

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

**MCDR INSPECTION REPORT**

**Gandhinagar regional office**

**Mine file No :** RAJ/BNSW/LST-06

**Mine code :** 38RAJ03007

- (i) Name of the Inspecting : **S012** ) **H C SHARMA**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sh. V. C. Joshi, Agent & Sh. Kishore Moorjani, Manage  
Official with  
Designation
- (iv) Date of Inspection : 05-NOV-19
- (v) Prev.inspection date : 23-APR-18

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **PARTHIPURA**
- (b) **Registration NO.** : **IBM/613/2011**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : RAJASTHAN
- District : BANSWARA
- Village : JHALO KA GARHA
- Taluka : GARHI
- Post office : WAJWANA
- Pin Code : 327025
- FAX No. : 02962301699
- E-mail : bans\_mines@indiacements.co
- Phone : 02962301504,02962-250629
- (f) Police Station : Garhi
- (g) First opening date : 05-MAR-10
- (h) Weekly day of rest : SUN
2. Address for : PARTHIPURA LIMESTONE MINE  
correspondance : Near Village-Parthipura, Tehsil-Garhi  
Dist-Banswara (RAJ)
3. (a) Lease Number : RAJ1681
- (b) Lease area : 65.82
- (c) Period of lease : 50
- (d) Date of Expiry : 17-JUN-46
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : India Cements Limited  
 93, Coromandal Tower,  
 Santhome High Road,  
 Karapagam Avenue, Raja  
 Annamalaipuram, Chennai  
 UNIDENTIFIED TAMIL NADU  
 Phone:02962301516  
 FAX :02962-301699

Owner : Lakshami Aparna Sreekumar  
 M/S India Cements, 93,  
 Coromandal Tower, Santhome  
 High Road, Raja  
 Annamalaipuram, Chennai  
 UNIDENTIFIED TAMIL NADU  
 Phone: 04428521526  
 FAX : 04428521526

Agent : VINOD CHANDRA JOSHI  
 TRINETRA CEMENT LTD  
 WAJWANA, TEH- GARHI  
 BANSWARA BANSWARA RAJASTHAN  
 Phone:  
 FAX :

## Mining Engineer

Name : KISHOPR KUMAR MOORJANI, Full Time  
 Qualification : B.E.(MINING)  
 Appointment/ : 06-APR-15  
 Termination date

## Geologist

Name : P. Padmaraju, Full Time  
 Qualification : MSC GEOLOGY  
 Appointment/ : 17-JUN-19  
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	03-JAN-08
Plan/Scheme of Mining	:	Mining Scheme rule 12 MCDR1988	03-JAN-09
	:	Mining Scheme rule 12 MCDR1988	15-MAY-14
	:	MP modif under 17(3) MCR 2016	21-MAY-18

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	Not applicable	
1b	Exploration over lease area for geological axis 1 or 2	A Total of 6 Bore holes were proposed to be drilled over 19 ha area for a total meterage of 700 m.	A total of 723.5 m drilled by 6 Boreholes over 19 ha area in G-1 category.	A total of 2100 m exploration proposed during 2018-19 to 2020-21.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not specified	M/S Geotech India, Nagpur. Rs 1661100/- expensed.	
1d	Balance area to be explored to bring Geological axis in 1 or 2	G1- 20.52 ha	G1- 20.52 ha	The intimation of exploration in Form I given vide letter dated 1/3/2019.
1e	Balance reserve as on 01/04/20	35.75 million MT	36.254 million MT.	
1f	General remarks of inspecting officers on geology, exploration etc	Not applicable	The exploration work was satisfactory.	

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	At 186mRl, 180mRL, 176mRL, & 170mRL. of Main Pit.	At 186mRl, 180mRL, 176mRL, & 170mRL. of Main Pit.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Yes	
2c	Stripping ratio or ore to OB ratio	1 : 0.094	1 : 0.100	
2d	Quantity of topsoil generation in m3	14000 Cu M	5862 Cu M	

2e	Quantity of overburden generation in m3	58471 Cu M interburden waste	53317 Cu M interburden waste
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	Not applicable	No issue regarding Development of the Mine.

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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Single	Single	
3b	Quantity of ROM mineral production proposed	1550137 MT	1328920.43 MT	
3c	Recovery of sailable/usable mineral from ROM production	100 %	100 %.	
3d	Quantity of mineral reject generation	Nil	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	Nil	Nil	All limestone Average grade CaO-44.59%.
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanized	Mechanized	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	None	

3j	Provision of drilling and blasting in mineral benches	Yes	Yes
3k	Provision of mining machineries in mineral benches	Yes	Yes
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 8m	Yes, 6-8m.
3m	Total area covered under excavation/pits	27.568 ha	24.896 ha
3n	Ore to OB ratio for the pit/mine during the year.	1 : 0.094	1 : 0.100
3o	Total area put in use under different heads at the end of year	39.160 ha total area put in use.	29.655 ha Total area put in use.
3p	Production of ROM mineral during the last five year period as applicable	2014-15-- 1552188 T, 2015-16-- 1461094 T, 2016-17-- 1651643 T, 2017-18-- 1651650 T, 2018-19-- 1550137 T	2014-15-- 1230890.73 T, 2015-16-- 1373477.85 T, 2016-17-- 1269436.34 T, 2017-18-- 1252925.23 T, 2018-19-- 1328920.43 T
3q	General remarks of inspecting officers on method of mining etc.	Not applicable	The opencast method of mining with use of HEMM has been deployed to work the deposit.

