

**INDIAN BUREAU OF MINES
MINERALS DEVELOPMENT AND REGULATION DIVISION**

Review and updation of Mining Plan REPORT

Hyderabad regional office

Mine file No : AP/CDP/L.ST-4/HYD

Mine code : 38APR04001

- (i) Name of the Inspecting Officer and ID No. : KQ07) SHAIVAL KARTIKEYA
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine Official with Designation : Shri M. Venugopal Reddy, Managar (Mines)
- (iv) Date of Inspection : 03-DEC-21
- (v) Prev.inspection date :

PART-I : GENERAL INFORMATION

1. (a) Mine Name : COROMANDAL
- (b) Registration NO. :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :
State : ANDHRA PRADESH
District : CUDDAPAH
Village : CHILAMKUR
Taluka : YERRAGUNTALA
Post office : CHILAMKUR
Pin Code : 516310
FAX No. : 08563-76155
E-mail : ccp_mines@indiacements.co..
Phone : 08563-276152,276201
- (f) Police Station :
- (g) First opening date : 01-OCT-82
- (h) Weekly day of rest : SUN
2. Address for correspondence : COROMANDAL LIMESTONE MINE
M/S THE INDIA CEMENTS LTD
CHILAMKUR(PO) CUDDAPAH DT.
3. (a) Lease Number : APR0021
- (b) Lease area : 601.96
- (c) Period of lease : 20
- (d) Date of Expiry : 17-NOV-01
4. Mineral worked : LIMESTONE Main

5. Name and Address of the
Lessee :

THE INDIA CEMENTS LTD
DHUN BUILDING 827, ANNA
SALAI CHENNAI CHENNAI CITY
TAMIL NADU
Phone:282521526
FAX :28520638

Owner : Mrs laxmi Aparna Srikumar
Coromandal tower, 93,
Santhome High Avenue, raja
Annamalaipuram, Chennai
CHENNAI CITY TAMIL NADU
Phone:
FAX :

Agent : P MUNI REDDY
CHILAMKUR 516310 CUDDAPAH
ANDHRA PRADESH
Phone:
FAX :

Mining Engineer

Name : Sri L. SOMASEKHARREDDY, Full Time
Qualification : B.E, (MINING) IInd CLASS MANAGER "CERTIFIC
Appointment/ : 04-AUG-11
Termination date

Manager

Name : N.K.MITRA
Qualification : D.M.E. & FCMMC
Appointment/ : 31-AUG-01
Termination date

6. Date of approval of Mining
Plan/Scheme of Mining

:	Existing rule 11 MCDR1988	29-APR-92
	Existing rule 11 MCDR1988	24-NOV-98
	Existing rule 11 MCDR1988	26-NOV-98
	Mining Scheme rule 12 MCDR1988	04-MAR-03
	Mining Scheme rule 12 MCDR1988	27-APR-07
	Mining Scheme rule 12 MCDR1988	30-NOV-12
	Mining Scheme rule 12 MCDR1988	05-DEC-16
	MP modif under 17(3) MCR 2016	20-JAN-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	F.Y. 2020-21: 23 nos. of core boreholes with cumulative depth 1163.0 meters. F.Y. 2021-22: 33 nos. of core boreholes with cumulative depth of 1035.0 meters.	F.Y. 2020-21: 23 nos. of core boreholes with cumulative depth 1243.0 meters. F.Y. 2021-22: 33 nos. of core boreholes with cumulative depth of 1459.0 meters.	During F.Y. 2019-20 to 2021-22 total 84 nos. of core boreholes have been drilled with cumulative depth of 3491.0 meters. The entire lease area has been explored under G1 level.
1b	Exploration over lease area for geological axis 1 or 2	Proposed to convert 471.337 Ha. mining lease area in to G1 level during F.Y. 2019-20 to 2021-22.	471.337 Ha. mining lease area has been explored under G1 level.	-do-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not mentioned in the approved document.	M/s Natural Resources Indetification, Development and Management Consultancy Organizatioin, Hyderabad. Rs. 5679300.00 (F.Y. 2019-20 to 2021-22)	-do-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Total 471.337 Ha. in to G1 level.	Total 471.337 Ha. in to G1 level has been converted.	-do-

