

Birla Corporation Limited

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

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Reg. A.D.

BCW / Env / L-5 / 5% 27.05.2022

To

The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Jaipur, A - 209 & 218, Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area, Jaipur (Raj.) - 304002

Sub.: Environment clearance compliance report of Birla Cement Works, Limestone

Mines, Chanderia.

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, 2021 to March, 2022 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)

GM (Sustainable Development)

Fnclosed: 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 2022

COMPLIANCE REPORT (October 2021 to March 2022) ENVIRONMENTAL CLEARANCE J-11015/73/2014-IA.II (M)

Name of the Project

Birla Cement Limestone Mines (Birla Cement Works)

Proposal No.

IA/RJ/MIN/22914/2014

Mining Lease No. & Area

10/83 Area 588.59 Hectares

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) is sanctioned on dated 30 th September 2020. After getting 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.
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 during 2020-21 and about 32,400 native species had been planted all along the mining lease boundary, out of which 29,900 saplings had been planted within mining lease in 12.53 hectares area and 2,500 saplings had been planted outside mining lease in 3.0 hectares. During 2021-22 monsoon period, 8,000 local species saplings planted along the mining lease boundary in the 5.6 hectares. 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.	per the commitments made by us on the

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 2021 to March 2022 is 3.52 million tons and ROM produced is 2.83 million tons including 0.0039 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 for dewatering seepage and ground water from mining pits and deposited. The fee of ₹ 24,98,100 (@ ₹ 757 m³/day) for two years of ground water abstraction / restoration charges is also deposited.
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 met 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.
9)	Effective dust control measures shall be taken at the crusher and transfer points along the conveying system.	Water spraying arrangement through nozzles has 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.

B.	Standard Conditions	Compliance Status		
Ī.	Statutory compliance :			
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.	Noted for compliance.		
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.	\ _ 1 .1		
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)	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	Noted		
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.	Complied with. Environment Clearance granted by MoEF&CC has been published and widely		
	The advertisement shall be done within 7 days of the issue of the clearance letter mentioning 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.	circulated in newspapers, Dianik 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.		

8)	The Project Proponent shall inform the MoEF&CC	Noted		
	for any change in ownership of the mining lease. In			
1	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.			
II.	Air quality monitoring and preservation	- 1. Marrow - 100 v		
9)	The Project Proponent shall install a minimum of	We have already installed CAAQMS a		
ŕ	3(three) online Ambient Air Quality Monitoring	mines.		
	Stations with 1 (one) in upwind and 2 (two) in			
	downwind direction based on long term	Monitoring work has also been carried out by		
	climatological data about wind direction such that an	MoEF&CC recognized laboratory and is		
	angle of 120° is made between the monitoring	doing ambient air quality monitoring a		
	locations to monitor critical parameters, relevant for	required intervals at 10 established places.		
	mining operations, of air pollution viz. PM10, PM2.5,	Analaiant air maralita ann it air air is la ian ann air		
3	NO2, CO and SO2 etc. as per the methodology	Ambient air quality monitoring is being carried		
	mentioned in NAAQS Notification No. B-	out regularly and parameters are within the		
	29016/20/90/PC1/1, dated 18.11.2009 covering the	limits.		
	aspects of transportation and use of heavy	(Manitoring data analoged as Anneyung 3)		
	machinery in the impact zone. The ambient air	(Monitoring data enclosed as Annexure - 3).		
	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.			
10)	Effective safeguard measures for prevention of dust	Water enrinkling is done regularly at leading		
10)	generation and subsequent suppression (like	Water sprinkling is done regularly at loading and unloading points and transfer point to		
	regular water sprinkling, metaled road construction	reduce fugitive emission.		
	etc.) shall be carried out in areas prone to air	Water sprinkling with the help of mobile wate		
	pollution wherein high levels of PM10 and PM2.5	tankers is being done on haul road and		
	are evident such as haul road, loading and	transport road to reduce dust emission. A		
	unloading point and transfer points. The Fugitive	least two tankers are continuously employed		
	dust emissions from all sources shall be regularly	for dust suppression on haul roads around		
	controlled by installation of required equipments/	the crusher.		
	machineries and preventive maintenance. Use of			
	suitable water-soluble chemical dust suppressing	Ambient air quality monitoring is done		
	agents may be explored for better effectiveness of	regularly and parameters are within the limits		
	dust control system. It shall be ensured that air	The second secon		
	pollution level conform to the standards prescribed	(Monitoring data enclosed as Annexure - 3).		
	by the MoEFCC/ Central Pollution Control Board.			
III.	Water quality monitoring and			
	preservation			
11)	In case, immediate mining scheme envisages	We are having the NOC of CGWA fo		
	intersection of ground water table, then	dewatering seepage and ground water from		
	Environmental Clearance shall become operational	mining pits and deposited. The fee of		
	only after receiving formal clearance from CGWA. In	24,98,100 (@ ₹ 757 m3/day) for two years o		
	case, mining operation involves intersection of	ground water abstraction / restoration		
	ground water table at a later stage, then PP shall	charges is also deposited.		
	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			
	*			

