

TMIS DATABASE FOR MCDR INSPECTION (MANUAL)

1(i)	Mine File No.	AP/NLR/Si- 80
(ii)	Mine Code No.	Not allotted
(iii)	Date of Inspection	16.02.2017
(iv)	Name of Mine	Varagali Moulding / Silica Sand Mine
(v)	Name of the lessee with address	M/s APMDC Ltd. Khanijadhara, Rear Block, 3 rd Floor, HMWSSB Premises, Kharathabad, Hyderabad
(vi)	Name of owner with address & Phone	-do-
(vii)	Lease area in Ha.	13.19 ha.
(viii)	Date of execution	15.12.2000(1 st Renewal)
(ix)	Expiry date	17.01.2019
(x)	Date of first opening	10.05.2008
(xi)	Earlier two dates of inspection	18.01.2016.
(xii)	Name & designation of the Inspecting officer with ID No.	D.P.Ravikumar AMG
(xiii)	Name & Designation of mine Official accompanying	Shri B.Raghuram Reddy representative
(xiv)	Mine address	
	State	Andhra Pradesh
	District	SPSR Nellore
	Village	Varagali
	Mandal	Chillakur
	Post Office	Chillakur
	Police Station	Chillakur
	Pin code	-
	Fax	-
	E-mail	-
(xv)	Type of Mine (OC, UG, BOTH) Working/Non-Working	OC- Non working (due to EC problem, mine not working)
(xvi)	Weekly day of rest	Sunday
(xvii)	Date of AMP/SMP	04.04.2014

2. LAND DETAILS (WITHIN LEASE AREA)

Code	FOREST	Area (Ha)	Code	NON-FOREST	Area (Ha)
33	Total Forest	Nil	34	Total Non-Forest	13.19
1	Reserve Forest		8	Private land	-
2	Protected forest		9	Agricultural irrigated land	-
3	Forest unclassified		10	Agricultural non-irrigated land	-
4	Forest sanctuary		12	Govt. grazing land	-
5	Forest national park		13	Govt. waste land	13.19
6	Forest mineralised		14	Govt. other land	-
7	Forest non-mineralised		15	Mineralised	13.19
19	Degraded land by pit		16	Non-mineralised land	-
20	Degraded land by dump		21	Degraded land by pit	1.70
23	Degraded land by road		22	Degraded land by dump	0
25	Degraded land by plant, Building, Town		24	Degraded land by road	0
31	Land acquired		26	Degraded land by plant, Building, Town	-
			32	Land acquired	13.19

3. MINERAL

Main Mineral(s)	Associated Mineral(s)	Captive Use (Yes/No)	End Product	Non captive use		Remarks
				Domestic (Yes/No)	Export (Y/N)	
Moulding Sand	0	No	0	Yes	N	0

4. MINING ENGINEER/GEOLOGIST DATA (APPOINTED UNDER RULE-42 OF MCDR, 1988) AND MINES MANAGER (appointed under MMR, 1961)

Status	Name	Designation	Educational Qualification	Date of Appointment	Address
Agent	None	-	-	-	-
Mining Engineer/ Geologist	None	-	-	-	-
Manager	None	-	-	-	-

5. EXPLORATION

a) Exploration carried out as on 1.4.2016

No .of boreholes	0	No .of pits	0	No. of trenches	0
Grid interval(m)	0	--	0	--	0
Max. depth(m)	0	Max. depth(m)	0	Max. Length(m)	0
Min. depth(m)	0	Min. depth(m)	0	Min. Length(m)	0
Total meterage	0	Total meterage	0	Total Length(m)	0

6. EXTENT OF OPEN-PIT DEVELOPMENT

Pit No.	Pit Size	No of OB Bench	Ht. of Bench (m)	Width (m)	No. of Benches In ore	Hei-Ght (m)	Width (m)	Pit Depth (m)	Top RL (m)	Botto mRL (m)	Overall Pit slope
1	70x55	-	-	-	01	2.5	20	2.5	99	96.5	70°
2	60x55	-	-	-	01	2.5	15	2.5	99	96.5	70°
3	70x50	-	-	-	01	2.5	20	2.5	99	96.5	70°
4	70x45	-	-	-	01	2.5	20	2.5	99	96.5	70°
5	80x40	-	-	-	01	2.5	20	2.5	99	96.5	70°

7. REHABILITATION OF QUARRIES

Quarry / Open pit

Year	Area Broken (Hect.)	Area Reclaimed	Area Matured For reclamation	% of reclamation	Area Rehabilitated			Total Area Rehabilitated
					BF	WR	OM	
1) Cumulative as on 1.4.16	1.70	-	-	-	-	-	-	-
2) During the previous year	0	-	-	-	-	-	-	-
3) Cumm. As on date of inspection on	1.70	-	-	-	-	-	-	-

BF= Back filled; WR = Water reservoir; OM = Other means; Remarks = Under remarks give post mining land use of the area reclaimed.

