

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

**Mining Plan inspection REPORT**

**Chennai regional office**

**Mine file No :** TN/TCR/LST-5(a)/MDS

**Mine code :** 38TMN24002

- (i) Name of the Inspecting : **K08** ) **G.SORNADURAI KANNAN**  
Officer and ID No.
- (ii) Designation : Senior Mining Geologist
- (iii) Accompanying mine : Thiru. Raja Ranjith Singh, GM & Thiru.C.P. Hariprasad  
Official with  
Designation
- (iv) Date of Inspection : 22/04/2023
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **AMINABAD(KAIRULABAD)**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : TAMIL NADU
- District : ARIYALUR
- Village : AMINABAD,
- Taluka : ARIYALUR
- Post office : ARIYALUR
- Pin Code : 621704
- FAX No. : 04329-235123
- E-mail : s.makesh@dalmiacement.com
- Phone : 04329\*235111
- (f) **Police Station** : ARIYALUR
- (g) **First opening date** : 03/10/1970
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : DALMIA CEMENT (BHARAT) LIMITED  
Dalmiapuram
3. (a) **Lease Number** : TMN0934
- (b) **Lease area** : 2.25
- (c) **Period of lease** : 30
- (d) **Date of Expiry** : 13/08/2034
4. **Mineral worked** : LIMESTONE Main

## 5. Name and Address of the

Lessee : DALMIA CEMENT (BHARAT) LIMITED  
 TIRUCHIRAPALLI TAMIL  
 NADU  
 Phone:  
 FAX :

Owner : T. VENKATESAN  
 Dy. Managing Director  
 Dalmia Cement (B) Ltd  
 CHENNAI CITY TAMIL NADU  
 Phone: 044-28279933, 9  
 FAX : 044-28276508

Agent : K. Vinayagamurthi  
 TIRUCHIRAPALLI TAMIL  
 NADU  
 Phone:  
 FAX :

## Mining Engineer

Name : HARIPRASAD, Full Time  
 Qualification :  
 Appointment/ : 02/03/2022  
 Termination date

## Geologist

Name : Bishamber Singh, Full Time  
 Qualification : M.Sc Applied Geology  
 Appointment/ : 02/03/2022  
 Termination date

## Manager

Name : T.C.Gopi Rajesh Kumar  
 Qualification : BE (mining)  
 Appointment/ : 30/01/2021  
 Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	20/04/2000
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	31/12/2003
		Mining Scheme rule 12 MCDR1988	18/03/2008
		Mining Scheme rule 12 MCDR1988	04/07/2013
		MP review under 17(1) MCR 2016	10/11/2017
		MP review under 17(1) MCR 2016	15/12/2022

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No Boreholes has been proposed during 2022-2023 in both leases.	No Boreholes has drilled during 2022-2023 in both leases.	Mining plan is submitted for amalgamation of Lease-I & II (95.345 hectares + 0.845 hectares = 96.19 hectares)
1b	Exploration over lease area for geological axis 1 or 2	No additional exploration was proposed during 2022-2023 in the lease area for Geological axis - 1 in both leases.	No additional exploration was carried out in the lease area for Geological axis - 1 during 2022-2023 in both leases.	Entire lease area 96.19 hectares are under G-1 category.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal for exploration during 2022-2023 in both leases.	No Exploration during 2022-2023 in both leases.	So far 70 boreholes have been drilled in the amalgamated lease upto 2022-2023. Total expenditure towards exploration is 9.80 Lakhs
1d	Balance area to be explored to bring Geological axis in 1 or 2	Exploration was not proposed during 2022-2023 in both leases.	No Exploration has been carried out during 2022-2023 in both leases.	Entire area has been explored under G-1 category with 100m X 100m grid interval.

1e	Balance reserve as on 01/04/20	As on 01.04.2023 (Lease-I) Proved Mineral Reserves (111) = 7428940 tons Pre-Feasibility Mineral Resources (221) = 11820564 tons (Lease-II) Proved Mineral Reserves (111) = 295000 tons Pre-Feasibility Mineral Resources (221) = 190000 tons	As on 01.04.2023 (Amalgamated Lease) Proved Mineral Reserves (111) = 9966243 tons Pre-Feasibility Mineral Resources (221) = 9652559 tons	After amalgamation resources has converted to Reserves. The available grade of Limestone in this lease area is Cement Grade.
1f	General remarks of inspecting officers on geology, exploration etc	It is part of Cretaceous formations	Limestone deposits are of sedimentary origin of marine transgressional series of Maestrichtian age.	Limestone is yellowish colour with predominant well preserved Gryphaea shells and highly fossiliferous.