- 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 sixmonthly basis to the Regional Office of the Ministry, CGWA and State Groundwater Department / State Pollution Control Board.
- 13) Project Proponent shall regularly monitor and maintain records w.r.t. ground water level and quality in and around the mine lease by establishing a network of existing wells as well as new piezometer installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. 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.
- The Project Proponent shall undertake regular monitoring of natural water course/ water resources/ springs and perennial nallahs existing/ flowing in and around the mine lease and maintain its records. The project proponent shall undertake regular monitoring of water quality upstream and downstream of water bodies passing within and nearby/ adjacent to the mine lease and maintain its records. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. PP shall carryout regular monitoring w.r.t. pH and included the same in monitoring plan. The parameters to be monitored shall include their water quality vis-à-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. pre- monsoon (April-May), monsoon (August), post-monsoon (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.

Noted and will be complied. Regular monitoring of water quality and level is being carried out.

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.

Annexure -4

Monitoring of water level from wells surrounding mining lease is done 4 times a year and chemical analysis of samples collected is also carried out.

Annexure-5

Regular monitoring of water quality and ground water level is being carried out.

Ground water is being monitored of 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 a year and chemical analysis of samples collected is also carried out. Annexure 5

We are conducting regular monitoring of natural water course/ water resources and nallahs around the mine lease to ensure that no natural watercourse shall be obstructed due to any mining activity.

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

Monitoring is done 4 times a year and chemical analysis of samples collected is also carried out. **Annexure-5**

Four number of Piezometers are also installed for ground water monitoring, report for ready reference is enclosed.

Annexure – 4.

15)	Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage	No polluted water is being generated from the mines.
1800	and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS). The monitored data shall be uploaded on the website of the company as well	The mine workshop is having zero discharge and there is no waste water generation from the mines hence treatment is not required. Oil and grease are regularly skimmed off and clean water is re-circulated.
	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.	
16)	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 will be used in harvesting pits.
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.
18)	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. CII studied our project area and prepared a final report on Water Audit.
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)	The illumination and sound at night at project sites disturb the villages in respect of both human and animal population. Consequent sleeping disorders and stress may affect the health in the villages located close to mining operations. Habitations have a right for darkness and minimal noise levels at night. PPs must ensure that the biological clock of the villages is not disturbed; by orienting the floodlights/ masks away from the villagers and keeping the noise levels well within the prescribed limits for day /night hours.	We are continuously monitoring illumination and sound at night as per DGMS parameters to insure no disturbances to the habitants due to mining operations.

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	
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.
23)	The land-use of the mine lease area at various 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 the MoEFCC and its concerned Regional Office.	Noted for compliance.
VI.	Land Reclamation	
24)	The Overburden (O.B.) and waste generated during the mining operations shall be stacked at earmarked 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.	Noted for compliance.

25)	The reclamation of waste dump sites shall be done in scientific manner as per the Approved Mining Plan cum Progressive Mine Closure Plan.	Noted
26)	The slope of dumps shall be vegetated in scientific manner with suitable native species to maintain the slope stability, prevent erosion and surface run off. The selection of local species regulates local climatic parameters and help in adaptation of plant species to the microclimate. The gullies formed on slopes should be adequately taken care of as it 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.	Waste dumps are active, however we are covering slope portion of dumps with grass seeding where ultimate dumping is being carried out. We are also using sand bags on rain cuts to prevent soil erosion.
27)	Catch drains, settling tanks and siltation ponds of appropriate size shall be constructed around the mine working, mineral yards and Top Soil/OB/Waste dumps to prevent run off of water and flow of sediments directly into the water bodies (Nallah/River/ Pond etc.). The collected water should be utilized for watering the mine area, roads, green belt development, plantation etc. The drains/sedimentation sumps etc. shall be de-silted regularly, particularly after monsoon season, and maintained properly.	Catch drains and siltation ponds of appropriate size have been constructed to arrest silt and sediment which may flow from soil, OB and mineral dumps. Dumps are small in size; hence this problem is not acute. The drains are being regularly de-silted. Garland drain of appropriate size, gradient and length has been constructed along all dumps.
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.
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.

