

Indian Bureau of Mines
Minerals Development and Regulation Division
MCDR Inspection Report
Hyderabad Regional Office.

Mine File: MCDR-Misc/10/2023-HYD

Mine Code: 38APR14026

1) Name of Inspecting officer:	Shri .M.K. Kalmata
2) Designation	Regional mining Geologist
3) Accompanying mine official with designation	Mr. V. Rami Reddy, Mines Manager.
4) Date of Inspection	20-12-2024.
5) Date of Previous Inspection	29-02-2024

Part-I: General

S.No.	Particulars	Details
1	Name of the Mine	Lakshmpuram Limestone Mine.
2	Total Lease Area (Ha) with breakup of Non-forest and forest land	417.04Ha (Non -forest Land)
3	Mine code	38APR14026
4	IBM Registration Number under rule 45 of	IBM/613/2011
5	Name of the lessee, Address, phone, email and fax number	M/s. The India Cements Ltd., Vishnupuram (Works), Wadapalli Post, Damarcherla Mandal, Miryalaguda Tq, Nalgonda Dist, Telangana- 508355.
6	Village	Irikigudem and Kothapally
7	Taluka/Mandal	Damarcherla
8	District	Nalgonda
9	Pin code	508355
10	State	Telangana
11	Post office	Wadapally
12	Nearest police station	Wadapally
13	Nearest Railway station	Vishnupuram
14	Date of Grant of Mining Lease	25-11-1977.
15	Date of Execution	15-02-1978

16	Period	31-03-2030 (The mine is Captive mine, so the lease period is extended up to 31-03-2030 as per MMDR Amendment Act 1957)
17	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Shri V.M.Mohan, Dhun Building, 827, Anna Salai, Chennai – 600002. Ph: 044-28521526, Fax;- 044-28520638, e-mail: mines@indiacements.co.in Date of Appointment: 01-11-2023.
18	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Shri. Mahesh V Mutyalwar, M/s.India Cements Ltd., Vishnupuram works, Wadapally Post, Damaracherla Mandal, Nalgonda. Telangana – 508355. Ph: 08689-228580 e-mail: mahesh.v@indiacements.co.in Date of Appointment: 22-04-2024.
19	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines, qualification	Shri V. Rami Reddy, M/s.India Cements Ltd., Vishnupuram works, Wadapally Post, Damaracherla Mandal, Nalgonda. Telangana – 508355. Ph: 9908923310 e-mail: mines@indiacements.co.in Date of Appointment: 17-07-2023.
20	Name of the Mining Engineer & Geologist, Qualification and date of appointment in mine,	1) Mining Engineer: Name:- Mr.V.Rami Reddy, (B.E.Mining), Date of Appointment: 17-07-2023. 2) Geologist: Name:- Mr.K. Srinivas, Msc., Geology. Date of Appointment: 10-09-2022.
21	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Review of Mining Plan :- AP/NLG/MP/Lst-26/Hyd, Dated:- 21-11-2022 for the block period 2023-24 to 2027-28
22	Name of the Mineral	Limestone
23	Method of Mining(Open cast, Underground)	Open cast
24	Category (Fully Mechanized, Others or Manual)	Fully Mechanized Category A Mine.

25	Captive/Non Captive	Captive
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PART-II				
Exploration :				
Sl. No.	Item	Proposals	Actual Work	Remarks
1a	Backlog of previous year	None in the year 2023-24.	None in the year 2023-24.	Entire Mineralized area is already explored under G-1 level during previous block periods.
1b	Exploration over lease area for geological axis 1 or 2	None in the year 2023-24.	None in the year 2023-24.	Entire Mineralized area is already explored under G-1 level during previous block periods.
1c	Exploration Agencies and Expenditure in lakh rupees during the year	None in the year 2023-24.	None in the year 2023-24.	Entire mineralized area is already explored under G-1 level during previous block periods. The exploration is carried out by Lessee only under the supervision of Geologist appointed under Rule 55 of MCDR 2017. The expenditure incurred on exploration is approximately Rs 3775687. However,

