

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/GNR/LST-40/HYD

Mine code : 38APR07040

- (i) Name of the Inspecting : **M029**) **MADHU SUDHAN YADAV M**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Sri. G.Chandrasekhar, Mines Manager & Sri. Ramakrishna
Official with
Designation
- (iv) Date of Inspection : 27-OCT-21
- (v) Prev.inspection date : 02-FEB-21

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PARASAKTI LIMESTONE**
- (b) **Registration NO.** : **IBM/955/2011**
- (c) **Category** : **A Fully Mechanised**
- (d) **Type of Working** : **Opencast**
- (e) **Postal address**
- State : **ANDHRA PRADESH**
- District : **GUNTUR**
- Village : **JETTIPALEM**
- Taluka : **GURAZALA**
- Post office : **JETTIPALEM**
- Pin Code : **522421**
- FAX No. : **040-23735244**
- E-mail : **mines@parasakticement.com**
- Phone : **08642211962**
- (f) **Police Station** : **RENTACHINTALA**
- (g) **First opening date** : **18-APR-05**
- (h) **Weekly day of rest** : **SUN**
2. **Address for** : **JETTIPALEM (V), RENTACHINTALA (M),**
correspondance **GUNTUR DIST.**
3. (a) **Lease Number** : **APR2609**
- (b) **Lease area** : **137.69**
- (c) **Period of lease** : **30**
- (d) **Date of Expiry** : **11-OCT-37**
4. **Mineral worked** : **LIMESTONE** **Main**

5. Name and Address of the

Lessee : PARASAKTHI CEMENT IND. LTD.
 301, 3RD FLOOR, MANJEERA
 SQUARE, OPP. MYTHRI
 HOSPITAL, AMEERPET
 HYDERABAD HYDERABAD
 TELANGANA
 Phone: 040-23745361
 FAX : 040-23735244

Owner : PARASAKTI CEMENT IND. LTD.
 301, 3RD, FLOOR, MANJEERA
 SQUARE, OPP. MYTHRI
 HOSPITAL, AMEERPET, HYD
 HYDERABAD TELANGANA
 Phone: 040-23745362
 FAX : 040-23735244

Agent : A.SAMBASIVA RAO
 PARASAKTI CEMENT LTD.,
 JETTIPALEM, RENTACHINTALA
 (M) GUNTUR DIST. GUNTUR
 ANDHRA PRADESH
 Phone: 9866700011, 08642-223931
 FAX :

Mining Engineer

Name : Mr.V.Naresh Babu, Full Time
 Qualification : B.Tech(Mining)
 Appointment/ : 13-JUN-16
 Termination date

Geologist

Name : M.Ramakrishna Naidu, Full Time
 Qualification : M.Sc Tech (Geology)
 Appointment/ : 01-SEP-13
 Termination date

Manager

Name : G.Chandrasekhar
 Qualification : Diploma in Mining Engineering
 Appointment/ : 24-JUL-08
 Termination date

6. Date of approval of Mining	:	Modif.of approved Mining Plan	08-JUN-06
Plan/Scheme of Mining	:	Modif.of approved Mining Plan	04-MAY-07
	:	Modif.of approved Mining Plan	22-JUN-10
	:	Mining Scheme rule 12 MCDR1988	15-OCT-15
	:	MP review under 17(1) MCR 2016	07-JAN-20

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2020-21.	No exploration done during 2020-21.	
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal in 2020-21.	Entire lease area has been explored in G1 level by drilling 120 nos of core boreholes for total drilling meterage of 2971m.	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No exploration proposal in 2020-21.	Nil	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Nil	
1e	Balance reserve as on 01/04/20	----	Proved Mineral Reserves as on 01/04/2021 - 83.597746 million tonnes Grade: CaO - 35-48% SiO2 - 11.95-18%	
1f	General remarks of inspecting officers on geology, exploration etc			Southern tail end of the lease is having low grade limestone. No. of boreholes have been found to be terminated in mineralised zone.