网络证据 2.15.15.10 图

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.	We have already converted our old mining pit of Bherda in to a Water-Reservoir. In this pit up to 3rd bench rain water is being a filled. The total area of this pit is about 37.40 hectares out of which 16.4 hectares area is reclaimed and being used as Water-Reservoir. The rainwater collected is not only used for mining activities but also supplied to Chittorgarh urban communities for continuous basis.
33)	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 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	Our proposal for the approval of NRWI
33)	The Project Proponent shall undertake all precautionary measures for conservation and protection of endangered flora and fauna and 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.	Our proposal for the approval of NBWL (FP/RJ/MIN/665/2016) is sanctioned on dated 30 th September 2020. After getting 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.

IX.	Public hearing and human health issues	
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 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.	We are continuously conducing Periodical medical examination of the workers engaged in the mining activities, as per the DGMS guidelines and maintaining is record properly. Routine health checkup are being done by qualified medical officers for all the workmen. During calendar year 2021, examination for 144 persons engaged in mines working is carried out. This includes initial examination of 59 workers and periodical examination of 85 workers. 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 workmen for various parameters and after testing a report is prepared. Expert medical practitioners are advising the deviation found in any.
35)	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. A dedicated occupational health center is being operated with qualified MBBS doctors. Besides this, medical staff is present round the clock. Annual medical checkup is being done for all the workmen 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.
	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).	

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.	qualified medical officers for all the workmen. During calendar year 2021, examination for 144 persons engaged in mines working is carried out. This includes initial examination of 59 workers and periodical examination of 85 workers. 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
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 safety and health aspects.	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 have to undergone training.
39)	Project Proponent shall make provision for the housing for workers/labours or shall construct labor camps within/outside (company owned land) with 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.	The expansion is within the existing mining lease area and the workers which are working in mines are residing in the well-developed existing housing colony, The housing colony has 500 KLD STP for treatment of domestic water.
40)	The activities proposed in Action plan prepared for 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.	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.
X. 41)	Miscellaneous 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.	Digital map (land use & land cover) of the entire lease area is prepared during year 2017-18 and now it will be updated next year.

42)	The Project Authorities should inform to the	Noted for compliance.
42)	Regional Office regarding date of financial closures	Trotog for compliance.
	and final approval of the project by the concerned	
	authorities and the date of start of land development	
	work.	
43)	The Project Proponent shall submit six monthly	Six monthly compliance reports are being
	compliance reports on the status of the	prepared and progress of the same is shared to RO, MoEF&CC and SPCB.
	implementation of the stipulated environmental safeguards to the MOEFCC &its concerned	to NO, Moel acc and SP CB.
	Regional Office, Central Pollution Control Board and	
	State Pollution Control Board.	
44)	A separate 'Environmental Management Cell' with	A full-fledged Environment management cell
	suitable qualified manpower should be set-up under	with a dedicated lab with qualified manpower
	the control of a Senior Executive. The Senior	headed by GM Environment for exist and are
	Executive shall directly report to Head of the	involved in the environment management at site. Four Environmental Scientist and mining
	Organization. Adequate number of qualified Environmental Scientists and Mining Engineers	engineers are engaged in various
	shall be appointed and submit a report to RO,	environmental improvement plans and
	MoEF&CC.	program at sites.
	Processor and Authorities	
45)	The concerned Regional Office of the MoEFCC	Noted
	shall randomly monitor compliance of the stipulated	
	conditions. The project authorities should extend full	
	cooperation to the MoEFCC officer(s) by furnishing	
46)	the requisite data / information / monitoring reports. The mining lease holders shall, after ceasing mining	Noted
40)	operations, undertake re-grossing the mining area	110.00
	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,	
	fauna etc.	

