

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

**MCDR INSPECTION REPORT**

**Hyderabad regional office**

**Mine file No :** AP/ADB/LST-29/HYD

**Mine code :** 38APR01012

- (i) Name of the Inspecting : **C\$10** ) **Ch.Suseela**  
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : **SRI N.P.SAHARE, Sr.GENERAL** **MANAGER & Sri. JAYANT V.**  
Official with  
Designation
- (iv) Date of Inspection : 07/03/2017
- (v) Prev.inspection date : 27/09/2008

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **DEVAPUR**
- (b) **Registration NO.** : **IBM/981/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address :  
State : **TELANGANA**  
District : **ADILABAD**  
Village : **DEVAPUR**  
Taluka : **KAZIPET**  
Post office : **DEVAPUR CEMENT WORKS**  
Pin Code : **504218**  
FAX No. : **91-8736-40522**  
E-mail :  
Phone : **(08736)40661**
- (f) Police Station :
- (g) First opening date : 14/11/1981
- (h) Weekly day of rest : SUN
2. Address for : **DEVAPUR CEMENT WORKS**  
correspondance : **DISTRICT ADILABAD-504218**  
**ANDHRA PRADESH**
3. (a) Lease Number : **APR0006**
- (b) Lease area : **210**
- (c) Period of lease :
- (d) Date of Expiry : **04/10/2029**
4. Mineral worked : **LIMESTONE** Main

## 5. Name and Address of the

Lessee : M/S ORIENT CEMENT  
P.O:DEVAPUR CEMENT WORKS  
DIST:ADILABAD ADILABAD  
TELANGANA  
Phone:(08736)40661  
FAX :91-8736-40522

Owner : M/s TSMDC Ltd  
Rear Block, 4 th Floor,  
HMESB Premises,  
Khairatabad Hyderabad-500  
004 HYDERABAD TELANGANA  
Phone:  
FAX :

Agent : K.Rajasekhar Reddy  
M/s TSMDC Ltd.,Rear Block,  
4th floo HMWSSB Premises,  
Khairatabad, Hyderabad-500  
004 HYDERABAD TELANGANA  
Phone:  
FAX :

## Mining Engineer

Name : Shri. Kamalesh B.Tembhurne,Full Time  
Qualification : B.E(Mining)  
Appointment/ : 02/11/2011  
Termination date

## Geologist

Name : Shri. Jayanth V. Mohgaonkar,Full Time  
Qualification : M.Sc(Geo)  
Appointment/ : 30/07/2015  
Termination date

6. Date of approval of Mining	:	Renewal under rule 22 MCR1960	09/03/1995
Plan/Scheme of Mining		Renewal under rule 22 MCR1960	05/11/1999
		Mining Scheme rule 12 MCDR1988	26/08/2005
		Modif.approved Mining Scheme	08/01/2008
		Mining Scheme rule 12 MCDR1988	02/12/2010
		Renewal under rule 24 MCR1960	17/11/2011
		MP modif under 17(3) MCR 2016	06/10/2016

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	None	None	
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	NIL	The exploration is proposed in the year 2017-18 for 16 bore holes, for balance area of 44.17 ha with a total meterage of 480 m
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not Applicable	Not Applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	44.17 ha	Not Applicable	
1e	Balance reserve as on 01/04/20	28.41 million tonnes	28.41 million tonnes	
1f	General remarks of inspecting officers on geology, exploration etc	—	—	According to the approved mining plan for the period 2011-16, 21 drill holes proposed in the year 2012-13, 2013-14 & 2014-15 against which lessee drilled 23 bor holes with total meterage of 1177.25 m in the year 2013-14

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Section Line 22 to 43	Section Line 22 to 43	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes	Separate benches are being maintained for top soil, over burden and mineral	
2c	Stripping ratio or ore to OB ratio	1: 0.23	1:0.24	

2d	Quantity of topsoil generation in m3	5000m3	3500 m3	
2e	Quantity of overburden generation in m3	676516 m3	695296 m3	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	_____	Development is being carried out as per the approved proposals

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	48,08,906 MT	45,68,000 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.	1,37,078 MT	6,33,000 MT	
3g	Grade of sub grade mineral generation	SiO <sub>2</sub> >15-18%, TC<75-78%	SiO <sub>2</sub> >15-18%, TC<75-78%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised	

3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	NIL	NIL	
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling (115/150 mm) & blasting with 5 x 8 burden & spacing	Deep hole drilling (115/150 mm) & blasting with 5 x 8 burden & spacing	
3k	Provision of mining machineries in mineral benches	Drilling Machine, Excavator, Dumpers & Tippers	Drilling Machine, Excavator, Dumpers & Tippers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 m ht	8 m ht	
3m	Total area covered under excavation/pits	142.657 ha	142.657 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.23	1:0.24	
3o	Total area put in use under different heads at the end of year	175.436 ha	175.436 ha	
3p	Production of ROM mineral during the last five year period as applicable	2011-12-- 49,65,228 MT, 2012-13-- 48,92,407MT, 2013-14-- 49,47,204 MT, 2014-15-- 49,86,942 MT, 2015-16-- 49,45,984 MT	2011-12--46,52,289 MT, 2012-13--50,67,136MT, 2013-14--51,65,320 MT, 2014-15--49,88,000 MT, 2015-16--45,68,000 MT	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	Mining operations are being carried out as per the approved Mining Plan

