

Ref. No. JAYKAYCEM/ENV./EC/KAKRA/03/02

Dated: 29.11.2022

To,  
Regional Office (WZ),  
Kendriya Paryavaran Bhawan,  
E-5, Arera Colony, Link Road-3, Ravi Shankar Nagar  
BHOPAL – 462 016  
E-Mail: rowz.bpl-mef@nic.in

**Subject: Environmental Clearance Compliance Status Report Half Yearly (April' 2022 to September' 2022) of Kakra - Panna Limestone Mine of M/s Jaykaycem (Central) Limited for EC Corrigendum in LS Production Capacity- 4.08 MTPA Limestone; 1.51 MTPA inter-burden; Soil/ Alluvium 1.26 MTPA; Mine waste 0.18 MTPA and 0.58 MTPA sub-grade mineral [Total excavation 7.61 MTPA] in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh.**

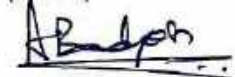
Ref.: 1. Environment Clearance vide no F. No. J-11015/190/2016-IA. II (M) dated 31.08.2020.  
2. Corrigendum in EC vide letter No. J-11015/190/2016-IA.II (M) dated 8th March, 2021.  
3. MoEF&CC office memorandum F. No. IA3-22/8/2021-1A.III [150512] dated 18.07.2022

Dear Sir,

With reference to above stated Environment Clearance and office memorandum, Please find herewith enclosed half yearly environmental clearance compliance status report, along with photographs, on the measures taken create to awareness among people on ban on single use plastic (SUP) for period from April' 2022 to September' 2022) of Kakra - Panna Limestone Mine of M/s Jaykaycem Central Limited for EC Corrigendum in LS Production Capacity- 4.08 MTPA Limestone; 1.51 MTPA inter-burden; Soil/ Alluvium 1.26 MTPA; Mine waste 0.18 MTPA and 0.58 MTPA sub-grade mineral [Total excavation 7.61 MTPA] in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Saptai, Judi, Devri Purohit & Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh through email and same has been uploaded to MoEF & CC Portal for your kind information and record please.

Thanking you,

Yours Sincerely  
For: Jaykaycem (Central) Limited  
(Wholly Owned Subsidiary of JK Cement Ltd.)



Anil Badgotri  
(Unit Head)

Encl.: As above.

CC:

1. Member Secretary, MPPCB, Paryawaran Parisar, E-5, Bhopal (MP). E. mail: ms-mppcb@mp.gov.in.
2. Regional Officer, Regional Office, MPPCB, Makronia, Sagar (MP) E. mail: ropcb-sagar@mp.gov.in.
3. Regional Director- CPCB, Paryawaran Parisar, Bhopal (MP) – E. mail: cpcb.bhopal@gmail.com

Corporate Office

Padam Tower, 19 DDA Community Centre  
Okhla, Phase - 1, New Delhi - 110020, India

☎ +011-49220000

✉ admin.padamtower@jkcement.com

🌐 www.jkcement.com

**JK SUPER  
CEMENT**  
BUILD SAFE

Grinding Unit :

Village Ingotha, District : Hamirpur, Uttar Pradesh, India, Pin - 210341

**JK SUPER  
STRONG**  
BUILD SAFE



**Half Yearly Environment Clearance Compliance Report of M/s Jaykaycem Central Limited, Panna for Period from April 2022 to September 2022**  
**Environment Clearance vide no J-11015/190/2016-IA. II (M) dated 31<sup>st</sup> August 2020**