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

DETAILS OF PLANTATION AT MINES Within ML and Outside ML

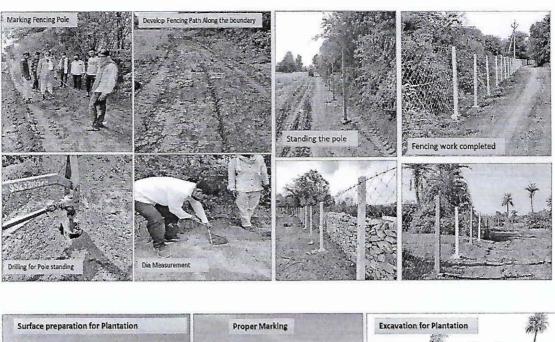
S1. No.	Year	Within ML area	Outside ML area	Total	Survival %
1	Total Up To 2014-2015	90643	73547	164190	78%
2	2015-2016	2000	1000	3000	85%
3	2016-2017	2780	2250	5030	84%
4	2017-2018	1500	2600	4100	90%
5	2018-2019	1250	700	1950	91%
6	2019-2020	2250	640	2890	89%
7	2020-2021	29900	2500	32400	222230000
8	2021-2022	6215	1785	8000	89%
	Total	136538	85022	221560	95%

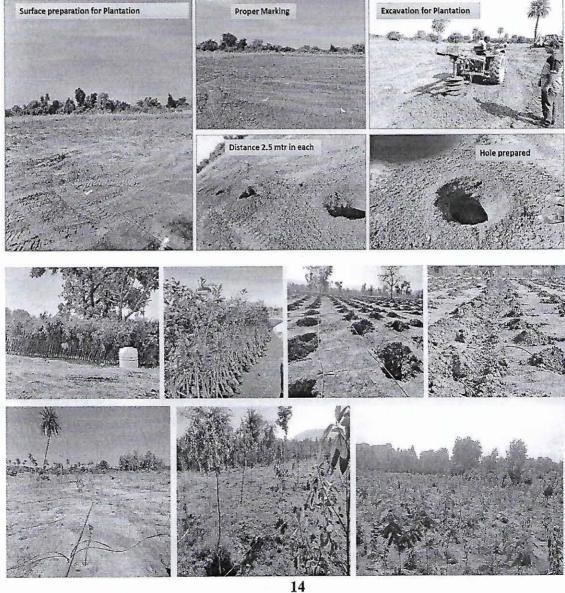
Type of species Planted: -

Neem	Katchanar
Amaltash	Billpatra
Anwala	Akasia
Pipal	Seethaphal
Ratanjot	Bargad &

Shisham Other fruit bearing tree

Amrood Bar





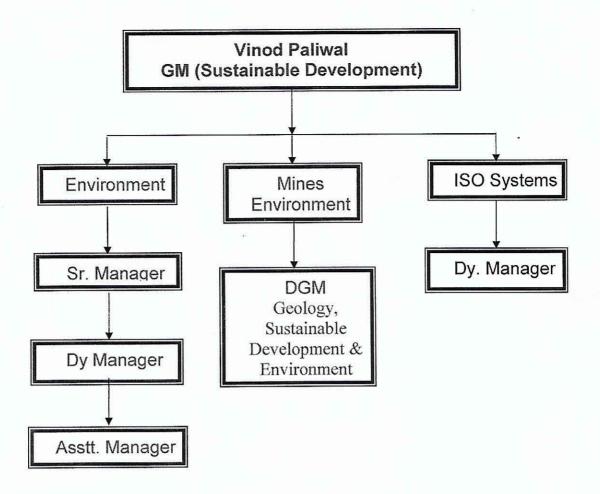
BIRLA CORPORATION LIMITED Chittourgah

FINANCIAL REPORT ON CSR ACTIVITIES

Details of CSR amount spent against Plan for the financial year 2021-22:

CSR Activities	Actual-YTD Till March.'22 in Lacs
Integrated Livelihood Project-1: (Supporting to small, marginal & poor for livelihood enhancement)	33.29
Skill Development Project-2 (Skilling to poor women & unemployed youths)	6.41
Health, Water & Sanitation	25.76
Mother & Child Health Care Project-3 (Improving Nutritional, Health & hygiene practices)	10.45
Support on Covid-19	8.06
Education	21.70
Infrastructure Development	5.39
Environment	4.50
Community Outreach/Others	4.47
Total	120.03

Department Organization Chart



Monthly Average Results of AAQM October 2021 to March 2022) Birla Cement Limestone Mines (Villages - Bherda, Jai, Surjana and Nagri)