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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	During 2022-2023, there is no development proposal in both leases.	No development carried out in both leases.	Mining plan is submitted for amalgamation of Lease-I & II.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No topsoil & OB benches proposed in both leases. Minerals - 5 Benches proposed in Lease-I.	Minerals - 5 Benches are present in Lease-I.	There is no development & production proposal in Lease-II
2c	Stripping ratio or ore to OB ratio	1 : 0.00 for Lease-I and no proposal for Lease-II	1 : 0.00 for Lease-I and nil for Lease-II	Due to no OB waste, Stripping Ratio is zero.

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2d	Quantity of topsoil generation in m3	There is no proposal of Topsoil generation for Lease-I & Lease-II	No topsoil has generated during 2022-2023 in both leases.	No Topsoil available in both leases.
2e	Quantity of overburden generation in m3	There is no proposal of OB generation for Lease-I & Lease-II.	No OB has generated during 2022-2023 in both leases.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	During 2022-2023, there is no development proposal in both leases.	No topsoil & OB has generated during 2022-2023 in both leases.	Due to no OB waste, Stripping Ratio is zero.

#### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Production was proposed from Pit-2 & 3 in Lease-I and no proposal for Lease-II.	Productions are carried out as per proposal in Lease-I and Nil in Lease-II.	Mining plan is submitted for amalgamation of Lease-I & II.
3b	Quantity of ROM mineral production proposed	The total target of Limestone & Ferruginous Limestone production proposed was 1173212 tons during 2022-2023 in Lease-I.	Achieved Limestone Production is 1103020 tons during 2022- 2023 in Lease-I.	There is no production proposal in Lease-II.
3c	Recovery of sailable/usable mineral from ROM production	100% Recovery	100% Recovery	There is no production proposal in Lease-II.
3d	Quantity of mineral reject generation	There is no proposal of Mineral Reject generation during 2022-2023 in Lease-I.	There is no Mineral Reject generation during 2022- 2023 in Lease-I.	There is no production proposal in Lease-II.
3e	Grade of mineral rejects generation and threshold value declared.	No Proposal in both leases.	Nil	Nil

3f	Quantity of sub grade mineral generation.	Proposed Sub Grade Generation (High Ferrugenous Limestone) is 123264 tons for 2022-2023 in Lease-I it include along with ROM.	Achieved as per proposal during 2022-2023 in Lease-I.	There is no production proposal in Lease-II.
3g	Grade of sub grade mineral generation	Grade of Subgrade Mineral is CaO +42% and Fe2O3 +8% for 2022-2023 in Lease-I	Grade of Subgrade Mineral is CaO +42% and Fe2O3 +8%	There is no production proposal in Lease-II.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method for 2022-2023 in Lease-I	Mechanised method for 2022-2023 in Lease-I	There is no production proposal in Lease-II.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No Beneficiation Study is Proposed in both leases.	Nil	Outside the lease area beneficiation plant is present.
3j	Provision of drilling and blasting in mineral benches	Spacing - 3.0 m Burden - 3.0 m It is Proposed to drill by 110mm dia, with wagon drills proposed during for 2022-2023 in Lease-I	Drilling & Blasting are done as per proposal for 2022-2023 in Lease-I	Control Blasting is done for only development. Rock breakers are used for production. There is no production proposal in Lease-II.
3k	Provision of mining machineries in mineral benches	Excavators Dumpers Dozer Drills Compressor	As per proposal the machineries are there during inspection in Lease-I	There is no production proposal in Lease-II.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	In 2022-2023, Bench height of 5m was proposed in Mineral in Lease-I	As per proposal benches are formed in Lease-I	There is no production proposal in Lease-II.

3m	Total area covered under excavation/pits	75 hect area is proposed for excavation during 2022-2023 in Lease-I	76 hect areas are under excavation in Lease-I	There is no production & Development proposal in Lease-II.
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.00 for Lease-I and no proposal for Lease-II	1 : 0.00 for Lease-I and nil for Lease-II	Due to no OB waste, Stripping Ratio is zero.
3o	Total area put in use under different heads at the end of year	Land use Pattern as on 01.04.2023. (Lease-I) Mines = 75 hect Infrastructure = 0.44 hect Road = 0.94 hect (Lease-II) Road = 0.010 hect Safety Zone = 0.835 hect	Land use Pattern as on 01.04.2023. (Lease-I) Mines = 76 hect Infrastructure = 0.44 hect Road = 0.94 hect (Lease-II) Road = 0.010 hect Safety Zone = 0.835 hect	Lease-II is virgin and there no change in landuse pattern.
3p	Production of ROM mineral during the last five year period as applicable	Production proposal for Lease-I 2022-2023 = 1173212 tons 2021-2022 = 1984930 tons 2020-2021 = 1499030 tons 2019-2020 = 1344485 tons 2018-2019 = 1369238 tons	Production achieved for Lease-I 2022-2023 = 1103020 tons 2021-2022 = 1096000 tons 2020-2021 = 1085200 tons 2019-2020 = 1079100 tons 2018-2019 = 1096000 tons	There is no production & Development proposal in Lease-II.
3q	General remarks of inspecting officers on method of mining etc.	Production was proposed from Pit-2 & 3 in Lease-I and no proposal for Lease-II.	Achieved ROM Production is 1103020 tons during 2022- 2023 against proposal of 1173212 tons in Lease-I.	Sub grade is blended with High grade limestone. There is no production & Development proposal in Lease-II.