<b>Kakra-Panna Limestone Mine of M/s Jaykaycem Central Limited for production of 4.08 MTPA Lime stone; 1.61 MTPA OB/Top Soil/Waste; and 0.58 MTPA sub-grade mineral [Total excavation 6.27MTPA] in the mine lease area of 1594.34 ha, located at Villages Kakra, Kamtana, Saptai, Judi, DevriPurohit &amp; Devra, Tehsil Amanganj, District Panna of State Madhya Pradesh</b>		
<b>Environment Clearance vide no F. No. J-11015/190/2016-IA. II (M) dated 31<sup>st</sup> August 2020</b>		
<b>Specific Condition</b>		
I.	Mining shall be restricted to the land already acquired near the Judi Village (about 235 ha). Meanwhile the PP may acquire the land, modify the mining sequence to avoid the void in west side of Dewra Village and approach the Ministry for re-validation or amendment in environmental clearance for permission for the entire area proposed for mining within the ML area	Yet, Mine is not in operation. We assure that mining shall be restricted to the area of 235 ha which is procured near to Judi Village and whenever we acquire remaining land we shall approach the Ministry for re-validation or amendment in environmental clearance for permission for the entire area proposed for mining within the ML area. Further we also assure that we shall modify the mining sequence to avoid the void in west side of Dewra Village before reaching to that area.
II.	The safety barrier of 100 m against the village / Habitation; 45 m on either side of the Nallah; 50 m on either side of the village roads shall be left as non-mining zone and thick green belt shall be developed with native species before commencement of mining operations in the area	Yet, Mine is not in operation. We assure that the safety barrier of 100 m against the village / Habitation; 45 m on either side of the Nallah; 50 m on either side of the village roads shall be left as non-mining zone and thick green belt shall be developed with native species before commencement of mining operations in the area
III.	No mining shall be carried up to 250 m distance from the bank of Ken River and an embankment of not less than 3 m height above the HFL shall be constructed and thick green belt shall be developed with native species before commencement of mining operations in the area	Yet, Mine is not in operation. It is assured that species before commencement of mining operations in the area. Further Thick green belt shall be developed along the bank of river before commencement of mining operations in the area
IV.	The PP shall adopt control blasting with necessary permission from the Director General of Mines Safety within 300 m from the village / Habitation boundary and non-conventional mining with ripper dozer or other mechanical means by avoiding the blasting within 100 m from the village / Habitation boundary. Thick plantation with native and broad leaved species shall be developed in the safety barrier left against the Habitations before commencement of mining operations in the area.	Yet, Mine is not in operation. Control blasting with NONEL system shall be adopted for the project. Necessary permission from the Director General of Mines Safety within 300 m from the village / Habitation boundary shall be obtained. Non-conventional mining with ripper dozer or other mechanical means by avoiding the blasting within 100 m from the village / Habitation boundary shall be considered Thick plantation with native and broad leaved species shall be developed in the safety barrier left against the Habitations before commencement of mining operations in the area
V.	The ground induced blasting vibrations shall be monitored regularly for every blast performed and the values of "Peak Particle Velocity" and "Air Over Pressure" shall be maintained below the permissible values prescribed by the DGMS, from time to time.	Yet, Mine is not in operation. We assure that the ground induced blasting vibrations shall be monitored regularly for every blast performed and the values of "Peak Particle Velocity" and "Air Over Pressure" shall be maintained below the permissible values prescribed by the DGMS, from time to time.