CORE ZONE

	S No. Station Month Average Values in µg/m						-	
	S No.	Station	Month	PM ₁₀ PM _{2.5} NO _X				
	1	CA - 1	October, 2021				SO ₂	
	2			81.80	38.77	10.43	9.55	
	3		November, 2021	78.88	37.37	10.18	8.05	
			December, 2021	79.88	37.36	11.33	7.03	
	4		January, 2022	85.30	34.87	11.53	8.72	
	5		February, 2022	77.48	36.96	9.17	9.03	
	6		March, 2022	75.78	35.83	10.49	9.55	
	7		October, 2021	80.32	34.74	12.21	8.96	
	8		November, 2021	75.58	36.23	11.60	8.79	
	9	CA - 2	December, 2021	76.08	37.19	11.09	9.33	
	10	OA - Z	January, 2022	79.02	35.22	10.17	7.89	
	11		February, 2022	83.08	34.29	11.11	8.20	
1 2	12		March, 2022	79.18	38.17	11.12	9.12	
)	13	CA - 3	October, 2021	81.30	35.57	12.00	9.85	
1	14		November, 2021	75.78	35.83	10.49	9.55	
1	15		December, 2021	79.02	35.22	10.17	7.89	
5	16		January, 2022	75.78	35.83	10.49	9.55	
)	17		February, 2022	79.02	35.22	10.17	7.89	
	18		March, 2022	83.08	34.29	11.11	8.20	
	19	B212101282 0.1*	October, 2021	83.08	34.29	11.11	8.20	
	20	CA - 4	November, 2021	79.18	38.17	11.12	9.12	
	21		December, 2021	82.08	37.27	9.79	7.89	
	22		January, 2022	79.18	38.17	11.12	9.12	
	23		February, 2022	75.78	35.83	10.49	9.55	
	24		March, 2022	79.02	35.22	10.17	7.89	
	25		October, 2021	85.30	34.87	11.53	8.72	
	26		November, 2021	77.48	36.96	9.17	9.03	
	27	04 5	December, 2021	77.78	38.13	9.91	9.88	
	28	CA - 5	January, 2022	83.08	34.29	11.11	8.20	
	29		February, 2022	79.18	38.17	11.12	9.12	
	30		March, 2022	72.68	37.07	12.93	9.11	

Station Code	Location			
CA - 1	Rampuria Water Pump			
CA - 2	Surjana Pump			
CA - 3	Near Crusher			
CA - 4	Near Jai Temple			
CA - 5	Pump House Bherda			

Monthly Average Results of AAQM October 2021 to March 2022) Birla Cement Limestone Mines (Villages - Bherda, Jai, Surjana and Nagri)

BUFFER ZONE

	S No.	Station	Month	Average Values in µg/m³				
				PM ₁₀	PM _{2.5}	NO _X	SO ₂	
	16		October, 2021	72.68	37.07	12.93	9.11	
	17		November, 2021	78.20	34.76	7.68	9.64	
	18	BA - 1	December, 2021	78.98	36.37	10.99	7.94	
			January, 2022	78.20	34.76	7.68	9.64	
			February, 2022	78.98	36.37	10.99	7.94	
			March, 2022	73.88	37.93	9.11	7.37	
	19		October, 2021	73.88	37.93	9.11	7.37	
	20		November, 2021	73.78	35.56	11.19	6.98	
	21	BA - 2	December, 2021	71.02	35.06	10.19	8.58	
		DA - 2	January, 2022	72.68	37.07	12.93	9.11	
Ů			February, 2022	78.20	34.76	7.68	9.64	
			March, 2022	78.98	36.37	10.99	7.94	
i.		ALUVU - WANGER	October, 2021	75.08	34.16	12.58	8.75	
6			November, 2021	82.30	37.64	10.19	9.22	
		BA - 3	December, 2021	72.48	34.63	8.98	7.19	
	22	DA - 3	January, 2022	73.88	37.93	9.11	7.37	
	23		February, 2022	82.30	37.64	10.19	9.22	
	24	G21	March, 2022	72.48	34.63	8.98	7.19	
			October, 2021	75.88	36.48	14.45	10.06	
			November, 2021	74.38	37.06	9.16	7.99	
		BA - 4	December, 2021	81.42	33.54	10.76	9.13	
	25	DO 14	January, 2022	75.88	36.48	14.45	10.06	
	26		February, 2022	74.38	37.06	9.16	7.99	
	27		March, 2022	81.42	33.54	10.76	9.13	
			October, 2021	79.18	37.82	9.02	9.16	
			November, 2021	77.20	37.39	11.60	8.42	
		BA - 5	December, 2021	77.98	34.77	9.86	8.54	
	28	DM - 3	January, 2022	79.18	37.82	9.02	9.16	
	29		February, 2022	78.98	36.37	10.99	7.94	
	30		March, 2022	73.88	37.93	9.11	7.37	