1e	Balance reserve as on 01/04/20	As on 01.04.2021: Under (111): 125.647 Million Tonnes Under (122): 49.83 Million Tonnes	As on 01.04.2021: Under (111): 127.900 Million Tonnes Under (122): 49.83 Million Tonnes	Average Grade of Limestone: CaO: 45.95% SiO ₂ : 12.73% MgO: 0.95%
1f	General remarks of inspecting officers on geology, exploration etc			The limestone deposit is simple, tabular, undisturbed stratigraphic horizon of the Jammaladugu Series of Kurnool System and is commonly known as Narji Limestone. Kurnool System is equivalent to Semri Series of the Vindhyan System and Narji limestone is roughly correlated to Kajarhat Limestone in the Sone Valley. The Limestone formation bears a general strike of NW-SE and gently dips at an angle of 1 degree to 5 degree towards NE.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	<p>F.Y. 2020-21: Mineral/Ore Production: In between local co-ordinates</p> <p>(i) North Block: N0191 to N1084 and E0249 to E1312</p> <p>(ii) South Block: N1654 to N2028 and E610 to E869</p> <p>Topsoil:</p> <p>(i) North Block: N0145 to N0931 and E0964 to E1332</p> <p>(ii) South Block: N1613 to N2036 and E0731 to E0918</p>	<p>F.Y. 2020-21: Mineral/Ore Production: In between local co-ordinates</p> <p>(i) North Block: N0191 to N1084 and E0249 to E1312</p> <p>(ii) South Block: N1654 to N2028 and E610 to E869</p> <p>Topsoil:</p> <p>(i) North Block: N0145 to N0931 and E0964 to E1332</p> <p>(ii) South Block: N1613 to N2036 and E0731 to E0918</p>	<p>Development and Production has been carried out in the proposed locations. No major deviation has been found.</p>
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	<p>Separate benching of Topsoil and Mineral/Ore have been proposed</p> <p>Topsoil: 01 no.</p> <p>Mineral/Ore: 04 nos.</p>	<p>Separate benches of Topsoil and Mineral/Ore have been developed and maintained.</p> <p>Topsoil: 01 no.</p> <p>Mineral/Ore: 04 nos.</p>	-
2c	Stripping ratio or ore to OB ratio	1 : 0.09	Not Applicable.	<p>No waste/OB/IB/SB has been generated during F.Y. 2020-21.</p>
2d	Quantity of topsoil generation in m3	132712.0 CuM	16653.0 CuM	<p>Less topsoil has been generated due to less production and development during F.Y. 2020-21.</p>

2e	Quantity of overburden generation in m3	No overburden will be generated during F.Y. 2020-21	No overburden has been generated during F.Y. 2020-21	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			<p>The development and production is being done through fully mechanized means.</p> <p>Consent to Operate is awaited for Limestone production capacity of 5.5 Million Tonnes Per Annum.</p> <p>G1 Area: 548.423 Ha. and Non-mineralised: 53.714 Ha.</p>

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	02 nos.	02 nos.	-
3b	Quantity of ROM mineral production proposed	F.Y. 2020-21: 3600000.00 Metric Tonnes	F.Y. 2020-21: 1347000.00 Metric Tonnes	Less production due to no CTO for enhanced production capacity and lack of market demand.
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	No mineral reject will be generated during plan period.	No mineral reject has been generated during F.Y. 2020-21.	-

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	NIL	-
3f	Quantity of sub grade mineral generation.	No mineral sub-grade will be generated during plan period.	No mineral sub-grade has been generated during F.Y. 2020-21.	-
3g	Grade of sub grade mineral generation	No proposal	NIL	-
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	NIL	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study has been proposed during plan period.	Not applicable.	-
3j	Provision of drilling and blasting in mineral benches	Mineral/Ore: Dia.: 115 mm Spacing: 6.0 m Burden: 4.0 m Depth: 8.0 m Explosive: ANFO	Mineral/Ore: Dia.: 115 mm Spacing: 6.0 m Burden: 4.0 m Depth: 8.0 m Explosive: ANFO	-

