

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/CDP/LST-25/HYD

Mine code : 38APR04017

- (i) Name of the Inspecting : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri Suresh Reddy
Official with
Designation
- (iv) Date of Inspection : 06/01/2021
- (v) Prev.inspection date : 26/10/2018

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **NAWABPETA(407.05 HA)**
- (b) **Registration NO.** : **IBM/929/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : **ANDHRA PRADESH**
District : **CUDDAPAH**
Village : **TALAMANCHIPATNAM**
Taluka : **JAMMALAMADUGU**
Post office : **CHINNAKOMERLA**
Pin Code : **516434**
FAX No. :
E-mail : **K.KARUNAKARARAO@DALMIACEMEI**
Phone : **04329235111**
- (f) Police Station : **TALAMANCHIPATNAM**
- (g) First opening date : **24/07/2008**
- (h) Weekly day of rest : **SUN**
2. Address for : **GENERAL MANAGER(MINES),M/S DALMIA CEMENTS(BHARAT**
correspondance : **CHINNAKOMERLA POST, MYLAVARAM MANDAL**
KADAPA DISTRICT-516434.
3. (a) Lease Number : **APR2331**
- (b) Lease area : **407.05**
- (c) Period of lease : **20**
- (d) Date of Expiry : **23/06/2028**
4. Mineral worked : **LIMESTONE** Main

5. Name and Address of the

Lessee : M/S ESWAR CEMENTS PVT.LTD
 CHINNAKOMERALA(V) MYLAVARAM
 (M) KADAPA DT. CUDDAPAH
 ANDHRA PRADESH
 Phone:
 FAX :

Owner : T.VENKATESAN
 DALMIA CEMENT FAGUN MANSION
 FOURTH FLOOR EGMORE CHENNAI
 CITY TAMIL NADU
 Phone: 044-28276508
 FAX : 044-28276508

Agent : K.KARUNAKARRAO
 Dalmia(B)limited,chinnakomm
 erla(v) Mylavaram(M)kadapa
 dist ANDHRAPRADESH CUDDAPAH
 ANDHRA PRADESH
 Phone: (8560)272431,272434,
 FAX : (8560)272420,27

Mining Engineer

Name : A.SRIKANTH,Full Time
 Qualification : B.Tech,(MINING)
 Appointment/ : 16/06/2011
 Termination date

Mining Engineer

Name : k.karunakara Rao,Full Time
 Qualification : AMIE(MINING)
 Appointment/ : 01/05/2007 16/06/2011
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	27/11/2007
Plan/Scheme of Mining		Mining Scheme rule 12 MCDR1988	12/09/2013
		MP review under 17(1) MCR 2016	23/01/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal for 2019-20	None	
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal for 2019-20	Nil	126 nos. core bore hole drilled for 2645.33m drilling carried out from 2005-06 to 2018-19.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposal for 2019-20	Nil	During 2018-19 a total of 8 nos DTH BH-162.50 m and 4 nos core bore hole for 91.5m were drilled.M/s Natural Resources Development Co-operative Society Ltd. 3-5-886/4/A, 3rd Floor, Himayat Nagar, Hyderabad, Telangana-500029. is the exploratory agency and the exploratory expenditure : Rs.3748036.00.
1d	Balance area to be explored to bring Geological axis in 1 or 2	No proposal for 2019-20	NIL	Entire Mining Lease area is explored in G1 level of exploration.
1e	Balance reserve as on 01/04/20		83.89 Million Tonnes-Reserves	
1f	General remarks of inspecting officers on geology, exploration etc			Entire lease are has been explored under G1 level of exploration.Lease area is flat terrain, gentle slope exist from N- NE to S-SW.The general strike N20E-S20W dip 5 degrees towards SE.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	Mining Production-E 212700-E212800,N16546 00-N1655900 Mining Developement-E 211800-E212700,N16546 00-N1655900	Mining and developement carried in the proposed location.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench in top soil and mineral.	Separate benches are being developed in top soil and mineral
2c	Stripping ratio or ore to OB ratio	1:0.47	1:0.34
2d	Quantity of topsoil generation in m3	281346 Cu.m (2019-20)	356802 Cu.m (2019-20)
2e	Quantity of overburden generation in m3	599876 cu.m in 2019-20.	546044 cu.m generated
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Mining operations are being carried out by developing two benches of 5 meters & 9 meters.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	3206680 MT (2019-20)	2890167 MT (2019-20)	1526387 tonnes upto 31.12.2020(Dring 2020-21)
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	Limestone mineral reject generation not accessed during the 5 year plan period.	Nil	

