

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

**MCDR INSPECTION REPORT**

**Bangalore regional office**

**Mine file No :** KNT/GLB/LST/7/BNG

**Mine code :** 38KAR10012

- (i) Name of the Inspecting : P005 ) C.PARAMESHWARAN  
Officer and ID No.
- (ii) Designation : Deputy Controller Mines
- (iii) Accompanying mine : Shri K.B. Verma. GM Mines  
Official with  
Designation
- (iv) Date of Inspection : 15/10/2015
- (v) Prev.inspection date : 12/02/2015

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : WADI - I
- (b) **Registration NO.** :
- (c) **Category** : A Fully Mechanised
- (d) **Type of Working** : Opencast
- (e) **Postal address**
- State : KARNATAKA
- District : GULBARGA
- Village : WADI
- Taluka : CHITTAPUR
- Post office : WADI
- Pin Code :
- FAX No. : 08476-202190
- E-mail : mines\_wd@accement.com
- Phone : 08476-202293
- (f) **Police Station** : Chittapur
- (g) **First opening date** : 09/08/1966
- (h) **Weekly day of rest** :
2. **Address for correspondance** : SRI. KULDIP KAURA, MD & OWNER,  
ACC LIMITED, CEMENT HOUSE,  
121, MAHARSHI KARVE ROAD, MUMBAI - 400020.
3. (a) **Lease Number** : KAR0074
- (b) **Lease area** : 471.03
- (c) **Period of lease** : 20
- (d) **Date of Expiry** : 18/02/2023
4. **Mineral worked** : LIMESTONE Main  
CLAY (OTHERS) Associated  
SHALE Associated

## 5. Name and Address of the

Lessee : ACC Limited  
WADI CEMENT WORKS, WADI  
[P.O], GULBARGA, GULBARGA  
KARNATAKA  
Phone:08476-62411  
FAX :08476-62190

Owner : KULDIP KAURA  
121, MAHARSHI KARVE RD,  
CHURCH GATE MUMBAI MUMBAI  
(SUBURBAN) MAHARASHTRA  
Phone:  
FAX :

Agent : DR.S.B.SINGH  
DIRECTOR (PLANT), WADI  
CEMENT WORKS WADI, GULBARGA  
GULBARGA KARNATAKA  
Phone:  
FAX :

## Mining Engineer

Name : ARUN KUMAR,Full Time  
Qualification : B.E ( MINING)  
Appointment/ : 27/11/2008  
Termination date

## Geologist

Name : JAGDISH MADIVAL,Full Time  
Qualification : M.Sc ( GEOLOGY )  
Appointment/ : 05/07/2013  
Termination date

## Manager

Name : KUNJ BEHARI VERMA  
Qualification : B.E ( MINING )  
Appointment/ : 16/09/2012  
Termination date

6. Date of approval of Mining Plan/Scheme of Mining	:	Existing rule 11 MCDR1988	28/06/1990
		Modif.of approved Mining Plan	10/06/1993
		Mining Scheme rule 12 MCDR1988	12/10/1994
		Mining Scheme rule 12 MCDR1988	08/03/2000
		Renewal under rule 22 MCR1960	16/06/2003
		Mining Scheme rule 12 MCDR1988	20/10/2008
		Mining Scheme rule 12 MCDR1988	24/09/2013

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

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No proposals as such for the year 2015-16, except 2016-17 and backlog for the previous years.	actual drilling undertaken in the last approval document period.	for last approval, lessee company drilled 13 core, 10 CCS & 53 DTH boreholes with cumulative meterage 1897.50m.
1b	Exploration over lease area for geological axis 1 or 2	proposed in the year 2016-17 for 25 nos. of holes.	during the year 2015-16, no exploratory work.	nil
1c	Exploration Agencies and Expenditure in lakh rupees during the year	not given details of the agency.	none.	nil
1d	Balance area to be explored to bring Geological axis in 1 or 2	proposed almost in the periphery of the ML area and some in between the lease area.	during the year 2016-17.	nil
1e	Balance reserve as on 01/04/20	from the last approved document it is given as 91.1 Million tonnes.	after undertaking 1897.50 metrage drilling before 2013-14.	nil
1f	General remarks of inspecting officers on geology, exploration etc	lessee company proposed for the existing situations.	as per the last approval and the geological plan it is very clear that the exploration almost major area completed.	yes satisfactory from the geological plan.

## Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	Out of three blocks, namely 1,2 & 3 blocks, work is proposed in all the three blocks.	yes three blocks work is in progress, in block - 3, some pits were converted to sump for storage of water.	Majority of the area is covered with pits, sump and dumps. All the boundary pillars are intact and observed during the field inspection.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	yes separate benches were proposed in the approved documents.	yes as per approved documents it is being followed.	yes developed.
2c	Stripping ratio or ore to OB ratio	1:0.07	1:0.09	as above from the production it was observed.
2d	Quantity of topsoil generation in m3	12000 m3for 2014-15	7000 m3	less than what is proposed.
2e	Quantity of overburden generation in m3	354900 m3	350000m3	almost near the proposals.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	appropriate proposals made.	as per the approved document, the development is in progress.	yes development is satisfactory.

### Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	one pit	one pit	as reported for the year 2014-15, but for the year 2015-16 it is two pits.
3b	Quantity of ROM mineral production proposed	77,18,000t	54,74,760t	within the proposals, but less than the target.
3c	Recovery of sailable/usable mineral from ROM production	1005	100%	as above.
3d	Quantity of mineral reject generation	nil	nil	nil

3e	Grade of mineral rejects generation and threshold value declared.	as per IBM thershold value & cut off grade is 34% Cao issued by CCOM's circular no.3/2010.	no mineral reject, execept waste of OB. same is followed in the mine and the reserve estimation made as it is.	Yes no mineral rejects. OB is ist layer above limestone.
3f	Quantity of sub grade mineral generation.	12,80,000t	7,75,422t	within the limit.
3g	Grade of sub grade mineral generation	cement grade	cement grade	cement grade
3h	Manual / Mechanised method adopted for segregating from ROM	mechanised	mechanised	yes mechanised only.
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	nil	nil	nil
3j	Provision of drilling and blasting in mineral benches	Hydraulic drill, Atlas copco/ RCO-L8- 115mm dia, 30m/h	Hydraulic drill, Atlas copco/ RCO-L8- 115mm dia, 30m/h same is used for drilling holes.	as per the proposals it is used in the mine.
3k	Provision of mining machineries in mineral benches	excavator 4.5cum to 7 cum capacity., various companies were in use.	same machineries are in use at the benches for developemnt & productions.	yes it is used in the mine workings.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	6-9m bench height is suitable in ore & waste benches.	the proposed bench height and wide width of the bench is suitable and it is practiced.	it is suitable.
3m	Total area covered under excavation/pits	230 HA	227.60 HA	As per the date of inspection, the area put to use at the start of the mine after the approval was 219.87 ha
3n	Ore to OB ratio for the pit/mine during the year.	1:0.07	1:0.09	slightly more than the planned or approved ratio.

3o	Total area put in use under different heads at the end of year	345.00 ha	344.97 ha.	end of the year 2015-16.
3p	Production of ROM mineral during the last five year period as applicable	2010-11=77,20,000t, 12,80,000t ( shale) 2011-12=77,20,000t, 12,80,000t ( shale) 2012-13=77,20,000t, 12,80,000t ( shale) 2013-14=77,20,000t, 12,75,750t ( shale) 2014-15=77,20,000t, 12,76,650t ( shale)	2010-11=43,64,691t, 5,58,603t ( shale) 2011-12=58,58,544t, 8,25,027t ( shale) 2012-13=52,11,041t, 5,46,026t ( shale) 2013-14=50,53,025t, 6,70,136t ( shale) 2014-15=54,74,760t, 7,75,422t ( shale)	From the five years production it is clear that , not one year the desired producton could be achieved in the mine.
3q	General remarks of inspecting officers on method of mining etc.	yes proposed for systematic workings.	carrying out systematic workings, but at places, the orientation and alignments were not maintained.	over all staisfactory development.