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VI.	No external dumping of overburden and/or sub-grade material shall be made outside the mining lease area	Yet, Mine is not in operation. No external dumping is proposed for the subject proposal. Concurrent backfilling is proposed from 3rd year onwards.
VII.	Site specific conservation plan for all the Schedule-I species reported in the study area shall be implemented in consultation with State Forest Department as per the recommendations of Chief Wildlife Warden	Yet, Mine is not in operation. Conservation plan has been approved by Chief wild life warden of MP for schedule-I species of the area and shall be implemented as per approval given in consultation with MP State Forest Department.
VIII.	Total Excavation shall not be exceeded to 7.61 which includes 4.08 MTPA Lime Stone, 0.58 MTPA sub-grade limestone, 1.51 MTPA Inter burden, Soil/Alluvium 1.26 MTPA, Mine Waste 0.18 MTPA.	Yet, Mine is not in operation. We assure that total Excavation shall not be exceeded to 7.61 which includes 4.08 MTPA Lime Stone, 0.58 MTPA sub-grade limestone, 1.51 MTPA Inter burden, Soil/Alluvium 1.26 MTPA, Mine Waste 0.18 MTPA.
IX.	Plantation shall be carried out as per the mining plan both concurrent and closer phase reclamation, inter alia, including plantation all along the boundary of the mining lease shall be completed within 2 years of commencement of mining operations, with a saplings of native and broad leaved species of not less than 12 feet and shall maintain the record of the same, gap plantation and grassing as per the directions of the Hon'ble Supreme Court	Yet, Mine is not in operation. We assure that Plantation shall be carried out as per the mining plan both concurrent and closer phase reclamation as well as proposal given to the MoEFCC. Plantation will include peripheral plantation which shall be completed within 2 years of commencement of mining operations, with a saplings of native and broad leaved species of not less than 12 feet. We assure that record shall be maintained for the same, gap plantation and grassing as per the directions of the Hon'ble Supreme Court.
X.	The project proponent shall implement the commitments made on the issues raised in PH and activities proposed under CER, 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	Yet, Mine is not in operation. We hereby provides confirm that the commitments made on the issues raised in PH and activities proposed under CER, in a period of three years shall be complied with its spirit. The record of the same shall be maintained and details shall be submitted to RO, MoEFCC along with half yearly compliance report.
XI.	All the mitigation measures committed / envisaged in the EIA/EMP report and subsequent submission shall be implemented.	Yet, Mine is not in operation. We ensure that the given proposal of mitigation measures for control of pollution shall be implemented effectively.
XII.	In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	Yet, Mine is not in operation. We assure that as per given proposal we shall undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc after ceasing mining operations to comply with direction of honorable supreme court.

**B. Standard EC Conditions:**

**I. Statutory compliance**

1)	The EC granted to the project/ activity is strictly under the provisions of the EIA Notification, 2006 and its amendments issued from time to time. It does not tantamount/ construe to	Agreed and noted for compliance.
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	approvals/ consent/ permissions etc. required to be obtained or standards / conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project.	
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.	The subject proposal is green field project and mining operation is yet to be started.
3)	The State Government concerned shall ensure that mining operation shall not be commenced till the entire compensation levied, if any, for illegal mining paid by the Project Proponent through their respective Department of Mining & Geology in strict compliance of 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.	The subject proposal is green field project and mining operation is yet to be started. No mining operation has been done till date.
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".	We assure that we 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".
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.	The copy of EC letter has been provided to concerned Panchayat vide letter No. PN/EMD/CWLA/F 12/ 012, dated 05.09.2020 copy enclosed as <b>Annexure-1</b> .
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	The condition is related to SPCB.
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 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	The advertisement about the grant of EC letter for the project has been published in two local newspapers namely Dainik Jagran and Raj Express dated 04.09.2020 and copy of the same enclosed as <b>Annexure-2</b> .

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	(www.parivesh.nic.in). A copy of the advertisement may be 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.	Agreed and shall be complied if applicable in future.
<b>II. Air quality monitoring and preservation</b>		
9)	<p>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/PCI/I dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone.</p> <p>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.</p>	<p>We shall install a minimum of 03 online Ambient Air Quality Monitoring Stations with 01 in upwind and 02 in downwind direction based on meteorological data for monitoring of PM10, PM2.5, NO2, CO and SO2 etc. as per the methodology mentioned in NAAQS Notification No. B-29016/20/90/PCI/I dated 18.11.2009 covering the aspects of transportation and use of heavy machinery in the impact zone.</p> <p>We also assure that data shall be digitally displayed within 03 months in front of the main Gate of the mine site after commencement of mining operations.</p>
10)	Effective safeguard measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled 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 equipments/ 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	<p>We assure that we shall implement measures for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled 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.</p> <p>We also assure that for prevention of dust generation and subsequent suppression (like regular water sprinkling, metalled 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. We shall explore the Use of suitable water-soluble chemical dust suppressing agents may be explored for better effectiveness of fugitive dust control system.</p>

