

Birla Corporation Limited

UNIT: BIRLA CEMENT WORKS

Madhavnagar, CHANDERIA. CHITTORGARH - 312 021 (Rajasthan) Tel.: 01472 - 256601 to 256608

Fax: 01472 - 256609

BCW/SD/L-5/805 28.05.2024

To. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change. Integrated Regional Office, Jaipur, B Wing - 213 & 214, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur (Rai.) - 304002

Sub. : Environment clearance compliance report of M/s Birla Cement Works,

Limestone Mines, Chanderia.

Ref. : Environment Clearance no. J -11015 / 73 / 2014 – IA. II (M) dtd. 14.08.2020.

Sir.

Please find enclosed the Environment Clearance compliance report of our Birla Cement Limestone Mines (ML No.- 10/83) for the period - October, 2023 to March, 2024 for your kind perusal.

Soft copy of the same is also being sent on your email id: iro.jaipur-mefcc@gov.in.

Thanking you,

Yours faithfully,

For: Birla Cement Works

(Vinod Paliwal)

AVP (Sustainable Development)

Enclosed: as above

Cc to:

The Additional Director (Mining), Govt. of India. Ministry of Environment, Forests & Climate Change, E-5, Link Rd Number 3, Indira Paryavaran Bhavan, Jor Bagh Road, New Delhi - 110 003

The Central Pollution Control Board. Zonal office (Central), Ekant Park, Arera Colony. Bhopal- 462 016 (M.P.)

The Member Secretary, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongari, JAIPUR - (Raj) 302 004

May/Jun 2024

ENVIRONMENT CLEARANCE COMPLIANCE STATUS REPORT PERIOD: OCTOBER 2023 TO MARCH 2024





BIRLA CEMENT LIMESTONE MINES

(UNIT OF M/S. BIRLA CORPORATION LIMITED)

AT VILLAGE: BHERDA, JAI, SURJANA & NAGRI,

DISTRICT: CHITTORGARH (RAJ.)

ENVIRONMENT CLEARANCE COMPLIANCE REPORT

Name & Location of the Mines : Birla Cement Limestone Mines

(M/s Birla Corporation Limited)

At Village: Bherda, Jai, Surjana & Nagri,

PO: Semalpura, Teh & Distt: Chittorgarh (Raj.)

Mining Lease No.- and Area of ML : 10/83, Area – 588.59 Hectares

Environmental Clearance Letter No. : J -11015 / 73 / 2014 – IA – II (M) dated 14.08.2020

Period of the Compliance Report : From 01st October 2023 to 31st March 2024

A.	Specific Conditions	Compliance Status	
1)	The project proponent shall implement the recommendation of the Chief Wildlife warden in respect of wildlife conservation plan in respect of 4 species namely Peafowl, Leopard, Python and Indian Lizard.	Our proposal for the approval of NBWL (FP/RJ/MIN/665/2016) was sanctioned on 30 th September 2020. After obtaining its final sanction, we are in the consultation with the office of Deputy Conservator of Forests-WL for the implementations of all the conditions and the recommendations as per the approval letter. Biodiversity Conservation Plan for our mines is also submitted to DFO (Wildlife) Chittorgarh. Dcf Chittorgarh had asked for reply on short coming again, raised by PCCF & Chief wild life warden and DCF Chittorgarh recommended our reply to CCF Udaipur on 6.11.2023.	
2)	Plantation shall be carried out as per the mining plan, both concurrent and closer phase reclamation, inter alia, including plantation with not less than 12 feet height native species all along the boundary of the mining lease shall be completed in the ensuing monsoon (Monsoon of 2020), record keeping, gap plantation and grassing as per the directions of the Hon'ble Supreme Court.	Intensive plantation work was carried out by us and during 2023-24, 6000 saplings planted in the mine area, details and Photographs of the same attached for reference, as Annexure - 1 .	
3)	As committed by the project proponent, Rs. 275 Lakhs shall be allocated towards Corporate Environment Responsibility (CER) for the commitments made on the issues raised in PH to be implemented in a period of three years and record for the same shall be maintained and audited and reported to the Regional Office of the Ministry along with the compliance reports.	We have allocated ₹ 275 lakhs for CER as per the commitments made by us on the issues raised in PH. Details of activity during the year 2023-24 is enclosed as Annexure -2	
4)	Total excavation shall not be more than 6.660 Million TPA and corresponding ROM is 4.963 Million TPA including Crusher waste.	We would restrict to total excavation of 6.66 MTPA corresponding to ROM of 4.963 MTPA. The total excavation during April 2023 to March 2024 is 3.734 million tons , including 0.0042 million tons crusher waste.	

5)	No blasting shall be carried without permission from the Hon'ble Supreme Court and abide the interim orders of the Hon'ble Court, Meanwhile, shall carry out the mechanical excavation of rocks without blasting with ripper attached to excavators, Surface Miner, Terminator& Rock Breaker etc.	Blasting operations being stopped and against the Order of Hon'ble High Court of Jodhpur, Rajasthan dated 25.5.2012, SLP is filed in Hon'ble Supreme Court and in an interim decision, on 29.7.2013 mechanical mining without use of explosives has been permitted, no blasting will be carried out prior to permission from the Hon'ble Supreme Court.		
6)	No groundwater intersection shall be made without permission from the CGWA.	We are having the NOC of CGWA (NoCGWA / NOC / MIN / ORIG / 2021 / 12308) for dewatering seepage and ground water from mining pits. Apply for renewal application no. 21-4/9633/RJ/MIN/2018 dated 11.07.2022 as Annexure 3.		
7)	Total water requirement for project after expansion shall not be more than 1505 KLD, which shall be met from the mine sump water thus there shall be no ground water abstraction except for drinking.	The complete water requirement at present of the mining project is up to 500 KLD which is being me from the mine sump water only.		
8)	As per the EIA Report, the limestone shall transport only through the overland conveyor system from the crusher to the cement plant.	Crushed limestone is being sent to our own Cement plant through covered over-land conveyor system and it will be continued.		
	Covered OLBC for Tra	nsportation of Crushed Limestone		
9)	Effective dust control measures shall be taken	Water spraying arrangement through nozzles has		
	at the crusher and transfer points along the conveying system.	been provided at Hopper and Impactors, along conveyor belts and other material transfer points in the crusher. Dust suppression is done in crusher hopper and all material transfer points. Automatic dust suppression is in practice on loaded dumpers before unloading to crusher hopper. Flexible rubber curtains have been provided to cover the hopper, which helps in arresting the dust generated during unloading of limestone at crusher hopper.		
		The crusher is housed in a specially designed chamber which prevents dispersal of dust in atmosphere. Dust extraction and collection system (BDC) is also installed. List of APCE installed is enclosed as Annexure-4		

В	Standard Canditions	Compliance Status		
B.	Standard Conditions Statutory compliance :	Compliance Status		
1)	The EC granted to the project is strictly under the provisions of the EIA notification 2006 and its amendments. It does not tantamount / construe to approvals / consent / permissions, etc. required to be obtained under any other Acts / Rules / Subordinate legislations, etc., as may be applicable to the project.	tt // dd		
2)	The Project proponent complies with all the statutory requirements and judgment of Hon'ble Supreme Court dated 2nd August, 2017 in Writ Petition (Civil) No. 114 of 2014 in matter of Common Cause versus Union of India & Ors before commencing the mining operations.	Noted		
India & Ors before commencing the mining		e		
4)	The Project Proponent shall follow the mitigation measures provided in MoEFCC's Office Memorandum No. Z-11013 / 57 / 2014 IA. II (M), dated 29th October, 2014, titled "Impact of mining activities on Habitations-Issues related to the mining Projects wherein Habitations and villages are the part of mine lease areas or Habitations and villages are surrounded by the mine lease area".	Noted		
5) A copy of EC letter will be marked to concerned Panchayat/local NGO etc. if any, from whom suggestion/representation has been received while processing the proposal.		Noted		
6)	6) State Pollution Control Board / Committee shall be responsible for display of this EC letter at its Regional office, District Industries Centre and Collector's office / Tehsildar's Office for 30 days.			
7)	The Project Authorities should widely advertise about the grant of this EC letter by printing the same in at least two local newspapers, one of which shall be in vernacular language of the concerned area. The advertisement shall be done within 7 days of the issue of the clearance letter mentioning	Complied with, EC granted by MoEF&CC has been published and widely circulated in newspapers, Dainik Bhasker and Rajasthan Patrika on 19.08.2020 and copy of the advertisement has been sent to MoEF&CC Regional office Lucknow vide letter no – BCW / Env / L-5 / 1014 dated 20.08.2020.		