				lessee has not mentioned cumulative expenditure made on exploration in the annual returns submitted for the year 2023-24. Show cause notice is issued for the same under Rule 45(7) of MCDR 2017.
1d	Balance area to be explored to bring Geological axis in 1 or 2	None in the year 2023-24.	None in the year 2023-24.	Total lease area is 417.04Ha and entire lease area is mineralized. Total lease area is explored under G-1 level by drilling 128 exploratory boreholes to a total depth of 3938mtrs.
1e	Balance reserves as on 01/04/2024	As per the approved document dated 21-11-2022, details of reserves/resources are as follows: (In million tonnes) (As on 30-06-2022) Proved M Reserves (111) :-	Reserves/resources as on 01-04-2024 (In million tonnes) Proved M Reserves (111) :- 94.214, Feasibility M Resources (211):- 123.680, Total:- 217.894	Reserves/resources were updated by depleting 950179 tonnes of ROM production achieved during the period 01-07-2022 to 31-03-2024.

		95.164, Feasibility M Resources (211):- 123.680, Total:- 218.844		
1f	General remarks of inspecting officers on geology, exploration etc.		The limestone deposit within the mining lease hold area forms a part of Proterozoic Palnadu basin equivalents Narji limestone formation of Kurnool group. The general strike of the formation is N 30° E and S 30° W and dip of the formation is 0.5 to 5o towards SE. The Cao % of limestone varies from +34 to 46%.	Total lease area is 417.04Ha and entire lease area is mineralized. Total lease area is explored under G-1 level by drilling 128 exploratory boreholes to a total depth of 3938mtrs.
Development :				
Sl.No.	Item	Proposals	Actual Work	Remarks
2a	Location of development w.r.t. lease area	In the year 2023-24, there was a proposal to work in two pits Pit No-1: two locations a) N1844000 to 1844080, E 351870 to 352250 & b) N 1844120 to 1844200, E 352020 to 352300 Pit No-2 two locations a) N1844300 to 1844880, E 351010 to 351560 and b) N	In the year 2023-24, working is carried out in pit no-2 only and co-ordinates of the actual working carried out is N 1844300 to 1845025 and E 351060 to 351415.	in the year 2023-24, there was a proposal to work in two pits. Pit No-1 and 2. But actual working is carried out in Pit No-2 only.

		1845230 to 1845610, E 351215 to 351470.		
2b	Separate benches in topsoil, overburden and minerals (Rule-15)	Proposed benches in ore only.	Benches exist in ore only.	No OB or topsoil is existing in the area proposed for production and development in the present five year block period.
2c	Stripping ratio of ore to OB ratio	1:0	1:0	No OB is proposed and handled in the year 2023-24.
2d	Quantity of topsoil generation in m ³	None in the year 2023-24.	None in the year 2023-24.	No OB or topsoil is existing in the area proposed for production and development in the present five year block period.
2e	Quantity of overburden generation in m ³	None in the year 2023-24.	None in the year 2023-24.	
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc.		There was proposal to work in two pits (Pit No-1 and 2), but actual working is carried out in Pit No-2 only. Due to quality issues and lessee production. Working is carried out in pit No-2 only. Lessee is advancing benches	Production achieved is only 41%. Due to lack of demand for cement, plant was under shutdown for few months, so

			towards the pit No-2.	production is not carried out as per the proposal, instead of two pits working is carried out in one pit only. In pit No-2, working is carried out almost within the proposed co-ordinates. So no violation is pointed out under Rule 11(1) of MCDR 2017.
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Exploitation :				
Sl.N o.	Item	Proposals	Actual Work	Remarks
3a	Number of pit proposed for production	Two pits in the year 2023-24.	One pit in the year 2023-24.	Total two pits are exiting within the lease area, and dimension of the pits is as follows: Pit No.2:- 1480m (L) x 676m (W) x 20m (H) Total area covered under Pit No-2 is 100.09 Ha, out of which 13.68Ha is already reclaimed and rehabilitated. Pit No-1:- 660m(L) x 530m(W) x 42m(h)