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	standards prescribed by the MoEFCC/ Central Pollution Control Board	
<b>III. Water quality monitoring and preservation</b>		
11	In case, immediate mining scheme envisages intersection of ground water table, then Environmental Clearance shall become operational only after receiving 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	The Clearance form CGWA has already been obtained vide no. CGWA/NOC/ MIN/ORIG/2020/7359 dated 05.02.2020 for use of ground water as well as for intersection of water table during the course of mining operation and copy CGWA Water as enclosed <b>Annexure-3.</b>
12)	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 piezo-meter 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.	We assure that we 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 piezo-meter installations during the mining operation in consultation with Central Ground Water Authority/ State Ground Water Department. We also assure that we shall 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.
13)	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 including upstream and downstream. Sufficient number of gullies shall be provided at appropriate places within the lease for management of water. 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	Regular water quality shall be performed as per proposal given under environmental monitoring programme for the parameters include their water quality vis-à-vis suitability for usage as per CPCB criteria and flow rate. No alteration is proposed for Devra nalla which passing through the centre of the lease area. We assure that 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 after commencement of mining operations.



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	Ground Water Board, State Pollution Control Board and Central Pollution Control Board. Clearly showing the trend analysis on six-monthly basis.	
14)	<p>Quality of polluted water generated from mining operations which include Chemical Oxygen Demand (COD) in mines run-off; acid mine drainage and metal contamination in runoff shall be monitored along with Total Suspended Solids (TDS), Dissolved Oxygen (DO), pH and Total Suspended Solids (TSS).</p> <p>The monitored data shall be uploaded on the website of the 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.11 (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change may also be referred in this regard.</p>	<p>Regular monitoring shall be carried out as per the given direction. Being a lime stone mines, no acid mine drainage is anticipated.</p> <p>We assure that monitored data shall be uploaded on the website of the 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.11 (M) dated 27.05.2009 issued by Ministry of Environment, Forest and Climate Change will be referred in this regard after commencement of mining operations.</p>
15)	<p>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 MoEFCC annually.</p>	<p>The rain water harvesting structure shall be developed as per the approved hydrogeological study report. The details of rain water harvesting is as follows :</p> <p>For Mining Lease Area</p> <ul style="list-style-type: none"> <li>• Recharge through 1 nos. MWRP - 5,70,259 m3,</li> <li>• Recharge through 4 nos. RWHP - 9,43,262 m3</li> <li>• Total recharge through above measures – 15,13,521 m3.</li> </ul> <p>For plant we will have:</p> <ul style="list-style-type: none"> <li>• Recharge through 3 nos. Bore wells - 31,104 m3,</li> <li>• Recharge through 12 nos. recharge pits - 1,24,416 m3,</li> <li>• Recharge through 3 nos. MWST - 31,104 m3,</li> <li>• Recharge through 2 nos. RWHP - 5,85,000 m3,</li> <li>Total recharge through above measures - 7,71,624 m3.</li> </ul> <p>Total Rain water harvesting (Plant + Mines) = 22,85,145 m3</p> <p>At the end of mine life about 752.122 ha. of excavated void shall be converted as water body</p>
16)	<p>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.</p>	<p>Oil and grease trapping system is proposed for work shop effluent. We assure that we shall maintain the standards as prescribed in Consent to Operate (CTO) issued by concerned State Pollution Control Board (SPCB).</p>

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17)	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.	Agreed and we shall comply with the given direction.
<b>IV. Noise and vibration monitoring and prevention</b>		
18)	The peak particle velocity at 500m distance or within the nearest habitation, whichever is closer shall be monitored periodically as per applicable DGMS guidelines	We assure that we shall monitored periodically the peak particle velocity at 500m distance or within the nearest habitation, whichever is closer as per applicable in line with the DGMS guidelines.
19)	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 assure that 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.
20)	The Project Proponent shall take measures for control of noise levels below 85 dBA 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.	We assure that we shall take measures for control of noise levels below 85 dBA in the work environment. The workers engaged in operations of HEMM, etc. shall 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.
<b>V) Mining Plan</b>		
21)	The Project Proponent shall adhere to approved mining plan, inter alia, including, total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working ( method of mining, overburden & dump management, O.B& dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme as well as at the end-of-life; etc.).	We assure that we shall execute the mining operation strictly as per approved mining plan in terms of total excavation (quantum of mineral, waste, over burden, inter burden and top soil etc.); mining technology; lease area; scope of working (method of mining, overburden & dump management, O.B & dump mining, mineral transportation mode, ultimate depth of mining, concurrent reclamation and reclamation at mine closure; land-use of the mine lease area at various stages of mining scheme.
22)	The mining shall be governed as per the approved Mining Plan. The excavation vis-a-vis	We assure that we shall execute the mining operation strictly as per approved mining plan.



