	2620 nos of sapplings were planted over 0.7 ha. area with a survival rate of 70% during the reporting year.	2620 nos of sapplings were planted over 0.7 ha. area with a survival rate of 70% during the reporting year.
6e	Cumulative no .of plants	2500 sapplings proposed to be planted over 0.7 ha. area .	2620 sapplings were planted within the ML area and cumulative total 3,35,236 nos of sapplings were planted within the ML area and 3484 sapplings were planted outside the ML area till 31.03.2023	2620 sapplings were planted within the ML area and cumulative total 3,35,236 nos of sapplings were planted within the ML area and 3484 sapplings were planted outside the ML area till 31.03.2023
6f	Any other method of rehabilitation	No such proposal during the reporting year.	No such proposal during the reporting year.	No such proposal during the reporting year.
6g	Cost incurred on watch and care during the year	Nil	No such proposal during the reporting year.	No such proposal during the reporting year.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal during the reporting year.	No such proposal during the reporting year.	No such proposal during the reporting year.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal during the reporting year.	No such proposal during the reporting year.	No such proposal during the reporting year.

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6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No such proposal during the reporting year.	No such proposal during the reporting year.	No such proposal during the reporting year.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal during the reporting year.	No such proposal during the reporting year.	No such proposal during the reporting year.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal during the reporting year.	No such proposal during the reporting year.	No such proposal during the reporting year.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	2500 sapplings proposed to be planted over 0.7 ha. area .	2620 nos of sapplings were planted over 0.7 ha. area with a survival rate of 70% during the reporting year.	2620 nos of sapplings were planted over 0.7 ha. area with a survival rate of 70% during the reporting year.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2500 sapplings proposed to be planted over 0.7 ha. area .	2620 nos of sapplings were planted over 0.7 ha. area with a survival rate of 70% during the reporting year.	2620 nos of sapplings were planted over 0.7 ha. area with a survival rate of 70% during the reporting year.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Afforestation.	Afforestation.	Afforestation.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Air, Noise and Water quality monitoring will be done during the year within the lease area.	Air, Noise and Water quality monitoring carried out as per the proposal during the reporting year.	Air, Noise and Water quality monitoring carried out as per the proposal during the reporting year.

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6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year.	The lessee has carried out afforestation and environmental monitoring as per the proposal during the reporting year.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area		The ore produced from mine is being consumed at lessees Captive Plant at Rajgangpur at distance of 12 Km from the mine with Plant acceptable grade of ore is +38% CaO and -7% SiO ₂ .	The ore produced from mine is being consumed at lessees Captive Plant at Rajgangpur at distance of 12 Km from the mine with Plant acceptable grade of ore is +38% CaO and -7% SiO ₂ .
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	Blending of different grade minerals is being carried out in mines and supply to lessees Captive Plant at Rajgangpur at distance of 12 Km from the mine with Plant acceptable grade of ore is +38% CaO and -7% MgO.
7c	Different grade of mineral sorted out at mines.	CaO > 38% & MgO < 7% CaO 34-38% & MgO < 7% The same will be blended as per the plant requirement.	CaO > 38% & MgO < 7% CaO 34-38% & MgO < 7% The same are being blended as per the plant requirement.	CaO > 38% & MgO < 7% CaO 34-38% & MgO < 7% The same are being blended as per the plant requirement.

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7d	Any beneficiation process at mines .	No beneficiation appart from dry crushing and screening.	No beneficiation appart from dry crushing and screening.	No beneficiation appart from dry crushing and screening.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		The ore produced from mine is being consumed at our Captive Plant at Rajganjpur. Plant acceptable grade of ore is +38% CaO and -7% MgO. Accordingly the produced ore are being transported belt conveyor (12 kms) to the ccaptive cement plant. No beneficiation process was proposed. Only crushing and screening is being carried out.	The ore produced from mine is being consumed at our Captive Plant at Rajganjpur. Plant acceptable grade of ore is +38% CaO and - 7% MgO. Accordingly the produced ore are being transported belt conveyor (12 kms) to the ccaptive cement plant. No beneficiation process was proposed. Only crushing and screening is being carried out.

Environment :

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No proposal.	Nil	The top soil quantity is negligible and occurring as small isolated pockets which gets mixed up with stone chips and not possible to separate it out.

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8b	Concurrent use or storage of topsoil	No proposal.	Nil	The top soil quantity is negligible and occurring as small isolated pockets which gets mixed up with stone chips and not possible to separate it out.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate stacking of OB, mineral reject was proposed and mineral reject of limestone ore were subsequently ended with sale bale ore and sent to the lessees own captive plant was proposed.	Separate stacking of OB, mineral reject was carried out and mineral reject of limestone ore were subsequently blended with sale bale ore and sent to the lessees own captive plant.	Separate stacking of OB, mineral reject was carried out and mineral reject of limestone ore were subsequently blended with sale bale ore and sent to the lessees own captive plant.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal during the reporting year.	Nil	Nil.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal during the reporting year.	Nil	Nil
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	2500 nos of sapling proposed to be planted during the year	2620 nos of sapling planted during the reporting year.	2620 nos of sapling planted during the reporting year.