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#### Solid Waste Management - Dumping:

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Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	There is proposal for dumping of Subgrade in on southern side of lease area during 2022-2023 in Lease-I. There is no proposal in Lease-II.	As per proposal the sub grade dumping are not carried out during 2022-2023 in Lease-I.	Mining plan is submitted for amalgamation of Lease-I & II.
4b	Location of topsoil, OB and mineral reject dumps	It is proposed to dump sub grade on south side of lease area during 2022-2023 in Lease-I. There is no proposal in Lease-II.	As per proposal the sub grade is not stock during 2022-2023 in Lease-I.	Mining plan is submitted for amalgamation of Lease-I & II.
4c	Number of dumps within lease area and outside of lease area	Lease area = Nil Non Lease area = Nil	Lease area = Nil Non Lease area = Nil	Mining plan is submitted for amalgamation of Lease-I & II.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
4e	Number of active and alive dumps.	Active Dump= Nil Alive Dump = Nil	Active Dump= Nil Alive Dump = Nil	Mining plan is submitted for amalgamation of Lease-I & II.
4f	Number of dead dumps.	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
4g	Number of dumps established.	No Dumps have been established.	No Dumps have been established.	Mining plan is submitted for amalgamation of Lease-I & II.
4h	Whether Retaining wall or garland drain all along dumps are there.	No Proposal	Garland drains are constructed in Lease-I during 2022-2023.	Garland drainage has made along the safety barrier.
4i	Length of Retaining wall or garland drain all along dumps	No Proposal	600m of Garland drainage has been constructed in Lease-I during 2022-2023.	Garland drainage has made along the safety barrier.
4j	Number of settling ponds	No proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.

4k	Specific comments of inspecting officer on waste dump management	There is proposal for dumping of Subgrade in on southern side of lease area during 2022-2023 in Lease-I. There is no proposal in Lease-II.	As per proposal the sub grade dumping are not carried out during 2022-2023 in Lease-I.	600m of Garland drainage has made along the safety barrier.
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#### 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 for backfilling during 2022-2023 in both Leases.	No backfilling has done during 2022-2023 in both leases.	The mine was not worked upto the proved depth and no backfilling were proposed during 2022-2023 in both leases.
5b	Area under backfilling of mined out area	No Proposal during 2022-2023 in both Leases.	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No Proposal during 2022-2023 in both Leases.	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
5d	Total area fully reclaimed and rehabilitated	No Proposal during 2022-2023 in both Leases.	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	No proposal for backfilling during 2022-2023 in both Leases.	The mine was not worked upto the proved depth and no backfilling were proposed during 2022-2023 in both leases.	Mining plan is submitted for amalgamation of Lease-I & II.

#### 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).	It should be on or before 1st July every year.	Not Submitted for the year 2022-2023.	Till time is there for submission.

6b	Area available for rehabilitation (ha) .	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
6c	afforestation done (ha).	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
6d	No. of saplings planted during the year	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
6e	Cumulative no .of plants	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
6f	Any other method of rehabilitation	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
6g	Cost incurred on watch and care during the year	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No Proposal	Nil	Mining plan is submitted for amalgamation of Lease-I & II.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	150 saplings proposed in safety zone and waste land for 2022-2023 in Lease-I. 20 Saplings in Lease-II	Total 200 saplings has achieved during 2022-2023 along safety zone in Lease-I.	Cumulatively 9026 saplings have been planted till date in both inside and outside lease area.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Proposed 0.10 hect in safety zone for 2022-2023 in Lease-I. 0.01 hect in Lease-II	0.20 hect achieved in safety zone area during 2022-2023 in Lease-I.	Nil
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Green Belt development along 7.5m safety barrier for 2022-2023 in Lease-I.	Plantation has been done as per proposal along the safety barrier for 2022-2023 in Lease-I.	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Bi-Annually Survey	Environment monitoring is carried out through Government as well as private agency.	Lessee is conducting Environmental monitoring and all are within permissible limit
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	150 saplings proposed in safety zone and waste land for 2022-2023 in Lease-I.	Total 200 saplings has achieved during 2022-2023 along safety zone in Lease-I.	Plantation has been done as per proposal along the safety barrier in Lease-I.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	The total target of Limestone & Ferruginous Limestone production proposed was 1173212 tons during 2022-2023 in Lease-I.	Achieved Limestone Production is 1103020 tons during 2022- 2023 in Lease-I.	There is no production proposal in Lease-II.