3k	Provision of mining machineries in mineral benches	<p>1. Hydraulic Drill Machine 04 nos. with 115 mm dia bit capacity.</p> <p>2. Air Compressor 02 nos. with 550 CFM capacity.</p> <p>3. Excavator/ Shovel 06 nos. with 3.75 CuM bucket capacity.</p> <p>4. Tippers 34 nos. with 25.0 (15 nos.) and 35.0 (19 nos.) Tonnes capacity.</p> <p>5. Dozer 01 no. with 212 HP capacity.</p> <p>6. Explosive Van 01 no. with 10.0 Tonnes capacity.</p> <p>7. Water Tanker 03 nos. with 10000 Liters capacity.</p> <p>8. Pay Loader 01 no. with 5.7 CuM bucket size.</p> <p>9. Mobile Lighting Tower 05 nos. with 5 KW capacity.</p>	<p>1. Hydraulic Drill Machine 01 no. with 115 mm dia bit capacity.</p> <p>2. Air Compressor 01 nos. with 550 CFM capacity.</p> <p>3. Back Hoe 01 no. with 2.8 CuM bucket capacity.</p> <p>4. Dozer 01 no. with 212 H.P. capacity.</p> <p>5. Dumpers 9 nos. with 35.0 Tonnes (08 nos.) and 40.0 Tonnes (01 no.) capacity.</p> <p>6. Explosive Van 01 no. with 3.020 Tonnes capacity.</p> <p>7. Excavator/ Shovel 03 nos. with 3.70 CuM bucket capacity.</p> <p>8. Pump (Electric) 01 no. with 240 Liters/Min capacity.</p> <p>9. Water Tanker 01 nos. with 10000 Liters capacity</p>	-
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	<p>Topsoil: 2.50 m to 3.50 m</p> <p>Mineral/Ore: 2.0 to 8.0 m</p>	<p>Topsoil: 2.50 m to 3.50 m</p> <p>Mineral/Ore: 2.0 to 8.0 m</p>	-
3m	Total area covered under excavation/pits	<p>131.35 Ha. up to end of F.Y. 2021-22</p>	<p>114.10 Ha. up to end of F.Y. 2020-21</p>	-

3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.22	Not Applicable.	No waste/OB/IB/SB has been generated during F.Y. 2020-21.
3o	Total area put in use under different heads at the end of year	Pit- 131.35 Ha. Waste/reject- 68.42 Others- 16.18 Ha. Up to end of F.Y. 2021-22	Pit- 114.100 Ha. Waste/reject- 59.910 Ha. Others- 7.62 Ha. Up to end of F.Y. 2020-21	-
3p	Production of ROM mineral during the last five year period as applicable	Yr. 2016-17: 1900001.00 Metric Tonnes Yr. 2017-18: 1999940.00 Metric Tonnes Yr. 2018-19: 1998320.00 Metric Tonnes Yr. 2019-20: 1997774.00 Metric Tonnes Yr. 2020-21: 3600000.00 Metric Tonnes	Yr. 2016-17: 1504496.00 Metric Tonnes Yr. 2017-18: 1465350.00 Metric Tonnes Yr. 2018-19: 1865000.00 Metric Tonnes Yr. 2019-20: 1527900.00 Metric Tonnes Yr. 2020-21: 1347000.00 Metric Tonnes	-
3q	General remarks of inspecting officers on method of mining etc.			Mining is being carried out through the opencast method with fully mechanized means using conventional method of drilling and blasting.

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) Proposal has been given in the approved document for separate stacking of topsoil in the earmarked locations within lease area. Mainly over non-mineralized area. Stacking of Topsoil is being done in the earmarked locations within mining lease area. Mainly over non-mineralized area. -
- 4b Location of topsoil, OB and mineral reject dumps Topsoil: Within local co-ordinates: Topsoil: Within local co-ordinates: -
 North Block: in between N1289 to N1382 and E0832 to E0982 North Block: in between N1289 to N1382 and E0832 to E0982
 South Block: N0221 to N0382 and E0027 to E0205 South Block: N0221 to N0382 and E0027 to E0205
 With maximum height of 7.0 m.
- 4c Number of dumps within lease area and outside of lease area Within lease area: Within lease area: -
 North Block: 6 nos. of temporary dumps. North Block: 6 nos. of temporary dumps.
 South Block: 9 nos. of temporary dumps. South Block: 9 nos. of temporary dumps.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	<p>F.Y. 2021: North Block: Proposed temporary dumping within ultimate pit limit.</p> <p>South Block: Proposed over non-mineralized area. Beyond ultimate pit limit.</p>	<p>F.Y. 2021: North Block: Dumping has been done within ultimate pit limit.</p> <p>South Block: Dumping has been done over non-mineralized area. Beyond ultimate pit limit.</p>	-
4e	Number of active and alive dumps.	02 nos.	02 nos.	-
4f	Number of dead dumps.	<p>Temporary topsoil dumps</p> <p>North Block: 6 nos. of temporary dumps.</p> <p>South Block: 9 nos. of temporary dumps.</p>	<p>Temporary topsoil dumps</p> <p>North Block: 6 nos. of temporary dumps.</p> <p>South Block: 9 nos. of temporary dumps.</p>	<p>Topsoil will be utilized for ground restoration of the ground during conceptual stage.</p>
4g	Number of dumps established.	No proposal.	NIL	-