3b	Quantity of ROM mineral production proposed	1400062	575114	Production achieved is only 41%. Due to lack of demand for cement, plant is under shutdown, so production is not carried out as per the proposal.
3c	Recovery of saleable / usable mineral from ROM production	100%	100%	
3d	Quantity of mineral reject generation	None in the year 2023-24.	None in the year 2023-24.	
3e	Grade of mineral rejects generation and threshold value declared.	Not applicable.	Not applicable.	
3f	Quantity of subgrade mineral generation.	None.	None.	
3g	Grade of subgrade mineral generation.	Not applicable.	Not applicable.	
3h	Manual / Mechanized method adopted for segregating from ROM	None.	None.	Lessee is doing only size reduction by feeding ROM to Crusher.

3i	Any analysis or beneficiation study proposed and carried out for subgrade mineral and rejects	None.	None.	
3j	Provision of drilling and blasting in mineral benches	Yes, proposed deep hole drilling and blasting.	Lessee is doing drilling and blasting as per the proposal.	Using drilling machine of 115mm capacity for drilling blast holes and loose ammonium nitrate slurry explosive for blasting.
3k	Provision of mining machineries in mineral benches	Yes proposed.	Using Combination of excavators and tippers for production and development.	Additionally using rock drilling machine of 115mm for drilling blast holes.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Proposed maximum 8.0mtr bench height in ore	Maximum Bench height maintained is Ore is 7.5m Benches are maintained 3.00 to 7.5mts.	The Ore Bench proposed and maintained is suitable for the method of mining adopted.
3m	Total area covered under excavation / pits	29.48Ha up to 2023-24.	17.891Ha in the year 2023-24.	Due to lack of demand for cement. The production is achieved only 39%.

				So, the working is not done up to the proposed limits in the southern part of the lease area. So there is a negative deviation in the pit area.
3n	Ore to OB ratio for the pit/mine during the year.	1:0	1:0	No OB is proposed and handled in the year 2023-24.
3o	Total area put in use under different heads at the end of year	Area under mining:138.28Ha, OB dumps:-5.92, Infrastructure:8.68Ha	Area under current working:- 121.43Ha, Reclaimed and Rehabilitated area:- 13.68Ha, Dumps:- 8.689Ha, Infrastructure: 8.68Ha.	In approved document proposed area under mining was shown including the Reclaimed and rehabilitated area. (Actual proposed area under current working is 124.6Ha). The land use details were not furnished correctly in the Annual returns submitted for the year 2023-24. Show cause notice is issued for the same under Rule 45(7) of MCDR 2017.

3p	Production of ROM mineral during the last five year period as applicable	2023-24 -1400062 T 2022-23 - 1399961T 2021-22 -1399966T 2020-21 - 1399912T 2019-20 - 1399912T	2023-24 - 575114 T 2022-23 - 512970 T 2021-22 - 645565 T 2020-21 - 676083 T 2019-20 - 665104 T	
3q	General remarks of inspecting officers on method of mining etc.		The method of mining adopted is fully mechanized. The bench height is maintained 3.00 to 7.5 mtr and width more than 15.00 mtrs. The bench parameters maintained is suitable for the nature of the deposit and method of mining adopted. Further, lessee is advancing benches of pit no-2 towards the pit no-1 and both the pits will be merged in next block period.	In the present five year block period (2023-24 to 2027-28) there is a proposal to work in two pits. However, lessee is working in only one pit due to lack of demand for cement.
Solid Waste Management - Dumping :				
Sl.No.	Item	Proposals	Actual Work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32, 33)	None in the year 2023-24.	None in the year 2023-24.	Four old mineral reject /OB dumps are existing within the lease area.
4b	Location of topsoil, OB and mineral reject dumps	None in the year 2023-24.	None in the year 2023-24.	Dump1:- N1843900 to 1844040 to E

