

**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 : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Sr. Asst. Contrl. Mines
- (iii) Accompanying mine : Sri N.P.SAHARE, Sr.G M(Mines) & Sri. JAYANT V. MOHGAO
Official with
Designation
- (iv) Date of Inspection : 11/03/2019
- (v) Prev.inspection date : 09/12/2017

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	No Backlog	Nil	
1b	Exploration over lease area for geological axis 1 or 2	16 bore holes	36 no. of core bore holes were drilled	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Lessee	M/s JP Kore Drilling, Hyderabad under the supervision of Lessee	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Explore the entire lease area in to G1 level	Entire Mineralised area in the lease area of 210 Ha has been explored in G1 level, hence no further exploration is required.	
1f	General remarks of inspecting officers on geology, exploration etc		General strike of the beds in the lease area varies from North 40 degree East -South 45 degree East and Dip is towards West varying from 5 to 12 degrees. Lessee has carried out 36 no. of bore holes during the year 2017-18. Thus, entire lease area has been explored with 81 core bores and 125 DTH bore holes to complete the exploration in G1 level.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to carry out development in between Sections ML 37A to ML 42	Development is being carried out as per proposed	
2c	Stripping ratio or ore to OB ratio	0.27	0.22	

2d	Quantity of topsoil generation in m3	Nil	Nil	There is No Top soil bench is there hence no generation
2e	Quantity of overburden generation in m3	467472 cum	4538223 cum	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The Limestone beds are contineous and extended over long distance. The Limestone deposit in the lease area are co-related with the upper Limestone of the regional geological succession. The area is part of doubly plunging syncline on the regional structure. Pits are developed up to contact zone by maintaining bench height of 8meters and width 20 meters.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	Pit is developed by maintaining bench of 8 meters and width of about 20 meters.
3b	Quantity of ROM mineral production proposed	4335555 Tonnes	3570177 Tonnes	
3c	Recovery of sailable/usable mineral from ROM production	95%	100%	
3d	Quantity of mineral reject generation	No mineral reject is generated	Entire mineral is used as ROM and Dispatched to plant	
3f	Quantity of sub grade mineral generation.	No generation of sub grade mineral is proposed	Nil	

3h	Manual / Mechanised method adopted for segregating from ROM	No segregation Nil of Low grade/ High grade ore as entire Ore is considered as ROM for its utilisation in cement manufacturing	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No beneficiation study for SUB grade/ Mineral reject is proposed	No such study carried out
3j	Provision of drilling and blasting in mineral benches	Drilling is proposed to carried out by 115 mm/ 150mm dia bore holes with Burden and spacing of 5m x 8 m for drilling bore hole up to 9 meters. Blasting is being proposed to be carried out using ANFO with milli second delay detonators.	Drilling and Blasting operations are being carried out as per approved proposal
3k	Provision of mining machineries in mineral benches	Drilling machine :150mm (2), 115 mm(1) Ecavator : 1.7 -2 cum capacity bucket of 3 & 4 in no.s each dumper : 17 t- 28 nos. ripper : 1 Road compactor : 1 Dozer : 1	The machineries mentioned are found to be utilised for exploitation
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Boom length of 2 cum capacity excavator is suitable to maintain the bench height of 8 meters.	Yes Bench height of 8 meters is suitable by using excavators of 2 cum capacity.

3m	Total area covered under excavation/pits	153.006	142.657 ha working pit
3p	Production of ROM mineral during the last five year period as applicable	2013-14: 4947204 2014-15: 4986942 2015-16: 4945984 2016-17 : 4335555 2017-18 : 4346110	2013-14: 5165320 2014-15: 4988000 2015-16: 4568000 2016-17 : 3852982 2017-18: 3570117
3q	General remarks of inspecting officers on method of mining etc.		Mining operations are being carried out by fully mechanised method with heavy earth moving machines. Bench height is being maintained is of 8 meters by deploying drilling machine of 150 mm dia bore holes and blasting operations are being carried out with burden and spacing of 5m and 8m using ANFO in combination of mili sexcond delay detonators, the powder factor is 8.5 tons/Kg .

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes waste generated is being utilised for backfilling in the mined out area	Dumping is being carried out in the earmarked area after complete excavation of ore.	
4b	Location of topsoil, OB and mineral reject dumps	Waste dumping is proposed in between section lines ML 36A to 38	Dumping is being carried in approved area	
4c	Number of dumps within lease area and outside of lease area	Nil	Nil, as waste generated is being used fro backfilling	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Waste dumps has been carried out within lease area after complete exploitation of ore	Waste dump is being carried out in mined out area within approved area
4e	Number of active and alive dumps.	Nil	818619 tonnes of waste material is generated during the year is used for backfilling
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal for 2018-19	Not applicable
4k	Specific comments of inspecting officer on waste dump management		Waste material generated has been utilised for backfilling in the mined out area of lease. The area of dumping will be properly stabilised.