3e	Grade of mineral rejects generation and threshold value declared.	Not applicable, Cao %>34%, MgO%<5%	Nil.	
3f	Quantity of sub grade mineral generation.	SG mineral reject generation not accessed during the 5 year plan period.	Nil	The low grade limestone from the 1st bench is being blended with high grade Limestone from bottom benches.
3g	Grade of sub grade mineral generation	Not applicable	Nil	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised method adopted by screening plant for separation of clay and morrum from 1st bench mineral.	Mechanised method adopted by a screening plant established in the lease for segregation of clay and morrum from 1st Bench.	Mechanised method for segregation from ROM.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal	Nil	
3j	Provision of drilling and blasting in mineral benches	Wagon drill-150mm dia, Spacing - 6m Burden - 4m, depth of hole-9m.	Wagon drill-150mm dia, Spacing - 6m Burden - 4m, depth of hole-9m. Slurry Explosive: ANFo=20:80, NON EL Initiation for blasting.	
3k	Provision of mining machineries in mineral benches	Shovel-6.5 Cu.m-2nos, Dumper-55 Tonners-4 nos	Mining is done in combination of Shovel and Dumpers	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Bench height 5 to 9m	5	The shovel can dig upto the bench height easily.
3m	Total area covered under excavation/pits	83.73 Ha. as on 31.3.2020.	76 Ha. as on 31.03.2020	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.47 (2019-20)	1:0.34 (2019-20)	

3o	Total area put in use under different heads at the end of year	183.84 Ha. by end of 31.3.2023	145 Ha. as on 31.03.2020
3p	Production of ROM mineral during the last five year period as applicable	2015-16 = 2363936 tonnes 2016-17 = 2362253 tonnes 2017-18 = 2464772 tonnes 2018-19 = 3222330 tonnes 2019-20 = 3206680 tonnes	2015-16 = 1425000 tonnes 2016-17 = 2190000 tonnes 2017-18 = 2452500 tonnes 2018-19 = 2974500 tonnes 2019-20 = 2890167 tonnes
3q	General remarks of inspecting officers on method of mining etc.		

Solid Waste Management - Dumping:

Sl.No.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposals have been made for dumping seperately for topsoil and overburden	Seperate Topsoil and OB dumsp were noticed during the inspection. Top soil dumps- 2nos, Yellow clay dumps- 4nos.	
4b	Location of topsoil, OB and mineral reject dumps	Yellow Clay-To be dumped at South western and west side of the lease area 1.N1655343,E212134 2.N1655471,E212174 3.N1655564,E212385 4.N1655393,E212368 Top Soil is to be spreaded for plantation	Yellow Clay-Dumped at South western and west side of the lease area. 1.N1655343,E212134 2.N1655471,E212174 3.N1655564,E212385 4.N1655393,E212368 Top Soil is spreaded for plantation	
4c	Number of dumps within lease area and outside of lease area	6 within lease area	6 within lease area	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Outside the UPL in SW part of the Lease area.	Out side UPl and in South western corner of Mining Lease.	
4e	Number of active and alive dumps.	6 nos	6 nos	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	6	6	
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal in 2019-20	Yes Constructed	In 2018-19 retaining wall constructed for 452m length.
4i	Length of Retaining wall or garland drain all along dumps	No proposal in 2019-20	Nil	-do-
4j	Number of settling ponds	No Proposal in 2019-20	Nil	
4k	Specific comments of inspecting officer on waste dump management			Waste dump has been provided with retaining wall and trench.