				<p>352515 to 352625</p> <p>Dump 2:- N1843840 to 1844160 & E 352855 to 352990</p> <p>Dump 3:- N1844165 to 1844380 & E 352955 to 353100</p> <p>Dump 4:- N 1844465 to 1844510 & E 353330 to 353420</p>
4c	Number of dumps within lease area and outside of lease area	None in the year 2023-24.	None in the year 2023-24.	Four old mineral reject /OB dumps are existing within the lease area.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	None in the year 2023-24.	None in the year 2023-24.	03 dumps are existing outside the UPL and one dump is existing just adjacent to Pit no-1. However in the present five year there is no planning is made to extend the benches towards dump.
4e	Number of active and alive dumps.	None in the year 2023-24.	None in the year 2023-24.	No active dumps are existing within the lease area. However,

				temporary mineral stacks are exiting near the crushing plant area.
4f	Number of dead dumps.	None in the year 2023-24.	None in the year 2023-24.	Total 04 old mineral reject/OB dumps existing within the lease area. The said dumps are existing more than a decade.
4g	Number of dumps established.	None in the year 2023-24.	None in the year 2023-24.	The dumps are decades old, contains boulders only and already settled and natural vegetation is grown.
4h	Whether retaining wall or garland drains all along dumps are there.	None in the year 2023-24.	None in the year 2023-24.	The dumps are decades old and contains boulders only, so possibilities of slide are less only so no retained wall are proposed and constructed.
4i	Length of retaining wall or garland drain all along	Not applicable	Not applicable	

	dumps.			
4j	Number of settling ponds	None.	None.	
4k	Specific comments of inspecting officers on waste dump management .		<p>No dumping is proposed and made in the present five year block period. However, four mineral reject/OB dumps are existing within the lease area. The said dumps are formed more than a decade ago. The dumps look like low-grade ore with high silica, but no at present no chemical analysis is available for the same. So the dump is mentioned as Mineral reject/OB dumps. Advised lessee to do proper sampling of the dumps and based on result the dumps may be designated as OB or Mineral reject dumps.</p>	<p>The dumps are decades old and maximum percentage of material available is in the form of boulders, so possibilities of slide are less only so no retained wall are proposed and constructed.</p>
Solid Waste Management - Backfilling :				
Sl.N o.	Item	Proposals	Actual Work	Remarks
5a	Status of part or full extraction of mineral	None in the year 2023-24.	None in the year 2023-24.	Up to previous block period about 13.68Ha of mined out area is

	from mined out area before starting backfilling			reclaimed and rehabilitated in the pit no-2.
5b	Area under backfilling of mined out area	None in the year 2023-24.	None in the year 2023-24.	Up to previous block period about 13.68Ha of mined out area is reclaimed and rehabilitated in the pit no-2.
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area (Rule 32)	None in the year 2023-24.	None in the year 2023-24.	
5d	Total area fully reclaimed and rehabilitated	None in the year 2023-24.	None in the year 2023-24.	Up to previous block period about 13.68Ha of mined out area is reclaimed and rehabilitated in the pit no-2.
5e	General remarks of inspecting officers on backfilling and reclamation etc.		No proposal for reclamation and rehabilitation is given in the present five year block period. However about 13.68Ha of mined out area where mineral is exhausted is	

			reclaimed and plantation is made on the reclaimed area.	
Progressive Mine Closure Plan :				
Sl.N o.	Item	Proposals	Actual Work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 26(2)	Before 1st July of every year.	Submitted yearly report on PMCP within the prescribed time limit.	Lessee has attached PMCP report along with the Annual returns submitted for the year 2023-24 on 12-06-2024.
6b	Area available for rehabilitation (ha)	None in the year 2023-24.	None in the year 2023-24.	However, up to previous block period about 13.68ha mineral exhausted area is reclaimed and rehabilitated.
6c	Afforestation done (ha)	0.6Ha in the year 2023-24.	0.6Ha in the year 2023-24.	
6d	No. of saplings planted during the year	500 saplings in the year 2023-24.	800 saplings in the year 2023-24.	
6e	Cumulative no. of plants	2500 saplings in the present five year block period of 2023-24 to 2027-28.	Only first year completed in the present five year block period and plantation made in the first year is 800.	Total plantation made so far is 26177 saplings covering an area of 25.36Ha.