	that the instant project has been accorded EC and copy of the EC letter is available with the State Pollution Control Board / Committee and web site of the Ministry of Environment, Forest and Climate Change (www.parivesh.nic.in). A copy of the advertisement maybe forwarded to the concerned MoEFCC Regional Office for compliance and record.	
8)	The Project Proponent shall inform the MoEF&CC for any change in ownership of the mining lease. In case there is any change in ownership or mining lease is transferred than mining operation shall only be carried out after transfer of EC as per provisions of the para 11 of EIA Notification, 2006 as amended from time to time.	Noted
II.	Air quality monitoring and preservation	
9)	The Project Proponent shall install a minimum of 3(three) online Ambient Air Quality Monitoring Stations with 1 (one) in upwind and 2 (two) in downwind direction based on long term climatological data about wind direction such that an angle of 120° is made between the monitoring locations to monitor critical parameters, relevant for mining operations, of air pollution viz. PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PC1/1, dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone. The ambient air quality shall also be monitored at prominent places like office building, canteen etc. as per the site condition to ascertain the exposure characteristics at specific places. The above data shall be digitally displayed within 03 months in front of the main Gate of the mine site.	We have installed 3 NOS, CAAQMS at mines and the data are continuously being transferred to SPCB & CPCB as well as displayed at main gate of mine site. Also monitoring has been carried out by MoEF&CC recognized laboratory at 10 established locations. Ambient air quality monitoring data are within the limits, data enclosed as Annexure-5 .
10)	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metaled road construction etc.) shall be carried out in areas prone to air pollution wherein high levels of PM10 and PM2.5 are evident such as haul road, loading and unloading point and transfer points. The Fugitive dust emissions from all sources shall be regularly controlled by installation of required equipment/ machineries and preventive maintenance. Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of dust control system. It shall be ensured that air pollution level conform to the standards prescribed by the MoEFCC/ Central Pollution Control Board.	For prevention of dust generation and fugitive emission Water sprinkling is done regularly at loading, unloading and transfer points. At haul and transport road water sprinkling is being done through mobile water tanker and at Crusher area two tanker are continuously deployed for dust suppression. Ambient air quality monitoring is carried out regularly and parameters are within the limits. Monitoring data enclosed as Annexure - 5









CONTROL OVER FUGITIVE DUST EMISSION AT CRUSHER CIRCUIT, BELT CONVEYOR & HAUL ROAD









III. Water quality monitoring and preservation

11) In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational onlv after receivina formal clearance from CGWA. In case, mining operation involves intersection of ground water table at a later stage, then PP shall ensure that prior approval from CGWA and MoEFCC is in place before such mining operations. The permission for intersection of ground water table shall essentially be based on detailed hydro-geological study of the area

We are having the NOC of CGWA (No.- CGWA / NOC / MIN / ORIG / 2021 / 12308) for dewatering seepage and ground water from mining pits. Apply for renewal with application no. 21-4 / 9633 / RJ / MIN / 2018 dated 13.07.2023 enclosed as Annexure-3.

12) Regular monitoring of the flow rate of the springs and perennial nallahs flowing in and around the mine lease shall be carried out and records maintain. The natural water bodies and or streams which are flowing in an around the village, should not be disturbed. The Water Table should be nurtured so as not to go down below the pre-mining period. In case of any water scarcity in the area, the Project Proponent has to provide water to the villagers for their use. A provision for regular monitoring of water table in open dug well located in village should be incorporated to ascertain the impact of mining over ground water table. The Report on changes in Ground water level and quality shall be submitted on six-monthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.

Not applicable in our case as there is no springs and perennial nallahs flowing in and around the mine lease. Ground water is being monitored for the wells around the lease area by establishing a network. Four numbers piezometer wells have been installed for monitoring.

Monitoring of water level from wells surrounding mining lease is done 4 times in a year and chemical analysis has been carried out through Moef & CC recognized laboratory data enclosed as **Annexure-6**.





Ground water is being monitored for the wells around the lease area by establishing a network of four piezometer wells.





13) Project Proponent shall regularly monitor and Regular monitoring of water quality and ground maintain records w.r.t. ground water level and water level is being carried out. quality in and around the mine lease by establishing a network of existing wells as well Ground water is being monitored of the wells as new piezo-meter installations during the around the lease area by establishing a network. mining operation in consultation with Central Four numbers piezometer wells have been Ground Water Authority/ State Ground Water installed for monitoring. Department. The Report on changes in Ground water level and quality shall be submitted on six-Monitoring of water level from wells surrounding monthly basis to the Regional Office of the mining lease is done 4 times in a year and Ministry, CGWA and State Groundwater chemical analysis has been carried out through Department / State Pollution Control Board. Moef & CC recognized laboratory data enclosed as Annexure-7. 14) The Project Proponent shall undertake regular There is no springs and perennial nallahs existing monitoring of natural water course/ water and flowing in and around the mine lease. We are resources/ springs and perennial nallahs conducting regular monitoring of natural water existing/ flowing in and around the mine lease course/ water resources and nallahs around the and maintain its records. The project proponent mine lease to ensure that no natural watercourse shall undertake regular monitoring of water shall be obstructed due to any mining activity. quality upstream and downstream of water bodies passing within and nearby/ adjacent to Ground water is being monitored for the wells the mine lease and maintain its records. around the lease area by establishing a network. Sufficient number of gullies shall be provided at Monitoring is done 4 times in a year and chemical appropriate places within the lease for management of water. PP shall carryout regular analysis of samples collected is carried out. monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be Also installed Four number of Piezometers for monitored shall include their water quality vis-àground water monitoring. vis suitability for usage as per CPCB criteria and flow rate. It shall be ensured that no obstruction and/ or alteration be made to water bodies during mining operations without justification and prior approval of MoEFCC. The monitoring of water courses/ bodies existing in lease area shall be carried out four times in a year viz. premonsoon (April-May), monsoon (August), postmonsoon (November) and winter (January) and the record of monitored data may be sent regularly to Ministry of Environment, Forest and Climate Change and its Regional Office, Central Ground Water Authority and Regional Director, Central Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis. 15) Quality of polluted water generated from mining No polluted water is being generated from the operations which include Chemical Oxygen mines. Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall The mine workshop is having zero discharge and be monitored along with Total Suspended there is no waste water generation from the Solids (TDS), Dissolved Oxygen (DO), pH and mines hence treatment is not required. Oil and Total Suspended Solids (TSS). The monitored grease are regularly skimmed off and clean water data shall be uploaded on the website of the is re-circulated. company as well as displayed at the project site in public domain, on a display board at a suitable location near the main gate of the Company. The circular No 20012 / 1 / 2006-IA.II (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.

Project Proponent shall plan, develop and implement rainwater harvesting measures on long term basis to augment ground water resources in the area in consultation with Central Ground Water Board/ State Groundwater Department. A report on amount of water recharged needs to be submitted to Regional Office MoEF&CC annually.

Rain water harvesting pit in around 18 hectares area is developed to store around 4.0 lac m³ of water. Rain runoff water is being used in harvesting pits.



RAIN WATER HARVESTING PIT









17) Industrial waste water (workshop and waste water from the mine) should be properly collected and treated so as to conform to the notified standards prescribed from time to time. The standards shall be prescribed through Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB). The workshop effluent shall be treated after its initial passage through Oil and grease trap.

There is no wastewater generated from mines. HEMM washing generates wastewater and to overcome this a system has been developed in which oil and grease are regularly skimmed off, and clean water is re-circulated, oil separator photo attached as **Annexure-8**.

The water balance/water auditing shall be carried out and measure for reducing the consumption of water shall be taken up and reported to the Regional Office of the MoEF&CC and State Pollution Control Board/Committee.

We are regularly conducting the Water auditing for the project area to reducing the consumption of water. We are taking technical consultancy of CII-Triveni Water Institute to carry out Water balancing & water auditing.

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IV.	Noise monitoring and prevention	
19)	The peak particle velocity at 500 m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines.	We will comply it once the blasting activity will resume in our mining project. As per the restriction of Hon'ble Court, blasting operations being stopped and against the Order of Hon'ble High Court of Jodhpur, Rajasthan dated 25.5.2012, SLP is filed in Hon'ble Supreme Court and in interim decision, on 29.7.2013 mechanical mining without use of explosives has been permitted, final decision is awaited.
20)		
21)	The Project Proponent shall take measures for control of noise levels below 85 dB in the work environment. The workers engaged in operations of HEMM, etc. should be provided with ear plugs /muffs. All personnel including laborers working in dusty areas shall be provided with protective respiratory devices along with adequate training, awareness and information on safety and health aspects. The PP shall be held responsible in case it has been found that workers/ personals/ laborers are working without personal protective equipment.	All necessary PPEs are made available along with regular training & awareness program on safety & health aspects. Noise level monitoring is also being conducted regularly. Regular maintenance of HEMM is being ensured for smooth working. Lubrication and maintenance are routine activities for all HEMM.
V.	Mining plan	
22)	The Project Proponent shall adhere to the working parameters of mining plan which was submitted at the time of EC appraisal wherein year-wise plan was mentioned for total excavation i.e. quantum of mineral, waste, over burden, inter burden and top soil etc. No change in basic mining proposal like mining technology, total excavation, mineral & waste production, lease area and scope of working (viz. method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining etc.) shall not be carried out without prior approval of the Ministry of Environment, Forest and Climate Change, which entail adverse environmental impacts, even if it is a part of approved mining plan modified after grant of EC or granted by State Govt. in the form to Short Term Permit (STP), Query license or any other name.	Noted for compliance.