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes	Yes	

4b	Location of topsoil, OB and mineral reject dumps	Top Soil-- 828S to 1015S and 1273E to 1362E; OB-1-- 275S to 422S and 940E to 1044E; OB-2-- 132S to 823S and 1254E to 1405E.	Top Soil-- 803S to 855S and 1300E to 1353E; OB-1-- 275S to 425S and 940E to 1044E; OB-2-- 440S to 624S and 1291E to 1398E.
4c	Number of dumps within lease area and outside of lease area	Two waste dumps within lease area	Two waste dumps within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side UPL	Out side UPL
4e	Number of active and alive dumps.	Two	Two
4f	Number of dead dumps.	Nil	Nil
4g	Number of dumps established.	None	Nil
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed	Garland drain provided.
4i	Length of Retaining wall or garland drain all along dumps	No proposal	408 M garland drain.
4j	Number of settling ponds	No proposal	One
4k	Specific comments of inspecting officer on waste dump management	Not applicable	No issue regarding Waste Dump Management.

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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.	Full extraction	Full extraction.	

5b	Area under backfilling of mined out area	Nil	Not applicable
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Nil	Not applicable
5d	Total area fully reclaimed and rehabilitated	Nil	Not applicable
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Not applicable	No matured area available for backfilling & reclamation.

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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).	Yes	Yes	
6b	Area available for rehabilitation (ha) .	Nil	Not applicable	
6c	afforestation done (ha).	Nil	Not applicable	
6d	No. of saplings planted during the year	Nil	Not applicable	
6e	Cumulative no .of plants	Nil	Not applicable	
6f	Any other method of rehabilitation	Nil	Not applicable	
6g	Cost incurred on watch and care during the year	No proposal	Not applicable	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	Nil	Not applicable	

6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	Nil	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	No proposal	Not applicable
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	50 nos	100 nos
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	0.04 ha	0.04 ha
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	Plantation	Plantation
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes as per MOEF & Consent conditions.	Being done regularly.



6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	Not applicable	No issue regarding implementation of PMCP proposals.
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Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	100 % recovery	100 % recovery	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Mechanized	Mechanized	
7c	Different grade of mineral sorted out at mines.	Single Cement Grade	Single Cement Grade	
7d	Any beneficiation process at mines	No proposal	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	Not applicable	No issue regarding mineral conservation.	

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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes	Yes	
8b	Concurrent use or storage of topsoil	Yes for plantation.	Used for plantatin.	

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8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no OB, only interburden waste is there.	Only interburden waste is there, no OB.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Not applicable
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Not applicable
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	The regular plantaion is proposed.	The regular plantation is carried out.
8g	Survival rate	94%	96%.
8h	Water sprinkling on roads to control airborne dust	Yes	Yes
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Not applicable	The general aesthatic beauty in & around the mine was satisfactory.

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Not applicable	The M/R submitted up to Nov 2019. The A/R Submitted up to 2018-19.	

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9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	The mining Engineer & Manager- Sh. K. K. Moorjani and Geologist- Sh. Narendra Nema.	Sh. Narendra Nema had been transferred to other project of the Company & Sh. Padama Raju Ponnamanda joined as Geologist. The intimation of new appointment has been sent on 19/6/2019.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under Mining - 24.896 ha, Reclaimed 0.036 ha, Used for waste disposal- 2.330 ha, Occupied by Plant, Building- 2.363 ha, Plantation 0.036 ha.	Covered under Mining - 24.896 ha, Used for waste disposal- 2.330 ha, Occupied by Plant, Building- 2.363 ha, Plantation 0.036 ha.	
9d	Scrutiny of Annual return on afforestation	100 number of trees planted within lease & 500 nos outside lease with survival rate of 94%.	100 number of trees planted within lease & 500 nos outside lease with survival rate of 94%.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Reject generation- Nil	Reject generated- Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	The opening balance- Nil, production taken- 1328920.43 T & closing Stock- Nil	Found in order.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The Ex- Mine Price stated as 218.69 Rs per Tonne, and Cost of Production also stated as Rs. 218.69 per Tonne.	A Total of Rs. 3384008495.5 had been expensed to raise a production of 1328920.43 T of Mineral, thereby the cost of production comes out to be Rs. 2546.434 per Tonne., which has been stated as Rs. 218.69 per tonne.	This discrepancy had been pointed out as VL.

9h	Scrutiny of Annual return on fixed assets	The Fixed assets stated as Rs. 11729496.00 and depreciation during the year as Rs. 2466341.00.	The Fixed assets is Rs. 11729496.00 and depreciation during the year is Rs. 2466341.00.
9k	Scrutiny of Annual return on mining machineries	The detailed list of M/C deployed in the mine given.	Found in order.

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**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 :**

**(H C SHARMA)**

Indian Bureau of Mines