4h	Whether Retaining wall or garland drain all along dumps are there.	Proposal has been given in the approved document for construction of	Partly constructed. Garland Drain: 100.0 m along lease boundary at northern part of South Block.	Deviation has been pointed out.
		Garland Drain: Retaining Wall: 150.0 m All along the stacking area. northern part of South Block.		Revised proposal has been incorporated in the Review of Mining Plan.
		Toe/Retaining Wall: 2000.0 m to arrest spill out/soil erosion at northern part of South Block in between local co-ordinates (i) N0817 to N1529 and E0052 to E1903 (ii) S0205 to S0244 and E1337 to E1648.		Construction of Garland Drain and Toe/Retaining Wall is under progress
4i	Length of Retaining wall or garland drain all along dumps	Garland Drain: All along the stacking area.	Garland Drain: 100.0 m along lease boundary at northern part of South Block.	-do-
		Toe/Retaining Wall: 2000.0 m to arrest spill out/soil erosion at northern part of South Block in between local co-ordinates (i) N0817 to N1529 and E0052 to E1903 (ii) S0205 to S0244 and E1337 to E1648.	Retaining Wall: 150.0 m along lease boundary at northern part of South Block.	

4j	Number of settling ponds	No proposal.	01 no. of settling pond has been constructed at northern part of the South Block.	-
4k	Specific comments of inspecting officer on waste dump management			No overburden and waste have been generated during F.Y. 2020-21.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No Proposal during F.Y. 2020-21.	NIL, Area not matured for the reclamation and the rehabilitation.	-
5b	Area under backfilling of mined out area	No Proposal	NIL	-
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal	NIL	-
5d	Total area fully reclaimed and rehabilitated	No Proposal	NIL	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.			NIL

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
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6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Submitted before due date.	Information has been cross verified during inspection.	NIL
6b	Area available for rehabilitation (ha) .	No Proposal	NIL	-
6c	afforestation done (ha).	No Proposal	NIL	-
6d	No. of saplings planted during the year	No Proposal	NIL	-
6e	Cumulative no .of plants	No Proposal	NIL	-
6f	Any other method of rehabilitation	No Proposal	NIL	-
6g	Cost incurred on watch and care during the year	No Proposal	NIL	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No Proposal	NIL	-
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	NIL	-
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No Proposal	NIL	-

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	NIL	-
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No Proposal	NIL	-
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	1000 nos.	1200 nos.	-
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	1.0 Ha.	0.50 Ha.	-
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	By plantation	By plantation	-
6p	Compliance of environmental monitoring (core zone and buffer zone)	Proposal has been given in the approved document for quarterly monitoring of the environmental parameters in the core and buffer zone.	Being done as per proposal.	All the parameters are within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			NIL

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal.	ROM mineral is being directly dispatched to the crusher erected adjacent to the lease boundary. No grade wise sorting has been done.	Average grade of Limestone with 44% to 46% Cao has been dispatched to the captive plant.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	-do-	-do-
7c	Different grade of mineral sorted out at mines.	No proposal	-do-	-do-
7d	Any beneficiation process at mines	No proposal	NIL	-
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			In view of the Mineral conservation, the entire produced Limestone with 34% CaO and above is being utilized in the Captive Cement Plant.

Environment:

Sl.No.	Item	Proposals	Actual work	Remarks
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- 8a Separate removal and utilization of topsoil (Rule 32) F.Y. 2020-21: 132712.0 CuM of topsoil will be stacked in North Block: In between local co-ordinates N1289 to N1382 and E0832 to E0982 South Block: In between local co-ordinates N0221 to N0382 and E0027 to E0205 F.Y. 2020-21: 16653.0 CuM of topsoil has been stacked in North Block: In between local co-ordinates N1289 to N1382 and E0832 to E0982 South Block: In between local co-ordinates N0221 to N0382 and E0027 to E0205 South Block: In between local co-ordinates N0221 to N0382 and E0027 to E0205 With maximum height of 7.0 m.
- 8b Concurrent use or storage of topsoil Topsoil will be utilized for plantation over 53.714 Ha. non-mineralised area. Topsoil has been utilized for plantation over 53.714 Ha. non-mineralised area.