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	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.	The concurrent backfilling shall be started from 3rd year onwards. We further assure that compliance status regarding monitoring and management of rehabilitated areas shall be submitted along with half-yearly to the MoEFCC and its concerned Regional Office.
<b>VI. Land reclamation</b>		
23)	The Overburden (O.B.), waste and topsoil 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 / waste dumps / topsoil dump like height, width and angle of slope shall be governed as per the approved Mining Plan and the guidelines/circulars issued by D.G.M.S. The topsoil shall be used for land reclamation and plantation.	The concurrent backfilling shall be started from 3rd year onwards. Dumps will be placed initially for two years only with the ML. It is proposed to develop plantation over backfilled area of 437.33 ha and 90.87 ha of bench area. Therefore total area covered with plantation at the conceptual stage will be 528.20 Ha. The topsoil shall be used for land reclamation and plantation.
24)	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.	As submitted that The concurrent backfilling shall be started from 3rd year onwards. Dumps will be placed initially for two years only with the ML. The slope and angle of repose shall be maintained as per the approved mining plan.  Only sub grade dump will remain there at the conceptual period of mining and dump mass shall be consolidated with the help of dozer/ compactors thereby ensuring proper filling/ leveling of dump mass.
25)	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, 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 as per the proposal submitted to the Ministry. We assure that the collected water shall 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
26)	Check dams of appropriate size, gradient and length shall be constructed around mine pit and	Agreed and assure for the compliance as per the given direction.

**Half Yearly Environment Clearance Compliance Report of M/s Jaykaycem Central Limited, Panna for Period from April 2022 to September 2022**  
**Environment Clearance vide no J-11015/190/2016-IA. II (M) dated 31<sup>st</sup> August 2020**

	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.	
<b>VII. Transportation</b>		
27)	No Transportation of the minerals shall be allowed in case of roads passing through villages/ habitations. In such cases, PP shall construct a 'bypass' road for the purpose of transportation of the minerals leaving an adequate gap (say at least 200 meters) so that the adverse impact of sound and dust along with chances of accidents could be mitigated. All costs resulting from widening and strengthening of existing public road network shall be borne by the PP in consultation with nodal State Govt. Department. Transportation of minerals through road movement in case of existing village/ rural roads shall be allowed in consultation with nodal State Govt. Department only after required strengthening such that the carrying capacity of roads is increased to handle the traffic load. The pollution due to transportation load on the environment will be effectively controlled and water sprinkling will also be done regularly. Vehicular emissions shall be kept under control and regularly monitored. Project should obtain Pollution Under Control (PUC) certificate for all the vehicles from authorized pollution testing centers. [If applicable in case of road transport]	It is an integrated project and cement plant is proposed at north of the mining lease area. The mineral shall be transported within the lease area only through haul road up to the crusher. From crusher, the limestone shall be transported through covered belt conveyer system to the cement plant. No village road shall be utilized for the transportation of mineral.
28)	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	Permanent water sprinkling arrangement over main haulage road within the mine lease shall be provided for dust suppression. We assure that other roads within the mine lease shall be wetted regularly with tanker-mounted water sprinkling system. Dust suppression arrangements shall be provided at other areas of dust generation like crushing zone, material transfer points, material yards etc.

