

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

Review and updation of Mining Plan REPORT

Hyderabad regional office

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

Mine code : 38APR14011

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Janki Ram Reddy, M. Uday Bhaskar Rao-AGM(Mines), K. Srinivasa
Official with
Designation
- (iv) Date of Inspection : 18-FEB-20
- (v) Prev. inspection date :

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. : **08689228447**
- E-mail : **vpm_mines@indiacements.co.**
- Phone : **08689228580**
- (f) **Police Station** : **WADAPALLY**
- (g) **First opening date** : **16-JAN-91**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **VISHNUPURAM**
correspondance : **WADAPALLY**
: **NALGONDA DISTRICT**
3. (a) **Lease Number** : **APR0066**
- (b) **Lease area** : **513.68**
- (c) **Period of lease** :
- (d) **Date of Expiry** :
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/ :
 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

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No approved exploration proposal for 2018-19	5 nos of core bore hole for a total meterage of 141m.	
1b	Exploration over lease area for geological axis 1 or 2	No such exploration proposal approved for 2018-19	5 nos infilling core bore holes have been drilled for a total meterage of 141m and 28 Ha area explored under G1 level.	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No approved proposals for 21018-19	Exploration has been outsourced to M/s NRDCS(Natural Resources Development Co-operative Society Ltd.), Hyderabad. The expenditure incurred is Rs 3.17 Lakhs(Including core drilling and sampling and analysis)	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire lease area has been explored in G1 and G2 level.	
1e	Balance reserve as on 01/04/20	-	6.93 Million Tonnes Reserves-(4.53 Million tonnes 111 category and 2.40 Million tonnes under 122 category) 68.49 Million Tonnes-Remaining Resources	
1f	General remarks of inspecting officers on geology, exploration etc	-	-	It is simple sedimentary bedded deposit of Kurnool group of rocks(Narji formation). G1 scale of exploration has been already been carried out barring safety barrier zone.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Pit -I (A Block) and Pit - IV(D Block)	Pit -I (A Block) and Pit - IV(D Block)	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	There are no proposals of top soil and OB benches. Mineral benches have been proposed.	Two minera benches in Block-A,B and Block-D have been formed.	-
2c	Stripping ratio or ore to OB ratio	No proposal of OB/waste production	OB/waste not produced during 2018-19.	-
2d	Quantity of topsoil generation in m3	14403 M3	35500 M3	
2e	Quantity of overburden generation in m3	No proposal for generation of over burden	Nil	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	Mechanised method of mining has been adopted.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two	Two	-
3b	Quantity of ROM mineral production proposed	14,00,603 tonnes during 2018-19	1368967 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90%	However, total ROM quantity is consumed.	
3d	Quantity of mineral reject generation	No Mineral Reject generation anticipated during 2018-19	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	No Sub grademineral generation anticipated during 2018-19	Nil	
3g	Grade of sub grade mineral generation	Not applicable	ot applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposals have been made for 2018-19.	Nil	The entire recoverable material has been consumed.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposals have been made for 2018-19.	Nil	Beneficiation not warranted.
3j	Provision of drilling and blasting in mineral benches	Atlas Copco: 115mm dia Burden: 3.5 m Spacing: 5.5m Depth : 8 m Atlas Copco : 115 mm dia Slurry Explosives-15 to 20% ANFO-80 to 85%	Burden:3.5 m Spacing : 5.5 m Depth : 8 m Slurry Explosives-15 to 20% ANFO-80 to 85%	
3k	Provision of mining machineries in mineral benches	1.Shovel(Kobelco-380): 01 No 2.Shovel(JCB-220) : 1No 3.Eicher & Ashok Leyland Tippers (14 Tonnes) : 05 Nos 4.Hyundai 210 Rock Breaker : 01 No	1.Shovel(Kobelco-380): 01 No 2.BACKHOE (JCB-220) : 1No 3.Eicher & Ashok Leyland Tippers (14 Tonnes) : 05 Nos 4.Hyundai 210 Rock Breaker : 01 No	

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8.0 m (max)	Height of bench is compatible with the maximum digging of the excavator.	No proposals in OB/waste as there is no OB/waste.
3m	Total area covered under excavation/pits	About 70.00 ha	69.073 ha	
3n	Ore to OB ratio for the pit/mine during the year.	OB generation not anticipated during 2018-19	No OB/waste generated during 2018-19.	
3o	Total area put in use under different heads at the end of year	Covered under current (O/C) Workings as on 31.03.2020-75.64 Ha	Covered under current (O/C) Workings as on 31.03.2019-69.073 Ha Reclaimed/Rehabilitated-6.65 Ha Occupied by plant, buildings, residential, welfare buildings & roads-46.490 Ha Other Purpose (Public works like Road etc)-9.70 Ha	
3p	Production of ROM mineral during the last five year period as applicable	2014-15=14,00,000T, 2015-16=14,00,000 T, 2016-17=13,99,721T, 2017-18=14,00,045 T, 2018-19=14,00,603 T	2014-15=8,95,374 T, 2015-16=2,07,478 T, 2016-17=8,83,641 T, 2017-18=10,22,151 T., 2018-19=1368967 T	
3q	General remarks of inspecting officers on method of mining etc.	-	-	The Mining operations are been carried out by opencast fully mechanised method of mining.

