INDIAN BUREAU OF MINES
MINERALS DEVELOPMEMT AND REGULATION DIVISION

MCDR INSPECTION REPORT

Hyderabad regional office

Mine file No : AP/KNL/LST-190/HYD **Mine code : 38APR11130**

(i) Name of the Inspecting Officer and ID No. : **RA15) Rajesh Kumar Das**

(ii) Designation : Assistant Controller Mine

(iii) Accompaning mine Official with Designation : SHRI S.R.BOSE, MINES MANAGER

(iv) Date of Inspection : 04/02/2016

(v) Prev.inspection date : 28/07/2014

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **JSW LIMESTONE MINE**

(b) Registration NO. :

(c) Category : A Mechanised

(d) Type of Working : Opencast

(e) Postal address

State : ANDHRA PRADESH
District : KURNOOL
Village : BILAKALAGUDUR
Taluka : GADIVEMULA
Post office : GADIVEMULA
Pin Code : 518508
FAX No. :
E-mail :
Phone : 08514202304,202305

(f) Police Station : Gadivemula

(g) First opening date : 01/04/2008

(h) Weekly day of rest : SUN

2. Address for correspondance : Bilakalgudur village,
Gadivemula Mandal
Kurnool district.

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 : JSW CEMENTS
403, SAI RAM ENCLAVE
SRINIVAS NAGAR NANDYAL
KURNOOL ANDHRA PRADESH
Phone:
FAX :

Owner : RAJIV DUBE
ADITYA BIRLA CENTRE, SK
AHIRE MARG, WORLI MUMBAI
(SUBURBAN) MAHARASHTRA
Phone:
FAX :

Agent : G.Veerababu
Village:Bilakalagudur
P.O.:Gadivemula Kurnool
KURNOOL ANDHRA PRADESH
Phone: 08514202304
FAX :

6. Date of approval of Mining Plan/Scheme of Mining	:	Fresh under rule 22 MCR1960	16/10/2007
		Modif.of approved Mining Plan	02/12/2008
		Modif.of approved Mining Plan	21/08/2012
		Mining Scheme rule 12 MCDR1988	07/10/2013

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	52 Nos core bore holes	69 nos core bore holes	---
1b	Exploration over lease area for geological axis 1 or 2	G1	G1	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	40	51.75	
1d	Balance area to be explored to bring Geological axis in 1 or 2			
1e	Balance reserve as on 01/04/20		5681355 MT	
1f	General remarks of inspecting officers on geology, exploration etc			

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	N 1352 to N 1800 & E 1814 to E 2200, N389 to 846 & 1000 to 1600. 245 RL to 228 RL.	N 1352 N 1800 & E 1680 toE 2070, N 700 to N 846 & E 1760. 245 RL to228 RL.	---
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	NA	NA	
2c	Stripping ratio or ore to OB ratio	1:0.021	1:0.98	
2d	Quantity of topsoil generation in m3	NIL	NIL	
2e	Quantity of overburden generation in m3	43539	79511	

2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	The limestone deposit is mostly cement grade limestone but in some area silica is above cutoff.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	1 & 2(two pits)	1 & 2(broadly as per proposal)	Due the production is less than proposal excavation is also less.
3b	Quantity of ROM mineral production proposed	4708289 MT	1863877 MT	
3c	Recovery of sailable/usable mineral from ROM production	4472875 MT	1681758 MT	
3d	Quantity of mineral reject generation	100140 MT	182876 MT	
3e	Grade of mineral rejects generation and threshold value declared.	Sio2 more than 18%	Sio2 more than 18%	
3f	Quantity of sub grade mineral generation.	235414 MT	182119 MT	
3g	Grade of sub grade mineral generation	Sio2 17-18%	Sio2 17-18%	
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised.	Only by excavation the material is stacked seperately,no other method for segregation.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	N A	NA	