6f	Any other method of rehabilitation	None in the year 2023-24.	None in the year 2023-24.	
6g	Cost incurred on watch and care during the year	Rs 3.0 lakh in the year 2023-24.	Rs 3.5 lakhs in the year 2023-24.	Lessee is well taking care of the plantation by engaging manpower for regular monitoring.
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (LxBxD)	Nil	Nil	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	Nil	Nil	
6j	Compliance on reclamation and rehabilitation by backfilling (iii) Afforestation	Nil	Nil	

	n on backfilled area			
6k	Compliance on reclamation and rehabilitatio n by backfilling (iv)Rehabilit ation by making water reservoir	Nil	Nil	
6l	Compliance on reclamation and rehabilitatio n by backfilling (v) any other specific means.	Nil	Nil	
6m	Compliance of rehabilitatio n of waste land within lease (i) afforestation	Nil	Nil	
6n	Compliance of rehabilitatio n of waste land within lease (ii) Area rehabilitatio n (ha)	Nil	Nil	

6o	Compliance of rehabilitation of waste land within lease (ii) Method of rehabilitation	Nil	Nil	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes, Air, Water and Noise monitoring was proposed in Core and Buffer zone.	Environmental monitoring in the core and buffer zone is carried out as per the proposal and results are within permissible limits.	Environmental monitoring is carried out by B.S. Envi-tech Pvt. Ltd., Hyderabad.
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.		Only Plantation was proposed under progressive Mine Closure plan. Accordingly lessee has planted 800 sapling in the year 2023-24 and total saplings planted so far is 26177. Carried out environmental monitoring for Air, Water etc. and results are within the permissible limits.	
Mineral Conservation:-				
Sl.N o.	Item	Proposals	Actual Work	Remarks
7a	ROM mineral dispatch or gradewise	Proposed dispatch of Cement grade ROM to Captive Cement	Lessee is dispatching Cement grade ROM to Captive plant as	Lessee is doing only crushing for

	sorting within lease area	Plant.	proposed.	size reduction.
7b	Method of gradewise mineral sorting i.e. manual or mechanical	None.	None.	Lessee is doing only crushing for size reduction. After crushing feeding to Captive Cement plant linked with the mine.
7c	Different grade of mineral sorted out at mines	Cement Grade.	Cement Grade.	
7d	Any beneficiation process at mines	None.	None.	
7e	General remarks of inspecting officers on mineral conservation and beneficiation issues.		Lessee is doing only crushing for size reduction. After crushing feeding to Captive Cement plant linked with the mine.	Lessee is using entire ROM by blending and recovery is 100%.

Environment:-

Sl.No	Item	Proposals	Actual Work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	None in the year 2023-24.	None in the year 2023-24.	No topsoil exists in the area proposed for production and development in the year 2023-24, so no topsoil is

				removed in the present plan period.
8b	Concurrent use or storage of topsoil	None in the year 2023-24.	None in the year 2023-24.	
8c	Separate dumps for overburden , waste rock, rejects and fines (Rule 33)	None in the year 2023-24.	None in the year 2023-24.	Mineral reject generated in previous block periods is stacked separately.
8d	Use of overburden , waste rock, rejects and fines dumps for restoring the land to its original use	None in the year 2023-24.	None in the year 2023-24.	However, during previous block periods, the waste rock generated is used for backfilling purpose in the mineral exhausted area in pit no-2.
8e	Phased restoration, reclamation and rehabilitation of land affected by mining operations (pits, dumps etc.)	None in the year 2023-24.	None in the year 2023-24.	About 13.68Ha of mineral exhausted area is reclaimed and rehabilitated in Pit No-2, during the previous block periods.

