INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

Review and updation of Mining Plan REPORT

Hyderabad regional office

	Mine :	file No : AP/KSN/LST-3	L5/1	HYD	Mine	code	: 3	8APR100	15
	(i)	Name of the Inspecting Officer and ID No.	:	MQ01) S K MUDULI					
	(ii)	Designation	:	Junior Mining Geologis	t				
	(iii)	Accompaning mine Official with Designation	:	Sri Jani Reddy, Rep. o:	f Lessee				
	(iv)	Date of Inspection	:	22/11/2019					
	(v)	Prev.inspection date	:						
		PA	RT-	I : GENERAL INFORMATI	ON				
1.	(a)	Mine Name	:	JAYANTHIPURAM MS NO 72	1				
	(b)	Registration NO.	:	IBM/638/2011					
	(c) (d) (e)	Category Type of Working Postal address State District Village Taluka Post office Pin Code FAX No. E-mail Phone		A Mechanised Opencast ANDHRA PRADESH KRISHNA JAYANTHIPURAM JAGGAYYAPET KUMARASWAMYRAJA NAGAR 521457 08654-222532 mcljpm@madrascements.c 08654-224400 to 09	co.in				
	(f)	Police Station	:	CHILLAKALLU					
	(g)	First opening date	:	16/05/1986					
	(h)	Weekly day of rest	:	SUN					
2.		ess for espondance	:	JAYANTIPURAM LIMESTONE JAYANTIPURAM, CHILLAKAN KRISHNA DIST.					
3.	(a) (b) (c) (d)	Lease Number Lease area Period of lease Date of Expiry	:	APR0125 18.64 20 19/08/2011					
4.	Miner	ral worked	:	LIMESTONE	Main				

5.	Name and Address of	the		
	Lessee	:	THE RAMCO CEMENTS LTD KUMARASWAMY RAJANAGAR JAGGAYAPET MANDAL KRISHNA ANDHRA PRADESH Phone:08654-224400 FAX :08654-222532	
	Owner	:	P.R.VENKATRAMA RAJA AURAS CORPORATE CENTRE, Vth FLOOR, Dr.RADHAKRISHNA ROAD,MYLAPORE, CHENNAI CHENNAI CITY TAMIL NADU Phone: 044-28478666 FAX : 044-28478676	
	Agent	:	P JANI REDDY KUMARASWAMY .RAJA.NAGAR, JAYATNTHIPURAM KRISHNA DISTRICT KRISHNA ANDHRA PRADESH Phone: 08654-224400 FAX : 08654-222532	
	Mining Enginee	er		
		:	KHAJA ASHRAF ALI,Full Time	
	Qualification	:	B.E(Mining)	
	Appointment/ Termination da	:		
	Geologist			
	Name	:	P.SURYANARAYANA MURTHY,Full Time	
	Qualification	:	M.Sc	
	Appointment/ Termination da		11/06/1992	
	Manager			
	Name	:	S.VENKATESWARA REDDY	
	Qualification	:	FCC	
	Appointment/ Termination da	: ite	01/08/2017	
6.	Date of approval of Plan/Scheme of Minin		ing : Renewal under rule 22 MCR1960 Modif.of approved Mining Plan	13/0 18/0

:	Renewal under rule 22 MCR1960	13/05/2002
	Modif.of approved Mining Plan	18/06/2003
	Renewal under rule 24 MCR1960	07/04/2006
	Modif.approved Mining Scheme	17/10/2014
	MP modif under 17(3) MCR 2016	22/09/2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	There was no proposal for exploration duirng 2018- 19	No exploration carried out duirng 2018-19	_
1b	Exploration over lease area for geological axis 1 or 2	None	None	Gl area 156.54 Ha and the remaining area is non mineralized area
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None	None	None
ld	Balance area to be explored to bring Geological axis in 1 or 2	None	None	None
1e	Balance reserve as on 01/04/20		36.34 Million tonnes	-
lf	General remarks of inspecting officers on geology, exploration etc	_	_	The total potentially minerilised area is covered under G1 scale of exploration.The lease area is slightly undulating with dip of 12-15 degrees.