Station Code	Location
BA - 1	New Sanwaria Nagar
BA - 2	Moonga ka Kheda
BA - 3	Higher Sec. School Nagri
BA - 4	Sub Station OLBC
BA - 5	Director Bunglow

PIEZOMETER AWLR DATA MONTH OF JANUARY 2022:

Report Name		Complete da	y wise sensor report			
project Name		Birla Cement				
Location		Chittorgarh 3				
Device Nan	ne	Nagri pit				
Report Ran	ge	From:01/01/2022 00:00:00 To 31/01/2022 23:59				
Generation	Time	:27/05/2022 08:42:25				
Date Time		Nagri	0.000			
		Reading(m)	Voltage(V)			
01.01.2022	00:17:03	40.34	13.5			
01.01.2022	01:17:02	40.25	13.9			
01.01.2022	02:17:02	40.31	13.7			
01.01.2022	03:17:01	40.17	13.8			
01.01.2022	04:17:01	40.2	13.6			
01.01.2022	05:16:59	40,09	13.1			
01.01.2022	06:16:59	40.11	13.2			
01.01.2022	07:16:58	40.09	13.2			
01.01.2022	08:16:58	40.09	13.6			
01.01.2022	09:16:57	40.03	13.9			
01.01.2022	10:16:57	40.08	13.3			
01.01.2022	11:16:56	40.03	13.9			
01.01.2022	12:16:56	40.12	0			

Report Name		Complete day w	rise sensor report			
project Name		Birla Cement				
Location		Chittorgarh 1				
Device Nan	ne	Near mines Adn	nin			
Report Ran	ge	From:01/01/202	2 00:00:00 To 31/01/2022 23:59:59			
Generation	Time	:27/05/2022 08:3	39:24			
Date	Time	Near mines A Reading(m) Vo				
01.01.2022	00:05:05	. ATE 191	13.1			
01.01.2022	00:19:05	22.95	13.1			
01.01.2022	00:33:04	22.96	13.2			
01.01.2022	00:37:13	24.62	13.6			
01.01.2022	00:47:04	22.97	13.1			
01.01.2022	01:01:04	22.96	13.1			
01.01.2022	01:15:04	22.98	13.1			
01.01.2022	01:29:03	22.96	13.1			
01.01.2022	01:37:12	24.62	13.6			
01.01.2022	01:43:03	22,95	13.1			
01.01.2022	01:57:02	22.96	13.2			
01.01.2022	02:11:02	22.94	13.2			
01.01.2022	02:25:01	22.97	13.2			

Report Name		Complete day wise sensor report				
project Name		Birla Cement				
Location		Chittorgarh				
Device Nan	ne	Rampuriya s	ubststion			
Report Ran	ge	From:01/01/	2022 00:00:00 To 31/01/2022 23:59:59			
Generation	Time	:27/05/2022	08:35:46			
Date	Time	Rampuriya				
		Reading(m)	Voltage(V)			
01.01.2022	00:37:13	24.62	13.6			
01.01.2022	01:37:12	24.62	13.6			
01.01.2022	02:37:12	24.63	13.7			
01.01.2022	03:37:11	24.62	13.7			
01.01.2022	04:37:11	24.64	13.7			
01.01.2022	05:37:09	24.62	13.7			
01.01.2022	06:37:09	24.63	13.7			
01.01.2022	07:37:07	24.66	13.7			
01.01.2022	08:37:07	24.65	13.6			
01.01.2022	09:37:06	24.64	13.7			
01.01.2022	10:37:06	24.57	13.6			
01.01.2022	11:37:05	24.56	13.6			
01.01.2022	12:37:05	24.53	13.5			

