

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

**MCDR INSPECTION REPORT
Hyderabad regional office**

Mine file No : AP/KNL/LST-126/HYD

Mine code : 38APR11055

- (i) Name of the Inspecting : **C\$10**) **Ch.Suseela**
Officer and ID No.
- (ii) Designation : Assistant Mining Geologis
- (iii) Accompanying mine : Sri.B.Srinivasulu, Lessee's representative
Official with
Designation
- (iv) Date of Inspection : 09/06/2017
- (v) Prev.inspection date : 21/08/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **USHB**
- (b) **Registration NO.** :
- (c) **Category** : A Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : BETHAMCHERLA
- Taluka : BETHAMCHERLA
- Post office : BETHAMCHERLA
- Pin Code :
- FAX No. :
- E-mail :
- Phone :
- (f) **Police Station** : BETHAMCHERLA
- (g) **First opening date** : 09/05/1998
- (h) **Weekly day of rest** : SUN
2. **Address for correspondance** : M/S LODHI CALCIUM PRODUCTS(p)LTD.
UNGARANIGUNDLA, DHONE MANDAL,
KURNOOL DISTRICT.
3. (a) **Lease Number** : APR1479
- (b) **Lease area** : 30.59
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 10/05/2018
4. **Mineral worked** : LIMESTONE Main

5. Name and Address of the

Lessee : M/S LODHI CALCIUM PRODUCTS LTD.
 ARVIND NAGAR KURNOOL
 ANDHRA PRADESH
 Phone:
 FAX :

Owner : M/S LODHI CALCIUM PRODUCTS(P)LTD
 8/126/1 AMULVILLA, ARVIND,
 NAGAR, KURNOOL ROAD, M:DHON
 DIST:KURNOOL. KURNOOL
 ANDHRA PRADESH
 Phone:
 FAX :

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	29/09/1997
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	25/06/2004
		Mining Scheme rule 12 MCDR1988	31/10/2008
		MP modif under MCR 1960	07/08/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	5 Core bore holes	NIL	Violation of Rule 11(1) has been pointed out to the party.
1b	Exploration over lease area for geological axis 1 or 2	No Proposal	About 13.77 ha	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No Proposal	Expenditure incurred is Rs.5,00,000/-	
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal	About 16.83 ha area has to be explored	
1e	Balance reserve as on 01/04/20	3638210(111)	3701039(111)	Achieved less production than proposed during the year 2015-16 and 2016-17
1f	General remarks of inspecting officers on geology, exploration etc	_____	_____	About 55% of ML area has to be explored.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N4761 to N 4848 E 2976 to E 3135	Development work is carried out as proposed	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Yes, OB and mineral benches	Yes, OB and mineral benches	
2c	Stripping ratio or ore to OB ratio	1: 0.23	1: 0.25	
2d	Quantity of topsoil generation in m3	NIL	NIL	

2e	Quantity of overburden generation in m3	5900 tonnes	100 tonnes	Overburden is much less due to less production than proposed
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	_____	_____	It is a sedimentary bedded deposit having gentle dip and the development is carried out as per the proposals.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	Two pits	Two pits	
3b	Quantity of ROM mineral production proposed	55,440 tonnes	14,083 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	90%	90%	
3d	Quantity of mineral reject generation	NIL	NIL	
3e	Grade of mineral rejects generation and threshold value declared.	N.A	N.A	
3f	Quantity of sub grade mineral generation.	NIL	NIL	
3g	Grade of sub grade mineral generation	N.A	N.A	
3h	Manual / Mechanised method adopted for segregating from ROM	Manual	Manual	
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	Yes, jack hammer drilling	Yes, jack hammer drilling	
3k	Provision of mining machineries in mineral benches	one excavator, one loader and two tippers	one excavator, one loader and two tippers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes, 3m	Yes, 3m	
3m	Total area covered under excavation/pits	5.32 ha	About 4 ha	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.23	1:0.25	
3o	Total area put in use under different heads at the end of year	10.97 ha	about 10 ha	
3p	Production of ROM mineral during the last five year period as applicable	2012-13--5102 t, 2013-14---NIL, 2014-15--NIL, 2015-16--29502 t, 2016-17-55440 t	2012-13--5630 t, 2013-14---2620 t , 2014-15--2770 t, 2015-16--8030 t, 2016-17-14,083 t	
3q	General remarks of inspecting officers on method of mining etc.	_____	_____	Open cast A other than fully mechanised method of Mining is being carried out.

