

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

**MCDR inspection REPORT
Hyderabad regional office**

Mine file No : AP/GNR/LST-21/HYD

Mine code : 38APR07013

- (i) Name of the Inspecting : **25**) **SHRI IBRAHIM SARIF**
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Sri Gurubaskar Reddy, Manager Mines
Official with
Designation
- (iv) Date of Inspection : 17/03/2022
- (v) Prev.inspection date : 01/02/2021

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **PETASANNIGANDLA**
- (b) **Registration NO.** :
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
State : ANDHRA PRADESH
District : GUNTUR
Village : PETASANNIGANDLA
Taluka : GURUZALA
Post office : KAREMPUDI
Pin Code : 522614
FAX No. :
E-mail :
Phone : 08649-272254
- (f) Police Station : KAREMPUDI
- (g) First opening date : 21/12/1982
- (h) Weekly day of rest : SUN
2. Address for : PETASANNIGANDLA Limestone MINE
correspondance : KAREMPUDI
GUNTUR DIST
3. (a) Lease Number : APR1340
(b) Lease area : 202.35
(c) Period of lease : 20
(d) Date of Expiry : 23/12/2002
4. Mineral worked : Limestone Main

5. Name and Address of the

Lessee : M/S SRI CHAKRA CEMENTS LTD
 H.NO 6-3-668/10/66
 P.B.NO.33, PUNJAGUTTA,
 DURGANAGAR COLONY HYDERABAD
 TELANGANA
 Phone:3318939,65023474
 FAX :040-3318938

Owner : SRI CHAKRA CEMENTS LTD
 H.NO 6-3-668/10/66
 P.B.NO.33, PUNJAGUTTA,
 DURGANAGAR COLONY, HYD
 GUNTUR ANDHRA PRADESH
 Phone:
 FAX :

Agent : D.V.D.S.N.Murthy
 Sri Narasimhapuri(po)
 Karampudi(M) Guntur Dist.
 GUNTUR ANDHRA PRADESH
 Phone:
 FAX :

Manager

Name : B.GURUSEKHAR REDDY
 Qualification : DIPLOMA IN MINING
 Appointment/ :
 Termination date

6. Date of approval of Mining	:	Mining Scheme rule 12 MCDR1988	03/03/2005
Plan/Scheme of Mining	:	Modif.approved Mining Scheme	20/02/2007
	:	Mining Scheme rule 12 MCDR1988	22/07/2009
	:	MP review under 17(1) MCR 2016	16/01/2018

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Nil	No exploration carried out during the year 2020-21.	
1b	Exploration over lease area for geological axis 1 or 2	F.Y 2020-21 : No proposal	Not applicable	The non mineralised land is about 73.41 hectare, remaining 128.93 Ha of mineralised area has been explored in G 1 and G2 scale.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Nil	Rock Engineering Core Drilling . Rs. 66,51,745.00 spent on exploration so far	- NA -
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Entire mineralised area has been explored to G1 or G2 level of exploration	G2 area to be converted in G1 level. In present document submitted for approval proposal for conversion from G to G scale is proposed
1e	Balance reserve as on 01/04/20	111/121/122= 3 7.196mT 211/221/222= 29.842mT	2016-17=508186T 2017-18= 575447T 2018-19=624952T Total depletion 1.69mT Reserves assessed on 1.04.2020- 35.043215 million tonnes 111/121/122 2019-20 - 444200 tonnes	2019-20 (upto Jan 20)=359221T
1f	General remarks of inspecting officers on geology, exploration etc			The General strike of the formations varies from NE-SW with dip 15° - 20° due SE to ENE to WSW with dips due 5° to 30° due SSE. The Limestone deposit falls under the Narji Limestone formation. 128.93 Ha mineralised area has been explored in G1 and G2 scale.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Production and Development proposals are given in between grid lines, 6th Bench: 1500-1900 and E2400-2800, 7th Bench - N1600-1900 and E2400-2800 and 8th Bench N1500-1900 and E2200-2500	Development is broadly within the area proposed.	
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	No seperate OB/ Top Soil benches are proposed, as there s no OB and Top Soil benches.	Not applicable	
2c	Stripping ratio or ore to OB ratio	2020-21=1:.01	2020-21=Nil	
2d	Quantity of topsoil generation in m3	2020-21 : Nil	2020-21 : Nil	
2e	Quantity of overburden generation in m3	2020-21= 33394 cu.m of interstitial waste (yellow clay) generation assessed	2020-21 =16359 T interstitial waste (yellow clay) generation reported.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The mine is being developed from top to bottom. The mine is developed with benches of 6 to 7 m high and widthh as per MMR are being mantained.	

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	The excavation was proposed form the only one pit	Production and development is being carried out in one pit only.	