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t.lease area	N1837400 - N1838400 - E340600 - 341600	Work done within the proposed co-ordinates.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench in Mineral Only proposed.No Separate bench in Top soil proposed.	Only mineral benches developed.
2c	Stripping ratio or ore to OB ratio	No such proposal in 2020-21.	Nil
2d	Quantity of topsoil generation in m3	2020-21 - 7528 cu.m	2020-21 - 17769 cu.m
2e	Quantity of overburden generation in m3	No such proposal in 2020-21.	Nil
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		Open cast Mining is done with Excavator and dumper combination with deep hole drilling and blasting. One openpit is developed with 3 benches and maximum bench height is 8m.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One	One	
3b	Quantity of ROM mineral production proposed	2020-21 - 1791794.3 tonnes	2020-21 - 1140341 tonnes	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	

3d	Quantity of mineral reject generation	No such proposal in 2020-21.	Nil
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable
3f	Quantity of sub grade mineral generation.	2020-21 - No proposal	2020-21 - Nil
3g	Grade of sub grade mineral generation	Not applicable	Not applicable
3h	Manual / Mechanised method adopted for segregating from ROM	No proposal	Nil
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	Drilling and blasting is proposed in the mineral benches.	Wagon drill being used for drilling with a blast hole dia of 150 mm & depth of 8 m, spacing of 3.5 meters and burden of 4.5 meters. Blasting with ANFO & slurry explosives with NONELS as initiating system.
3k	Provision of mining machineries in mineral benches	Excavator and dumper combination was proposed.	Work is carried out by using 3.3cu.m shovels of 2 nos. & 1.8 cu.m shovels of 1 No. 5 nos. of 35 T dumpers along with rock drill, road rollers etc are being used, Dozer - D80 Model - 30T pushing capacity.

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	It was proposed to maintain the bench height of 7 meters	Bench height is being maintained as 7 m. Digging height of the excavators are compatible with bench height.
3m	Total area covered under excavation/pits	87.229 Ha	63.306 Ha
3n	Ore to OB ratio for the pit/mine during the year.	No proposal in 2020-21.	Nil
3o	Total area put in use under different heads at the end of year	106.799 Ha.	97.015 Ha (Including 35.47 Ha. green belt)
3p	Production of ROM mineral during the last five year period as applicable	2016-17 - 1800072 MT 2017-18 - 1799520 MT 2018-19 - 1800440 MT 2019-20 - 1806288 MT 2020-21 - 1791974 MT	2016-17 - 1038999 MT 2017-18 - 1159606 MT 2018-19 - 1511389 MT 2019-20 - 967994 MT 2020-21 - 821648 MT
3q	General remarks of inspecting officers on method of mining etc.		Mining pit development is in initial stage. Mechanised method of mining has been adopted.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Seperate top soil dump is proposed	Separate top soil dumping done	
4b	Location of topsoil, OB and mineral reject dumps	Topsoil dump location N-1837400, 1837200 & E-340400, 340600	Topsoil dumped in the proposed location.	

4c	Number of dumps within lease area and outside of lease area	1 top soil dump (within lease area)	1 top soil dump (within lease area)	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Proposed on mineralized zone within UPL	This temporary stack is done on mineralised area. The topsoil is proposed to be utilised during the course of time.	
4e	Number of active and alive dumps.	1	1	
4f	Number of dead dumps.	0	0	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal in 2020-21.	Nil	
4i	Length of Retaining wall or garland drain all along dumps	No such proposal in 2020-21.	Nil	
4j	Number of settling ponds	No such approved proposal for 2020-21.	Nil	
4k	Specific comments of inspecting officer on waste dump management			One temporary top soil is there in SW direction of mining pit. The old dump lying on SW part of mining has been entirely rehandled from 2015-16 to 2019-20. A total of 42213 tonnes of Limestone and 147465 tonnes of top soil have been recovered from dump rehandling.

Solid Waste Management - Backfilling:

Sl.No.	Item	Proposals	Actual work	Remarks
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5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No proposal for 2020-21.	Nil	
5b	Area under backfilling of mined out area	No proposal for 2020-21.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposal made for stacking top soil and thereafter utilising for Green Belt Developement	Being done accordingly.	
5d	Total area fully reclaimed and rehabilitated	No proposal for 2020-21.	Nil	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			The pit is not mined out upto its ultimate pit limit to start backfilling.