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	proposed to work between E405600-	as per the proposals submitted in the apptroved mining plan.	_

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	benches in OB	Two benches in OB with a height of 8 meters observed duirng inspection.	3 no's of Benches Over Burden and 3 no's of Benches Limestone
2c	Stripping ratio or ore to OB ratio	018 to 31.08.2018) 1:0.83(01.09.2 018 to	1:0.69 (For Period	
2d	Quantity of topsoil generation in m3	No proposal was there in 2018-19.	No topsoil was generated duirng the year 2018-19	-
2e	Quantity of overburden generation in m3	639362 m3	375970 m3	-
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	-	-	The Mining operations are being carried out by way of opencast,fully mechanised method.There are two pits.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	It was proposed to work in one pit	During the inspection it was observed that excavation is being carried out in single pit only	
3b	Quantity of ROM mineral production proposed	1875300 tonnes	1778440 tonnes	-
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	Captive Consumption
3d	~	62900cu.m 157250 tonnes	26956 m3 67390 tonnes	
3e	Grade of mineral rejects generation and threshold value declared.	SiO2/ CaO% between	Threshold Value Declare- CaO%>34% and MgO%<5% Above 18% SiO2 Below 40% CaO	

3f	Quantity of sub grade mineral generation.	Not applicable	Not applicable	
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	-
3h	Manual / Mechanised method adopted for segregating from ROM	No segregation of ore is required. Hence, not proposed.	Not applicable	Not carried out
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Nil	Nil	-
3j	Provision of drilling and blasting in mineral benches	115 mm dia crawler mounted drilling machine, Spacing=4 m. Burden=3 m. Depth=8 m.	During the inspection the same was observed.	
3k	Provision of mining machineries in mineral benches	Type of Machinery Capacity of each unit Backhoe Excavators 2.0 Cu.m Tippers 20 MT Cabin Drills 115 mm dia., 550 cfm (air compressior) Bull Dozer 320HP Water ranker 10 KL Jeep	Type of Machinery Capacity of each unit Backhoe Excavators 2.0 Cu.m Tippers 20 MT Cabin Drills 115 mm dia., 550 cfm (air compressior) Bull Dozer 320HP Water ranker 10 KL Jeep	During the inspection, it was observed that wagon drills, dumpers & excavators are being used for drilling, loading & transportation of ore to crushing plant.
31	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 8 meters	During the inspection it was noticed that the bench height is being maintained below 8 m and digging height of the excavators are compatible with bench height as per MMR, 1961	-
3m	Total area covered under excavation/pits	90.88 Ha.	90.50На.	

are being used.

3n Ore to OB ratio 1:0.47(01.04.2 1:0.35 (For Period for the pit/mine 018 to 01.04.2018 to during the year. 31.08.2018) 31.08.2018) 1:0.83(01.09.2 1:0.69 (For Period 018 to 01.09.2018 to 31.03.2019) 31.03.2019) Total area put 161.85 Ha. 160.97 Ha. 30 in use under different heads at the end of year Production of 2014-15 - 1.40 2014-15 - 0.85 million Зp ROM mineral million tonnes tonnes during the last 2015-16 - 1.39 2015-16 - 0.63 million five year period million tonnes tonnes as applicable 2016-17 - 1.34 2016-17 - 0.79 million million tonnes tonnes 2017-18 - 1.41 2017-18 - 1.40 million million tonnes tonnes 2018-19 - 1.87 2018-19 - 1.77 million million tonnes tonnes 3q General remarks There is no of inspecting deviation in the officers on production of method of mining mineral during the etc. year 2018-19. Mechanised opencast mining method has been adopted with deep hole drilling and blasting techniques for ore fragmentation. For loading & haulage, Hydraulic excavators, backhoe & dumpers

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate waste dumps are proposed	OB and Mineral Reject dumps are maintained separately	-

4b	Location of topsoil, OB and mineral reject dumps	OB Dump-1: E405400 to E405800 & N1866100 to N1865700 OB Dump-2: E 406400 to E406900 and N1864900 to N1865500 OB Dump-3 : E405400 to E405900 and N1866100 to N1865700 Mineral Reject dump-4 : E406100 to E406400 and N1865350 to N1865650	Three active and one inactive dumps were observed during the inspection. The passive dump was stabilised with plantation.	Dump-1: E405400 to E405800 & N1866100 to N1865700(Being Rehandled) Dump-2:E 406400 to E406900 and N1864900 to N1865500 Dump-3 : E405400 to E405900 and N1866100 to N1865700 Mineral Reject dump-4 :E406100 to E406400 and N1865350 to N1865650
4c	Number of dumps within lease area and outside of lease area	4 dumps within lease area	4 dumps within lease area	No dumps are there in outside ML area
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Out side the UPL	Out side the UPL	-
4e	Number of active and alive dumps.		3 active and 01 inactive	
4f	Number of dead dumps.	01	01	-
4g	Number of dumps established.	1	1	-
4h	Whether Retaining wall or garland drain all along dumps are there.	Yes	Retaining wall was constructed	-
4i	Length of Retaining wall or garland drain all along dumps	3600 m x 2 x 1.5 m(Retaining Wall)	3838 x 2 x 1.5m(Retaining Wall) 2657m*2m*1.5m(Garland Drain)	-
4j	Number of settling ponds	None	None	-
4k	Specific comments of inspecting officer on waste dump management	-	-	One inactive dump was established.

