

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

**MCDR inspection REPORT**

**Hyderabad regional office**

**Mine file No :** AP/KNL/LST-217/HYD

**Mine code :** 38APR11194

- (i) Name of the Inspecting : **M017** ) **MANISH K MAINDIRATTA**  
Officer and ID No.
- (ii) Designation : Regional Controller Mines
- (iii) Accompanying mine : Jai Bharat Reddy & Others  
Official with  
Designation
- (iv) Date of Inspection : 26/11/2019
- (v) Prev.inspection date :

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NANDAVARAM-VENKATA MINE**
- (b) **Registration NO.** : **12134/2012**
- (c) Category : A Fully Mechanised
- (d) Type of Working : Opencast
- (e) Postal address
- State : ANDHRA PRADESH
- District : KURNOOL
- Village : NANDAVARAM & VENKATA
- Taluka : BANAGANAPALLI
- Post office : NANDAVARAM
- Pin Code : 518124
- FAX No. : 04023118000
- E-mail : crp.sjcpl@jothicement.com
- Phone : 04066929696
- (f) Police Station : BANAGANAPALLY
- (g) First opening date : 10/10/2018
- (h) Weekly day of rest : SUN
2. Address for : M/s. Sree Jayajothi Cements Pvt Ltd,  
correspondance Sri NAGAR, Yanakandla (v),  
Mandal: Banaganapalle,Dist.Kurnool.- 518124.
3. (a) Lease Number :
- (b) Lease area :
- (c) Period of lease :
- (d) Date of Expiry :
4. Mineral worked : LIMESTONE Main

## 5. Name and Address of the

Lessee : M/S.SREE JAYAJOTHI CEMENTS LTD  
KURNOOL ANDHRA PRADESH  
Phone:  
FAX :

Owner : Sri Chandra Shekher Pandey  
Srinagar, Yanakandla  
village,  
Mandal.Banaganapalli,Yanaka  
ndla, Dist.Kurnool.A.P.  
518124. KURNOOL ANDHRA  
PRADESH  
Phone:  
FAX :

Agent : Sri B.C.Gurivi Reddy  
M/s Sree Jayajothi Cements  
Pvt.Ltd Sri  
Nagar,Yanakandla(v),  
Mandal:Banaganapalle,Dist:K  
urnool. KURNOOL ANDHRA  
PRADESH  
Phone: 7660013042 (Mobile.No.)  
FAX :

## Mining Engineer

Name : M.Ujjinappa,Full Time  
Qualification : B.E.(Mining)  
Appointment/ : 10/10/2018  
Termination date

## Geologist

Name : P GANESH NARENDRA REDDY,Full Time  
Qualification : MSC GEOLOGY  
Appointment/ : 10/10/2018  
Termination date

## Manager

Name : M.Ujjinappa  
Qualification : B.E. (Mining)  
Appointment/ : 10/10/2018  
Termination date

6. Date of approval of Mining : MP under 16(1) of MCR 2016 13/03/2018  
Plan/Scheme of Mining : MP modif under 17(3) MCR 2016 18/12/2018

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	NIL	11 pits were made in the lease area by the lessee to bring it under G1 level of exploration.	the lease was granted under auction. entire lease area was explored at G2 level of exploration.
1b	Exploration over lease area for geological axis 1 or 2		Already entire lease area has been explored G1-23.359 ha. G2-NIL G3-NIL G4- NIL Non mineralised (mining amenities)- 1.38 hectare	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	NA	2.52lacs	
1d	Balance area to be explored to bring Geological axis in 1 or 2		NIL	However a few pilot holes to probe the underneath geology and it's quality may be done as part of conceptual exploration.
1e	Balance reserve as on 01/04/20	Reserves (111/121/122) as on 10/11/2018= 1.44 million tonnes. Remaining resource (221)= 0.56 million tonnes	Reserves (111/121/122) as on 10/11/2018= 1.44 million tonnes. Depletion (10/11/2019 to 31/3/2019)= 0.226 million tonnes. balance reserves= 1.214 million tonnes Remaining resource (221)= 0.56 million tonnes	mine opened on 10/10/2018.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	two pits were proposed at location E203568-205727 & N1700480-1700750	two pits developed as proposed. These two pits are separated by a kachcha road.	

