

INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION

MCDR inspection REPORT
Hyderabad regional office

Mine file No : AP/NLG/LST-1/HYD

Mine code : 38APR14011

- (i) Name of the Inspecting : 25) SHRI IBRAHIM SARIF
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Janki Ram Reddy, M. Uday Bhaskar Rao-AGM (Mines)
Official with
Designation
- (iv) Date of Inspection : 09-DEC-21
- (v) Prev. inspection date : 05-MAR-21

PART-I : GENERAL INFORMATION

1. (a) Mine Name : VISHNUPURAM-I (G.O.NO.131)
- (b) Registration NO. : IBM/613/2011
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : TELANGANA
- District : NALGONDA
- Village : WADAPALLY
- Taluka : MIRYALAGUDA
- Post office : WADAPALLY
- Pin Code : 508355
- FAX No. : 08689-228447
- E-mail : vpm_mines@indiacements.co..
- Phone : 08689-228580
- (f) Police Station : WADAPALLY
- (g) First opening date : 16-JAN-91
- (h) Weekly day of rest : SUN
2. Address for : M/s India Cements Limited, Vishnupuram
correspondance : WADAPALLY
NALGONDA DISTRICT-508355
3. (a) Lease Number : APR0066
- (b) Lease area : 513.68
- (c) Period of lease : 50 years
- (d) Date of Expiry : 31/03/2030
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 : M.Tirupati Rao
Visshnupuram works, ICL
Wadapally PO Damarcherla
mandal NALGONDA TELANGANA
Phone: 08689228580
FAX : 0868/9228447

Mining Engineer

Name : P.Bheem Raj., Full Time
Qualification : B.Tech(Mining)
Appointment/ : 01-MAR-18
Termination date

Geologist

Name : K Srinivas, Full Time
Qualification : Msc geology
Appointment/ : 01-JUL-16
Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	30-JUN-98
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	28-DEC-01
		Modif.approved Mining Scheme	30-SEP-04
		Mining Scheme rule 12 MCDR1988	16-OCT-06
		Renewal under rule 24 MCR1960	04-AUG-10
		MP modif under MCR 1960	08-MAR-16

1f	General remarks of inspecting officers on geology, exploration etc	-	-	Entire lease area has been explored in G1 Scale. Litho unit exposed with Approx. Thickness (m) is as follows : Top Soil 0.00 - 1.00, Variegated Siliceous Limestone 0.00 - 10.00, Grey Limestone 0.00 - 9.00, Green Limestone 3.00 - 5.00, Purple, Argillaceous (Siliceous) Limestone 3.00 - 4.00.
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Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	it is proposed to develop and work in PIT-I & Pit-IV during the year 2020-21 on the western side of the lease. Pit - 1 (A&B Block)	The development and workings are as per the approved proposal.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	None	None	-
2c	Stripping ratio or ore to OB ratio	Nil	Nil	None
2d	Quantity of topsoil generation in m3	34412 Cu.m.	25188 Cu.m.	
2e	Quantity of overburden generation in m3	F.Y 2020-21 proposal of generation	No Nil of OB generation	-

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	36 Core boreholes to be carried out during the year 2020-21 with 858.00 meterage	F.Y 2020-21 : 36 nos core Boreholes were carried out with 1143.5 meterage	-
1b	Exploration over lease area for geological axis 1 or 2	Balance area of 130.53 ha in G2 scale to be explored in to G1 Scale	Balance area of 130.53 ha is explored under G1 scale	Nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	M/s.Natural Resources Development Society Limited (NRDCS) Hyderabad carried out the exploration under the supervision of competent persons of the lessee. Expenditure incurred for the exploration is about Rs. 16.40 Lakhs.	Nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	Nil
1e	Balance reserve as on 01/04/20	-	As on 31.03.2021 Balance reserves = 25.525 Million Tonnes	As on 1.11.2021 Balance reserves = 25.169 Million Tonnes

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The development and production is being done through fully mechanized means.
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Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It is proposed to excavate from two pits.	Production is being carried out from two pits.	-
3b	Quantity of ROM mineral production proposed	14,00,000 M.T.	7,10,252 M.T.	Less production due Less cement dememand in the market
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	-
3d	Quantity of mineral reject generation	None	None	-
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	-	-
3f	Quantity of sub grade mineral generation.	None	None	-
3g	Grade of sub grade mineral generation	Not applicable	-	-
3h	Manual / Mechanised method adopted for segregating from ROM	None	None	-
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	None	-