00)		
23)	The land-use of the mine lease area at various	Noted for compliance.
	stages of mining scheme as well as at the end-of-life	
	shall be governed as per the approved Mining Plan.	
	The excavation vis-a-vis backfilling in the mine lease	
	area and corresponding afforestation to be raised in	
	the reclaimed area shall be governed as per	
	approved mining plan. PP shall ensure the	
	monitoring and management of rehabilitated areas	
	until the vegetation becomes self-sustaining. The	
	compliance status shall be submitted half-yearly to	
VI.	the MoEFCC and its concerned Regional Office. Land Reclamation	
24)	The Overburden (O.B.) and waste generated during	Noted for compliance.
24)	the mining operations shall be stacked at earmarked	Noted for compliance.
	OB dump site(s) only and it should not be kept active	
	for a long period of time. The physical parameters of	
	the OB dumps like height, width and angle of slope	
	shall be governed as per the approved Mining Plan	
	as per the guidelines/circulars issued by D.G.M.S	
	w.r.t. safety in mining operations shall be strictly	
	adhered to maintain the stability of top soil/OB	
	dumps. The topsoil shall be used for land	
	reclamation and plantation.	
25)	The reclamation of waste dump sites shall be done	Noted
23)	in scientific manner as per the Approved Mining Plan	Noted
	cum Progressive Mine Closure Plan.	
26)	The slope of dumps shall be vegetated in scientific	Waste dumps are active; however, we are
20)	manner with suitable native species to maintain the	covering slope portion of dumps with grass
	slope stability, prevent erosion and surface run off.	seeding where ultimate dumping is being
	The selection of local species regulates local	carried out. We are also using sand bags or
	climatic parameters and help in adaptation of plant	rain cuts to prevent soil erosion. Photograph
	species to the microclimate. The gullies formed on	of stabilized dumps and bund is enclosed as
	slopes should be adequately taken care of as it	Annexure- 9
	impacts the overall stability of dumps. The dump	
	mass should be consolidated with the help of dozer/	
	compactors thereby ensuring proper filling/ leveling	
	of dump mass. In critical areas, use of geo textiles/	
	geo-membranes / clay liners / Bentonite etc. shall be	
	undertaken for stabilization of the dump.	
27)	Catch drains, settling tanks and siltation ponds of	Catch drains and siltation ponds of
,	appropriate size shall be constructed around the	appropriate size have been constructed to
	mine working, mineral yards and Top Soil/OB/Waste	arrest silt and sediment which may flow from
	dumps to prevent run off of water and flow of	soil, OB and mineral dumps. Dumps are
	sediments directly into the water bodies (Nallah/	small in size; hence this problem is not acute
	River/ Pond etc.). The collected water should be	The drains are being regularly de-silted
	utilized for watering the mine area, roads, green belt	Garland drain of appropriate size, gradien and length has been constructed along al
	development, plantation etc. The drains/	dumps.
	sedimentation sumps etc. shall be de-silted	
	regularly, particularly after monsoon season, and	
	maintained properly.	
	aaou proporty.	<u> </u>

28) Check dams of appropriate size, gradient and length shall be constructed around mine pit and OB dumps to prevent storm run-off and sediment flow into adjoining water bodies. A safety margin of 50% shall be kept for designing of sump structures over and above peak rainfall (based on 50 years data) and maximum discharge in the mine and its adjoining area which shall also help in providing adequate retention time period thereby allowing proper settling of sediments/ silt material. The sedimentation pits/ sumps shall be constructed at the corners of the garland drains.

Main dumps are rock dumps with associated clays. Dumps are small in dimensions and rain fall is less in this area, hence wash offs of dumps are not an acute problem. However, garland drain structures are constructed around overburden dumps to prevent storm runoff and sediment flow into surrounding water bodies.





Garland drains structures are constructed around the over burden dumps



Garland Drain Along Dumps



Settling Tanks in 1.50 Hect.



Rain Water Flowing in Garland Drain



Settling Tanks Goggle Image

29) The top soil, if any, shall temporarily be stored at earmarked site(s) within the mine lease only and should not be kept unutilized for long. The topsoil shall be used for land reclamation and plantation purpose.

In most of the lease area limestone is outcropping on surface and quantity of top soil is meager. However, whatever generating is being used directly at the lease boundary for plantation.

VII. Transportation

30)

The Main haulage road within the mine lease should be provided with a permanent water sprinkling arrangement for dust suppression. Other roads within the mine lease should be wetted regularly with tanker mounted water sprinkling system. The other areas of dust generation like crushing zone, material transfer points, material yards etc. Should invariably be provided with dust suppression arrangements. The air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system etc. shall be installed at Crushers, belt-conveyors and other areas prone to air pollution. The belt conveyor should be fully covered to avoid generation of dust while transportation. PP shall take necessary measures to avoid generation of fugitive dust emissions.

Two water tankers of 15 KL capacity and one of 25 KL capacity are in operation and on each tanker pumps and rain guns have been provided for pressurized spray.

Automatic dust suppression is in practice on loaded dumpers before unloading to crusher hopper. Dust suppression is done in crusher hopper and all material transfer points.

Two tankers are continuously plying for dust suppression in each shift. Water spraying arrangement through nozzles has been provided at Hopper and Impactors, along conveyor belts and other material transfer points in the crusher and material conveying system to ensure that the Ambient Air Quality parameters conform to the norms prescribed by the Central Pollution Control Board in this regard. Bag filters are installed at crusher.



VIII. Green Belt

31) The Project Proponent shall carryout plantation/ afforestation in backfilled and reclaimed area of mining lease, around water body, along the roadsides, in community areas etc. by planting the native species in consultation with the State Forest Department / Agriculture Department / Rural development department / Tribal Welfare Department / Gram Panchayat such that only those species be selected which are of use to the local people. The CPCB guidelines in this respect shall also be adhered. The density of the trees should be around 2500 saplings per Hectare. Adequate budgetary provision shall be made for protection and care of trees. 32)

Intensive plantation work was carried out by us and during 2023-24, 6000 saplings planted in the mine area, details and Photographs of the same attached for reference, as **Annexure - 1**.

The Project Proponent shall make necessary alternative arrangements for livestock feed by developing grazing land with a view to compensate those areas which are coming within the mine lease. The development of such grazing land shall be done in consultation with the State

We have been permitted for mining on grazing land under Sec. 89 of Rajasthan Land Revenue Act, 1956 by the State Govt. vide order dated 5.7.1984 passed by Collector, Chittorgarh (Raj.) in Case. No.20/1983 and we are complying the conditions the said order.

33)	Government. In this regard, Project Proponent should essentially implement the directions of the Hon'ble Supreme Court with regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should scrupulously guarded/ protected against felling and plantation of such trees should be promoted. The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and	Our proposal for the approval of NBWL (FP/RJ/MIN/665/2016) was sanctioned on 30 th September 2020. After obtaining its final
	Schedule-I species during mining operation. A Wildlife Conservation Plan shall be prepared for the same clearly delineating action to be taken for conservation of flora and fauna. The Plan shall be approved by Chief Wild Life Warden of the State Govt.	sanction, we are in the consultation with the office of Deputy Conservator of Forests-WL for the implementations of all the conditions and the recommendations as per the approval letter. Biodiversity Conservation Plan for our mines is also submitted to DFO (Wildlife) Chittorgarh. Dcf Chittorgarh had asked for reply on short coming again, raised by PCCF & Chief wild life warden and DCF Chittorgarh recommended our reply to CCF Udaipur on 6.11.2023.
IX.	Public hearing and human health	
34)	The Project Proponent shall appoint an Occupational Health Specialist for Regular as well as Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines. The records shall be	We are continuously conducing Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines and maintaining its record properly. Routine health checkup is being done by
	maintained properly. PP shall also carryout Occupational health check-ups in respect of workers which are having ailments like BP, diabetes, habitual smoking, etc. The check-ups shall be undertaken once in six months and necessary remedial/ preventive measures be taken. A status report on the same may be sent to MoEFCC Regional Office and DGMS on half-yearly basis.	qualified medical officers for all the workmen. During calendar year 2023, examination for 272 persons engaged in mines working is carried out. This includes initial examination of 67 workers and periodical examination of 16 workers and staff. Annexure- 10.
35)	The Project Proponent must demonstrate commitment to work towards 'Zero Harm' from their mining activities and carry out Health Risk Assessment (HRA) for identification workplace hazards and assess their potential risks to health and determine appropriate control measures to protect the health and wellbeing of workers and nearby community. The proponent shall maintain accurate and systematic records of the HRA. The HRA for neighborhood has to focus on Public Health Problems like Malaria, Tuberculosis, HIV, Anemia, Diarrhea in children under five, respiratory infections due to bio mass cooking. The proponent shall also create awareness and educate the nearby community and workers for Sanitation, Personal Hygiene, Hand washing, not to defecate in open, Women Health and Hygiene (Providing Sanitary Napkins), hazard of tobacco and alcohol use. The Proponent shall carryout base line HRA for all the category of workers and thereafter every five years.	Unit is committed towards working for safe and healthy environment. Scheduled health assessment of every worker is being carried out. Company is undertaking Health Risk Assessment for various hazards. The hazards are identified as per the routine activities and sub activities. The Risk mitigation Measures are being undertaken as per the present risk matrix. External safety experts are available to further strengthen the system of zero harm across the company facilities.