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)	No proposal for dumping of top soil, OB and Mineral rejects is made during the year 2018-19. The top soil generated during 2018-19 will be spreaded over for Green belt developemnt.	No separate dump provided for top soil, OB and Mineral Rejects.	The top soil generated during 2018-19 has been utilised for Green belt developemnt.
4b	Location of topsoil, OB and mineral reject dumps	No such propsal is made.	Nil	-
4c	Number of dumps within lease area and outside of lease area	No such propsal is made.	Nil	-
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	No dumping of top soil,OB and Mineral reject proposed during 2018-19.	Nil	-
4e	Number of active and alive dumps.	No dumping of top soil,OB and Mineral reject proposed during 2018-19.	Nil	-
4f	Number of dead dumps.	No such proposal approved for 2018-19.	Nil	-
4g	Number of dumps established.	No such proposal approved for 2018-19.	Nil	-

4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal approved for 2018-19 as there is no dump within the ML.	Nil.	-
4i	Length of Retaining wall or garland drain all along dumps	Not applicable as no retaining wall or garland drain have been proposed in 2018-19 all along the dump	Nil	-
4j	Number of settling ponds	No settling pond has been proposed in 2018-19.	Nil	-
4k	Specific comments of inspecting officer on waste dump management	-	-	There is no waste dump within the lease area.

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 such approved proposal for 2018-19.	Nil	However, an area of 6.65 Ha has been fully reclaimed and rehabilitated.
5b	Area under backfilling of mined out area	During the year 2018-19, there is no approved proposal for back filling.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Spreading over virgin safety zone area of high way and power line for development of Green Belt.	Used for Green belt development	-

5d	Total area fully reclaimed and rehabilitated	Nil proposal during the current plan period.	Nil	However, an area of 6.65 Ha has been fully reclaimed and rehabilitated.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	On the northern part of the ML area (Block-A) an extent of 6.65ha mined out area has been back filled with soil mixed boulder and rehabilitated with vegetation. Non availability of OB, waste and mineral reject is hinderance to backfilling and reclamation.

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).	Need to submit	Submitted	-
6b	Area available for rehabilitation (ha) .	No such proposal approved for 2018-19	Nil	
6c	afforestation done (ha).	No such proposal approved for 2018-19	Nil	
6d	No. of saplings planted during the year	No such proposal approved for 2018-19	Nil	-
6f	Any other method of rehabilitation	No such proposal approved for 2018-19	Nil	-

6g	Cost incurred on watch and care during the year	No such proposal approved for 2018-19	Nil	-
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No such proposal approved for 2018-19	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal approved for 2018-19	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposal approved for 2018-19	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal approved for 2018-19	Nil	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal approved for 2018-19	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	1000 nos sapplings to be planted in 1.20 Ha	1340 nos sapplings planted in 1.30 Ha	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal approved for 2018-19	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal approved for 2018-19	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of environmental parameters is proposed.	As proposed, monitoring of environmental parameters is done on quarterly basis both in core and buffer zone.	-
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	-	As proposed the lessee has carried out afforestation in the safety barrier zone. Periodical monitoring of environmental parameters is being carried out both in Core and buffer zone. The parameters were found within permissible limits.

Mineral Conservation:

Sl.No.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	14,00,603 Tonnes of ROM proposed for despatched without sorting from the leased area.	13,45,000 Tonnes of ROM has been dispatched from the leased area without sorting during 2018-19	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No such proposal is made.	Not applicable	
7c	Different grade of mineral sorted out at mines.	No such proposal is made.	Not applicable.	
7d	Any beneficiation process at mines	No such proposal is made.	None.	Beneficiation is not warranted.
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	-	-	The entire ROM is consumed in the Plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Yes,	The topsoil removed is spread over the safety zone area for Green belt developement purpose.	-
8b	Concurrent use or storage of topsoil	Yes,	The topsoil is concurrently used for the afforestation purpose.	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No such proposal has been made during the year 2018-19.	No dumps found.	-
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal has been made during the year 2018-19.	Nil	-

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal has been made during the year 2018-19.	Nil	-
8h	Water sprinkling on roads to control airborne dust	Proposed.	Periodical water sprinkling is done to arrest airborne dust.	-
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	-	-	Afforestation is proposed in and around the ML area to add aesthetic beauty. As proposed, the afforestation is done and that added aesthetic beauty in and around the ML area.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR shal be submitted before 10th of every month in respect of preceding month. AR which shall be submitted before 1st July each year for the preceding Financial Year.	Submitted.	-

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	P.BHEEMRAJ-Mining Engineer K.SRINIVAS-Geologist	P.BHEEMRAJ-Mining Engineer K.SRINIVAS-Geologist	-
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be furnished.	Furnished.	-
9d	Scrutiny of Annual return on afforestation	To be furnished.	1340 nos sapplings palnted	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	To be furnished	Furnished as Nil	-
9f	Scrutiny of Annual return on ROM stock and/or graded ore	To be furnished.	There is nil ROM stock.	-
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	To be furnished.	The cost per tonne and the Ex-mine price both are furnished to be Rs.165.01/Tonne.	-
9h	Scrutiny of Annual return on fixed assets	To be furnished.	Value of Fixed Assets = Rs 2977286819.00	This figure is common for the three mines viz. Laxmipuram, Vishnupuram and Krishnapuaram captive Limestone mines.
9k	Scrutiny of Annual return on mining machineries	To be furnished.	Mining Machinery details have been furnished.	-

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 :

(S K MUDULI)

Indian Bureau of Mines