- 3j Provision of drilling and blasting in mineral benches
- Drilling is to be carried out by using Wagon drill with a capacity of 115 Cu.Meters. Controlled blasting techniques are adopted to ward-off hazards such as fly rock and ground vibration. Blasting is proposed with a spacing of 5.5 meters, burden of 3.5 meters. Atlas Copco:115mm Dia
 Burden : 3.5mm
 Spacing : 5.5mm
 Depth : 8.0mm
- The same was noticed during the inspection.
- 3k Provision of mining machineries in mineral benches
- It was proposed to carry out mining operation by deploying following
 HEMM: Shovel : 1 (Back hoe-Kobelco 380)
 Shovel : 1 (JCB-220),
 Rock Breaker : 1 (Hyundai 210), Tipper : 5 (Ashok Leyland &Eicher),
- The same was noticed during the inspection.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	it is proposed to maintain a height of up to 7.5 meters.	Bench Height of 7.5 meters is noticed during the inspection.	-
3m	Total area covered under excavation/pits	97.01 Ha at end of Plan period 2020-21 to 2024-25`	75.141 ha under Excavation	
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil	-
3o	Total area put in use under different heads at the end of year	Pit- 75.141 Ha. Occupied by plant, buildings, residential, welfare buildings & roads : 56.7 Ha Others- 9.7 Ha. Reclaimed and Rehabilitated :Nil	Pit- 75.141 Ha. Occupied by plant, buildings, residential, welfare buildings & roads : 56.7 Ha. Others- 9.7 Ha. Reclaimed and Rehabilitated :Nil	-
3p	Production of ROM mineral during the last five year period as applicable	2016-17 : 1.40 million tonnes 2017-18 : 1.40 million tonnes 2018-19 : 1.40 million tonnes 2019-20 : 1.40 million tonnes 2020-21 : 1.40 million tonnes	2016-17 - 0.88 million tonnes 2017-18 - 1.02 million tonnes 2018-19 - 1.37 million tonnes 2019-20 - 0.81 million tonnes 2020-21 : 0.71 million tonnes	None

3q General remarks of inspecting officers on method of mining etc.

Mining operations are carried out by fully mechanized open cast mining method using HEMM with Deep hole drilling. Maintaining bench height of 8 meters and width more than height.

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	None	None	None
4b	Location of topsoil, OB and mineral reject dumps	it was proposed to use the topsoil generated simultaneously for plantation purpose.	The top soil generated is being utilised for plantation.	-
4c	Number of dumps within lease area and outside of lease area	None	None	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None	None	-
4e	Number of active and alive dumps.	None	None	-
4f	Number of dead dumps.	None	None	-
4g	Number of dumps established.	None	None	-
4h	Whether Retaining wall or garland drain all along dumps are there.	None	None	-

4i	Length of Retaining wall or garland drain all along dumps	None	None	-
4j	Number of settling ponds	None	None	-
4k	Specific comments of inspecting officer on waste dump management			None

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.	There is no proposal for reclamation during the year 2020-21.	No reclamation was carried out duirng the year 2020-21.	-
5b	Area under backfilling of mined out area	None	None during the year 2020-21.However, an area of 6.65 ha has been backfilled earlier i.e. prior to 2019-20.	An area of 6.65 ha has been reclaimed by way of backfilling earlier.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	None	None	-
5d	Total area fully reclaimed and rehabilitated	Nil	None duirng 2020-21.However, an area of 6.65 ha was reclaimed by way of backfilling prior to 2019-20.	-
5e	General remarks of inspecting officers on backfilling and reclamation etc.	None	None	None