3j	Provision of drilling and blasting in mineral benches	YES	YES	
3k	Provision of mining machineries in mineral benches	YES(Deep hole drilling blasting)	YES as per proposal.	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	8 METERS bench height.	7-8 METERS meter bench height in mineral as proposed and it is suitable for present method of mining.	
3m	Total area covered under excavation/pits	39.16 Ha.	40.71 ha.	Waste/subgrade generation more.
3n	Ore to OB ratio for the pit/mine during the year.	1:0.021	1:0.098	
3o	Total area put in use under different heads at the end of year	---	55.87	
3p	Production of ROM mineral during the last five year period as applicable	19073426 MT	7322866 MT	
3q	General remarks of inspecting officers on method of mining etc.	----	---	

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	YES	YES	
4b	Location of topsoil, OB and mineral reject dumps	North side of the mining area	North side of the mining area and west side of the lease area.	
4c	Number of dumps within lease area and outside of lease area		3 nos dumps.	Within lease area.

4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)		West side of ML and small dump in east direction.	
4e	Number of active and alive dumps.		3 nos dump.	
4f	Number of dead dumps.	Nil	Nil	
4g	Number of dumps established.	Nil	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there.		Garland drain all along dumps present.	
4i	Length of Retaining wall or garland drain all along dumps		Garland drain lenth is 495 meters.	
4j	Number of settling ponds	Nil	Nil	
4k	Specific comments of inspecting officer on waste dump management	---	The waste material is dump properly.	The subgrade dump material is blend with the material and feed in crusher small amount

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.	N A.	N A.	
5b	Area under backfilling of mined out area	N A.	N A.	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	N A.	N A.	
5d	Total area fully reclaimed and rehabilitated	N A.	N A.	

5e	General remarks of inspecting officers on backfilling and reclamation etc.	N A.	N A.

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).		Submitted.	
6b	Area available for rehabilitation (ha) .		i). ii)	
6c	afforestation done (ha).		66.71 ha.	
6d	No. of saplings planted during the year		3370. 9865 in plant area.	
6e	Cumulative no .of plants		32523, and in plant area 25245 NOS.	
6g	Cost incurred on watch and care during the year		Rs 36 lac / Annum..	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D		N A.	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings		N A.	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on backfilled area		N A.	

6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir		N A.
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	NA	N A.
6m	Compliance of rehabilitation of waste land within lease (i)afforestation		1000 Saplings in first two years.
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)		N A.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation		Afforestation and green belt development.
6p	Compliance of environmental monitoring (core zone and buffer zone)	Quaterly monitoring	As per proposal
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	NA	NA	

7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	NA	NA
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		There is no beneficiation done in ML area ,mostly the ROM is feed in the crusher and in some area where silica is above thershold the material is stack and the same blend with other high grade and feed in crusher fot cement manufacturing.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	2760 tons of topsoil.	Top soil is of small quantity and used for affoerstation.	
8b	Concurrent use or storage of topsoil	Proposed for used for plantation.	Top soil is of small quantity and used for affoerstation.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	6.00 ha. area is earmarked for waste dumping.	Yes	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	NA	NA	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	NA	NA
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)		85781 nos saplings.
8g	Survival rate	Not mentioned.	75%
8h	Water sprinkling on roads to control airborne dust	Water tanker of 8 kl is proposed for water spraying to control dust.	Yes
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area		No adverse impact observed on aestheticc beauty due to mining.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	Monthly Rreturns Submitted upto Jan. 2016. Annual Return Submitted upto 2014-15.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Yes information given.		
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	pit-42.3 ha.,274.76 ha. plant,iother nfrastructure and roads,6.2 ha. dump.		

9d	Scrutiny of Annual return on afforestation	2014-15 plantation done 3370 nos of sapling.
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	182876 MT
9f	Scrutiny of Annual return on ROM stock and/or graded ore	874205 MT
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex.Mine price & cost of production 138.42 Rs
9h	Scrutiny of Annual return on fixed assets	Fixed asset value given Rs 365956/-
9k	Scrutiny of Annual return on mining machineries	Mining machineries details given

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 :

(**Rajesh Kumar Das**)

Indian Bureau of Mines