**Half Yearly Environment Clearance Compliance Report of M/s Jaykaycem Central Limited, Panna for Period from April 2022 to September 2022**  
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	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 emission.	The crusher shall be provided with air pollution control equipments like bag filters, vacuum suction hoods, dry fogging system and covered belt-conveyors.															
<b>VIII. Green Belt</b>																	
29)	The Project Proponent shall develop greenbelt in 7.5m wide safety zone all along the mine lease boundary as per the guidelines of CPCB in order to arrest pollution emanating from mining operations within the lease. The whole Green belt shall be developed within first 5 years starting from windward side of the active mining area. The development of greenbelt shall be governed as per the EC granted by the Ministry irrespective of the stipulation made in approved mine plan.	<ul style="list-style-type: none"> <li>Vegetation shall be removed only from the specific site on which extraction of mineral is to be taken up. Dump shall be so developed as to avoid any spillage towards adjacent field. Back filling is proposed on concurrent basis from 3rd year onward. The soil will be used for afforestation purpose.</li> <li>Proper slope and system of benching with retaining wall for the dumps is suggested to prevent spillage of waste to adjacent land.</li> <li>It is proposed to develop plantation over area of 437.33 Ha. reclaimed by back filling. In addition to stabilize the slope of abandoned benches and peripheral area about 90.87 Ha. will also be afforested.</li> <li>Therefore total area covered at the conceptual stage will be 528.20 Ha. at an estimated cost of Rs. 751.95 Lakhs. The year wise plantation schedule is as follows</li> </ul>															
30)	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	<p>The details of the plantation is as below :</p> <table border="1"> <thead> <tr> <th>S No</th><th>Details of Afforestation</th><th>Area And Number</th></tr> </thead> <tbody> <tr> <td>1.</td><td>5 Year Plantation along periphery 5 Year Backfilled area</td><td>2.250 Ha. = 2,500 Trees 6.886 Ha. = 14,000 Trees</td></tr> <tr> <td>2.</td><td>Backfilled Area</td><td>437.33 Ha.= 8,74,660 Trees</td></tr> <tr> <td>3.</td><td>Bench &amp; Peripheral Afforestation</td><td>90.87 Ha. = 1,00,967 Trees</td></tr> <tr> <td></td><td>Total</td><td>528.20 Ha. 9,75,627 Trees</td></tr> </tbody> </table>	S No	Details of Afforestation	Area And Number	1.	5 Year Plantation along periphery 5 Year Backfilled area	2.250 Ha. = 2,500 Trees 6.886 Ha. = 14,000 Trees	2.	Backfilled Area	437.33 Ha.= 8,74,660 Trees	3.	Bench & Peripheral Afforestation	90.87 Ha. = 1,00,967 Trees		Total	528.20 Ha. 9,75,627 Trees
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31	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	Agreed. The development of grazing land has been proposed under relevant schedule of LARR 2013 for which has already been submitted at MoEF&CC and we shall comply with the given condition.															

**Half Yearly Environment Clearance Compliance Report of M/s Jaykaycem Central Limited, Panna for Period from April 2022 to September 2022**  
**Environment Clearance vide no J-11015/190/2016-IA. II (M) dated 31<sup>st</sup> August 2020**

	regard to acquisition of grazing land. The sparse trees on such grazing ground, which provide mid-day shelter from the scorching sun, should be scrupulously guarded/ protected against felling and plantation of such trees should be promoted	
<b>IX. Public hearing and human health issues</b>		
32)	Project Proponent shall make provision for the housing for workers/labors 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.	Being an integrated project all infrastructure facility inclusive of medical shall be provided during construction and operational phase. Occupational health system shall be in place.
<b>X. Corporate Environment Responsibility (CER)</b>		
33)	The activities and budget earmarked for Corporate Environmental Responsibility (CER) as per Ministry's O.M No 22-65/2017-IA. II (M) dated 01.05.2018 or as proposed by EAC should be kept in a separate bank account. The activities proposed for CER shall be implemented in a time bound manner and annual report of implementation of the same along with documentary proof viz. photographs, purchase documents, latitude & longitude of infrastructure developed & road constructed needs to be submitted to Regional Office MoEF&CC annually along with audited statement.	The area is economically backward and devoid of industrial growth. Implementation of the project will create employment opportunities, infrastructure development and other social benefits. Total Rs. 38.80 Crores has been earmarked for Socio-Economic upliftment of the PAFs and surrounding villages through CER programme.
<b>XI. Miscellaneous</b>		
34)	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.	We assure that we 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.
35)	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.	Agreed and shall be complied as per given direction prior to commencement of mining operation.
36)	The Project Proponent shall submit six monthly compliance reports on the status of the implementation of the stipulated environmental	It shall be ensured that six monthly compliance reports on the status of the implementation of the stipulated environmental safeguards to the MOEFCC &its