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)	Separate dumping of overburden is proposed	There is an OB dump	
4b	Location of topsoil, OB and mineral reject dumps	For OB : Section ML 26 & Section ML 38, Mineral Reject: NIL, Top soil is to be utilised directly for plantation	OB dump is Section ML 26 RL 321 & Section ML 38 RL 300.03 Top soil is being utilised directly for plantation	
4c	Number of dumps within lease area and outside of lease area	Two OB dumps within ML	Two OB dumps within ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste is being utilised for backfilling the mined out areas	Waste is being utilised for backfilling the mined out areas	
4e	Number of active and alive dumps.	Two OB dumps within ML	Two OB dumps within ML	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	Not Applicable	Not Applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Not proposed	Yes	
4i	Length of Retaining wall or garland drain all along dumps	Not proposed	335 x 2 x 1 m 335 x 1 x 1 m	
4j	Number of settling ponds	Not proposed	One	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	Waste dump is being maintained as per the approved proposals

#### Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	After full extraction of the mineral , the back filling has to be taken place in the mined out benches.	After full extraction of the mineral , the back filling has been taken place in the mined out benches	
5b	Area under backfilling of mined out area	2.72 ha	About 2.68 ha area has been backfilled during the year 2015-16	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	About 5000m3 top soil is proposed to be generated and will be used for rehabilitation of mined out area.	About 3500 m3 top soil is generated and used for rehabilitation of mined out area.	
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	Mined out areas have been reclaimed by backfilling
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	_____	Mined out areas have been back filled with waste material after full extraction of the mineral.

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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	No	
6b	Area available for rehabilitation (ha) .	1.390 ha	2.56 ha	
6c	afforestation done (ha).	1.390 ha	2.56 ha	
6d	No. of saplings planted during the year	2040	3609	
6e	Cumulative no .of plants	_____	41922	

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6f	Any other method of rehabilitation	Creation of water reservoir	Creation of water reservoir
6g	Cost incurred on watch and care during the year	NIL	Rs. 43.98 lakhs
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	433 x 189 x 24 120 x 73 x32	220 x 110 x 25.7 110 x 24 x 24.5
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	2.72 ha	2.68 ha
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	2040 in 1.39 ha	3609 in 2.56 ha
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	NIL	NIL
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NIL	NIL
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	3.90 ha	2.56 ha
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	2.43 ha	2.68 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)	Quarterly monitoring of Environmental Parameters	Quarterly monitoring of Environmental Parameters is being carried out.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____	Progressive mine closure operations are being carried out as per the approved proposals.

#### Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Not applicable	Not applicable	Total ROM is being utilised.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	
7d	Any beneficiation process at mines	Not applicable	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Total ROM is being utilised for cement manufacturing.

#### Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	5000 cu.m	3500 cu.m	
8b	Concurrent use or storage of topsoil	simultaneously spreading on the dump for the plantation	simultaneously spreading on the dump for the plantation	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Will be utilised for back filling	Being utilised for backfilling as proposed in the Mining Plan	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	2.72 ha	2.68 ha	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	_____	Cumulative plantation within ML-41922 Nos Outside ML-74310 Nos	
8g	Survival rate	100%	86%	
8h	Water sprinkling on roads to control airborne dust	With water sprinklers and water tankers	With water sprinklers and water tankers	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Making water Reservoir	created water reservoir in the mined out area, there by giving the scenic beauty	Lessee has made plantation on the backfilled area and created water reservoir giving scenic beauty to the surroundings

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns up to date	Monthly and Annual Returns up to date	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer-Shri. Kamalesh Tembhurne, Geologist-Shri. Jayant Mohgaonkar, Manger- Shri. K.Rajasekhar Reddy	Mining Engineer-Shri. Kamalesh Tembhurne, Geologist-Shri. Jayant Mohgaonkar, Manger- Shri. K.Rajasekhar Reddy	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pits--142.657 ha, Area used for waste dump--15.750 ha, Reclaimed area--28.68 ha	Area under pits--142.657 ha, Area used for waste dump--15.750 ha, Reclaimed area--28.68 ha	
9d	Scrutiny of Annual return on afforestation	Within ML-- 3609 Outside ML-- 660		
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	6,33,000 MT sub grade stacked separately	6,33,000 MT sub grade stacked separately	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production- Rs.210.79 ha	Cost of production- Rs.210.79 ha	Sale value is zero since the mineral is being used for captive purpose.
9h	Scrutiny of Annual return on fixed assets	Rs.1607000/-	Rs.1607000/-	
9k	Scrutiny of Annual return on mining machineries	Drilling Machine, Excavator, Dumpers and Tippers, water tanker	Drilling Machine, Excavator, Dumpers and Tippers, water tanker	

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**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 :**

**(Ch.Suseela)**

Indian Bureau of Mines