8. CHARACTERISTICS OF WASTE DUMP AND TOP SOIL DUMP

A) OB Dump = A) Area= B) Height= C)Capacity cu.m=
 B) Topsoil dump= A) Quantity generated= B) Used=

9). OVERBURDEN AND WASTE GENERATED

OB Removal

Year	OB removed In previous Year(cu.m)	Cumulative O.B Removed till end of Previous year (cu.m)	Ore: OB ratio Previous year (Total –cum)	Whether Dumping on Mineralized Ground(Y/N)	Remark, if Dumped on Mineralized Ground
2015-16	NIL	NIL	NIL	NIL	NIL

10. PRODUCTION & RESERVE

a) Reserve as on 1.4.2016

Name of Mineral	Proved		Probable		Possible	Total		
	Qty.(t)	Grade	Qty.(t)	Grade	Qty.(t)	Grade	Qty.(t)	Grade
Moulding Sand	Mineable reserves 4,30,331.98 t							

* The updated reserves are not furnished due to non- receipts of returns. The draft violation letter for rule 45(5)(a)(viii) & 45(5)(b)(viii) is being sent to RCOM, IBM, Hyderabad for further action.

b) Annual production

Year	Minerals	Production(t)	Dispatches/Sale	Closing stock(t)
2010-11	Moulding Sand	Nil	Nil	Nil
2011-12	Moulding Sand	Nil	Nil	Nil
2012-13	Moulding Sand	14430	11930	2500
2013-14	Moulding Sand	-	-	-
2014-15	Moulding Sand	2870	2870	-
2015-16	Moulding Sand	AR Not submitted	-	-

* The updated reserves are not furnished due to non- receipts of returns. The draft violation letter for rule 45(5)(a)(viii)(45(5)(b)(viii) is being sent to RCOM, IBM, Hyderabad for further action.

11. SUB-GRADE MINERAL AND INERAL REJECT

a) Sub-grade mineral

Name of Mineral		Quantity generated	Quantity Consumed	% utilisation	Quantity Stacked	Nature of Utilization	Grade of Sub-grade
Moulding Sand	Cumulative at the End of previous Year 1-4-2016	No sub-grade mineral being generated.					
	During previous year	0					
	Cum. as on date of inspection	0					

12. RECLAMATION/REHABILITATION OF WASTE DUMP – Area : 0.0 (ha)

13. PLANTATION

Plantation	Inside mining lease			Outside mining lease		
	No. of Trees	Area in Hect	Rate of Survival	No. of Trees	Area in Hect.	Rate of survival
1. Already carried out up to the end of previous year – cumulative	50	0.01	30	-	-	-
2. During the previous year	0	-	-	-	-	-
3. As on date of inspection (cumulative)	50	0.01	30	-	-	-

PART – II :: TECHNICAL DETAILS/COMMENTS

1. Details about average employment

Maximum number of persons employed on any day during the year = NIL

Classification	Direct	Contract	Total	Av. no of Days worked	Opencast / Underground
Managerial	-	-		106	-
Supervisory	-	-	-		-
Workers	11	-	11		OC
Ministerial	01	-	01		OC
Employment in Plant	-	-	-		-
Others	-	-	-	-	-

The above information furnished as per the AR 2014-15

2. Community Development plan (in and around the mines)

Expenditure in Rs.

Sl. No.	General	Proposed For previous year (in Lakhs)	Proposed For current year (in Lakhs)	Incurred In previous year (in Lakhs)	Incurred so far (in Lakhs)	Remarks
1	2	3	4	5	6	7
1a	Housing	-	-	-	-	
1b	Water Supply	-	-	-	-	
1c	Sanitation	-	-	-	-	
1d	Health	-	-	-	-	
1e	Safety	-	-	-	-	
1f	Medical facility	-	-	-	-	
2	Training	-	-	-	-	
3	Employment	-	-	-	-	
4a	Public Transport	-	-	-	-	
4b	Roads	-	-	-	-	
4c	Communication	-	-	-	-	
4d	Electricity	-	-	-	-	
5a	Recreation	-	-	-	-	
5b	Sports activities	-	-	-	-	
6	Environment Management	-	-	-	-	
7	Others	-	5000	10000	15,000	Festival donations

