

**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 : S11) SHAILENDRA KUMAR
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : sri N P Sahare, AVP(Mines)
Official with
Designation
- (iv) Date of Inspection : 06/08/2021
- (v) Prev.inspection date : 06/02/2021

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 : tsmdcltd.devapur@gmail.com
- Phone : (08736)40661
- (f) **Police Station** :
- (g) **First opening date** : 14/11/1981
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : DEVAPUR CEMENT WORKS
DISTRICT ADILABAD-504218
ANDHRA PRADESH
3. (a) **Lease Number** : APR0006
- (b) **Lease area** : 210
- (c) **Period of lease** : 50
- (d) **Date of Expiry** : 31/03/2030
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : M/S TSMDC LIMITED
 4TH FLOOR, HMWSSB PREMISES
 KHAIRTABAD HYDERABAD
 HYDERABAD TELANGANA
 Phone:
 FAX :

Owner : M/s TSMDC Ltd
 Rear Block, 4 th Floor,
 HMESSB 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
		MP review under 17(1) MCR 2016	31/03/2020
		MP review under 17(1) MCR 2016	27/07/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	There is no proposal for exploration during the year 2020-21	No exploration carried out during the year 2020-21	None
1b	Exploration over lease area for geological axis 1 or 2	---	The entire potentially mineralised area has been explored at G1 level of exploration.	None
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	None
1d	Balance area to be explored to bring Geological axis in 1 or 2	None	None	None
1e	Balance reserve as on 01/04/20	---	The reserves as on 1.4.2021 are as 19 Million tonnes	None
1f	General remarks of inspecting officers on geology, exploration etc	None	None	The entire potential mineralised area is at G1 level of exploration.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	It was proposed to develop the mine workings between co-ordinates 19 01'38" N - Section lines 33 to 35 during the year 2020-21	The development is as per proposal.	None
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	It was proposed to have separate benches in OB and ore.	Separate benches developed in OB and Ore.	None
2c	Stripping ratio or ore to OB ratio	1:0.41	1:0.11	None

2d	Quantity of topsoil generation in m3	6301 Cu.m during 2020-21	Actual generattion reported was 6247 Cu.meters.	None
2e	Quantity of overburden generation in m3	814817 Cu.meters during 2020-21`	Actual OB generated was 116629 Cu.meters	None
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	---	None	The mine is developed to exploit the mineral with opencast method of mining with deployment of HEMM.No deviation has been observed with respect to the excavation proposal.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One Pit	One Pit	The working pit is situated between co-ordinates 190138 N- 190129 E
3b	Quantity of ROM mineral production proposed	0.45 Million tonnes	0.23 Million tonnes	None
3c	Recovery of sailable/usable mineral from ROM production	---	The entire ROM is fed to the cement plant.	None
3d	Quantity of mineral reject generation	It was proposed to generate 429028 Tonnes duirng the year 2020-21	The actual generation reported during the year 2020-21 was 112844 tonnes	None
3e	Grade of mineral rejects generation and threshold value declared.	--	The threshold value and cut off grade are proposed as same as Cao-34%	None
3f	Quantity of sub grade mineral generation.	None	None	None
3g	Grade of sub grade mineral generation	None	Not Applicable	None

3h	Manual / Mechanised method adopted for segregating from ROM	None	Not needed	None
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	None	Not needed	None
3j	Provision of drilling and blasting in mineral benches	It was proposed to carry out drilling and blasting in Mineral benches	Drilling is carried out by wagon drill of 115 mm dia and blasting geometry of 5mx8m of burdenxspacing grid.AnFO explosives are being used.	None
3k	Provision of mining machineries in mineral benches	It was proposed to load and transport the ROM by Loaders and excavators.	The loading is carried out by excavation and transportation by 60 tonne dumpers.	None
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain 8 meters bench height.	The bench height of 8 meters is maintained and found to be complied with the digging height of the excavator.	None
3m	Total area covered under excavation/pits	---	104 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.41	1:0.11	None
3o	Total area put in use under different heads at the end of year	--	Mine workings - 104.004 ha Reclaimed Area - 35.545 ha Waste dump - 3.470 ha Infrastructure - 3.770 ha	None
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 0.43 Million tonnes 2017-18 - 0.43 Million tonnes 2018-19 - 0.43 Million tonnes 2019-20 - 0.43 Million tonnes 2020-21 - 0.48 Million tonnes	2016-17 - 0.38 million tonnes 2017-18 - 0.40 million tonnes 2018-19 - 0.42 million tonnes 2019-20 - 0.38 million tonnes 2020-21 - 0.23 Million tonnes	None

3q	General remarks of inspecting officers on method of mining etc.	---	None	The Mine development and exploitation of ore is being carried out as proposed.
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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)	It was proposed for seperate duping of waste.	Seperate waste dump was developed as proposed.	None
4b	Location of topsoil, OB and mineral reject dumps	The proposed location of OB dump is between co-ordinates 190124 N-791950 E	The dump developed within the co-ordinates as proposed.The topsoil generated is used concurrently for plantation.	None
4c	Number of dumps within lease area and outside of lease area	One	One	None
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Between Section lines 23 to 29	The dump is found to be beyond the UPL.	None
4e	Number of active and alive dumps.	One	One	None
4f	Number of dead dumps.	None	None	None
4g	Number of dumps established.	One	One	None
4h	Whether Retaining wall or garland drain all along dumps are there.	I--	No retaining wall was constructed around the toe of the dump.	A violation letter was issued for not constructing a retaining wall around the toe of the dump.
4i	Length of Retaining wall or garland drain all along dumps	--	Not Applicable	None
4j	Number of settling ponds	None	None	None
4k	Specific comments of inspecting officer on waste dump management	--	No retaining wall was constructed around the toe of the dump.	A violation letter was issued for the same.