36)	The Proponent shall carry out Occupational health surveillance which be a part of HRA and include Biological Monitoring where practical and feasible, and the tests and investigations relevant to the exposure (e.g. for Dust a X-Ray chest; For Noise Audiometric; for Lead Exposure Blood Lead, For Welders Full Ophthalmologic Assessment; for Manganese Miners a complete Neurological Assessment by a Certified Neurologist, and Manganese (Mn) Estimation in Blood; For Inorganic Chromium- Fortnightly skin inspection of hands and forearms by a responsible person. Except routine tests all tests would be carried out in a Lab accredited by NABH. Records of Health Surveillance must be kept for 30 years, including the results of and the records of Physical examination and tests. The record of exposure due to materials like Asbestos, Hard Rock Mining, Silica, Gold, Kaolin, Aluminum, Iron, Manganese, Chromium, Lead, Uranium need to be handed over to the Mining Department of the State in case the life of the mine is less than 30 years. It would be obligatory for the State Mines Departments to make arrangements for the safe and secure storage of the records including X-ray. Only conventional X-Ray will be accepted for record purposes and not the digital one). X-Ray must meet ILO criteria (17 x14 inches and of good quality).	A dedicated occupational health center being operated with qualified MBBS doctors. Besides this, medical staff is present round the clock. Annual medical checkup is being done for all the workers' health records are being maintained. A team of medical experts from MP Birla Hospital organizes regular camps in the premises of company. The medical team collects samples of all staff and workers for various parameters and after testing, a report is prepared. Expert medical practitioners are advising the deviation found in any as Annexure-10.
37)	The Proponent shall maintained a record of performance indicators for workers which includes (a) there should not be a significant decline in their Body Mass Index and it should stay between 18.5 -24.9, (b) the Final Chest X-Ray compared with the base line X-Ray should not show any capacities, (c) At the end of their leaving job there should be no Diminution in their Lung Functions Forced Expiratory Volume in one second (FEV1), Forced Vital Capacity (FVC), and the ratio) unless they are smokers which has to be adjusted, and the effect of age, (d) their hearing should not be affected. As a proof an Audiogram (first and last need to be presented), (e) they should not have developed any Persistent Back Pain, Neck Pain, and the movement of their Hip, Knee and other joints should have normal range of movement, (f) they should not have suffered loss of any body part. The record of the same should be submitted to the Regional Office, MoEFCC annually along with details of the relief and compensation paid to workers having above indications.	Routine health checkup is being done by qualified medical officers for all the workmen. During calendar year 2023, examination for 272 persons engaged in mines working is carried out. This includes initial examination of 67 workers and periodical examination of 16 workers and staff. A team of medical experts from MP Birla Hospital organizes regular camps in the premises of company. The medical team collects samples of all staff and workers for various parameters and after testing, a report is prepared. Expert medical practitioners are advising the deviation found in any as Annexure-10
38)	The Project Proponent shall ensure that Personnel working in dusty areas should wear protective respiratory devices and they should also be provided with adequate training and information on	Workmen working in mining lease area are being using appropriate PPEs. The PPEs are provided as per DGMS rules. Adequate training-calendar exists and all workmen are
39)	safety and health aspects. Project Proponent shall make provision for the housing for workers/labours or shall construct labor	have to undergone training. The expansion is within the existing mining lease area and the workers which are working
	camps within/outside (company owned land) with	in mines are residing in the well-developed

	necessary basic infrastructure/ facilities like fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche for kids etc. The housing may be provided in the form of temporary structures which can be removed after the completion of the project related infrastructure. The domestic waste water should be treated with STP in order to avoid contamination of underground water.	existing housing colony, the housing colony has 500 KLD STP for treatment of domestic water.	
addressing the issues raised during the Public Hearing shall be completed as per the budgetary provisions mentioned in the Action Plan and within the stipulated time frame. The Status Report on implementation of Action Plan shall be submitted to the concerned Regional Office of the Ministry along with District Administration. Concerns raised during properties being implemented. Septiment to be an actioned from a progress of the same is being implemented. Septimented to be progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented. Septimented to progress of the same is being implemented.		The action plans has been prepared and concerns raised during public hearing are being implemented. Separate budget has been sanctioned from management. The progress of the same is being submitted on periodic basis.	
Χ.	Miscellaneous		
41)	The Project Proponent shall prepare digital map (land use & land cover) of the entire lease area once in five years purpose of monitoring land use pattern and submit a report to concerned Regional Office of the MoEF&CC.	prepared latest report of land use/land cov analysis for our mining lease Birla Ceme Limestone Mine and its buffer zone by usir remote sensing techniques, durir December 2022 enclosed as Annexure-11	
42)	The Project Authorities should inform to the Regional Office regarding date of financial closures and final approval of the project by the concerned authorities and the date of start of land development work.	Noted for compliance.	
43)	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC &its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	Six monthly compliance reports are being prepared and progress of the same is shared to RO, MoEF&CC and SPCB. Previous sixmonthly compliance submitted vide letter number BCW/SD/L-5/3433 dated 28 th November 2023.	
44)	A separate 'Environmental Management Cell' with suitable qualified manpower should be set-up under the control of a Senior Executive. The Senior Executive shall directly report to Head of the Organization. Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and submit a report to RO, MoEF&CC.	A full-fledged Environment management SD cell with a dedicated lab with qualified manpower headed by AVP Environment exist and are involved in the environment management at site. Four Environmental managers and Geologist are engaged in various environmental improvement plans and program at sites as Annexure- 12	
45)	The concerned Regional Office of the MoEFCC shall randomly monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the MoEFCC officer(s) by furnishing the requisite data / information / monitoring reports.	Noted	
46)	The mining lease holders shall, after ceasing mining operations, undertake re-grossing the mining area and any other area which may have been disturbed due to their mining activities and restore the land to a condition which is fit for growth of fodder, flora,	Noted	

(Digendra Singh Solanki) Manager – Geology

BIRLA CEMENT WORKS LIMESTONE MENES (Villages Bherda, Jai, Surjana and Nagri)

DETAILS OF PLANTATION AT MINES Within ML and Outside ML

Sl. No.	Year	Within ML area	Outside ML area	Total	Survival %
1	Total Up To 2014-2015	90643	73547	164190	78%
2	2015-2016	2000	1000	3000	85%
3	2016-2017	2780	2250	5030	84%
4	2017-2018	1500	2600	4100	90%
5	2018-2019	1250	700	1950	91%
6	2019-2020	2250	640	2890	89%
7	2020-2021	29900	2500	32400	89%
8	2021-2022	6215	1785	8000	95%
9	2022-2023	1320	0	1320	92%
10	2023-2024	3000	3000	6000	92%
	Total	140858	88022	228880	

Type of species Planted: -

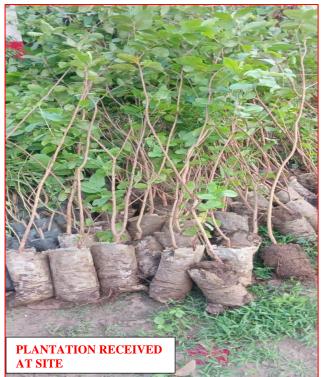
Neem Katchanar
Amaltash Billpatra
Anwala Akasia
Pipal Seethaphal
Ratanjot Bargad &

Shisham Other fruit bearing tree

Amrood Bad

Plantation Activity of FY 2023-24











CSR EXPENDITURE 2023-24 BUDGET AND ACTUAL

	Annual Budget Plan, FY: 2023-24			
S.N	Theme/Programme	UoM	Budget (In Lacs)	Actual Expenses (in Lakhs)
Α	HEALTHCARE, HYEGINE & SANITATION		16.99	16.25
A-1	Health & Nutrition Project (PECSS): Support on Health, Hygiene and Nutrition aspect to Mother & Child & Community including aganwadies	Project	12.49	11.89
A-2	Infrastrucutre Support to Anganwadi Centers- Renovation	No. of AWC	4.50	4.36
A-3	General/Eye Health Camp/Health Awareness programme	No. of Camp	-	0.00
В	EDUCATION		22.43	24.08
B-1	Support to Students on supplementary education as		7.46	7.13
B-2	School Infrastrucutre Support including repairing, Toilet & Water Facility, boundary wall, colouring etc in Govt. Schools	No. School	7.96	7.98
B-3	Digital Classroom setup for Digital Education	No. School	3.68	3.12
B-4	Furniture for student	No. of Furniture	3.00	5.52
B-5	Scholarship Support	Student	0.33	0.33
С	LIVELIHOOD & WOMEN EMPOWERMENT		47.32	48.24
C-1	"Integrated Watershed Development Project for Livelihood Support to Farmers & Underprivileged Community (SMGVS)	Project	43.78	43.77
C-2	Skill Development Project (PECSS) Project (Bedside Nursing, Coaching on Job/Employement)	Project	3.54	4.46
D	ENVIRONMENT & ENERGY		10.05	9.34
D-1	Solar Lights for Renewable Energy	No	5.03	4.41
D-2	Maintainance of Kapasan circle & Bherda Divider	No	2.10	2.10
D-3	Maintenance of garden at Sanwaria Govt Hospital, Chittorgarh	No	1.83	1.74
D-4	Plantation in Surrounding Area	No	0.615	0.63
D-5	Tree Guard	No	0.470	0.47
Е	RURAL INFRA & WATER		19.71	19.02
E-1	Drinking Water Supply through Tankers to Community in Summer season	No. village	2.46	2.46
E-2	Drinking Water Facility for Community/motor/boring/pipeline/Solar based water supply etc.	Area	4.25	2.90
E-5	Development of infrastructure as per Community & stakeholders Need (CC ROAD/Boundary Wall/Fencing/PashuKhel/Repairing of Health Centre/Cremation construction/Rural Infra. etc.)	L-Sum	13.00	13.67
F	Community Outreach		7.50	7.42
F-1	Community Outreach: To Cater to misc. requirements from local/near by stakeholders (around Mines-Chanderia & Chittorgarh.) To be decided on merit/buisness need by local management.	L-Sum	7.50	7.42
	Total (A+B+C+D+E+F+G)		124.00	124.36