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 in time	Submitted in time	
6b	Area available for rehabilitation (ha) .	No proposal in 2020-21.	Nil	
6c	afforestation done (ha).	0.18 Ha	0.187 Ha	

6d	No. of saplings planted during the year	2020-21 - 400 saplings	2020-21 - 380 saplings	Lessee has planted 1250 Nos. of sapling during the year 2021-22 including the shortfall of 20 Nos. sapling for the year 2020-21.
6e	Cumulative no .of plants	No proposal	27464 Nos. till 2020-21	
6f	Any other method of rehabilitation	No proposal for 2020-21.	Nil	
6g	Cost incurred on watch and care during the year	No proposal for 2020-21.	Nil	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal for 2020-21.	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal for 2020-21.	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area	No proposal for 2020-21.	Nil	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal for 2020-21.	Nil	

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal for 2020-21.	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal for 2020-21.	Nil	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal for 2020-21.	Nil	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal for 2020-21.	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly environmental monitoring of core and buffer zone.	Quarterly environmental monitoring carried out during 2020-21 and all the parameters are within the permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			No area of pit has reached its ultimate pit limit to start Reclamation and Rehabilitation and backfilling activities.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No grade wise sorting proposed in 2020-21. Entire ROM is to be despatched.	No grade wise sorting done and entire ROM is despatched during 2020-21.	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Not applicable	Not applicable	
7c	Different grade of mineral sorted out at mines.	Not applicable	Not applicable	
7d	Any beneficiation process at mines .	Not applicable	Not applicable	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			No sub grade has been generated. Beneficiation is not required as the entire ROM mineral is utilised for captive plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Top soil to be removed separately and utilized for plantation.	Top soil removed separately and utilized for plantation.	
8b	Concurrent use or storage of topsoil	Proposed	Temporarily dumped at the site located south side as per the mining plan.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No proposal in 2020-21.	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Not applicable	Not applicable	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Not applicable	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	0.18 Ha. 400 nos. during 2020-21.	0.187 Ha. 380 Nos.	
8g	Survival rate	No proposal	75%	
8h	Water sprinkling on roads to control airborne dust	Water Tankers to be provided for dust suppression.	Water sprinklers and water tanker is provided for dust suppression.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Plantation is being done all along the Mining Lease boundary and within to improve the aesthetic beauty of mine.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted as per rule.	All monthly and annual returns submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri G.Chandra Sekhar - Mines Manager Shri K.Srinivas Rao, Mining Engineer Shri M. Ramakrishna Naidu, Geologist	Shri G.Chandra Sekhar - Mines Manager Shri K.Srinivas Rao, Mining Engineer Shri M. Ramakrishna Naidu, Geologist	

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	To be submitted.	Submitted
9d	Scrutiny of Annual return on afforestation	380 saplings	Broadly as submission and same quantity is verified in afforestation register maintained.
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	Opening stock - 73382 T, Production - 1140341 T, Closing stock 51808 T.	Opening stock - 73382 T, Production - 1140341 T, Closing stock 51808 T.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Cost of production is reported as Rs.172.49/-	Over head cost and Depreciation per tonne reported in cost of production is inconsistent with data given in various parts of this annual returns. Advised to correct the annual returns since it has been referred back by the MMS division.
9h	Scrutiny of Annual return on fixed assets	The value of fixed assets reported by the lessee in annual returns is Rs.1377984367-	Depreciation per tonne reported in cost of production is inconsistent with data given in Capital structure of this annual returns. Advised to correct the annual returns since it has been referred back by the MMS division.

9k	Scrutiny of Annual return on mining machineries	Hydraulic shovel - 3 Nos. Dumper - 5 Nos. Dozer - 1 No. Rock drill - 2 Nos. Water tanker - 1 No.	All proposed machineries found in the mining area.
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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 :

(MADHU SUDHAN YADAV M)

Indian Bureau of Mines