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.	It was proposed to recalim part of the mined out area duirng the year 2020-21	Reclamatation by way of backfilling carried out in the partly mined out area.	None
5b	Area under backfilling of mined out area	3.546 ha	1.513 ha	None
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	The generated topsoil being used for plantation.	The topsoil generated being used concurrently for plantation.	None
5d	Total area fully reclaimed and rehabilitated	---	35.545 ha	None
5e	General remarks of inspecting officers on backfilling and reclamation etc.	--	None	Lessee is taking adequate steps for backfilling and reclamation of the mined out pit.

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).	--	The Annual report for PMCP submitted by the Lessee in time.	Complied Rule 26(2) of MCDR, 2017
6b	Area available for rehabilitation (ha) .	None	None	None
6c	afforestation done (ha).	0.551 ha	1.513 ha	None
6d	No. of saplings planted during the year	830 no.s	1469 no.s	None
6e	Cumulative no .of plants	--	39192 no.s	None
6f	Any other method of rehabilitation	None	None	None
6g	Cost incurred on watch and care during the year	--	Rs. 7,48,000/- rupees duirng the year 2020-21	None

6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	It was proposed to backfill 3.546 ha	1.513 ha	As the development was not carried out as proposed due to slump in market for cement.The proposed area could not be mined out.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	None	None	None
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	3.546 ha	1.513 ha	As the development was not carried out as proposed due to slump in market for cement.The proposed area could not be mined out.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	None	None	None
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	None	None	None
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	None	None	None
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	None	None	None
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	None	None	None

6p	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out quarterly monitoring of the environmental parameters.	Quarterly monitoring of the environmental parameters being carried out regularly in core and buffer zones.	None
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	None	None	None
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	None	None	None
7c	Different grade of mineral sorted out at mines.	None	None	None
7d	Any beneficiation process at mines	None	None	None
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	---	None	The entire ROM produced is being consumed in the cement plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
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8a	Separate removal and utilization of topsoil (Rule 32)	6301 cu.meters	6247 cu.meters	None
8b	Concurrent use or storage of topsoil	It was proposed to use the topsoil generated for plantation purposes	The topsoil generated is utilised as proposed.	None
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	One dump	One dump	None
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	It was proposed to utilise the OB generated for backfilling.	Same was observed during the inspection.	None
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	It was proposed to partly reclaim the mined out land by way of backfilling.	The reclamation activity being carried out as proposed.	None
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	---	There is thick vegetation in and around the lease.	None
8g	Survival rate	85%	84%	None
8h	Water sprinkling on roads to control airborne dust	It was proposed to control dust suppression by way of water sprinkling.	Dust suppression measures being carried out as proposed.	None
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	None	The mine was developed beautifully and aesthetically.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	--	The Monthly and Annual report being submitted regularly by the lessee.	None
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	It was reported in the Annual report that Sri Kamlesh B Tembhurne and Sri Jayant V Mohgaonkar are Mining Engineer and Geologist.	The same was confirmed duiring the inspection.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	The area under mine workings was 104.004 ha Area Recalimed 35.545 ha Infrastructure - 3.770 ha	The same was observed during the inspection.	None
9d	Scrutiny of Annual return on afforestation	--	1469 no.s	None
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	112844 tonnes	The same was noticed in the annual return	None
9f	Scrutiny of Annual return on ROM stock and/or graded ore	0.31 million tonnes	Same was observed in the Annual return	None
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	The ex-mine price was reported as 193.65 for the year 2020-21.The cost of production was reported as Same.	The same was confirmed duing the inspection.	None
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets as reported in Annual return was Rs,3 crores.	The same was not verified.	None

9k	Scrutiny of Annual return on mining machineries	The details of Machineries given in Annual returns are as follows: 1. Back hoe - 8 no.s 2. Dumpers - 24 no.s 3. Dozer - 2 no.s 4. Blast hole dril - 1(115 mm dia) 5. Blast hole drill - 2(150 mm dia) 6. Air compressor - 3 no.s 7. explosive van - 2 no.s 8.truck - 1 no 9. Water tanker - 3 no.s 10 Front end loader - 2 no.s	The same was noticed duirng the inspection.	None
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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
MCDR17	Rule 37(2)	12/08/2021			

Date :

(SHAILENDRA KUMAR)

Indian Bureau of Mines