- 3b Quantity of ROM mineral production proposed 714627 T
2020-21= 818175 T
2021-22 = 841396 T 2020-21 = 552266 tonnes
2020-21 =318910 tonnes,
produced upto 31.01.2022.
- 3c Recovery of sailable/usable mineral from ROM production F.Y. 2020-21 : Recovery of 90% from of ROM was proposed. F.Y. 2020-21 : Around 90% recovery from ROM ore is reported during the year 2020-21
- 3d Quantity of mineral reject generation F.Y. 2020-21 : No such generation of Mineral reject is proposed F.Y. 2020-21 : No Mineral reject generated
- 3e Grade of mineral rejects generation and threshold value declared. Not Applicable -
- 3f Quantity of sub grade mineral generation. F.Y. 2020-21 : No such generation of Sub grade Mineral is proposed F.Y. 2020-21 : No Sub grade Mineral is proposed
- 3g Grade of sub grade mineral generation Not Applicable -
- 3h Manual / Mechanised method adopted for segregating from ROM Mechanised method is adopted for segregation of intercalated waste from ROM zone Same is being practised as proposed
- 3i Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects. F.Y. 2020-21 : Not done No such beneficiation study was proposed during the year

3j	Provision of drilling and blasting in mineral benches	Drilling is proposed to be carried by deploying 115 mm dia wagon drill and blasting is conducted by using nonel electric detonators in combination with slurry explosives	Drilling and Blasting is being carried out as per approved proposals
3k	Provision of mining machineries in mineral benches	Excavator- 1.7 cum capacity- 1 No., 0.9 cum- 1 No., Wheel Loader- 1.5 cum capacity- 1 No. Drilling Machine with compressor- 115 mm dia Dumpers : 25 Tonn capacity- 3 No. Water Tanker of 6KL capacity	The above machines are being deployed in the mines
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	7 meters bench height is suitable by deploying 1.7 cum capacity excavator	1.7 cum excavators with Boom height of about 10m is suitable to maintain benches height of 7 m.
3m	Total area covered under excavation/pits	26.114 hectare is proposed to be put to use under excavation/ pit for the year 2021-22	26.114 ha area is utilised for pit for the year 2020-21
3n	Ore to OB ratio for the pit/mine during the year.	1:0.10	1 : 0.03
3o	Total area put in use under different heads at the end of year	43.036 hectare is proposed under land put to use for the year 2020-21	43.036 ha is reported under land put to use for the year 2020-21.

3p Production of ROM mineral during the last five year period as applicable

2016-17=1282766T	2016-17=508186T
2017-18=lapsed period	2017-18=575447T
2017-18(jan-mar19)=373133T	2018-19=624952 T
2018-19=714627 T	2019-20 - 444200 T
	2020-21 = 535001 T
	2021-22=318910 T

2014-15 lapsed period
 2015-16 - lapsed period
 2016-17 - 1282766 T
 2017-18 Lapsed period (April - December 2017)
 2017-18 (Jan-March19) = 373133T
 2018-19=714627 T
 2019-20 - 726360 T
 2020-21=751385 T
 2021-22 = 772710 T

3q General remarks of inspecting officers on method of mining etc.

Mining is being done through the opencast method with fully mechanized means using conventional method of drilling and blasting.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
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4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	F.Y 2020-21 : There is no proposal of generation of OB, Top Soil, however there is proposed of generation of 32,282 Tonnes of Interstitial Clay	F.Y 2020-21 : No OB or topsoil is generated during the year. However 16,359 Tonnes of interstitial clay generated during the year.
4b	Location of topsoil, OB and mineral reject dumps	Interstitial clay generated is proposed to be stacked in between grid lines N1400-1500 E2600 - 2900	Being done accordingly
4c	Number of dumps within lease area and outside of lease area	There is one main dump within lease area where the interstitial clay has been proposed to be dumped in 2020-21.	One dump has been noticed to the south of the pit within lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Beyond UPL	Dump is located on non mineralized land and beyond UPL.
4e	Number of active and alive dumps.	one Dump is active	One dump .
4f	Number of dead dumps.	Nil	Not applicable
4g	Number of dumps established.	No proposal	No dump has been stabilised.
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	The retaining wall is maintained all around the dump.
4i	Length of Retaining wall or garland drain all along dumps	No proposal during the year	No construction of retaining wall was noticed. About 330m length of of retaining wall all along dump is maintained.
4j	Number of settling ponds	F.Y. 2020-21 : No proposal	Not applicable.

4k	Specific comments of inspecting officer on waste dump management	Waste dump on Southern side of pit is maintained with Retaining wall all along its bottom periphery.
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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.	F.Y. 2020-21 : No such proposal of full extraction and backfilling.	The mineralisation is continuing at the pit bottom as such backfilling is not required.	
5b	Area under backfilling of mined out area	No proposal in 2020-21.	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	F.Y 2020-21: No top soil generation is assessed during the year	No top soil generated as mine is working in the degraded pit only.	
5d	Total area fully reclaimed and rehabilitated	F.Y 2020-21 : No proposal during the year.	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			No area is matured for backfilling as ore is continuing at pit bottom.