भारत सरकार जल खेकी गेंबलय जल संसाधन, नदी गिकास और गंगा संरक्षण विभाग बंग्नीय भूगि जल प्रशिकत्व Government of India Ministry of Jai Shakti Department of Water Resources, River Development & Ganga Rejuvenation Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र) NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION

Project Name:	M/s Birta Corporation I	M/s Birla Corporation Limited			
Project Address:	M/s Birla Corporation I	M/s Birla Corporation Limited, Birla Cement Limestone Mine			
VIIage:	Jal	Block:	Chittaurgarh		
District:	Chittorgarh	State:	Rajasthan		
Pin Code:			XX		
Communication Address:	M/s Birla Corporation I Chittorgarh, Rajasthan		t Limestone Mine,	Chittaurgarh,	
Address of CGWB Regional Office:	Central Ground Water Rajasthan - 302004	ntral Ground Water Board Western Region, 6-a, Jhalana Doongri, Jaipur,			

1.	NOC No.:		CGWAINOX	CGWA/NOC/MIN/ORIG/2021/12308										
2.	Application	No.:	21-4/9633/F	1-4/9633/RJ/MIN/2018				3.	Cate (GW	gory: RE 2017	Ov	Over Exploited		
4.	Project St	atus:	Existing Pro	Existing Project				5.	NOC	Type:	Ne	w		
6.	Valid from	n:	15/07/2021					7.	Valid	up to:	14	07/202	3	
8.	Ground W	ater Abs	traction Permi	tted:										
	Fresh	Water		Saline	Water	1		De	water	ring		Total		
	m²/day	m²/y	ear m³	/day	m	'year	ear m³/da		m³/year		m'	m³/day m³/year		/year
	0.00	0.0	00				7	57.00		249810.0	00			
9.	Details of	ground v	vater abstracti	on /Dev	vatering	stru	ctures							
			Total Exte	ting No	.:4						Total Prop	nosed N	lo.:0	
			DW	DCB	BW	TW	MP	MPu	DV	V DC8	BW	TW	MP	MPu
	Dewatering	Structu	re" 0	0	0	0	4	0	0	0	0	0	0	0
*DV	V- Dug West, D	CB-Dug-ox	m-Bore Well, BV	-Bore We	et, TW-T	ube W	WI, MP-Min	· PILMPL	-Mine	Pumps				
10.	Ground W	later Abs	traction/Resto	ration C	tharge	pald	(Rs.):				2498	100.00		
 Number of Piezometers/Observation wells) to be constructed/monitored & Monitoring mechanism. 		n.	No. of P	lezome	ters		Monitorir	g Mech	nanism					
										Manual	DWLR"	DWLF	R With T	elemet
	"DWLR - DI	gital Water	Level Recorder					2		0	1		1	

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 19011 / 18/11, Januager House, Massingh Read, New Delbi-19011 Phone: (011) 23383561 Fax: 23382051, 23386743 Website: cgra-noc.gsv.in

पानी बचार्य - जीवन बचार्य SAVE WATER - SAVE LIFE

RENEWAL APPLICATION

Government of India Ministry of Jal Shakti Department of Water Resources, River Development and Ganga Rejuvenation Central Ground Water Authority (CGWA) Application for Issue of NOC to Abstract Ground Water (NOCAP)

Application for Renewal of NOC to Dewater Ground Water for Mining Industry (Save As Draft Application for Renewal of NOC)

Application Number: 21-4/9633/RJ/MIN/2018

Applied For Renewal: 1st

1.	General Information:						
	Water Quality:	Fresh Water					
	Purpose of Renewal Application:	Existing with Additional Ground Water Requirment					
	Application Type Category/ Type of Application	Limestone					
2.	Name of Mine/Project:	M/S BIRLA CORPORATION LIMITED					
3.	Location Details of the Mining Unit- (Attach Site, A Outside) (\$):	Approved Mining Plan, Toposketch of Surrounding 10km Radiu					
	Address Line 1 :	M/S BIRLA CORPORATION LIMITED					
	Address Line 2 :	BIRLA CEMENT LIMESTONE MINE					
	Address Line 3 :						
	State:	RAJASTHAN					
	District:	CHITTORGARH					
	Sub-District:	CHITTAURGARH					
	Village/Town:	Jai					
	Latitude:						
	Logitude:						
	Area Type :	Notified					
	Area Type Category :	Over Exploited					
4.	Communication Address						
	Address Line 1:	M/S BIRLA CORPORATION LIMITED					
	Address Line 2:	BIRLA CEMENT LIMESTONE MINE					
	Address Line 3:						
	State:	RAJASTHAN					
	District:	CHITTORGARH					
	Sub-District:	CHITTAURGARH					
	Pincode:	312001					
	Phone Number with Area Code:	91 1472 259614					
	Mobile Number:	91 9829033162					
	Fax Number:						
	E-Mail:	vinod.paliwal@birlacorp.com					
5.							
	NOC Letter No:	CGWA/NOC/MIN/ORIG/2021/12308					
	Date of Issuance:	15/07/2021					
	Vailidity (Start):	15/07/2021					

Annexure 4

DETAILS OF AIR POLLUTION CONTROL EQUIPMENT (A.P.C.E)

Sr. No.	Section/ Location	APCE Installed	Total Numbers
1.	Mines	1. Water sprinklers	4
		2. In-built water Injection system in drill	4
		machines	
		3. Hydraulic rock breakers & Splitters	11
2.	Crusher	Water spraying system	7
3.	OLBC	B.D Cs (Bag Dust Collectors)	2
		Total number of A.P.C.E.	28

Monthly Average Results of AAQM October 2023 to December 2023

Birla Cement Limestone Mines (Villages - Bherda, Jai, Surjana and Nagri)

	S	Station	Month		Average Val	ues in µg/m³	
	No.	Station	Month	PM ₁₀	PM _{2.5}	NO _X	SO ₂
	1		October, 2023	65.35	35.25	15.95	9.95
	2	CA - 1	November, 2023	69.25	33.35	16.60	10.35
	3		December, 2023	68.33	30.25	17.35	12.25
ш	4		October, 2023	70.25	38.25	19.25	9.45
Z	5	CA - 2	November, 2023	68.35	37.66	20.15	9.25
2 0	6		December, 2023	66.25	39.33	16.35	8.25
ш	7		October, 2023	70.25	35.68	17.25	9.85
8	8	CA - 3	November, 2023	69.95	39.25	19.20	10.15
0	9		December, 2023	68.88	36.35	20.25	9.85
	10		October, 2023	70.15	30.85	19.35	8.95
	11	CA - 4	November, 2023	67.35	31.35	18.55	9.35
	12		December, 2023	66.35	36.25	19.35	10.15
	13		October, 2023	67.35	34.55	18.65	8.35
	14	CA - 5	November, 2023	69.66	37.25	20.45	9.95
	15		December, 2023	70.25	36.35	17.25	8.95
	16		October, 2023	68.35	33.25	17.44	10.25
	17	BA - 1	November, 2023	66.25	35.35	15.34	8.65
	18		December, 2023	64.35	39.25	16.23	9.85
	19		October, 2023	69.35	34.20	18.35	8.95
ш	20	BA - 2	November, 2023	68.45	31.65	17.34	10.35
Z	21		December, 2023	66.65	39.30	19.25	10.45
Ν	22		October, 2023	70.65	32.25	19.33	9.85
E E	23	BA - 3	November, 2023	68.25	38.35	18.45	9.55
ш	24		December, 2023	64.35	36.25	19.45	9.85
J H	25		October, 2023	69.25	33.22	18.25	8.95
В	26	BA - 4	November, 2023	70.55	37.65	18.35	8.45
	27		December, 2023	68.35	38.25	17.35	10.25
	28		October, 2023	69.35	34.25	19.35	9.35
	29	BA - 5	November, 2023	70.12	36.35	19.65	10.35
	30		December, 2023	68.35	32.25	20.15	9.65

Station Code	Location	Station Code	Location
CA - 1	Rampuria Water Pump	BA - 1	New Sanwaria Nagar
CA - 2	Surjana Pump	BA - 2	Moonga ka Kheda
CA - 3	Near Crusher	BA - 3	Higher Sec.School Nagri
CA - 4	Near Jai Temple	BA - 4	Sub Station OLBC
CA - 5	Pump House Bherda	BA - 5	Director Bunglow

Monthly Average Results of AAQM January 2024 to March 2024

Birla Cement Limestone Mines (Villages - Bherda, Jai, Surjana and Nagri)