8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Baseline information was furnished in the mining plan. Additional plantation proposals are being given in the Mining Plan documents.	Additionally lessee has planted about 26177 saplings so far within the lease area.	
8g	Survival rate	None.	90 to 95%	
8h	Water sprinkling on roads to control airborne dust	Yes proposed.	Regularly spraying water on the working benches, Haul road etc.	One water tanker of 12000 ltr capacity is in use for dust suppression.
8i	General remarks of inspecting officers on aesthetic beauty in and around mine areas.		Total two pits are existing within the lease area and benches are made systematically, about 13.68Ha of mined out area is reclaimed and rehabilitated in pit no-2.	Additionally plantation is carried out in 7.5 mtr safety zone also.

Compliance of Rule 45 :

Sl.No.	Item	Proposals	Actual Work	Remarks
9a	Status of submission of monthly and annual returns	A monthly return shall be submitted before the tenth day of every month in respect of the preceding month and an annual return shall be submitted before	Submitting Monthly and Annual returns within the time limit.	Submitted Annual returns for the year 2023-24 on 12-06-2024.

		the 1st day of July each year for the preceding financial year.		
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	As per the Annual returns submitted for the year 2023-24, details are as follows, Mining Engineer:-Mr. V. Rami Reddy, Geologist: Mr. K. Srinivas, Mines Manager:-V. Rami Reddy.	The details furnished in the AR submitted for the year 2023-24 is found correct.	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Area under current working:- 135.110Ha, Reclaimed-rehabilitated:- 13.68Ha, Waste disposal:-5.92Ha, Infrastructure:- 8.17Ha.	During field visit, it is observed that the reclaimed area 13.68ha is shown under current working also. Further, actual area covered under dumps is 8.689Ha (Four old dumps existing within the lease area). However, area covered under dumps is mentioned as 5.92Ha.	Show cause notice is issued under Rule 45(7) of MCDR 2017, for submission of incorrect land use data in the Annual returns submitted for the year 2023-24.
9d	Scrutiny of Annual return on afforestation	800 saplings in the year 2023-24 with survival rate of 95%.	The information furnished in the Annual returns submitted for the year 2023-24 is found correct.	Survival rate is 85 to 90%.

9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	None in the year 2023-24.	None in the year 2023-24.	Entire ROM is dispatched to Captive plant under cement grade.
9f	Scrutiny of Annual return on ROM stock and/or graded ore	ROM: Opening and closing stock:- Nil, Production:- 575114 tonnes. Grade wise: Cement Grade:- Opening stock:- 55259, Production :- 575114 tonnes, dispatch:-593500, closing stock:- 36873tonnes	The details furnished in the AR submitted for the year 2023-24 is found correct.	Entire ROM produced is dispatched to captive plant under cement grade.
9g	Scrutiny of Annual return on Sale value, Ex Mine price and production cost	Sale value, cost of production and Ex-mine price is shown as Rs 202.30/ton.	The information furnished in the Annual returns submitted for the year 2023-24 is found correct.	Since the mine is captive cost of production and Ex-mine price is same. And as per the instruction given by HQ, Sale value is given by multiplying quantity dispatched and cost of production.
9h	Scrutiny of Annual return on fixed assets	Value of fixed assets was mentioned as ₹ 3237901946 in the year 2023-24.	The details of Net closing balance furnished in the Annual returns submitted for	Show cause notice is issued for the same under Rule 45(7) of MCDR

			the year 2022-23 and value mentioned at the beginning of the year in the Annual returns submitted for the year 2023-24 are not matching for the Industrial, residential and Plant and Machinery including transport equipment.	2017.
9k	Scrutiny of Annual return on mining machineries	Back hoe of 2.0 cum capacity: 02, Tippers of 12 cum capacity:- 08, Blast host drill of 115mm:-01	The details furnished in the AR submitted for the year 2023-24 is found correct.	

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed			Show cause position		
Rule No.	Issued on	Compliance position	Rule No.	Issued on	Compliance position
	NA		45 (7)	28-01-2025	

Date:-28-01-2025

(KALMATA.M.K)

Indian Bureau of Mines