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).	Annual report on PMCP for the year 2020-21 to be submitted in time	Annual report for the year 2020-21 submitted.	
6b	Area available for rehabilitation (ha) .	F.Y. 2020-21 : No proposal for rehab. of worked out benches	Nil during the year 2020-21	

6c	afforestation done (ha).	2020-21 : About 0.6 Ha area to be afforested during the year	Afforestation has been done over 0.6 Ha area
6d	No. of saplings planted during the year	F.Y 2020-21 : 1000 sapplings to be planted during the year .	2020-21 :1500 sapplings planted during the year
6f	Any other method of rehabilitation	No proposal for rehab. of worked out benches	Nil
6g	Cost incurred on watch and care during the year	F.Y 2020-21 : It was proposed to incurr Rs. 1,87,000.00 during the year	F.Y 2020-21 : About Rs. 2,00,000.00 spent on afforestation, watch and Care during the year.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	F.Y 2020-21 : No proposal during the year	Not done. Further the mineralisation is continuing at the pit bottom.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	F.Y 2020-21 : No proposal for rehab.by backfilling during the year	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	F.Y 2020-21 : No proposal of backfilling during the year	Nil
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	F.Y 2020-21 : No proposal for rehabilitation during the year	Not done.

6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	F.Y 2020-21 : No proposala	Not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	F.Y 2020-21 : Proposal to afforest 1500 saplings during the year within ML.	1500 saplings planted with 70% survival in 2020-21 within ML.	
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	F.Y 2020-21 : No proposal of rehabilitation of waste land by afforestation	Nil during the year	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	F.Y 2020-21 : No proposal	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quarterly Monitoring of Air, water and Noise to be carried out and the results are to checked	Quarterly Environment monitoring is being done regularly for Air, Water and Noise and all are within permissible limit.	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Plantation is being carried out to improve aesthetic beauty.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	F.Y 2020-21 : Cleaned ore recovered from ROM is to be dispatched to its captive Cement Plant	F.Y 2020-21 : Cleaned ore recovered from ROM is being dispatched to its own captive Cement Plant	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Entire mineral Being done accordingly. after separation of interstitial clay in top benches is proposed for utilisation.	
7c	Different grade of mineral sorted out at mines.	F.Y 2020-21 : No mineral sorting is done No proposal for grading of limestone during the year	
7d	Any beneficiation process at mines .	F.Y 2020-21 : SAmE is being carried out as per proposal Dry processing is being carried out within lease area by Crushing and Screening.	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		Low grade from top bench is being blended with High grade ore at bottom benches for optimum utilisation of ore available.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	F.Y 2020-21 : No proposal during the year	No Top Soil Generated during the year	
8b	Concurrent use or storage of topsoil	F.Y 2020-21 :No proposal	Not applicable	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dump is there for the interstitial waste	As proposed	

8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal in 2020-21	Not done
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal in 2020-21	Not done
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	1500 samplings on 0.6 ha in 2020-21	1500 samplings on 0.6 ha in 2020-21
8g	Survival rate	80%	70%
8h	Water sprinkling on roads to control airborne dust	Proposed to deploy water tanker for dust suppression arrangement	Water Sprinklers is provided to suppress the dust in the mine.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		Except for the degradation of land due to pit , dumps and infrastructure. The natural aesthetics is maintained

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 regularly in time	M.R.Submitted upto Feb-2022 A.R.Submitted upto 2020-21.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Reported Shri . G Ramesh- as Mining Engineer Geologist not employed	Shri . G Ramesh- as Mining Engineer Geologist Not employed	Violation was pointed out

9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under pit- 26.114 ha. Area under dump 3.022 ha. Infra/road- 16.010 ha.	Broadly as reported.	
9d	Scrutiny of Annual return on afforestation	1000 saplings with 60% survival in 2020-21 within ML.	Yes it is observed that lessee has planted 1000 sapplings during ths year 2020-21	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil reported	No Limestone reject has been produced.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM - Nil Graded ore- 4611 Tonnes Cement Grade - 4611 Tonnes	ROM - Nil Graded ore Cement Grade - 4611 Tonnes	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex mine Price and Cost of Production is reported as Rs. 217 PMT.	Royalty was not paid by lessee during financial year 2020-21, as exemption from BIFR was obtained. Correction in this regard shall be made in Cost of production.	VIolation was pointed out
9h	Scrutiny of Annual return on fixed assets	Value of Fixed assets reported during the year 2020-21 : Rs. 38,86,44,084.0 0	As reported by Lessee	
9k	Scrutiny of Annual return on mining machineris	Excavator- 1.7 cum capacity 01 No., Excavator- 0.9 cum capacity- 1 No., Wheel Loader- 3.0 cum capacity- 1 no. Tippers- 25 Tonnes-3 No.	Excavator- 1.7 cum capacity 01 No., Excavator- 0.9 cum capacity- 1 No., Wheel Loader- 3.0 cum capacity- 1 no. Tippers- 25 Tonnes-3 No.	

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
Rule 45(7)	01/04/2022				
MCDR17 Rule 55(1)(3)	01/04/2022				

Date :

(SHRI IBRAHIM SARIF)

Indian Bureau of Mines