	S	Ctation	Month		Average Val	ues in µg/m³	
	No.	Station	Month	PM ₁₀	PM _{2.5}	NOx	SO ₂
	1		January, 2024	66.25	32.55	16.25	10.10
	2	CA - 1	February, 2024	68.66	34.66	17.45	9.65
	3		March, 2024	69.25	35.15	15.25	8.95
ш	4		January, 2024	65.85	37.25	20.55	9.45
Z	5	CA - 2	February, 2024	67.80	38.35	18.25	8.25
20	6		March, 2024	69.22	39.55	17.21	8.95
ш	7		January, 2024	70.55	36.55	18.35	9.25
₩.	8	CA - 3	February, 2024	68.25	38.85	20.25	10.25
0	9		March, 2024	69.15	37.25	19.56	8.95
	10		January, 2024	68.35	34.25	18.25	9.45
	11	CA - 4	February, 2024	65.25	35.55	17.45	9.75
	12		March, 2024	68.35	37.65	20.65	9.90
	13		January, 2024	69.25	35.66	19.35	8.75
	14	CA - 5	February, 2024	68.55	38.25	18.55	9.75
	15		March, 2024	69.22	39.15	16.65	8.45
	16		January, 2024	68.65	34.25	18.66	9.85
	17	BA - 1	February, 2024	67.35	36.45	16.55	9.55
	18		March, 2024	68.35	38.65	17.50	8.99
	19		January, 2024	70.15	35.70	17.45	9.10
ш	20	BA - 2	February, 2024	68.33	32.45	16.85	10.15
Z	21		March, 2024	67.25	38.85	18.55	9.85
N	22		January, 2024	69.35	33.25	17.55	10.10
П	23	BA - 3	February, 2024	68.55	39.65	16.95	9.35
ഥ	24		March, 2024	67.35	37.25	19.55	8.80
U F	25		January, 2024	70.45	34.55	18.45	9.65
Δ	26	BA - 4	February, 2024	69.35	38.65	16.35	8.75
	27		March, 2024	67.25	39.26	19.65	10.10
	28		January, 2024	70.25	35.68	20.15	9.55
	29	BA - 5	February, 2024	68.65	37.45	18.55	10.22
	30		March, 2024	66.35	34.25	19.10	8.80

Station		Station	
Code	Location	Code	Location
CA - 1	Rampuria Water Pump	BA - 1	New Sanwaria Nagar
CA - 2	Surjana Pump	BA - 2	Moonga ka Kheda
CA - 3	Near Crusher	BA - 3	Higher Sec. SchoolNagri
CA - 4	Near Jai Temple	BA - 4	Sub Station OLBC
CA - 5	Pump House Bherda	BA - 5	Director Bunglow

AUTOMATIC WATER LEVEL RECORDER (AWLR) PIEZOMETER)

October 2023 to March 2024 Monthly data

Report Name				Report Name	Report Name		Complete day wise sensor report	
		Complete day wise	Complete day wise sensor report		project Name		Birla Cement Works	
project Name		Birla Cement Works				Chittorgarh 2		
Location		Chittorgarh 1		Location		(Behind contract	tor camp)	
Location		(Near mines Admin)		Device Name		AWLR (fitted wit		
Device Name		AWLR (fitted with P	iezometer)				contractor camp	
Date	Time	Near mi	ines Admin	Date	Time	Reading(m)	Voltage(V)	
Date	Time	Reading(m)	Voltage(V)	03.10.2023	15:16:38	22.18	11.49	
02.10.2023	09:05:59	23.14	12.23	02.11.2023	08:22:32	21.32	12.96	
05.11.2023	10:37:39	23.13	10.69					
03.12.2023	08:46:57	23.19	12.19	03.12.2023	07:12:12	21.92	12.67	
06.01.2024	15:14:38	26.29	11.25	06.01.2024	14:16:38	24.58	11.10	
03.02.2024	08:20:32	26.30	12.22	03.02.2024	11:22:32	24.55	11.50	
03.03.2024	07:10:12	26.49	11.25	04.03.2024	10:12:12	24.52	11.30	
Report Name		Complete day wise sensor report		Report Name		Complete day wise sensor report		
project Name		Birla Cement Works		project Name		Birla Cement Works		
Location		Chittorgarh 3 (Nagri pit)		Location		Chittorgarh 4 (Rampuriya substation)		
Device Name		AWLR (fitted with Piez	ometer)	Device Name		AWLR (fitted with Piezometer)		
D-1-	т	Nag	ri pit	Date	Time	Rampuriya substation		
Date	Time	Reading(m)	Voltage(V)	Date	Time	Reading(m)	Voltage(V)	
01.10.2023	09:59:55	19.65	10.23	01.10.2023	08:42:29	14.24	11.55	
04.11.2023	08:24:45	21.93	12.59	03.11.2023	09:36:06	14.27	12.65	
05.12.2023	10:26:58	19.87	11.41	01.12.2023	10:18:32	14.91	13.25	
04.01.2024	09:15:38	26.18	12.25	02.01.2024	09:16:38	14.80	11.55	
05.02.2024	10:20:32	26.17	10.35	03.02.2024	07:22:32	14.77	11.39	
06.03.2024	11:10:12	25.88	12.30	05.03.2024	11:12:12	14.81	12.25	

CHEMICAL ANALYSIS OF GROUNDWATER SAMPLES FROM M.O.E.F. RECOGNISED LABORATORY



APEX Enviro Laboratory

(Unit of Apex Mintech Consultants)

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Date-02/10/2023

TEST REPORT

: W-20230928059 Report No. Birla Cement Works

Issued to Madhav Nagar, Chanderia, Chittorgarh-312021 Address

Jai Mine Pit (Rampunya) Sampling Location

28/09/2023 Date of Sample Collection 28/09/2023 Date of Receipt

28/09/2023 to 02/10/2023 Date of Testing

Type of Sample Mine sump

Bureau of Indian Standard Testing Protocol

RESULT

S. N.	Parameters	Observed Value	Test Methods
1.	pH at 25°C	7.8	IS-3025(Part-11):1983(RA2002)
2.	Turbidity (NTU)	0.2	IS-3025(Part-10):1984(RA2002)
3.	Total Hardness (CaCO ₃) (mg/l)	180	IS-3025(Part-21):1983(RA2009)
4.	Total dissolved solids (mg/l)	270	IS-3025(Part-16):1984(RA2006)
5.	Calcium as Ca (mg/l)	49.6	IS-3025(Part-40):1991(RA2003)
6.	Magnesium as mg (mg/l)	13.44	IS-3025(Part-46):1994(RA2003)
7.	Alkalinity as CaCO ₃ (mg/l)	120	IS-3025(Part-23):1986(RA2006)
8.	Sulphate as SO ₄ (mg/l)	27	IS-3025(Part-24):1986(RA2003)
9.	Lead as Pb (mg/l)	< 0.01	APHA(PP3.18to3.20)

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The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.





R. L Agrawal Technical Manager)

Pg. 1 of 1



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Date-02/10/2023

TEST REPORT

W-20230928060 Report No. Birla Cement Works

Issued to Madhav Nagar, Chanderia, Chittorgarh-312021 Address

Surjana Mine Pit Sampling Location 28/09/2023 Date of Sample Collection 28/09/2023

Date of Receipt 28/09/2023 to 02/10/2023 Date of Testing

: Mine sump Type of Sample Bureau of Indian Standard **Testing Protocol**

RESULT

~ **	D in the state of	Observed Value	Test Methods
S. N.	Parameters	7.4	IS-3025(Part-11):1983(RA2002)
1.	pH at 25°C	0.3	IS-3025(Part-10):1984(RA2002)
2.	Turbidity (NTU)	160	IS-3025(Part-21):1983(RA2009)
3.	Total Hardness (CaCO ₃) (mg/l)	275	IS-3025(Part-16):1984(RA2006)
4	Total dissolved solids (mg/l)	39.2	IS-3025(Part-40):1991(RA2003)
5.	Calcium as Ca (mg/l)		IS-3025(Part-46):1994(RA2003)
6.	Magnesium as mg (mg/l)	14.88	IS-3025(Part-23):1986(RA2006)
7.	Alkalinity as CaCO ₃ (mg/l)		IS-3025(Part-24):1986(RA2003)
8.	Sulphate as SO ₄ (mg/l)	30	APHA(PP3.18to3.20)
9.	Lead as Pb (mg/l)	< 0.01	min (115.10tes.22)

Note-

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Tested By



K. L Agrawal (Technical Manager)

Pg. 1 of 1







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Date-02/10/2023

TEST REPORT

W-20230928061 Report No. Birla Cement Works Issued to

Madhav Nagar, Chanderia, Chittorgarh-312021

Address Village Munga Kheda (24°56'46.7"N, 74°39'43.0"E) Sampling Location

28/09/2023 Date of Sample Collection 28/09/2023 Date of Receipt

28/09/2023 to 02/10/2023 Date of Testing Well Water Type of Sample

Bureau of Indian Standard **Testing Protocol**

RESULT

C	D	Observed	IS 1050	0: 2012	Test Methods
S. N.	Parameters	Value	Acceptable Limit	Permissible Limit	
1	pH at 25°C	7.2	6.5-8.5	-	IS-3025(Part-11):1983(RA2002)
1.		0.1	1	5	IS-3025(Part-10):1984(RA2002)
2.	Turbidity (NTU)	530	200	600	IS-3025(Part-21):1983(RA2009)
3.	Total Hardness (CaCO ₃) (mg/l)	950	500	2000	IS-3025(Part-16):1984(RA2006)
4.	Total dissolved solids (mg/l)		75	200	IS-3025(Part-40):1991(RA2003
5.	Calcium as Ca (mg/l)	164		100	IS-3025(Part-46):1994(RA2003
6.	Magnesium as mg (mg/l)	28.8	30		IS-3025(Part-23):1986(RA2006
7.	Alkalinity as CaCO ₃ (mg/l)	350	200	600	18-3025(Part-23).1980(RA2000
	Sulphate as SO ₄ (mg/l)	180	200	400	IS-3025(Part-24):1986(RA2003
8.	Lead as Pb (mg/l)	<0.01	0.01	-	APHA(PP3.18to3.20)

Note-

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Tested By



K. L. Agrawal (Technical Manager)

Pg. 1 of 1



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Date-02/10/2023

TEST REPORT

Report No.