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	There is no proposal for grade wise mineral sorting in the lease area.	Entire ROM is useable and subgrade is blended with high grade limestone.	The available grade of Limestone in this lease area is cement grade.
7c	Different grade of mineral sorted out at mines.	The Limestone of the lease area varies from 35% CaO.	The Limestone of the lease area is 35% CaO	Grade of Subgrade Mineral is CaO +42% and Fe2O3 +8%
7d	Any beneficiation process at mines .	Crushing & Screening process at outside the lease area	Inside the lease area there is no beneficiation process.	Entire ROM is useable and subgrade is blended with high grade limestone.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	The available grade of Limestone in this lease area is cement grade.	Achieved ROM Production is 1103020 tons during 2022- 2023 against proposal of 1173212 tons in Lease-I.	Entire ROM is useable and subgrade is blended with high grade limestone to get the desired plant feed materials. There is no production & Development proposal in Lease-II.

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**Environment :**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No topsoil is Proposed to generate during 2022-2023 in Lease-I	No topsoil has generated during 2022-2023 in Lease-I	There is no proposal in Lease-II.
8b	Concurrent use or storage of topsoil	No Proposal	Nil	There is no proposal in Lease-II.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	It is proposed to dump sub grade on south side of lease area during 2022-2023 in Lease-I. There is no proposal in Lease-II.	As per proposal the sub grade is not stock during 2022-2023 in Lease-I.	Mining plan is submitted for amalgamation of Lease-I & II.

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal for backfilling during 2022-2023 in both Leases.	No backfilling has done during 2022-2023 in both leases.	The mine was not worked upto the proved depth and no backfilling were proposed during 2022-2023 in both leases.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal for backfilling during 2022-2023 in both Leases.	No backfilling has done during 2022-2023 in both leases.	The mine was not worked upto the proved depth and no backfilling were proposed during 2022-2023 in both leases.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	150 saplings proposed in safety zone and waste land for 2022-2023 in Lease-I.	Total 200 saplings has achieved during 2022-2023 along safety zone in Lease-I.	Plantation has been done as per proposal along the safety barrier in Lease-I.
8g	Survival rate	No Proposal in the document.	85%	Mining plan is submitted for amalgamation of Lease-I & II.
8h	Water sprinkling on roads to control airborne dust	Yes, it is proposed for water sprinkling on haul roads.	Daily Water tanker is spraying water on mines roads side to control airborne dust.	During Inspection, water sprinkling on mines roads has been noticed.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Scanty vegetation, bushes, neem are observed in lease area	There is no prominent river or stream running in this area.	Outside lease area, seasonal nalla is running.

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#### Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR Submitted up to = April 2023 AR Submitted up to = 2021-2022 for Lease-I.	Returns are submitted within time limit.	Both Annual & Monthly returns are submitted in online for Lease-I.

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Annual Return for 2022-2023 is not submitted.	During inspection Mining Engineer, Geologist is present.	Annual Return for the year 2022-2023 yet to submit. Mining plan is submitted for amalgamation of Lease-I & II.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Annual Return for 2022-2023 is not submitted.	Nil	Annual Return for the year 2022-2023 yet to submit. Mining plan is submitted for amalgamation of Lease-I & II.
9d	Scrutiny of Annual return on afforestation	Annual Return for 2022-2023 is not submitted.	Lessee has planted 200 saplings during 2022-2023. Plantation has been done as per proposal along the safety zone.	Cumulatively 9026 saplings have been planted till date in both inside and outside lease area.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Annual Return for 2022-2023 is not submitted.	Nil	Annual Return for the year 2022-2023 yet to submit. Mining plan is submitted for amalgamation of Lease-I & II.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Annual Return for 2022-2023 is not submitted.	Mine has produced 1103020 tons of production during 2022-2023 in Lease-I.	It is captive mine of M/s. Dalmia Cements (Bharat) Limited.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Annual Return for 2022-2023 is not submitted.	It is captive mine of M/s. Dalmia Cements (Bharat) Limited.	Annual Return for the year 2022-2023 yet to submit. Mining plan is submitted for amalgamation of Lease-I & II.
9h	Scrutiny of Annual return on fixed assets	Annual Return for 2022-2023 is not submitted.	Nil	Annual Return for the year 2022-2023 yet to submit. Mining plan is submitted for amalgamation of Lease-I & II.
9k	Scrutiny of Annual return on mining machineries	Annual Return for 2022-2023 is not submitted.	Nil	Annual Return for the year 2022-2023 yet to submit. Mining plan is submitted for amalgamation of Lease-I & II.

**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 :**

**(G.SORNADURAI KANNAN)**

Indian Bureau of Mines