- 8c Separate dumps for overburden, waste rock, rejects and fines (Rule 33) F.Y. 2020-21: 132712.0 CuM of topsoil will be stacked in North Block: In between local co-ordinates N1289 to N1382 and E0832 to E0982 South Block: In between local co-ordinates N0221 to N0382 and E0027 to E0205 With maximum height of 7.0 m. F.Y. 2020-21: 16653.0 CuM of topsoil has been stacked in North Block: In between local co-ordinates N1289 to N1382 and E0832 to E0982 South Block: In between local co-ordinates N0221 to N0382 and E0027 to E0205 -
- 8d Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use Topsoil will be utilized for plantation over 53.714 Ha. non-mineralised area. Topsoil has been utilized for plantation over 53.714 Ha. non-mineralised area. -
- 8e Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc) 1.0 Ha. area at 7.5 m and 105.0 m buffer zone along mining lease boundary of South Block will be rehabilitated by 1000 nos. of plants. In between local co-ordinates: N1353 to N1649 and W0641 to W0588 0.50 Ha. area at 7.5 m and 105.0 m buffer zone along mining lease boundary of South Block has been rehabilitated by 1200 nos. of plants. In between local co-ordinates: N1353 to N1649 and W0641 to W0588 -

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1000 nos. of sapling will be plated over 1.0 Ha. at 7.5 m and 105.0 m buffer zone along lease boundary.	1200 nos. of saplings have been plated over 0.50 Ha. area at 7.5 m and 105.0 m buffer zone along lease boundary.	-
8g	Survival rate	Not mentioned in the approved document.	Approx 90%	-
8h	Water sprinkling on roads to control airborne dust	Proposal has been given in the approved document for water sprinkling on roads to control airborne dust through the water tanker.	Being done as per proposal.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			NIL

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to November 2021 A.R. Submitted up to F.Y. 2020-21	M.R. Submitted up to November 2021 A.R. Submitted up to F.Y. 2020-21	NIL

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri M. Venugopal Reddy Mining Engineer: Shri L. Somasekhar Reddy Geologist: Shri M. Nanta Kumar	Manager: Shri M. Venugopal Reddy Mining Engineer: Shri L. Somasekhar Reddy Geologist: Shri M. Nanta Kumar	NIL
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 114.100 Ha. Waste/reject- 59.910 Ha. Others- 7.62 Ha.	Pit- 114.100 Ha. Waste/reject- 59.910 Ha. Others- 7.62 Ha.	NIL
9d	Scrutiny of Annual return on afforestation	Within Lease Area: 1200 nos. with 90% Survival rate. Outside Lease Area: NIL	Within Lease Area: 1200 nos. with 90% Survival rate. Outside Lease Area: NIL	NIL
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Mineral Reject: NIL Grade: NIL	Mineral Reject: NIL Grade: NIL	No mineral reject has been generated during F.Y. 2020-21 Incorrect grade of mineral reject has been mentioned. Deviation has been pointed out.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Closing Stock ROM: NIL Graded Ore: 56300.00 Metric Tonnes	Closing Stock ROM: NIL Graded Ore: 56300.00 Metric Tonnes	NIL

9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Sale Value: NIL Ex Mine Price: Rs. 211.94 Per Metric Tonne Cost of Production: Rs. 211.94 Per Metric Tonne	Sale Value: NIL Ex Mine Price: Rs. 211.94 Per Metric Tonne Cost of Production: Rs. 211.94 Per Metric Tonne	NIL
9h	Scrutiny of Annual return on fixed assets	Rs. 2400343642 /-	Rs. 2400343642 /-	NIL
9k	Scrutiny of Annual return on mining machineries	Given in the annual returns.	Cross verified from the field logbooks	NIL

Details of violations observed during current inspection and compliance position of violation pointed out

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

Date :

शैवाल कार्तिकेय
(SHAIVAL KARTIKEYA)
24/12/2021

Indian Bureau of Mines