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8g	Survival rate	Not specified.	70% survival rate during the reporting year.	70% survival rate during the reporting year.
8h	Water sprinkling on roads to control airborne dust	Water sprinkling by permanent water sprinkler and water tanker over haul roads were proposed.	Water sprinkling by permanent water sprinkler and water tanker over haul roads has been carried out during the reporting year to control the air borne dust particles.	Water sprinkling by permanent water sprinkler and water tanker over haul roads has been carried out during the reporting year to control the air borne dust particles.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Lessee has planted 2620 no of saplings within the lease area and water sprinkling by water tanker over haul roads. Stationary sprinkler system has been fixed along the haul roads to control the airborne dust and to minimize the fugutive dust emmision. This sustains the asthetic beauty of the mine area.	Lessee has planted 2620 no of saplings within the lease area and water sprinkling by water tanker over haul roads. Stationary sprinkler system has been fixed along the haul roads to control the airborne dust and to minimize the fugutive dust emmision. This sustains the asthetic beauty of the mine area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	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.	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.

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Employment of Mining Engineer, Geologist and Mines Manager mentioned in the Annual return of the reporting year; 1. Sri Debi Prasad Mishra - Mines Manager 2. Sri Devendra Deshmukh- Mining Engineer 3. Dr Udayanath Sahoo - Geologist.	1. Sri Debi Prasad Mishra - Mines Manager 2. Sri Devendra Deshmukh- Mining Engineer 3. Dr Udayanath Sahoo - Geologist. were present during the inspection.	1. Sri Debi Prasad Mishra - Mines Manager 2. Sri Devendra Deshmukh- Mining Engineer 3. Dr Udayanath Sahoo - Geologist. were present during the inspection.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 151.95034 Ha. Waste Dump- 61.350 Ha & Road- 22.480 Ha.	Pit- 151.95034tr Ha. Waste Dump- 61.350 Ha Infrastructure & Road- 22.480 Ha.	Pit- 151.95034 Ha. Waste Dump- 61.350 Ha Infrastructure & Road- 22.480 Ha.
9d	Scrutiny of Annual return on afforestation	2620 saplings were planted within the ML area and cumulative total 3,35,236 nos of saplings were planted within the ML area and 3484 saplings were planted outside the ML area till 31.03.2023	2620 saplings were planted within the ML area and cumulative total 3,35,236 nos of saplings were planted within the ML area and 3484 saplings were planted outside the ML area till 31.03.2023	2620 saplings were planted within the ML area and cumulative total 3,35,236 nos of saplings were planted within the ML area and 3484 saplings were planted outside the ML area till 31.03.2023

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9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	5,08,805 MT Mineral Reject generated during the reporting Year against proposed 5,57,000 MT	5,08,805 MT Mineral Reject generated during the reporting Year against proposed 5,57,000 MT	5,08,805 MT Mineral Reject generated during the reporting Year against proposed 5,57,000 MT
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: - Opening stock : 6,505.230 Production: 54,63,339.000 Closing Stock: 6,505.230 Process Ore:- Opening stock : 210789.305 Production: 54,63,339.000 Despatch : 53,69,983.000 Closing Stock: 3,04,145.305	ROM: - Opening stock : 6,505.230 Production: 54,63,339.000 Closing Stock: 6,505.230 Process Ore:- Opening stock : 210789.305 Production: 54,63,339.000 Despatch : 53,69,983.000 Closing Stock: 3,04,145.305	ROM: - Opening stock : 6,505.230 Production: 54,63,339.000 Closing Stock: 6,505.230 Process Ore:- Opening stock : 210789.305 Production: 54,63,339.000 Despatch : 53,69,983.000 Closing Stock: 3,04,145.305
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex. Mine Price- Rs.348.86/-	Ex. Mine Price- Rs.348.86/-	Ex. Mine Price- Rs.348.86/-
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets: Rs.2389728018 /-	Value of Fixed Assets: Rs.2389728018 /-	Value of Fixed Assets: Rs.2389728018 /-

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9k	Scrutiny of Annual return on mining machineries	Shovel Hyd- 4.0 Cum: 3 Nos Shovel Hyd- 1.6 Cum: 1 No Shovel Hyd- 4.5 Cum: 4 Nos Shovel Hyd- 6.0 Cum: 2 Nos Dumper- 35 tonne: 13 Nos Dumper- 40 tonne: 16 Nos Dumper- 50 tonne: 10 Nos Dozer- 3 Nos Motor Grader-2 No Road Roller-2 No Explosive van- 2 No Tractor- 1 No Water tanker- 3 Nos Wheel Loader- 1 No Back Hoe- 1 No Crane-:1 No Pumps- 16 Nos Crusher 4 Nos Drill- 3 Nos Others 11 Nos	Shovel Hyd- 4.0 Cum: 3 Nos Shovel Hyd- 1.6 Cum: 1 No Shovel Hyd- 4.5 Cum: 4 Nos Shovel Hyd- 6.0 Cum: 2 Nos Dumper- 35 tonne: 13 Nos Dumper- 40 tonne: 16 Nos Dumper- 50 tonne: 10 Nos Dozer- 3 Nos Motor Grader-2 No Road Roller-2 No Explosive van- 2 No Tractor- 1 No Water tanker- 3 Nos Wheel Loader- 1 No Back Hoe- 1 No Crane-:1 No Pumps- 16 Nos Crusher 4 Nos Drill- 3 Nos Others 11 Nos
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Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show couse position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on

Date :**(SANJIB KUMAR MOHAPATRA)**

Indian Bureau of Mines