#### 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 proposed.	yes separate dumping is being carried out in the mine.	yes separate dumping is being followed.
4b	Location of topsoil, OB and mineral reject dumps	proposed in the approved mining scheme on the periphery of the area.	as per the approved document, top soil, are stacked as usual in the specified area.	yes it is placed in the specified place, all along the boundary.
4c	Number of dumps within lease area and outside of lease area	five within the lease	same five inside the lease area, no outside the mining lease.	All the dumps are maintained within the ML area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	all along Ml boundary	all along the boundary is maintained.	yes all along the boundary is maintained, which is depected on the plan.

4e	Number of active and alive dumps.	one active dumps	one dump is continuing	On the boundary waste dumps are dumped and levelled and stabilized.
4f	Number of dead dumps.	nil	nil	nil
4g	Number of dumps established.	5 nos stabilized.	5 nos. of dumps stabilized.	within the area stabilized, all non mineralized virgin area.
4h	Whether Retaining wall or garland drain all along dumps are there.	yes proposed retaining wall all along the waste dump on the ML area boundary	yes 100m approximately made in the area.	partly it has been done.
4i	Length of Retaining wall or garland drain all along dumps	proposed in the approved document.	100m approximate.	yes partly along the dumps,
4j	Number of settling ponds	nil	nil	In te present ML area total 6 nos. sumps were in active use within the lease area.
4k	Specific comments of inspecting officer on waste dump management	waste dumping is made all along the ML area only.	Six sumps created in the Ml area after exploiting tehe limestone.	Still mined out area is not used for dumping waste as back filling.

#### 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.	In six sumps were created after exploiting the minerals.	yes after exploiting the limestone from the six pits, it was converted to water reservoir for mining use and domestic purposes and also for industrial ppurposes.	yes it was confirmed for exploitation and exhausted and started storing water.
5b	Area under backfilling of mined out area	that six pits under water reservoir, which considered under back filling with water storage.	all the six pits converted into sumps, are not aware for the company that this can be brought under reclamation & rehabilitations. The extent of the area is not given by the manager.	During the inspection it was confirmed that the no mined out area is utilized for waste dumping/ back filling.

5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	not proposed till the period of inspection.	not proposed as on date.	nil
5d	Total area fully reclaimed and rehabilitated	other than the sumps, the waste dumps spread on the periphery of the ML area and planted for rehabilitation	Not the mined out area/ but the periphery of the utilized for waste dumping & planted, which is coming as 51.5 ha area./ against 51.00 ha.	The concept on water reservoir conversion is not aware by the lessee.
5e	General remarks of inspecting officers on backfilling and reclamation etc.	Though ore exploited in six pit & used for water reservoir, but the lessee not clear abt, the same,	All the six pits are comes under reclamation & rehabilitations., which need to be reported by the lessee.	

#### 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).	yes submitted on time correctly.	In the present scheme of mining, 2 nos. sumps will be developed. I.e in the present scheme perod and at the end of the 5th year & used for bak filling.	As on date of inspection, no bak filling was started in the ,ined out land.
6b	Area available for rehabilitation (ha) .	presently six sumps are used for water reservoir and two more sumps expected in this year or so, if it is will be converted to water reservoir/ back filling.	As on date of inspection no area matured for rehabilitations.	In future there is a possibility to rehabilitate.
6c	afforestation done (ha).	2.5 ha	4ha	as above
6d	No. of saplings planted during the year	2500 nos.	3000nos.	additionally 500 nos added.



6e	Cumulative no .of plants	75000 nos.	79270 nos.	more than the proposed.
6f	Any other method of rehabilitation	yes proposed for water resevoir.	yes converted 6 nos., and some more in the future,	nil
6g	Cost incurred on watch and care during the year	5 lakhs.	7.5 lakhs.	nil
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	nil	nil	nil
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	nil	nil	nil
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	1 ha area	i ha area.	same as above
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	2ha	2 ha	nil
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	nil	nil	nil
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	nil	nil	nil

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	nil	nil	natural growth of shrubs and bushes.
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	nil	nil	nil
6p	Compliance of environmental monitoring (core zone and buffer zone)	yes proposed in the approved scheme of mining.	it is reported by the party that the report was sent.	received in tis office.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	proposed in the approved document.	lessee company sent accordingly.	not any adverse remarks.

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Mineral Conservation:

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Sl.No.	Item	Propasals	Actual work	Remarks
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7a	ROM Mineral dispatch or grade-wise sorting within lease area	54,74,760 t, of limstone, 775,422t shale	yes everthing is within the lease area.	
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	77,18,000t lst., 12,76,650t shale. mechanical	mechanical	yes mechanically.
7c	Different grade of mineral sorted out at mines.	Cement grade	cement grade	yes cement grade only.
7d	Any beneficiation process at mines .	no process at th meines.	nil	nil, all the materails sent to plant for final processing to produce cement.

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	proposals made in the approved document on mineral conservation, regarding beneficiation, no proposals.	conservation point of view is satisfactory. No beneficiatiomm facility not made.	situation does not warrant.
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**Environment:**

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	12000t	7000t	utilized for various purposes like planatations/ gardens, etc.
8b	Concurrent use or storage of topsoil	yes proposed to use for green belt.	using for green belt.	yes it is used in the within the colony/ office etc.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes maintained	maintained within the ML area as per the ear marked locations.	separtely maintained.
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	proposed for usage.	yes used appropriately different materials, wherever required.	certain materials for certain useage.
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	yes proposed partly	Carrying out mining, converting sumps for water reservoirs for domestic and industrial purposes.	lessee carrying out to the requirments of the company, still not started backfilling inthe mined out area, execept back fillimng in the periphery.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	There are existing plantations in the area.	wherever required company is undertaking.	Plantations are developed systematically.
8g	Survival rate	80-90%	90%	as above.

8h	Water sprinkling on roads to control airborne dust	yes water sprinkling	provided water sprinklers.	yes followed regularly.
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	proposed.	followed to the satisfaction	yes followed.

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Compliance of Rule 45:

Sl.No.	Item	Proposals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	all the information furnished as per the returns format for the year 214-15.	satisfactory	online and the hard copy submitted to this office.
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Shri Arun Kumar, Jagadis, MK, KB. Verma respectively.	same as it is working in the mine and observed during the inspections of the mine.	yes working in the mine.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	227.70 ha for workings under O/c, reclaimed & rehabilitated 26.50 ha, waste disposal 31.55 ha, plant & buildings- 85.82 ha, other purposes of top soil- 7.4 ha respectively.	sumps of 6nos. converted to water reservoirs- reported for 51.50 ha in the data base sheet, need to be checked.	there is a variation in the data furnished submitted during the inspection and the annual returns 2014-15..
9d	Scrutiny of Annual return on afforestation	planted during the year was 5000 with 95% survival and 10000 nos in outside the M1 area with 95% survival.	exist in the M1 area during the site inspections.	as it is found in the M1 area.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	nil	nil	nil
9f	Scrutiny of Annual return on ROM stock and/or graded ore	nil O/Stock & closing stock. is 54,74,760t	all the materials directly fed to the processing plant, hence no stock..	as above.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	5474760t as production, dispatch of same figure, with ex-mine price is rs.142.99/t.	Only cement grade materials reported, and other were not present.	only one materials reported.
9h	Scrutiny of Annual return on fixed assets	value of fixed assets in rs. 329,743,000, in respect of mine, plant, work-shop, power & water installation.	the things which are present are reported.	nil
9k	Scrutiny of Annual return on mining machineries	Rock drill machines of 115m dia, shovels of 6.5cum, dumpers, loaders, dozer, grader, crusher, other HEMM furnished. water tanker etc.	all were present in the mining premises.	yes observed in the mine.

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**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
Rule 13(1)	18/04/0216				
Rule 45(1)	18/04/0216				

**Date :**

**(C.PARAMESHWARAN)**

Indian Bureau of Mines