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	No approved proposal for 2019-20.	Nil	Mineral is yet to be extracted upto UPL.
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Top soil to be spreaded and used for GBD.	Top soil spreaded and utilised for GBD.	
5d	Total area fully reclaimed and rehabilitated	No proposal in 2019-20.	Nil	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	Mineral in no part of the lease area is extracted upto UPL hence no part of the lease area is matured to start backfilling.
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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).	To be submitted.	Submitted on 27.06.2020.	
6b	Area available for rehabilitation (ha) .	No proposal for 2019-20	Nil	
6c	afforestation done (ha).	1 Ha	1 Ha	
6d	No. of saplings planted during the year	2000 nos. in 1 Ha.	2125 nos. in 1 Ha.	
6e	Cumulative no .of plants	-	84834	
6f	Any other method of rehabilitation	No proposal in 2019-20	Nil	
6g	Cost incurred on watch and care during the year	No proposal in 2019-20	Rs 316057.00	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal in 2019-20	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal in 2019-20	Nil	

6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal in Nil 2019-20	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal in Nil 2019-20	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal in Nil 2019-20	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal in Nil 2019-20	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal in Nil 2019-20	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal in Nil 2019-20	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental Monitoring Proposed	Environmental monitoring has been carried for AAQ at 4 core and 4 buffer zone location,Water Quality Monitoring-1 core and 4 buffer zone locations ,Noise Level Monitoring-5 core zone locations.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Lessee is doing plantation and carrying Environmental Monitoring.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Entire Limestone to be used in the process.	Entire Limestone is used in the process.	No grade wise sorting is being done.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal for grade wise sorting in 2019-20.	Low grade Limestone mixed with clay is screened and used for blending the same with high grade Limestone.	
7c	Different grade of mineral sorted out at mines.	No such proposal for 2019-20.	Nil	
7d	Any beneficiation process at mines .	No proposal in 2019-20	Mineral crushing plant is established with a capacity of 1000 tph for crushing the limestone to the size of -75 mm and also constructed screening plant for separation of clay from Limestone of 1st bench.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Sceneing plant and crushing plant is established to separate clay from Limestone and for size reduction.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	2019 - 20 = 281346 cu.m	356803 cu.m	
8b	Concurrent use or storage of topsoil	Top soil to be spreaded and thereafter for GBD.	Top soil is spreaded and thereafter utilised for GBD.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Yes	Yes separate dump for top soil and yellow clay is there.	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal in Nil 2019-20.		Mineral is yet to be extracted upto the UPL.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal in Nil 2019-20.		
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During 2019-20 there is proposal of 2000 nos plants in 1 Ha.	During 2019-20 a total of 2125 nos. sapplings planted in 1 Ha.	
8g	Survival rate	-	90%	
8h	Water sprinkling on roads to control airborne dust	Dust will be controlled by stationary and mobile sprinklers.	Permanent sprinklers have been fixed for 300 meters and the remaining haul road is wetted by 15 KL water tanker.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	Plantation is being done to improve the aesthetic beauty in and around mines area.		

Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR and AR to be submitted.	M.R being submitted regularly and AR for 2019-20 submitted.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager-Sri K.V.Suresh Reddy Mining Engineer-Sri K.V.Suresh Reddy Geologist-Sri N.Guru Pratap Reddy	Manager-Sri K.V.Suresh Reddy Mining Engineer-Sri K.V.Suresh Reddy Geologist-Sri N.Guru Pratap Reddy
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Submitted as mining pit - 76 Ha. Dump - 30.20 Ha., Infrastructure-10 Ha, GBD-28.80 Ha	Working is as per the Land use.
9d	Scrutiny of Annual return on afforestation	2125 nos	2125 nos
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	ROM-1 tonne	ROM-1 tonne
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost /Tonne- Rs.233.86 Ex Mine Price- Rs 233.86	Cost /Tonne-Rs.233.86 Ex Mine Price-Rs 233.86
9h	Scrutiny of Annual return on fixed assets	Rs.696397590.00	Rs.696397590.00(As reported by Lessee)
9k	Scrutiny of Annual return on mining machineries	Submitted	Machinery matching as per the return.

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 :

(S K MUDULI)

Indian Bureau of Mines