3. Status of compliance of MC DR 1988, including therewith the ratification of the outstanding violation of rules.

The last MCDR inspection was carried out on 18.01.2016 and violation of rule 13(1)22, 24, 45(5)(a)(viii) & 45(5)(a)(viii) were observed and accordingly, draft violation letter sent to RCOM,IBM, Hyderabad for further action. Further, RCOM, IBM, Hyderabad issued violation cum-Show Cause Notice for the above said violations to the lessee dated 24.03.2016. In this regard, as per this office records, lessee complied all the rules except rule 13(1) (copy of lessee's letter No. APMDC/ Silica Sand / NLR/2016-17/ 352 dated 02.03.2017)

During the current inspection contravention of rule,, 45(5)(a)(viii) & 45(5)(b)(viii) have been observed and accordingly draft violation letter is being sent to RCOM, IBM, Secunderabad for further action.

4. A note on justification in case of suspension of mining operation under Rule 13(2) or prohibition of deployment of any person under Rule 56 of MCDR 1988, if recommended.

No such recommendation was made under these provisions.

5. Scientific Mining.

Items	Proposal	Actual work done	Remarks
A. Exploration (Rule 13)			
a. Type of prospecting & exploration i.e. pitting, drilling etc.	Nil	NA	The Moulding sand /silica send is exposed to surface, as such no exploration is proposed.
b) Total area covered	Nil	N.A	
B. Working (Rule – 13)			
a. Number and size of each pit (LxWxH)	75x62x03	Due to EC Problem, mine was temporarily discontinued..	Mine was temporarily discontinued.
b. Bench size (LxWxH) length can be defined as regular/ irregular	One bench of 3.0 m Planned to work. Regular	Due to EC Problem, mine was temporarily discontinued.. Regular	Mine was temporarily discontinued. No waste generation.
c. Ore to waste ratio pit-wise, if possible, otherwise for mine	0	100% ROM silica is put into use.	
d. Total area covered under excavation/ pits	-	1.70 ha.	As on 01.04.2016, 1.70 ha. of area covered under excavation / pits .
C. Waste disposal (Rule 13)			
a. Location of dumps	0	No waste being generated.	0
b. Method of dumping whether advancing/ retreat	0	0	0
c. Total area covered under waste dump	0	0	0
d. No.and size of each waste dump with No.of steps/lift/bench	0	0	0
e. Yearly generation of waste quantity	0	0	0

6. Conservation of Mineral – both quantitative and qualitative.

Beneficiation (Rule 20 and 26)	
Efforts for improving low grade and sub-Grade mineral	No sub-grade mineral being generated. The silica sand exposed totally is mined and entire ROM is put into use.
Efforts for improving percentage of Recovery of ore.	-do-
Mineral (Rule – 15)	
No.of benches in ore and waste	Ore = 01; waste= NIL
Percentage of recovery of ore pit-wise w.r.t ROM and total material	Almost 100% in different grades.
Sub-grade mineral/fines(Rule – 16)	
Separate stacking from waste	No generation of sub-grade mineral.
Location of stacking	
Total area covered for stacking	
No. and size of each stack	
Quantity of yearly generation and total Quantity available during inspection with Grade	

7. Environment Management – both quantitative and qualitative.

A. Land environment

a. Landscape	The area is covered with loose silica sand dunes with plan undulated surface.
b. aesthetic environment	The sea of Bay of Bengal is about 7.5KM from the area on eastern side.
c. Soil and land use pattern	The small manually operated silica sand mining is covered only on mining activities and not for any other purposes.
d. Agriculture	Agricultural activity was observed in the lease area. i.e., carried out cultivation in 0.5ha was found reportedly without permission from lessee.
e. Forest (flora and fauna)	No forest zone (RF) is involved.
f. Vegetation	The area is devoid of any vegetation.
g. Public building, places and monuments (protected, historical), place of worship and places of tourist importance.	No such buildings, places and monuments, places of worship existing in and around the lease hold.
B. Water environment	
a. Surface water	No surface water like nallah, river, etc., are observed.
b. Ground water	Ground waer table touches at a depth of 2.5m.

c. Quality of water	The water is not analysed. However no adverse is reported. Not used for human consumption.
C. Air environment	
a. Noise	No survey has been done. No impact being very small category 'B' mine.
b. Air	No impact on air quality being very small category 'B' mine.
c. Climatic condition	The climate is tropical & seasonal. Dry & humid in summer & moderate rain fall with cold winter.
D. Socio economic environment	
a. Social and demographic profile	Local villagers depend on agriculture.
b. Recommending health and safety	Nil
c. Human settlement	Varagali & Momidi villages are existing far away from mining lease, which are about 3.5 KM, where human settlement exists.
d. Recreational facility	Nil

8. Scrutiny of annual returns on cost of operation, reserves, production, pit's mouth value, stock, land use pattern and fixed assets.