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.	Between ML 36A to 38	backfilling is being carried out as per approved proposals	
5b	Area under backfilling of mined out area	Waste is used for backfilling within the earlier reclamation area of 13.409 Ha	BACKfilling is being carried out as per proposal within 13.409 Ha	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generated during the year.	Nil	
5d	Total area fully reclaimed and rehabilitated	No are is fully reclaimed and rehabilitated	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Backfilling of waste material is under progress in mined out area and no area is fully rehabilitated so far.
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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).	Annual report on PMCP to be submitted regularly	AR submitted for the year 2017-18	
6b	Area available for rehabilitation (ha) .	No area is available for rehabilitation	Nil	
6c	afforestation done (ha).	0.642 Ha will be planted within 7.5 meters Safety ZOne of lease	about 1.0 Ha area has been planted with 2350 sapplings	
6d	No. of saplings planted during the year	760	2350	
6e	Cumulative no .of plants			About 65,000 sapplings have been planted so for in and around lease area
6f	Any other method of rehabilitation	No proposal	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Backfilling has to be carried out within 13.409 Ha earlier backfilled area	backfilling is being carried out as per proposed	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Entire waste generated is to be backfilled	4538223 cum of waste generated has been backfilled	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal of afforestation on backfilled area as it is not matured	Nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly monitoring of Air,Noise etc. is to be carried out	REgular monitoring is being done
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Yearly report of Compliance of Proposals made in PMCP has been submitted and backfilling of waste material in mined out area, plantation are being carried out as proposed.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire ROM ore produced from the mine is to be dispatched	ROM produced from the mine is being dispatched	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No Sorting of Mineral is proposed as entire ROM is being dispatched as Ore	Nil	
7c	Different grade of mineral sorted out at mines.	No Proposal	Nil	
7d	Any beneficiation process at mines .	No beneficiation process involved	Nil	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			ENTire ROM produced from the mine is utilised and dispatched

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil is present	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Overburden generated is to utilised for backfilling in the mined out area	Overburden removed is being backfilled in mined out area as proposed	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Waste generated is being utilised for backfilling in the mined out area	Waste generated is being utilised for backfilling	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Backfilling operation is being carried out in mined out area within 13.409 Ha	Backfilling operation are being carried out as proposed in the approved document	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Lease area is part of Ralli reserve Forest with thick forestation. Additional plantation of 750 plants are proposed to be planted	Additional plantation of 2350 sapplings has been carried out during the year	
8g	Survival rate	No proposal but effort has to be made for maximum survival rate	85%	
8h	Water sprinkling on roads to control airborne dust	It is proposed to have an arrangement to suppress the air borne dust generated due to mining activity	Water sprinkler is deployed and regular sprinkling of water is being done to suppress the dust	

8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Waste material generated is being used for restoration of mined out area in the lease, so for 13.409 Ha area has alerady been utilised for backfilling and is continuing. Quartely monitoring of Air, Noise Etc. is being done regularly and results shows that the impact due to mining is within permissibl limit. Plantation is being carried out to improve aesthetic beauty in and around lease area and dust suppression arrangement is there to reduce air pollution.
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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 and AR to be submitted as per statute	MR & AR is being submitted regularly	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer in charge : Shri Kamlesh B Tembhurne, Geologist in charge : Shri Jayant V. Mohgaonkar	The same persons were found employed by ore rising agency.	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Already exploited & abandoned by opencast (O/C) mining (ii) Covered under current (O/C) Workings 142.657 (iii) Reclaimed/Rehabilitated 28.68 (iv) Used for waste disposal 15.75 (v) Occupied by plant, buildings, residential, welfare buildings & roads 20 (vi) Other Purpose () 0 (vii) Work done under progressive mine closure plan during the year 0.995 Ownership/exploiting Agency of the Public Sector mine: (Public Sector/Private sector/Joint Sec	Already exploited & abandoned by opencast (O/C) mining (ii) Covered under current (O/C) Workings 142.657 (iii) Reclaimed/Rehabilitated 28.68 (iv) Used for waste disposal 15.75 (v) Occupied by plant, buildings, residential, welfare buildings & roads 20 (vi) Other Purpose () 0 (vii) Work done under progressive mine closure plan during the year 0.995 Ownership/exploiting Agency of the Public Sector mine: (Public Sector/Private sector/Joint Sec
9d	Scrutiny of Annual return on afforestation	1700 sapplings	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	No stock of ROM ore is present Sub grade : 3923982.000	Nil, entire ROM produced during the year is being utilised and no stock is observed. However Sub grade stock in the lease area : 3923982.000 Tonnes
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	202.86	202.86
9k	Scrutiny of Annual return on mining machineries	SHOVEL 4.000 CUM 1 BACK HOE 2.000 CUM 6 TIPPER 25.000 CUM 25 DOZER 335.000 HP 2 BLAST HOST DRILL 115.000 MM 1 BLAST HOST DRILL 150.000 MM 2 AIR COMPRESSOR 450.000 CUM/MN 1 EXPLOSIVE VAN 3.000 TONNE 1 EXPLOSIVE VAN 6.000 TONNE 1 TRUCK 12.000 TONNE 1	DOZER 335.000 HP 2 BLAST HOST DRILL 115.000 MM 1 BLAST HOST DRILL 150.000 MM 2 AIR COMPRESSOR 450.000 CUM/MN 1 EXPLOSIVE VAN 3.000 TONNE 1 EXPLOSIVE VAN 6.000 TONNE 1 TRUCK 12.000 TONNE 1

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 :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines