INDIAN BUREAU OF MINES MINERALS DEVELOPMENT AND REGULATION DIVISION

Review and updation of Mining Plan REPORT

Bangalore regional office

	Mine	file No : KNT/GLB/LST	/7/]	BNG		Mine code : 38KAR10012
	(i)	Name of the Inspecting Officer and ID No.	:	S4 7) DR .	Sudhakara	T.L
	(ii)	Designation	:	Senior Mining	g Geologist	
	(iii)	Accompaning mine Official with Designation	:	Shri. Thripat	chi, Mines	Manager,Shri. Jagadish M.K, Mg
	(iv)	Date of Inspection	:	24/01/2023		
	(v)	Prev.inspection date	:	06/10/2017		
		РА	RT-	I : GENERAL	INFORMATI	ON
1.	(a)	Mine Name	:	WADI - I		
	(b)	Registration NO.	:	IBM/256/2011		
	(C)	Category	:	A Fully Mecha	anised	
	(d) (e)	Type of Working Postal address	:	Opencast		
		State	:	KARNATAKA		
		District	:	GULBARGA		
		Village	:	WADI		
		Taluka	:	CHITTAPUR		
		Post office	:	WADI		
		Pin Code	:	000 05011610		
		FAX NO.	:	022-25811618	\$ 	
		E-mall	•	kunj.verma@a	(c) 04806	COM
		Phone	•	022-07973907	(0),94600	0020.
	(f)	Police Station	:	Chittapur		
	(g)	First opening date	:	09/09/1968		
	(h)	Weekly day of rest	:	SUN		
2.	Addre corre	ess for espondance	:	M/s ACC Limit Wadi-585 225 Dist-Gulbarga	ted, Wadi (,Taluk-Chit a ,State -F	Cement Works ttapur Karnataka
3.	(a)	Lease Number	:	KAR0074		
	(b)	Lease area	:	471.03		
	(C)	Period of lease	:	20		
	(d)	Date of Expiry	:	18/02/2023		
4.	Mine	ral worked	:	LIMESTONE CLAY (OTHERS) SHALE)	Main Associated Associated

09/09/2020

5.	Name and Addı	ress of the		
	Lessee	:	ACC Limited	
			WADI CEMENT WORKS, WADI [P.O], GULBARGA, GULBARGA KARNATAKA	
			Phone:08476-62411	
			FAX :08476-62190	
	Owner	:	Mr. Sridhar Balakrishnan,MD & CEO,	
			121, Maharshi Karve road Cement House Mumbai - 400020 MUMBAI (SUBURBAN) MAHARASHTRA Phone: 7738147500	
			FAX :	
	Agent	:	RAGHAVENDRA RAO JAHAGIRDAR	
			ACC LTD, WADI CHITTAPUR DIST KALBURAGI KARNATAKA GULBARGA KARNATAKA Phone: 8003090425	
			FAX :	
	Mining	Engineer		
	Name	:	B N Prasadrao,Full Time	
	Oualifi	ication :	B.E. Mining Engineering	
	~ Appoint Termina	tment/ : ation date	20/06/2016	
	Geologi	ist		
	Name	:	JAGDISH MADIVAL,Full Time	
	Qualifi	ication :	M.Sc (GEOLOGY)	
	Appoint Termina	cment/ : ation date	05/07/2013	
	Manager	c		
	Name	:	SANJEEV TRIPATI.,,	
	Qualifi	ication :	DIP IN FCC	
	Appoint Termina	tment/ : ation date	19/05/2022	
б.	Date of appro Plan/Scheme o	oval of Min. of Mining	ing : Existing rule 11 MCDR1988 Modif.of approved Mining Plan Mining Scheme rule 12 MCDR1988 Mining Scheme rule 12 MCDR1988 Renewal under rule 22 MCR1960 Mining Scheme rule 12 MCDR1988 Mining Scheme rule 12 MCDR1988 MP review under 17(1) MCR 2016	28/06/1990 10/06/1993 12/10/1994 08/03/2000 16/06/2003 20/10/2008 24/09/2013 08/11/2017

MP modif under 17(3) MCR 2016

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
la	Backlog of previous year	No proposal	Exploration done in Yr 2016-17 and no backlogs	27 core holes were drilled to a total of 625m depth in Yr 2016-17
1b	Exploration over lease area for geological axis 1 or 2	G1, G3	G1, G3	Gl axis-390.04 Ha G3 axis-80.99 Ha
lc	Exploration Agencies and Expenditure in lakh rupees during the year	No proposal	Nil	M/s Synergy Geotech Cost. Rs: 15,06,184/-
ld	Balance area to be explored to bring Geological axis in 1 or 2	Gl axis- 390.04 Ha G3 axis-80.99 Ha	Gl axis-390.04 Ha G3 axis-80.99 Ha	Wadi 2 Cement Plant area falls in G3 axis
1e	Balance reserve as on 01/04/20		Limestone: 111 - 30805358 tons Shale: 111 - 32310000 tons	
lf	General remarks of inspecting officers on geology, exploration etc			Entire lease area is mineralized. Lessee has carried out G1 level exploration in n390.04 Ha, remaining 80.99 Ha which is in G3 level occupied by plant. In the Mining Plan Scrutiny advised lessee to propose the exploration in the G3 area to bring the mineralized area under G1 level. Accordingly lessee has proposed exploration in the RUMP.

Deve	lopment :				
Sl.No.	Item	Propasals	Actual work	Remarks	

2a	Location of development w.r.t.lease area	Development proposed - Western side ML7-ML12 Eastern side ML3A-ML6A	Actual Development done - Western Side N1887420,E709500, N1887540,E709380 Eastern Side N1888100,E711540 N1888080,E711160 N188050,E711590	Development is lagging in both the proposed areas. Violation pointed out during the last inspection dated 31/05/2022. Lessee has replied that due to Covid pandemic sales of cement were lower, hence less production done.
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Overburden bench proposed Western side ML7-ML12 Eastern side ML3A-ML6A Limestone bench proposed Western side ML7-ML13 Eastern side M0A-ML8A	Actual Overburden done Western Side N1887420,E709500, N1887540, E709380 Eastern Side N1888100,E711540 N1888080,E711160 LimeStone Western Side N1887500,E709460 N1887700,E709320 N1887410,E708860 Eastern Side N188420,E711760 N1888080,E711240	OB-1 bench, Limestone-03 benches Bottom RL: West: OB:395 M 1st: 397M 2nd:392 M 3rd: 393M Backfill: 390M East: OB:409M 1st:409 M 2nd:399 M 3rd:393M Backfill:387 M
2c	Stripping ratio or ore to OB ratio	1:0.1	1:0.12	Ore-63,44,642 Tons OB-475200m3
2d	Quantity of topsoil generation in m3	4200cu3	3710cu3	(Proposed: 4200 m3; Actual:3710 m3) Since dump handling done generation of tops soil is less. Bulk Density :1.6 Tons/ m3
2e	Quantity of overburden generation in m3	415840cu3 (665344) tons	475200cu3 (760320)tons	Slightly more Overburden handled since Production is less; Bulk Density :1.6 Tons/ m3

2f General remarks of inspecting officers on development of pit w.r.t. type of deposit etc

Development done within the proposed limit. However, it is observed that proposed development was lagging in both East & West area resulting change in stripping ratio for which violation issued under Rule 11(1) of MCDR, 2017 during last inspection. For the violation, lessee has replied that due to Covid pandemic sales of cement were lower; hence, less production done during 2021-22 so it is lagging.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit proposed for production	Actual production is carried out in one pit only	Approximate dimensions of pit (L: W : D) 3250m:825m:27m
3b	Quantity of ROM mineral production proposed	Limestone: 76,45,652 Tons Shale: NIL	Limestone: 63,44,642 Tons Shale: Nil	Modified Review & Updation of Mining plan vide letter No.: 279/116/89/BNG-336 dt:09/09/2020
3с	Recovery of sailable/usable mineral from ROM production	100%	100%	All mineral extracted is used for cement manufacturing
3d	Quantity of mineral reject generation	No Proposal	Nil	No proposal for mineral reject generation
3e	Grade of mineral rejects generation and threshold value declared.	No proposal of mineral rejects	No proposal of mineral rejects	100% of mineral mined is used for cement manufacturing; Hence no proposal for mineral rejects

3f	Quantity of sub grade mineral generation.	No Proposal	NIL	NIL
3g	Grade of sub grade mineral generation	No Proposal	NIL	NIL
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised Method	Adopted as proposed	There is no segregation of material adopted. 3 crushers are operated to reduce size of material viz12.5mm, -50mm & -50mm; Crusher1-West side (850 tph) Crusher2-South side (1000 tph) Crusher3-North side (1200 tph)
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No proposal for beneficiation proposed	No beneficiation study carried out as mineral is directly used for cement manufacturing	ROM is used for manufacturing of cement & does not require any beneficiation
3j	Provision of drilling and blasting in mineral benches	Deep Hole Drilling & Blasting	Deep Hole Drilling & Blasting carried out	Drilling carried out by DTH Drills of 115mm & 150mm. Blasting is carried out by using ANFO, NONEL detonators & Electronic detonators

3k	Provision of mining machineries in mineral benches	Proposal of Diesel Excavator, Electrical Excavator, Dumpers, Drills, Water tankers, explosive van, Grader, compactor, Loader, Dozer, Crushers	Drills-02 Nos; Shovel-06 Nos; Dumpers-14 Nos; Water tankers-02nos; Loader-02nos; Dozer-03 no; Grader-01no; compactor- 01no; Backhoe -01 no; crushers-03nos;	Drills - 115 / 150 mm; Shovels- 6.5 m3- 01nos 5 m3- 01nos 5 m3- 01nos 7.2 m3 - 03 nos; 10 m3 -01 no; Backhoe - 3.1 m3- 01no Dumpers- 85Ton-02 nos; 100Ton-08 nos; 40Ton -02nos Loaders - 02 nos; Dozer-03 no; Water tankers- 10KL&28KL-01 each; Explosive van- 10Ton-01no; BMD Truck - 01 no; Crusher- 800Tph,1000 Tph &1200 Tph
31	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposal for OB Bench Ht: West - 1 to 3m Ease - 6-8 mtrs; Ore bench ht: West - 4 to 10m East - 6-10 mtrs	OB Bench Ht: 2 mtr in west & 6-8 mtr in North; Ore bench ht: West - 4 to 10m East - 6-10 mtrs is being practiced	Bench height in OB & Ore are practiced as proposed
3m	Total area covered under excavation/pits	300.85 Ha At the end of the plan period	298 На	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.1	1:0.12	Ore-63,44,642 Tons OB-4,75,200 m3
30	Total area put in use under different heads at the end of year	As Per Mining Plan.	Actual area Covered under current workings: 298 Ha Reclaimed/ Rehabilitated:15.6 Ha; Used for waste disposal:5 Ha; Occupied by Infrastructure: 96.1 Ha; Untouched area & top soil storage:77.48 Ha	

β	Production of ROM mineral during the last five year period as applicable	2017-18 Lst:77,18,250 Shale:12,76,87 5 2018-19 Lst:66,74,073 Shale:9,73,336 2019-20: Lst:66,65,983 Shale:9,81,336 2020-21: Lst: 66,50,965 Shale: Nil 2021-22: (in tonnes) Lst: 76,45,652 Shale: Nil (in tonnes)	2017-18 Lst:56,80,730 Shale:8,09,555 2018-19 Lst:61,28,618 Shale:Nil 2019-20: Lst: 59,32,933 Shale: Nil 2020-21: Lst: 55,26,321 Shale: Nil 2021-22: (in tonnes) Lst: 63,44,642 Shale: Nil (in tonnes)	Actual production is within the proposed limits
3q	General remarks of inspecting officers on method of mining etc.			The ROM production is carried out within the proposed limits as per the approved Mining Plan

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Proposed backfilling of overburden at below mentioned area: Western side ML09-ML11 Eastern side ML3A-ML6A	Western Side N1888800,E709270 N1888100,E709350 N1888700,E709150 N1887750,E709100 Eastern Side N1888650,E711440 N1888680,E711230 N1888600,E711280 N1888620,E711300	Quantity backfilled: Western- 1,85,200 m3 Eastern-2,90,000 m3 The proposed extent of backfilling not achived. During inspection lessee stated that due to prolonged monsoon, waste dump proposed to be handled and backfilled not done, hence there is lagging in backfilling.

4b	Location of topsoil, OB and mineral reject dumps	No proposal of OB stacking	Top soil was utilized for afforestration & OB waste was removed and backfilled	
4c	Number of dumps within lease area and outside of lease area	WML-3nos OML-0	WML-3nos OML-0	WML-3nos OML-0
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Dumps located along ML boundary & ultimate pit limit	Dumps located along ML boundary & ultimate pit limit Dump1-ML10 to ML12 Dump2 - ML0 to ML2A Dump3 - ML0 to ML2A	Western N1887300,E709140 N1887440,E708830 Eastern N1887860,E710700 N1887900,E710860 N1887960,E710920 N1887930,E711070
4e	Number of active and alive dumps.	NIL	NIL	No active dumps are found
4f	Number of dead dumps.	3nos	3nos	All dumps are matured & stabilized by plantation
4g	Number of dumps established.	3nos	3nos	Dumps are stabilized by plantation
4h	Whether Retaining wall or garland drain all along dumps are there.	NIL	NIL	
4i	Length of Retaining wall or garland drain all along dumps	No proposal of retaining wall along dump	No retaining wall are constructed along dump	As dump heights are less no retaining wall is found necessary.
4j	Number of settling ponds	NA	NA	
4k	Specific comments of inspecting officer on waste dump management			There is no proposal for waste dump. It is proposed to backfill the waste generated.

Solid Waste Management - Backfilling:

SI.NO. Item Propasals Actual work Remarks	Sl.No.	Item	Propasals	Actual work	Remarks
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5a Backfilling is carried Backfilling done Status of part Proposal for or full backfilling is out after full at below mentioned extraction of done after extraction of mineral. area: mineral from mined out of Western Side mined out area mineral N1888800,E709270 before starting N1888100,E709350 backfilling. N1888700,E709150 N1887750,E709100 Eastern Side N1888650,E711440 N1888680,E711230 N1888600,E711280 N1888620,E711300 Quantity Western- 1,85,200 m3 Eastern-2,90,000 m3 Area under 5b WEST SIDE Western Side The proposed backfilling of N1888800,E709270 extent of backfilling is not mined out area ML9 to ML 11 N1888100,E709350 EAST SIDE achieved. In the N1888700,E709150 ML 3A to ML 5A N1887750, E709100 last inspection violation pointed out. Lessee has Eastern Side replied that due N1888650,E711440 N1888720,E711500 to prolonged N1888650,E711380 monsoon, waste N1888280,E711250 dump proposed to be handled and backfilled not done, hence there is lagging in backfilling, we will achieve the proposed extent of backfilling during 2022-23. 5c Concurrent use Spreading of Top soil generated was 100% use of Top of topsoil for topsoil over used for spreading in soil is done by restoration or in ML8 to ML12 ML8 to ML12 & ML5A to spreading on the rehabilitation & ML5A to ML8A ML8A and plantation done backfilled area. of mineral out area area (Rule 32) 5d Total area Area under water No proposal 15.6Ha fully reclaimed reservoir is and 293.91Ha. rehabilitated

5e General remarks of inspecting officers on backfilling and reclamation etc. Back filling is under progress in the proposed location. However, there is a lagging in the proposed back filling area. Lessee replied that that that due to prolonged monsoon, waste dump proposed to be handled and backfilled not done, hence there is lagging in backfilling, we will achieve the proposed extent of backfilling during 2022-23. As per approved Mining Plan 61.34 ha area is reclaimed and rehabilitated.

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).		Annual report on PMCP was submitted on 05/07/2022	
6b	Area available for rehabilitation (ha) .	No Proposal	NIL	
бс	afforestation done (ha).	1.5 Ha	1.5 Ha	Location: ML12 to ML13 & ML3A to ML5A
6d	No. of saplings planted during the year	3000 nos.	3000 nos. inside the lease area and 3000 outside the lease area	As per AR
бе	Cumulative no .of plants	WML - 1,21,000 nos.	WML - 1,21,754 nos.	
6f	Any other method of rehabilitation	No proposal	Nil	Plantation done on the matured backfilled area.

бд	Cost incurred on watch and care during the year	Rs.10,50,000	1,93,27,000	As per PMCP report
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	Proposed area for compliance on reclamation of voids by backfilling as: Sump 7 L-400M; B-200M D-7m Sump3A L-300M; B- 200M; D-5 M	The actual work done to fill the void by backfilling as: North: L-200M; B-150M; D7M West: L-200M; B-150M; D- 5M	Backfilling of voids being done by overburden
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Proposed for backfilling by Overburden for compliance on reclamation & rehabilitation	Backfilling by overburden being done at below mentioned area: West side: Western Side N1888800,E709270 N1888100,E709350 N1887700,E709150 N1887750,E709100 Eastern Side N1888650,E711440 N1888720,E711500 N1888650,E711380 N1888280,E711250	Backfilling of voids being done by overburden
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestati on on backfilled area	NIL	NIL	NIL
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No Proposal for converting dug out pits into water reservoir in this year	60.63 Ha of area is presently available as water reservoir.	Compliance by making water reservoir observed as there are 6 nos. sumps & Sump 7 is under development
61	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No other proposal of reclamation	NIL	

бm Compliance of No proposal of As mentioned, there is Since there is no rehabilitation rehabilitation no waste land in lease waste land in of waste land of waste land area lease area. The within lease within lease afforestation is (i)afforestation area done in earmarked places бn Compliance of No proposal NIL NIL rehabilitation of waste land within lease (ii)Area rehabilitation (ha) 60 Compliance of No proposal NIL NIL rehabilitation of waste land within lease (iii)Method of rehabilitation Compliance of Seasons wise All values of бр Season wise environmental environmental environmental monitoring environment monitoring (core monitoring of of air, water, soil & monitoring are air, water, noise was carried out as zone and buffer within permissible zone) soil & noise per the proposal. limits. proposed General remarks бq PMCP activities of inspecting carried out as per officers on PMCP proposal. However, compliance and lagging in the progressive backfilling area closure observed. Lessee stated that this operations etc. is due to continues rain fall in the area, so proposed waste dump not handled and back filled.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct ROM dispatch to their captive plant	Blasted material is sent to the crusher for further sizing & dispatched to their captive cement plant of 6.5 MTPA clinker production capacity	3 crusher units Crusherl-West side (850 tph) Crusher2-South side (1000 tph) Crusher3-North side (1200 tph)
7b	Method of grade- wise mineral sorting i.e. manual or mechanical.	No proposal	Bench wise blending as per the requirement of cement plant	All material excavated is used for cement manufacturing

7c	Different grade of mineral sorted out at mines.	No proposal	No sorting is done in mines	NIL
7d	Any beneficiation process at mines	No proposal	No beneficiation is done in mines except crushing	Only crushing is done, after which mineral is conveyed to plant through covered belt conveyors
7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues			Beneficiation of the limestone is not required as entire ROM produced are being utilized with proper blending in their cement plant.

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	4200cu3 proposed	3710cu3 is generated and used for plantation purpose	Top soil is used for plantation purposes
8b	Concurrent use or storage of topsoil	Spreading of topsoil over in ML8 to ML12 & ML5A to ML8A area	Top soil generated was used for spreading in ML8 to ML12 & ML5A to ML8A and plantation done	NIL
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Separate earmarked place for backfilling is proposed	OB exposed is backfilled as per proposal	Overburden is backfilled & no other waste rock/rejects/fines occur in mines
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	Separate earmarked place for backfilling is proposed	OB excavated is backfilled as per proposal	OB is backfilled & plantation is done & no other waste rock / rejects / fines occur in mines

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8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Carrying out phased restoration & reclamation as per approved Review of mining Plan	Carried out phased restoration & reclamation as per approved Review of mining Plan	Restoration, reclamation & rehabilitation of lands affected by mining operations are being done by backfilling & plantation.
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	3000 nos	3000 nos (within lease) 3000 nos. (outside lease)	Plantation carried out at earmarked places
8g	Survival rate	85%	Within lease 85% and outside lease 8%	As per Annular returns
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to suppress the dust	Continuous water sprinkling on haul roads by water tankers to suppress the dust generated; Fixed sprinklers along crusher3 area. Along with this at crushers Bag filters are in place for preventing dust to airborne	02 water tankers each of 28KL & 10KL are operated to cover haul roads
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Asthetic beauty in and around the mine is good. Plantation growth in the western part safety zone is poor due to this soil cover. Suggested lessee to do the gap plantation. Accordingly lessee has proposed the same in the approved RUMP document.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks

9a Status of Annual return Monthly and Annual submission of submitted on returns submitted Monthly and 29/06/2023 within stipulated Annual returns Monthly return time of December 2022 submitted on 09/01/2023 9b Scrutiny of Mr. B N All officers were NIL Annual return Prasadrao, present during the day for information Mining of inspection. on Mining Engineer Engineer, Mr. Jagadish M Geologist and K, Geologist Manager Sanjeev Tripathi, Mines manager 9c Scrutiny of Covered under Appears to be correct NIL Annual return on current (O/C) land use pattern Workings : for area under 298Ha pits, reclaimed Reclaimed/Reha area, dumps etc. bilitated : 15Ha Used for waste disposal : 4.5Ha Infrastructure (Plant, road, etc): 96.550 Other (safety zone, top soil dump area etc): 77.48Ha 9d Scrutiny of 1.5Ha Appears to be correct NIL Annual return on afforestation 9e Scrutiny of No proposal Appears to be correct NIL Annual return on mineral reject generation (Grade and quantity) 9f Scrutiny of ROM Stock: 0 Appears to be correct NIL Annual return on ROM Production ROM stock and/or : 6344642 tons Graded ore graded ore stock: Nil Scrutiny of Sale value : Values provided appears 9q NIL Annual return on Nil to be correct. Ex-Mine price: Sale value is 'Nil', due sale value, Ex. Rs. 198.21 Mine price and to Captive consumption Cost of production cost Production: Rs. 198.21

9h	Scrutiny of Annual return on fixed assets	Fixed Assets : Rs. 1942823364 Depreciation of fixed assets: Rs.88051432	Appears	to be	correct	NIL
9k	Scrutiny of Annual return on mining machineries	ROCK DRILL - 02 nos. SHOVEL (HYDRAULIC) - 07 nos. DUMPER - 14 DOZER - 2 CRUSHER - 3	Appears	to be	correct	NIL

Details of violations observed during current inspection and compliance position of violation pointed out						
V	iolation observed		Sho	ow couse position		
Rule NO.	Issued on	Compliance on	Rule NC	. Issued on Compliance on		

Date :

(DR. Sudhakara T.L)

Indian Bureau of Mines