Issued to

Address

Sampling Location

Date of Sample Collection

Date of Receipt

Date of Testing

Type of Sample

Testing Protocol

W-20230928062

Birla Cement Works

Madhav Nagar, Chanderia, Chittorgarh-312021

Village Munga Kheda (24°56'41.6"N, 74°39'26.3"E)

: 28/09/2023

28/09/2023

28/09/2023 to 02/10/2023

Well Water

Bureau of Indian Standard

RESULT

			OLI		
C	Parameters	Observed	IS 1050	0: 2012	Test Methods
S. N.	Parameters	Value	Acceptable Limit	Permissible Limit	
1	11 -4 2590	7.5	6.5-8.5	-	IS-3025(Part-11):1983(RA2002)
1.	pH at 25°C	0.1	1	5	IS-3025(Part-10):1984(RA2002)
2.	Turbidity (NTU)	Est o	200	600	IS-3025(Part-21):1983(RA2009)
3.	Total Hardness (CaCO ₃) (mg/l)		500	2000	IS-3025(Part-16):1984(RA2006)
4.	Total dissolved solids (mg/l)	890		200	IS-3025(Part-40):1991(RA2003)
5.	Calcium as Ca (mg/l)	136	75		IS-3025(Part-46):1994(RA2003)
6.	Magnesium as mg (mg/l)	33.6	30	100	
	Alkalinity as CaCO ₃ (mg/l)	320	200	600	IS-3025(Part-23):1986(RA2006)
7.		160	200	400	IS-3025(Part-24):1986(RA2003)
8.	Sulphate as SO ₄ (mg/l)		0.01		APHA(PP3.18to3.20)
9	Lead as Pb (mg/l)	< 0.01	0.01		

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K. L Agrawal (Technical Manager)

Pg. 1 of 1



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Date-02/10/2023

Report No.

Issued to Address

Sampling Location

Date of Sample Collection

Date of Receipt Date of Testing Type of Sample

Testing Protocol

TEST REPORT

W-20230928063

Birla Cement Works

Madhav Nagar, Chanderia, Chittorgarh-312021

Village Munga Kheda (24°56'36.4"N, 74°39'25.2"E)

28/09/2023 28/09/2023

28/09/2023 to 02/10/2023

Well Water

Bureau of Indian Standard

RESULT

		RES	OLI		75 1
С	Parameters	Observed	IS 1050		Test Methods
S. N.	Parameters	Value	Acceptable Limit	Permissible Limit	
	2500	7.2	6.5-8.5	-	IS-3025(Part-11):1983(RA2002)
1.	pH at 25°C	0.1	1	5	IS-3025(Part-10):1984(RA2002)
2.	Turbidity (NTU)		200	600	IS-3025(Part-21):1983(RA2009)
3.	Total Hardness (CaCO ₃) (mg/l)	500		2000	IS-3025(Part-16):1984(RA2006)
4.	Total dissolved solids (mg/l)	1005	500		IS-3025(Part-40):1991(RA2003)
5.	Calcium as Ca (mg/l)	152	75	200	IS-3025(Part-46):1994(RA2003)
	Magnesium as mg (mg/l)	28.8	30	100	18-3025(Part-40).1994(RA2005)
6.	Magnesium as mg (mg/l)	380	200	600	IS-3025(Part-23):1986(RA2006)
7.	Alkalinity as CaCO ₃ (mg/l)		200	400	IS-3025(Part-24):1986(RA2003)
8.	Sulphate as SO ₄ (mg/l)	195		-	APHA(PP3.18to3.20)
9.	Lead as Pb (mg/l)	< 0.01	0.01	_	

Note-

1. The results listed refer only to the tested sample (s) & parameters (s). Endorsement of Product is neither inferred nor implied.

ne results listed refer only to the tested sample (s) & parameters (s). Endorsement of Product is neither interred nor implied.

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Tested By



L Agrawal (Technical Manager)

Pg. 1 of 1



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Date-02/10/2023

TEST REPORT

W-20230928064 Report No. Birla Cement Works

Issued to Madhav Nagar, Chanderia, Chittorgarh-312021 Address Village- Damdama(24°56'46.7"N, 74°39'43.0"E)

Sampling Location 28/09/2023 Date of Sample Collection 28/09/2023 Date of Receipt

28/09/2023 to 02/10/2023 Date of Testing

Well Water Type of Sample

Bureau of Indian Standard Testing Protocol

RESULT

		Observed	IS 1050	0: 2012	Test Methods
S. N.	Parameters	Value	Acceptable Limit	Permissible Limit	
1	pH at 25°C	7.0	6.5-8.5	-	IS-3025(Part-11):1983(RA2002)
1.		0.2	1	5	IS-3025(Part-10):1984(RA2002)
2.	Turbidity (NTU)	420	200	600	IS-3025(Part-21):1983(RA2009)
3.	Total Hardness (CaCO ₃) (mg/l)	940	500	2000	IS-3025(Part-16):1984(RA2006)
4.	Total dissolved solids (mg/l)		75	200	IS-3025(Part-40):1991(RA2003)
5.	Calcium as Ca (mg/l)	110			IS-3025(Part-46):1994(RA2003)
6.	Magnesium as mg (mg/l)	34.8	30	100	IS-3025(Part-23):1986(RA2006)
7.	Alkalinity as CaCO ₃ (mg/l)	380	200	600	
_		120	200	400	IS-3025(Part-24):1986(RA2003)
8. 9.	Sulphate as SO ₄ (mg/l) Lead as Pb (mg/l)	<0.01	0.01	-	APHA(PP3.18to3.20)

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K. L. Agrawal (Technical Manager) Dhebar Colo Near I.T.I.

Pg. 1 of 1

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Date-27/01/2024

TEST REPORT

W-20240123136

Birla Cement Works

Madhavnagar, Chanderia, Chittorgarh-312021

Jai Mine Pit (Ram punya)

23/01/2024

23/01/2024

23/01/2024 to 27/01/2024

Mine sump

Bureau of Indian Standard

RESULT

		RESULT	T + Mathods
		Observed Value	Test Methods IS-3025(Part-11):1983(RA2002)
S.N.	Parameters	8.2	IS-3025(Part-11).1985(Id 12002)
1.	pH at 25°C	0.2	IS-3025(Part-10):1984(RA2002)
2.	Turbidity (NTU)	221	IS-3025(Part-21):1983(RA2009)
3.	Total Hardness (CaCO ₃) (mg/l)	310	IS-3025(Part-16):1984(RA2006)
4.	Total dissolved solids (mg/l)	55.2	IS 3025(Part-40):1991(RA2003)
5.	Calcium as Ca (mg/l)		IS-3025(Part-46):1994(RA2003)
	Magnesium as mg (mg/l)	20.64	IS 3025(Part-23):1986(RA2006)
6.	Alkalinity as CaCO ₃ (mg/l)	150	IS-3025(Part-24):1986(RA2003)
7.	Sulphate as SO ₄ (mg/l)	40	APHA(PP3.18to3.20)
8.	Lead as Pb (mg/l)	< 0.01	
9.	Lead as 10 (mg/1)	() Fudorsemen	t of Product is neither inferred nor implied.

Note-

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K. L Agrawal (Technical Manager)

Pg. 1 of 1

ested By

Report No.

Sampling Location

Date of Receipt Date of Testing

Type of Sample **Testing Protocol**

Date of Sample Collection

Issued to

Address





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Date-27/01/2024

Report No.

Issued to

Address

Sampling Location

Date of Sample Collection

Date of Receipt

Date of Testing

Type of Sample Testing Protocol TEST REPORT

: W-20240123137

Birla Cement Works

: Madhavnagar, Chanderia, Chittorgarh-312021

Surjan Mine Pit

23/01/2024

: 23/01/2024 : 23/01/2024 to 27/01/2024

: Mine sump : Bureau of Indian Standard

RESULT

	KESULI	
	Observed Value	Test Methods
		IS-3025(Part-11):1983(RA2002)
pH at 25°C		IS-3025(Part-10):1984(RA2002)
Turbidity (NTU)	-00	IS-3025(Part-21):1983(RA2009)
Total Hardness (CaCO ₃) (mg/l)		IS-3025(Part-16):1984(RA2006)
Total dissolved solids (mg/l)	313	IS-3025(Part-40):1991(RA2003)
Calcium as Ca (mg/l)	A CONTRACT OF THE PARTY OF THE	IS-3025(Part-46):1994(RA2003)
Magnesium as mg (mg/l)	2.0.15.0.000	IS-3025(Part-23):1986(RA2006)
Alkalinity as CaCO ₃ (mg/l)	101	IS-3025(Part-24):1986(RA2003)
Sulphate as SO ₄ (mg/l)		APHA(PP3.18to3.20)
Lead as Pb (mg/l)	< 0.01	ArtiA(113.7000011)
	Total dissolved solids (mg/l) Calcium as Ca (mg/l) Magnesium as mg (mg/l) Alkalinity as CaCO ₃ (mg/l) Sulphate as SO ₄ (mg/l)	ParametersObserved ValuepH at 25°C8.1Turbidity (NTU)0.3Total Hardness (CaCO3) (mg/l)200Total dissolved solids (mg/l)315Calcium as Ca (mg/l)50.4Magnesium as mg (mg/l)17.76Alkalinity as CaCO3 (mg/l)150Sulphate as SO4 (mg/l)39

1. The results listed refer only to the tested sample (s) & parameters (s). Endorsement of Product is neither inferred nor implied.