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	separate top soil working required as per rule.	top soil being worked separately from mineralised zone.	
2c	Stripping ratio or ore to OB ratio	No Overburden generation anticipated.	NO OB generated.	Depth of tuffaceous Limestone mineralisation is 6-7 m only followed by Narji limestone . Mining is proposed upto tuffaceous limestone.
2d	Quantity of topsoil generation in m3	15000+22161 cu m=37161 cu m	32522 cu m generated in 2018-19. 21522 cu m stacked and 11000 cu m utilised	
2e	Quantity of overburden generation in m3	Nil	Nil	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc		The pits are separated by a kutchcha road which is passing through the lease area. The diversion of this road could lead to utilisation of blocked mineral in between two pits , in the interest of optimum utilisation of the mineral. lessee has been advised accordingly in the field.	

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### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	two	two	
3b	Quantity of ROM mineral production proposed	0.03 million tonnes	4006 T of mineral reject + 295994 for LST= 3 lac tonnes of ROM produced and utilised.	
3c	Recovery of sailable/usable mineral from ROM production	100%	Though 4006 T of weathered mineral reject was reportedly generated bu the same has been consumed after blending with the high grade mineral.	

3d	Quantity of mineral reject generation	NIL	Though 4006 T of weathered mineral reject was reportedly generated but the same has been consumed after blending with the high grade mineral.
3e	Grade of mineral rejects generation and threshold value declared.		The grade was reportedly not directly feedable for cement making. Hence blended and utilised.
3f	Quantity of sub grade mineral generation.	No subgrade generation proposed	NIL generated. The 4006 T of weathered LST generated as mineral reject was consumed after blending with the high grade mineral.
3g	Grade of sub grade mineral generation	Not Applicable.	Not Applicable
3h	Manual / Mechanised method adopted for segregating from ROM		manual segregation on the basis of visual difference between the weathered LST and other.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	--	NIL
3j	Provision of drilling and blasting in mineral benches	No proposal	Not done
3k	Provision of mining machineries in mineral benches	Excavator-Tipper combination proposed for this kind of mineralisation	Undertaken accordingly.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM		Boom height of the machine being used is suitable for the proposed bench height.

3m	Total area covered under excavation/pits	cumulative area under excavation proposed at the end of 2018-19 =3.276 hectare	cumulative area reportedly under excavation at the end of 2018-19= 3.3 hectare About 4 hectare area is under excavation at present.
3n	Ore to OB ratio for the pit/mine during the year.	Nil	Nil
3o	Total area put in use under different heads at the end of year		Area under excavation 3.3 ha. undr roads and infra structure- 0.157 ha.
3p	Production of ROM mineral during the last five year period as applicable	2018-19- 3 lac tones	2018-19= 3 lac Tonnes
3q	General remarks of inspecting officers on method of mining etc.		----

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Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate dumping of topsoil proposed along with it's simultaneous backfilling for reclamation and rehabilitation purpose.	being done accordingly.	
4b	Location of topsoil, OB and mineral reject dumps	Proposal (as per plate)- N1700700- N1700500, E 205690-205850	Top soil is stacked between N1700700- N1700500, E 205690-205850 The max height of dump is 6 m and it is also used for reclamation between gridlinesN1700650-1700750, E 205450-205590	
4c	Number of dumps within lease area and outside of lease area	2 (Two)	2 continuous dump.	

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	the dumps are within UPL.	Dumps are within UPL proved for presence of mineralisation.	The dump may be used for land grading and subsequent development of vegetation in pit-1.
4e	Number of active and alive dumps.	1 top soil stack proposed.	2 adjacent top soil stacks	
4f	Number of dead dumps.	NIL	NIL	
4g	Number of dumps established.	1	2 numbers	Instead of one long dump it has developed two small dumps in the same area.
4h	Whether Retaining wall or garland drain all along dumps are there.	No proposal	Not done accordingly.	The top black cotton soil dump need to be used for rehabilitation of the ground.
4i	Length of Retaining wall or garland drain all along dumps	NA	NA	
4j	Number of settling ponds	NIL	NIL	
4k	Specific comments of inspecting officer on waste dump management		The top soil stack should be used for plantation quickly	

#### 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.	excavation has been proposed upto the complete depth of mineralisation	Being done accordingly.	
5b	Area under backfilling of mined out area	No proposal for backfilling was there in the first year	However the work has been started in the first bench over 0.5 hectare area approximately.	