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.	it was proposed to backfill the mined out area duirng the year 2018- 19.it was proposed to backfill 0.68 ha.	1 ha was backfilled duirng 2018-19	-
5b	Area under backfilling of mined out area	0.68 ha proposed for backfilling duirng 2018- 19.	1 ha partially backfilled duirng 2018- 19	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	The OB generated is proposed to be used in backfiling	The same was observed duirng the inspection.	-
5d	Total area fully reclaimed and rehabilitated		Till 31.3.2019 a total of 12.91 ha has been partially backfilled.	Earlier 3.40ha. has been back filled followed by Plantation
5e	General remarks of inspecting officers on backfilling and reclamation etc.	-	-	About 12.91 ha has been partially backfiled over the area.

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
ба	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	It was proposed to submit all the statutory returns on time.	Submitted in time	-
6b	Area available for rehabilitation (ha) .	_	1.00Ha area partially backfilled from 35 RL to 45RL and 35RL to 15 RL	
бс	afforestation done (ha).	0.70Ha	1.63На	Plantation done at other virgin area

6d	No. of saplings planted during the year	1000 (2018-19)	1780 (2018-19)	-
бе	Cumulative no .of plants		140067 Nos	Survival 118790 nos as reported.
6f	Any other method of rehabilitation	Not proposed	Nil	-
бg	Cost incurred on watch and care during the year		Rs.2,71,000/-	Included Labour. Water, Saplings cost and Maintenance
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D		105m X 65m X 15m	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Not applicable	Not applicable	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area			Appx. Back filleAd -Level 35 RL to 45RL and 35 RL to 15 RL
бk	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No proposal	Nil	
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No proposal	Nil	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	No Proposal	Nil	-

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No proposal	Nil	_
60	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No proposal	Nil	_
бр	Compliance of environmental monitoring (core zone and buffer zone)	It was proposed to carry out environmental monitoring in core and buffer zone every quarter.	being carried out regularly and all the parameters are within	An expenditure of Rs.4,75,000/- incurred during 2018-19
6q 	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	-	_	The proposal made in the PMCP for plantation and environmental monitoring are being carried out regularly.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	proposal for gradewise	Total ROM being consumed in the captive plant of lessee.	_
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	No proposal.	Nil	-
7c	Different grade of mineral sorted out at mines.	No proposal.	Nil	-
7d	Any beneficiation process at mines	No proposal.	Nil	-

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)	generation of	Nil	_
8b	Concurrent use or storage of topsoil	No proposal.	Nil	-
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate dumping for waste rock and Mineral reject proposed.	Separate dumping being carried out	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	It was proposed to use the OB generated for backfilling	The OB generated is being used for backfilling the mine out area	_
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	0.68 ha during 2018-19	1.00 ha of partially backfilling during 2018- 19 was carried out.	_
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	It was proposed to plant about 1000 saplings during the year 2018-19	Besides, plantation done by lessee, few shrubs are observed in the mining lease area. During the year about 1780 saplings were planted by the lessee.	_
8g	Survival rate	85%	85%	-

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As on date of inspection benefication is not warranted. 8h Water sprinkling It was One mobile water on roads to proposed to sprinkler and permanent control airborne carry out water sprinklers is dust control of deployed for dust dust suppression on haul generation by roads using water sprinklers 8i General remarks Separate OB dumps _ _ of inspecting are proposed and officer on phase wise aesthetic beauty reclamation is in and around being carried out. mines area For dust suppression water sprinkling carried out.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	To be submitted timely.	In timely submitted	-
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager		As per the Annual return 2018-19, it was ereported that Sri p Vidya Kiran is the Mining Engineer and Sri P Suryanarayana Murthy is the Geologist.	_
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.		Covered under current workings: 90.50Ha. Used waste disposal: 36.61Ha. Occupied by Plants and buildings &Roads:20.63Ha. Others(GBD) :63.82 Ha.	-
9d	Scrutiny of Annual return on afforestation	1780 Nos of plants	1780 Nos of plants	-
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	104625MT	104625MT (41850 m3)	-
9£	Scrutiny of Annual return on ROM stock and/or graded ore	-	As per the Annual return 2018-19 the total ROM was reported as 1.77 Million tonnes	

99	Annual return on	Cost-Rs 184.07 Ex Mine Price:	Production Cost-Rs 184.07 Ex Mine Price: Rs.184.07	-
9h	Scrutiny of Annual return on fixed assets	_	As per annual return 2018-19 the value of fixed assets reported was Rs.200202638.00.	-
9k	Scrutiny of Annual return on mining machineries		Hydraulic Shovel - 3 No.s Dozer - HP 1No.s Air compressor - 12.75 Cu.meters -1 water tanker - 10000 litre- 1 no. Wagon drill- 115mm dia - 1 no. Backhoe 2.10 cum-3 no.s Dumpers-10 no.s	

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