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Tested By

K.L Agrawal (Technical Manager) hebar Colony Near I.T.I.

Pg. 1 of 1



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Date-27/01/2024

TEST REPORT W-20240123138

Report No.

Issued to Address

Sampling Location

Date of Sample Collection

Date of Receipt

Date of Testing

Type of Sample Testing Protocol

Birla Cement Works

Madhavnagar, Chanderia, Chittorgarh-312021

Village Munga Kheda (24°56'46.7"N, 74°39'43.0"E)

23/01/2024

23/01/2024

23/01/2024 to 27/01/2024

Well Water

Bureau of Indian Standard

RESULT

		RE	SULI		Test Methods
		Observed IS 1050		0: 2012	l est Methods
S. N.	Parameters	Value	Acceptable Limit	Permissible Limit	IS-3025(Part-11):1983(RA2002)
1	pH at 25°C	7.6	6.5-8.5	-	IS-3025(Part-11):1983(RA2002)
1. 2.	Turbidity (NTU)	0.2	1 200	600	IS-3025(Part-21):1983(RA2009)
3.	Total Hardness (CaCO ₃)	510	200	000	
_	(mg/l) Total dissolved solids (mg/l)	888	500	2000	IS-3025(Part-16):1984(RA2006) IS-3025(Part-40):1991(RA2003)
4. 5.	Calcium as Ca (mg/l)	150	75	100	IS-3025(Part-46):1994(RA2003)
6.	Magnesium as mg (mg/l)	32.4	200	600	IS-3025(Part-23):1986(RA2006)
7.	Alkalinity as CaCO ₃ (mg/l)	335	200	400	IS-3025(Part-24):1986(RA2003
8.	Sulphate as SO ₄ (mg/l)	<0.01	0.01	-	APHA(PP3.18to3.20)
9.	Lead as Pb (mg/l)	0101			. c I implied

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K L Agrawal Near I. (Technical Manager)

Pg. 1 of 1



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Date-27/01/2024

TEST REPORT

W-20240123139

Report No. Birla Cement Works

Madhavnagar, Chanderia, Chittorgarh-312021 Issued to Village Munga Kheda(24°56'41.6"N, 74°39'26.3"E) Address

Sampling Location 23/01/2024

Date of Sample Collection 23/01/2024

Date of Receipt 23/01/2024 to 27/01/2024 Date of Testing

Well Water Type of Sample Bureau of Indian Standard **Testing Protocol**

RESULT

		ILE O	ULI		m Af d. J.
		Observed	IS 10500: 2012		Test Methods
S. N.	Parameters	Value	Acceptable Limit	Permissible Limit	14) 1092(B 42002)
	2500	7.9	6.5-8.5	-	IS-3025(Part-11):1983(RA2002)
1.	pH at 25°C	0.1	1	5	IS-3025(Part-10):1984(RA2002)
2.	Turbidity (NTU)		200	600	IS-3025(Part-21):1983(RA2009)
3.	Total Hardness (CaCO ₃) (mg/l)	500		2000	IS-3025(Part-16):1984(RA2006)
4.	Total dissolved solids (mg/l)	928	500	200	IS-3025(Part-40):1991(RA2003)
5.	Calcium as Ca (mg/l)	138	75		IS-3025(Part-46):1994(RA2003)
6.	Magnesium as mg (mg/l)	37.2	30	100	IS-3025(Part-23):1986(RA2006)
-	Alkalinity as CaCO ₃ (mg/l)	340	200	600	15-3025(Part-23):1986(PA2003)
7.	Alkalility as CaCO3 (light)	178	200	400	IS-3025(Part-24):1986(RA2003)
8. 9.	Sulphate as SO ₄ (mg/l) Lead as Pb (mg/l)	<0.01	0.01	-	APHA(PP3.18to3.20)

Note-

1. The results listed refer only to the tested sample (s) & parameters (s). Endorsement of Product is neither inferred nor implied.

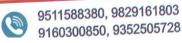
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(Technical Manager) hebar Colony Near I.T.I.

Pg. 1 of 1

K Agrawal







(Unit of Apex Mintech Consultants)

NABL Accredited, OHSAS Certified & Recognized by MoEF&CC, GOI, Under Environment (Protection) Act, 1986 Vide F.No. 15018/16/2017-CPW



Date-27/01/2024

TEST REPORT

Report No.

Issued to

Address

Sampling Location Date of Sample Collection

Date of Receipt

Date of Testing Type of Sample

Testing Protocol

W-20240123140

Birla Cement Works

Madhavnagar, Chanderia, Chittorgarh-312021

Village Munga Kheda(24°56'36.4"N, 74°39'25.2"E)

23/01/2024

23/01/2024

23/01/2024 to 27/01/2024

Well Water

: Bureau of Indian Standard

RESULT

		ILL	1070	0. 0010	Test Methods
S.	Parameters	Observed	IS 10500: 2012		Test Methods
». N.	rarameters	Value	Acceptable Limit	Permissible Limit	
	11 + 2590	7.8	6.5-8.5	-	IS-3025(Part-11):1983(RA2002)
1.	pH at 25°C	0.1	1	5	IS-3025(Part-10):1984(RA2002)
2.	Turbidity (NTU)	525	200	600	IS-3025(Part-21):1983(RA2009)
3.	Total Hardness (CaCO ₃) (mg/l)			2000	IS-3025(Part-16):1984(RA2006)
4.	Total dissolved solids (mg/l)	1070	500	200	IS-3025(Part-40):1991(RA2003)
5.	Calcium as Ca (mg/l)	156	75		IS-3025(Part-46):1994(RA2003)
6.	Magnesium as mg (mg/l)	32.4	30	100	IS-3025(Part-23):1986(RA2006)
	Alkalinity as CaCO ₃ (mg/l)	390	200	600	18-3025(Part-23):1980(RA2000)
7.		205	200	400	IS-3025(Part-24):1986(RA2003)
8. 9.	Sulphate as SO ₄ (mg/l) Lead as Pb (mg/l)	<0.01	0.01	-	APHA(PP3.18to3.20)

Note-

The results listed refer only to the tested sample (s) & parameters (s). Endorsement of Product is neither inferred nor implied.
 This report is not to be reproduced wholly or in part and cannot be used evidence in the court of law and should not be used in any advertising media without our special permission in writing.
 The samples will be destroyed after 15 days from the date of issue of test report unless otherwise specified.

K. L Agrawal (Technical Manager) ebar Colony

Pg. 1 of 1





Annexure – 8





Washing PIT:

The oil water separator is specially designed to separate sludge & oil from dirty water. Enhanced Zero Water Discharge at washing point.

Oil and grease are regularly skimmed off and clean water is re-circulated.

Annexure-9

Stone Pitching for Dumps and Bund Stabilization





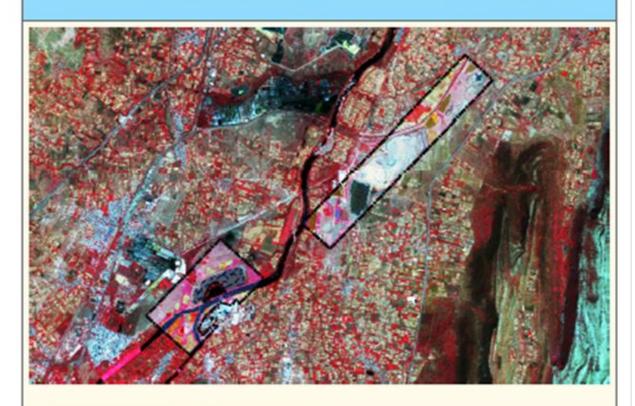
We have done dump Stabilization through proper benching system in our active dump area and Stone pitching along the haul road to prevent collapse.

MEDICAL EXAMINATION 2023-24

DETAILS OF MEDICAL EXAMINATION 2023-24							
Sr.no.	Category	Initial Examination	Periodical Examination				
	CONTRACTORS /A.M.C / F.MC						
1	M/S APEKSHA ENGINEERS	12					
2	M/S SANWARIA STONE CARRIER	11					
3	M/S L&T	5	16				
4	M/S D.C.S	4					
5	M/S LIBHERR -1	14					
6	M/S LIBHERR-2	4					
7	M/S EPIROC	2					
8	M/S BIRLACORP.LTD .	15	256				
	GRAND TOTAL	67	272				



Land Use / Land Cover Analysis for Mine Lease and Buffer Zones of Birla Cement Limestone Mine of Birla Corporation Ltd. using Remote Sensing Techniques.







Client : Birla Corporation Limited (Unit : Birla Cement Works)

Prepared By:

CompuSense Automation, Ahmedabad

December 2022

Annexure-12

Environment Management SD Cell