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).	Annual report on PMCP to be submit .	The Annual report on PMCP submitted by the lessee in time.	-
6b	Area available for rehabilitation (ha) .	--	None	None
6c	afforestation done (ha).	1.2 Ha	1.2 ha	-
6d	No. of saplings planted during the year	It was proposed to carry out plantation of 1000 sapling	1000 sapplings planted during the year 2020-21	
6e	Cumulative no .of plants	--	16607 no.s over an extent of 20.78 ha.	
6f	Any other method of rehabilitation	None	None	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	None	None	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	Earlier i.e. prior to 2019-20 an area of 6.65 ha was reclaimed by way of backfilling.
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	None	None	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v) any other specific means.	None	None
6m	Compliance of rehabilitation of waste land within lease (i) afforestation	None	None
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	None	None
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	None	None
6p	Compliance of environmental monitoring (core zone and buffer zone)	it was proposed to carry out quarterly monitoring of environmental parameters in both core and buffer zones.	During the course of inspection it was noticed that quarterly monitoring of environmental parameters was carried out regularly in both core and buffer zones and the parameters are within the permissible limits.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	None	None

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	It was proposed to produce 1.40 Million tonnes of Limestone during 2020-21	0.71 Million Tonnes of Limestone produced during 2020-21	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	
7c	Different grade of mineral sorted out at mines.	None	None	
7d	Any beneficiation process at mines	None	None	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	None	None	None

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	It was proposed to generate 34412 Cu.M during the year 2020-21	The actual topsoil reportedly generated was 25118 Cu.meters during 2020-21.	-
8b	Concurrent use or storage of topsoil	The topsoil generated was proposed to be used for plantation purposes.	The topsoil generated was concurrently being used for plantation purpose.	-

8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	There is no overburden in the Mining lease and as such no generation was proposed.	Not Applicable.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	None	None	-
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	None	None	-
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	--	WML - 16607 Nos (20.78 ha) OML - 19870 Nos (14.64 ha)	There is a pereneal river Krishna flowing on Southern side of the Mining Lease at a distance of 1.8 kilometers. The Mining lease is having medium thickness of vegetation and there are no reports of any wild animals.
8g	Survival rate	95%	about 95%	-
8h	Water sprinkling on roads to control airborne dust	it was proposed to control the dust suppression by way of water sprinkler.	Duirng the course of inspection it was noticed that there were no dust suppression arrangement made.	-

8i	General remarks - of inspecting officer on aesthetic beauty in and around mines area	None	None
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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. Submitted up to October 2021 A.R. Submitted up to F.Y. 2020- 21	M.R. Submitted up to October 2021 A.R. Submitted up to F.Y. 2020-21	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager: Shri M. Ramireddy Mining Engineer: Shri V Raghavendra Geologist: Shri K. Srinivas	The statutory persons mentioned in AR are employed	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit- 75.141 Ha. Occupied by plant, buildings, resi dential, welfare buildings & roads : 56.7 Ha Others- 9.7 Ha. Reclaimed and Rehabilitated : 6.650 Ha	Pit- 75.141 Ha. Occupied by plant, buildings, residential, welfare buildings & roads : 56.7 Ha Others- 9.7 Ha. Reclaimed and Rehabilitated :6.65 Ha	
9d	Scrutiny of Annual return on afforestation	1000 sapplings planted during the year	Yes, 1000 sapplings were found planted	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil	Nil	

9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM ore : Nil, Graded Ore : 25369 Tonnes	ROM ore : Nil, Graded Ore : 25369 Tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex Mine Price and Cost of Production is Rs. 167.60, as it is captive mine.	Ex Mine Price and Cost of Production is Rs. 167.60, as it is captive mine.	
9h	Scrutiny of Annual return on fixed assets	Rs. 325,83,75,164.00	As submitted by Lessee	Common to all the three adjacent leases i.e Krishnapuram Limestone Mine, Laxmipuram Limestone Mine.
9k	Scrutiny of Annual return on mining machineries	Excavator (BAck Hoe)- (1.2 cum capacity - 1 No.) , 2.0 cum capacity- 1 No. Tipper-13 cum capacity- No.s, Air Compressor- 12.6 cum capacity-1 No., Blast Hole drill-115 Dia- 1 No., Tractor- 1No. Water Tanker- 1000 Liter capacity- 1 No.	Excavator (BAck Hoe)- (1.2 cum capacity - 1 No.) , 2.0 cum capacity- 1 No. Tipper-13 cum capacity- No.s, Air Compressor- 12.6 cum capacity-1 No., Blast Hole drill-115 Dia- 1 No., Tractor- 1No. Water Tanker- 1000 Liter capacity- 1 No.	

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 :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines