

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT 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 : **M001**) **S K MUDULI**
Officer and ID No.
- (ii) Designation : Junior Mining Geologist
- (iii) Accompanying mine : Sri. G.Chandrasekhar-Mines Manager
Official with
Designation
- (iv) Date of Inspection : 02/02/2021
- (v) Prev.inspection date : 21/11/2019

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 : 18/04/2005
- (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 : 11/10/2037
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/ : 13/06/2016
 Termination date

Geologist

Name : M.Ramakrishna Naidu, Full Time
 Qualification : M.Sc Tech (Geology)
 Appointment/ : 01/09/2013
 Termination date

Manager

Name : G.Chandrasekhar
 Qualification : Diploma in Mining Engineering
 Appointment/ : 24/07/2008
 Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Modif.of approved Mining Plan	08/06/2006
		Modif.of approved Mining Plan	04/05/2007
		Modif.of approved Mining Plan	22/06/2010
		Mining Scheme rule 12 MCDR1988	15/10/2015
		MP review under 17(1) MCR 2016	07/01/2020

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposal in 2019-20.	No exploration done during 2019-20.	
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal in 2019-20.	Entire lease area has been explored in G1 level by 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 2019-20.	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		83.597746 million tonnes-Reserves	As per approved RMP dated 08/1/2020- 84.139 million tonnes Reserves in (111) category, Remaining Resources- (221/222) - 9.240 million tonnes as on 1.9.2019.
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
--------	------	-----------	-------------	---------

2a	Location of development w.r.t.lease area	N1837434 - N1837930 - E341000 - 341405 (Towards Eastern direction)	Being done within the proposed area.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate bench in Mineral Only proposed.No Separate bench in Top soil proposed.	Top soil being removed separately by scrapping off and no separate nanch has been developed for top soil.Benches have been developed only in mineral.
2c	Stripping ratio or ore to OB ratio	No such proposal in 2019-20.	Nil
2d	Quantity of topsoil generation in m3	31400m3	44838m3(58290 tonnes) during 2019-20.
2e	Quantity of overburden generation in m3	No such proposal in 2019-20.	Top soil is being removed separately and stacked. No separate bench is maintained for top soil.
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.There is one pit with dimension 1125m X 760m and having 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	1799980 tonnes ROM.	967994 T tonnes	
3c	Recovery of sailable/usable mineral from ROM production	100%	100%	

3d	Quantity of mineral reject generation	No such proposal in 2019-20.	Nil	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable	Not applicable	
3f	Quantity of sub grade mineral generation.	436310 tonnes	Sub grade has been simultaneously blended with the high grade and is part of limestone production	No separate sub grade register maintained.
3g	Grade of sub grade mineral generation	SiO ₂ %- 15 to 18	Not applicable	
3h	Manual / Mechanised method adopted for segregating from ROM	No such proposal in 2019-20 as entire ROM is directly usable.	Not applicable	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal in 2019-20 as entire ROM is directly usable.	Not applicable.	
3j	Provision of drilling and blasting in mineral benches	Deep hole drilling and blasting. Wagon drill Machine-115 mm dia, Burden - 3m to 3.5 m, spacing - 4m to 5m, Slurry Explosive: ANFO -20:80.	2 nos. wagon drill with compressor. 1. wet drilling is carried out. 2. Drilling is proposed by 115mm dia wagon drill and blasting by ANFO(column charge) - 80%, slurry (base charge) - 20%	
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	As per approved mining plan height of bench 08 m and No. of benches - 03	Machinery deployed is found to be suitable for the purpose.	

3m	Total area covered under excavation/pits	70.328 Ha	61.398 Ha	
3n	Ore to OB ratio for the pit/mine during the year.	No proposal in 2019-20.	Not applicable	
3o	Total area put in use under different heads at the end of year	106.799 Ha.	99.703 Ha (Including 35.47 Ha. green belt)	
3p	Production of ROM mineral during the last five year period as applicable	2014-15 - 1800072 MT 2015-16 - 1800210 MT 2016-17 - 1800072 MT 2017-18 - 1799520 MT 2018-19 - 1800440 MT 2019-20 - 1806288 tonnes (Including 6308 tonnes limestone from dump rehandling)	2014-15 - 1073996 MT 2015-16 - 1041621 MT 2016-17 - 1038999 MT 2017-18 - 1159606 MT 2018-19 - 1511389 MT 2019-20 - 967994 tonnes	
3q	General remarks of inspecting officers on method of mining etc.			Open cast Mining is done with Excavator and dumper combination with deep hole drilling and blasting. There is one pit having 3 benches and maximum bench height of 8m.4105 tonnes of Limestone has been recovered from dump rehandling in 2019-20.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Yes separate top soil dumping proposed at location N-1837325, E-340600	Separate top soil dumping has been done.	During 2020-21 top soil is being dumped at N-1837600 - 1837200 - E-340400 - 340600

4b	Location of topsoil, OB and mineral reject dumps	Yes separate dumping proposed at location N-1837325, E-340600	Separate dumping done at 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 and is proved for presence or absence of mineral.
4e	Number of active and alive dumps.	1	1
4f	Number of dead dumps.	0	0
4g	Number of dumps established.	1	1
4h	Whether Retaining wall or garland drain all along dumps are there.	No such proposal in 2019-20	Not done
4i	Length of Retaining wall or garland drain all along dumps	No such proposal in 2019-20	Not done
4j	Number of settling ponds	No such approved proposal for 2019-20	Not done
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	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	No such proposal in 2019-20.	Area is not matured for the purpose.	Mineral is yet to be extracted upto UPL.
5b	Area under backfilling of mined out area	No such proposal in 2019-20.	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Proposal made for stacking top soil and thereafter utlising for Green Belt Developement	Being done accordingly.	
5d	Total area fully reclaimed and rehabilitated	No such proposal in 2019-20.	Not done	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No portion of the lease area is matured to start backfilling and reclamation.

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 2019-20.	Nil	
6c	afforestation done (ha).	1.516 Ha	1.581 Ha	
6d	No. of saplings planted during the year	2275 saplings	2295 saplings	
6e	Cumulative no .of plants		27084 nos saplings planted within ML	

6f	Any other method of rehabilitation	No portion of the lease area is matured to start backfilling and reclamation.	Nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	No proposal in 2019-20.	Not done Mineral is yet to be extracted upto UPL.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal in 2019-20.	Not done
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal in 2019-20.	Not done
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal in 2019-20.	Not done
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal in 2019-20.	Not done.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No proposal in 2019-20.	Not done.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal in 2019-20.	Not done

6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal in 2019-20.	Not done.	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Environmental Monitoring proposed in core zone and buffer zone.	Environmental monitoring is being done quarterly once. No. of core zone location No. of buffer zone location Ambient Air Quality monitored at 5 core zone location and 3 buffer zone location, Water Quality monitoring is done at 1 core zone location and 5 nos buffer zone location, Noise level monitoring is done at 5 core zone location and 3 buffer zone locations.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Environmental Monitoring and Plantation is being done as a part of PMCP.

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 2019-20. Entire ROM is to be despatched.	No grade wise sorting done and entire ROM is despatched during 2019-20.	
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	Entire ROM is directly usable hence beneficiation is not warranted.
----	--	---

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 2019-20.	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)	1.516 Ha. 2275 nos. during 2019-20	1.581 Ha. 2295 nos. in 7.5m safety zone (Bp-13 to 16)	
8g	Survival rate	90%	80%	

8h	Water sprinkling on roads to control airborne dust	Being carried out as proposed	Water sprinklers arranged along the haul roads, crusher hopper and blasting muck pile wetting.	
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 V.Naresh Babu, 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	2295 saplings	2295 saplings planted	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil reported	Nil	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock - 78473 T, Production - 967994 T, Closing stock 73382 T.	Opening stock - 78473 T, Production - 967994 T, Closing stock 73382 T.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost			

- 9h Scrutiny of Information to Submitted
Annual return on be submitted.
fixed assets
- 9k Scrutiny of Information to Submitted
Annual return on be submitted.
mining
machineries
-

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