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 dump	Yes, Waste dump	
4b	Location of topsoil, OB and mineral reject dumps	Waste dump on northern side of ML	Waste dump on northern side of ML	

4c	Number of dumps within lease area and outside of lease area	One within ML	One within ML	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Beyond UPL	
4e	Number of active and alive dumps.	One active dump	One active dump	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	NIL	NIL	
4h	Whether Retaining wall or garland drain all along dumps are there.	Retaining wall Proposed	NIL	
4i	Length of Retaining wall or garland drain all along dumps	N.A	N.A	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management	_____	_____	Waste dump consisting of flaggy limestone is dumped on the Northern side of ML area as proposed.

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 proposal	NIL	
5b	Area under backfilling of mined out area	NIL	NIL	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	NIL	NIL	

5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	_____	_____	Pit not matured for backfilling and reclamation

Progressive Mine Closure Plan:

Sl.No.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual Return on PMCP need to be submitted	Not submitted	Violation of rule 26(2) has been pointed out to the lessee
6b	Area available for rehabilitation (ha) .	NIL	NIL	
6c	afforestation done (ha).	NIL	NIL	
6d	No. of saplings planted during the year	NIL	NIL	
6e	Cumulative no .of plants	NIL	NIL	
6f	Any other method of rehabilitation	NIL	NIL	
6g	Cost incurred on watch and care during the year	NIL	NIL	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (L x B x D	NIL	NIL	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	NIL	NIL	

6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation on backfilled area	NIL	NIL
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	200 plants	100 plants
6n	Compliance of rehabilitation of waste land within lease (ii) Area rehabilitation (ha)	NIL	NIL
6o	Compliance of rehabilitation of waste land within lease (iii) Method of rehabilitation	NIL	NIL
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental monitoring is Proposed	Being monitored
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	_____	_____

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting is proposed. Total ROM is being dispatched	Total ROM is being dispatched to crusher and then to plant.	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No Proposal	NIL	
7c	Different grade of mineral sorted out at mines.	Not Applicable	Not Applicable	
7d	Any beneficiation process at mines .	NIL	NIL	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	_____	_____	Total ROM is being dispatched to crusher and then to plant

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No Proposal	NIL	
8b	Concurrent use or storage of topsoil	Not Applicable	Not Applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Waste dump is proposed in Northern side of ML	As proposed waste dumped in Northern side of ML	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Proposal	NIL	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NIL	NIL
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	NIL	NIL
8g	Survival rate	_____	_____
8h	Water sprinkling on roads to control airborne dust	Yes	Being done as proposed
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	_____	_____

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly and Annual Returns are submitted within stipulated time	Monthly and Annual Returns are submitted within stipulated time	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Names of Mining Engineer and a Geologist have not furnished.	Mining Engineer and a Geologist have not been appointed	Violation of Rule 55(1)(3) has been pointed out to the party.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area covered under pits is furnished as 0, area reclaimed-0, area covered under dumps-2.0 ha	Area covered under pits is about 4.0 ha, area reclaimed-0, area covered under dumps-2.0 ha	Party was advised to submit revised return.

9d	Scrutiny of Annual return on afforestation	Not furnished	About 100 plants have been planted	Not found in the field. It was reported that the plants have not survived due to water scarcity.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Furnished as 0	No Mineral reject is being generated.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	14, 083 tonnes	14, 083 tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production- Rs220/-, Ex. Mine Price- Rs.220/-	Cost of production- Rs220/-, Ex. Mine Price- Rs.220/-	Limestone is used for captive consumption.
9h	Scrutiny of Annual return on fixed assets	Fixed assets-0	Fixed assets-0	
9k	Scrutiny of Annual return on mining machineries	Not furnished	No Machinery is deployed in the mine. Excavation and loading is being carried out manually.	

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
MCDR17 Rule 11(1)	29/06/2017				
MCDR17 Rule 26(2)	29/06/2017				
MCDR17 Rule 55(1)(3)	29/06/2017				

Date :
(Ch.Suseela)

Indian Bureau of Mines