The Annual Return for 2015-16 not submitted, However, the AR for 2014-15 has been scrutinized. The comments are as follows: (Mine is not working)

Cost of Production : 140
 Reserves : Not furnished,
 Production 2014-15 : 2870
 Stock : not furnished
 land use pattern : Consists of degradation of area by 05 pits . No top soil exists.
 Fixed assets : NA.

PART – III :: PERFORMANCE OF MINE OWNER

(In case of lease expiring within 2 years – as per guidelines)

Not applicable.

PART – IV :: PROPOSAL FOR FURTHER ACTION FOR

- a) Indian Bureau of Mines (any issue related to CGPB, SGPB, assistance, consultancy, annual Programme and studies etc.) : Nil
- b) The State Government (illegal mining, mining dispute, infrastructure, mineral based industry, mineral policy & etc.) : The permanent boundary pillars of the lease area were not found. Hence necessary action may please be taken for getting the permanent boundary pillars fixed to demarcate the lease boundary.
- c) The Central Government (infrastructure development, mineral policy and legislation, mineral based industry & etc.) : Nil

Draft

Government of India
Ministry of Mines
Indian Bureau of Mines
Office of the Regional Controller of Mines

No. AP/NLR/Si -80

Hyderabad,
Date:

To
M/s APMDC Ltd.
Khanijadhara, Rear Block,
3rd Floor, HMWSSB Premises,
Kharathabad, Hyderabad

Sub : Violation of Provisions of MCDR 1988 in respect of your Varagali Moulding sand Mine (Sy.Nos.52, 632,634,&635) in Varagali H/o Momidi village, Chillakur Mandal, SPSR Nellore District, A.P.State, over an extent of 13.19 ha.

Dear Sir,

The following provisions of Mineral Conservation and Development Rules, 1988 were found violated in your above mine during inspection on 16.02.2017 by D.P.Ravikumar, Assistant Mining Geologist, Indian Bureau of Mines, Sub-Regional Office, Nellore, accompanied by your representative Shri B.Raghuram Reddy.

Rule No.	Nature of violation observed
45(5)(a)(viii)	Monthly returns in form F-8 have not been submitted from the month of April 2016 to February 2017.
45(5)(b)(viii)	Annual return in form H-8 have not been submitted for the year 2015-16

02. In this connection, it is brought to your notice that the above violations constitute an offence punishable under Rule 58 of MCDR 1988.

03. You are advised to rectify the above violations immediately and intimate the position to this office within 45 (forty five) days from the date of issue of this letter.

Yours faithfully,

(PANKAJ KULSHRESTHA)
Regional Controller of Mines

N.O.O.:

Copy for kind information to :-

1. The Controller of Mines (SZ), IBM, Bangalore.
2. The Director of Mines & Geology, Govt. of Andhra Pradesh, 8 th floor, BRKR Bhawan, Hyderabad.
3. The Assistant Director, Dept. of Mines and Geology, Govt. of Andhra Pradesh, D.No. 26-3-457/1, 1 st Floor, C.Kalyan Complex, Near SBI, BV Nagar, Mini bypass road, Nellore.
4. The Assistant Mining Geologist, IBM, Nellore.

(PANKAJ KULASHRESTA)
Regional Controller of Mines

Government of India
Ministry of Mines
Indian Bureau of Mines

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D.No.26-II-830, Flat No.86,
8th Cross Road, Jyothi Nagar,
Vedayapalem, AK Nagar (PO),
Nellore-524004.(A.P)

Dated:22. 03.2017.

AP/NLR/Si-80

To

The Regional Controller of Mines,
Indian Bureau of Mines
Secunderabad.

Sub: MCDR inspection report of Varagali Moulding sand Mine in SPSR Nellore district, Andhra Pradesh owned by M/s APMDC Ltd.

Sir,

The above inspection report by D.P.Ravikumar, Assistant Mining Geologist in respect of his inspection on 16.02.2017 is forwarded herewith.

02. Violations of MCDR 1988 have been found. The draft violation letter is enclosed herewith for your kind information and further action.

03. Further action is to be taken as below:

- | | | | |
|----|------------------------|---|---|
| a) | Indian Bureau of Mines | : | Nil |
| b) | The State Government | : | The permanent boundary pillars of the lease area were not found. Hence necessary action may please be taken for getting the permanent boundary pillars fixed to demarcate the lease boundary. |
| c) | The Central Government | : | Nil |

Yours faithfully,

Encl: 1) MCDR Inspection report.
2) Draft violation letter.

(D.P.RAVIKUMAR)
Assistant Mining Geologist
Indian Bureau of Mines