Report Nan	ne	Complete day wise sensor report				
project Nar	ne	Birla Cemen				
Location		Chittorgarh 2	<u> </u>			
Device Nan	ne	Behind conti	actor camp			
Report Ran	ge	From:01/01/2022 00:00:00 To 31/01/2022 23:59:5				
Generation	Time	:27/05/2022 08:40:44				
D-1-	Time	Behind cont	ractor camp			
Date	Time	Reading(m) Voltage(V)				
01.01.2022	07:30:43	26.8	13.5			
01.01.2022	07:30:53	26.68	11.1			
01.01.2022	07:31:03	26.6	11.1			
01.01.2022	07:31:13	26.56	11.1			
01.01.2022	07:31:23	26.51	11.1			
01.01.2022	07:31:33	26.48	11.1			
01.01.2022	07:31:43	26.47	11.1			
01.01.2022	07:31:53	26.4	11.1			
01.01.2022	07:32:03	26.41	11.1			
01.01.2022	07:32:13	26.38	11.1			
01.01.2022	07:32:23	26.36	11.1			
01.01.2022	07:32:33	26.35	11.1			
01.01.2022	07:33:52	26.57	13.5			

Annexure 5 (b)

Birla Cement Limestone Mines

Water Analysis Results

Date of Sampling 23 November 2021

S.			Total	Total Hardness	Calcium	Magnesium as	Alkalinity	Sulphate	Lead	
No.	рН	Turbidity	Dissolved Solids	as CaCO3	as Ca	Mg	as CaCO3	as SO4	as pb	Iron as Fe
	Number	(NTU)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
P-1	6.91	<1.00	495	407	101	30	310	44	< 0.01	<0.001
P-2	7.48	<1.00	492	366	110	27	230	40	< 0.01	<0.001
P-3	6.79	<1.00	466	479	109	40	301	35	< 0.01	<0.001
P-4	7.06	<1.00	418	449	114	34	333	39	< 0.01	<0.001
W-1	7.18	<1.00	210	238	95	33	370	31	< 0.01	< 0.001
W-2	7.37	<1.00	401	251	89	29	229	34	< 0.01	<0.001
W-3	7.04	<1.00	353	141	92	22	288	39	< 0.01	< 0.001
W-4	7.68	<1.00	536	470	98	30	367	36	< 0.01	< 0.001
M-1	7.24	<1.00	271	211	66	26	170	32	< 0.01	< 0.001

444		THE RESERVE TO THE RE		0.00
P-1	1	Piezometer	Near	()ttice
1 - 1		I ICZOIIICICI	INCar	OILLO

W-1 ➤ Rupa Kumawat Well

P-2 > Piezometer Near Contractor Cabin

W-2 > Tulsa ji Bhoi Well

P-3 > Piezometer Near Rampuria Sub-Station

W-3 > Anwala Garden Tube Well

P-4 > Piezometer Nagri

W-4 > Ramlal Regar Well

M-1 ➤ Mine Sump Water

W-4 / Kalmai Kegai Well

<u>JaiSurjanaMines</u>

Water Analysis Results

Date of Sampling 10 January 2022

S. No.	pH Number	Turbidity (NTU)	Total Dissolved Solids (mg/l)	Total Hardness as CaCO3 (mg/l)	Calcium as Ca (mg/l)	Magnesium as Mg (mg/l)	Alkalinity as CaCO3 (mg/l)	Sulphate as SO4 (mg/l)	Lead as pb (mg/l)	Iron as Fe (mg/l)
P-1	7.35	<1.00	501	410	98	29	306	39	<0.01	<0.001
P-2	7.56	<1.00	489	359	102	31	249	42	<0.01	< 0.001
P-3	7.11	<1.00	472	470	106	37	297	33	<0.01	< 0.001
P-4	7.5	<1.00	424	440	111	38	320	37	<0.01	<0.001
W-1	7.26	<1.00	207	233	97	39	360	33	<0.01	<0.001
W-2	7.69	<1.00	407	245	92	31	227	38	<0.01	<0.001
W-3	7.48	<1.00	359	145	87	27	267	41	<0.01	<0.001
W-4	7.76	<1.00	533	469	95	26	344	32	<0.01	<0.001
M-1	7.56	<1.00	277	220	72	32	186	42	<0.01	<0.001

P-1		Piezometer	Near	Office	
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W-1 ➤ Rupa Kumawat Well

P-2 > Piezometer Near Contractor Cabin

W-2 > Tulsa ji Bhoi Well

P-3 > Piezometer Near Rampuria Sub-Station

W-3 > Anwala Garden Tube Well

P-4 > Piezometer Nagri

W-4 > Ramlal Regar Well

M-1 ➤ Mine Sump Water