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No proposal was there in the first year	Not done	top soil is partly stacked and used for planatation asobserved during the inspection.
5d	Total area fully reclaimed and rehabilitated	NIL	NIL	
5e	General remarks of inspecting officers on backfilling and reclamation etc.			

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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).	as per rule 26(2) of MCDR 2017.	submitted	
6b	Area available for rehabilitation (ha) .	No rehabilitation proposed in 2018-19	Not done accordingly.	About 1 hectare pit is available for the purpose at present
6c	afforestation done (ha).	No proposal of planatation over rehabilitated benches in the year 2018-19	Not done accordingly.	
6d	No. of saplings planted during the year	No proposal of planatation over rehabilitated benches in the year 2018-19	Not done accordingly	
6e	Cumulative no .of plants	No proposal of planatation over rehabilitated benches in the year 2018-19	NIL in 2018-19	
6f	Any other method of rehabilitation	---	----	
6g	Cost incurred on watch and care during the year	No proposal	Not done.	



6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	No proposal for backfilling in the year 2018-19	Not done. However presently about 0.5 hectare area is being backfilled. for reclamation and rehabilitation.
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No proposal for backfilling in the year 2018-19	Not done in 2018-19
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No proposal for backfilling in the year 2018-19	Afforestation not done over reclaimed and rehabilitated area.
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Not done as pit is not mature for converting it in water reservoir at present.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	----	----
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	185 saplings over 0.2179 ha in the 7.5m buffer zone.	Only 38 saplings have been planted in 2018-19 . However in 2019-20 lessee has already completed the backlog of planatation . It has planted 426 saplings in the 7.5m buffer zone.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	185 saplings over 0.2179 ha in the 7.5m buffer zone.	undertaken in 2019-20.
6p	Compliance of environmental monitoring (core zone and buffer zone)	proposed	done accordingly.

## Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	No proposal	Mineral soorting is not required in the lease area	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	No proposal	Not required and not done. Whatever weathered mineral is generated in the ore zone, is utiliused simultaneously.	
7c	Different grade of mineral sorted out at mines.	NA	NA	
7d	Any beneficiation process at mines .	NA	NA	
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues		---	

## Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	Proposed	being undertaken accordingly.	
8b	Concurrent use or storage of topsoil	no proposal in 2018-19	not ne in 2018-19. However stacking and utilisation is being done now.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	No OB is there	No OB is there	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No Oproposal	No OB is there in the lease.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	no proposal is there for 2018-19	Not done in 2018-19	phsed reclamation is being undertaken now..
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	185 saplings were proposed in 2018-19.	Only 38 saplings have been planted in 2018-19. In the year 2019-20 426 saplings have been planted	
8g	Survival rate	---	65%	
8h	Water sprinkling on roads to control airborne dust	Proposed	Being done to suppress air dust.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	---	Area in general is flat. After excavation the general ground level will be lowered by about 6m. After part backfilling and reclamation, the part area will still be available as a water reservoir for the future.	

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Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	MR submitted upto Oct 2019 AR submitted upto upto 2018-19	as per submission	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mining Engineer M Ujjinappa Geol- P Ganesh Narendra Reddy	As per submission.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area broken 3.3 ha. Infra road et- 0.157 hectare Green belt- 0.05hectre	during observation area degraded is found to be more than the submission	

9d	Scrutiny of Annual return on afforestation	38 saplings planted	As of now afforested area and saplings is more than the submission.	
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	Nil reported	4006 T of mineral reject generation reported but it has been consumed simultaneously in the same year.	3lac tonned of ROM includes the 4006 T of mineral reject.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM 3 lac tonnes reported	As per submission	
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	CoP-254 Rs PMT and Ex Mine Price is also Rs 254/- PMT	Transportation cost from mine to crusher which is at about-7-8 km is also included in the Ex mine price.	
9h	Scrutiny of Annual return on fixed assets		---	
9k	Scrutiny of Annual return on mining machineries	submitted	As per submission	

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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
Rule 45(7)	03/12/2019				

**Date :**

**(MANISH K MAINDIRATTA)**

Indian Bureau of Mines