**Half Yearly Environment Clearance Compliance Report of M/s Jaykaycem Central Limited, Panna for Period from April 2022 to September 2022**  
**Environment Clearance vide no J-11015/190/2016-IA. II (M) dated 31<sup>st</sup> August 2020**

	safeguards to the MOEFCC & its concerned Regional Office, Central Pollution Control Board and State Pollution Control Board.	concerned Regional Office, Central Pollution Control Board and State Pollution Control Board shall be submitted.																		
37)	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, MoEFCC.	A separate 'Environmental Management Cell' headed by GM (Env.) shall be established. The Senior Executive shall directly report to GM (Env.). Adequate number of qualified Environmental Scientists and Mining Engineers shall be appointed and the details will be submitted to RO, MoEFCC.																		
38)	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.	Agreed and noted.																		
39)	In pursuant to Ministry's O.M No 22-34/2018-IA.III dated 16.01.2020 to comply with the direction made by Hon'ble Supreme Court on 8.01.2020 in W.P. (Civil) No 114/2014 in the matter Common Cause vs Union of India, the mining lease holder shall after ceasing mining operations, undertake re-grassing the mining area and any other area which may have been disturbed due to other mining activities and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.	<div>As per the directions of the Hon'ble Supreme Court dated 8th January, 2020, "The ML Holders shall after ceasing mining operations, undertake re grassing 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, fauna etc. ", which will be complied with.</div> <table><tr><th>Description</th><th>Area(ha.)</th></tr><tr><td>ML Area</td><td>1594.340</td></tr><tr><td>Mineable Area</td><td>1280.332</td></tr><tr><td>Pit area at the end of CP</td><td>1280.332</td></tr><tr><td>Area under sub grade dumps at the end of CP</td><td>164.760</td></tr><tr><td>Total disturbed area at the end of CP</td><td>1445.082</td></tr><tr><td>Area reclaimed by back filling at the end of CP</td><td>437.330</td></tr><tr><td>Area for water body at the end of CP</td><td>752.122</td></tr><tr><td>Area under plantation at the end of CP</td><td>528.200</td></tr></table>	Description	Area(ha.)	ML Area	1594.340	Mineable Area	1280.332	Pit area at the end of CP	1280.332	Area under sub grade dumps at the end of CP	164.760	Total disturbed area at the end of CP	1445.082	Area reclaimed by back filling at the end of CP	437.330	Area for water body at the end of CP	752.122	Area under plantation at the end of CP	528.200
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25.	The Ministry or any other competent authority may alter/modify the above conditions or stipulate any further condition in the interest of environment protection	Noted and agreed																		
26.	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 19	Noted and agreed																		
27.	The above conditions will be enforced inter-alia, under the provisions of the Water(Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the public Liability Insurance Act, 1991 along with their amendments and rules made	Noted and agreed																		

**Half Yearly Environment Clearance Compliance Report of M/s Jaykaycem Central  
Limited, Panna for Period from April 2022 to September 2022**  
**Environment Clearance vide no J-11015/190/2016-IA. II (M) dated 31<sup>st</sup> August 2020**

	there under and also any other orders passed by the Hon'ble Supreme Court of India/High Court and any other Court of Law relating to the subject matter.	
28	Any appeal against this environment clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the Nation Green Tribunal Act, 2010.	Note and agreed

Yours Sincerely

For: Jaykaycem (Central) Limited  
(Wholly Owned Subsidiary of JK Cement Limited)



Anil Badgotri  
(Unit Head)



# Jaykaycem (Central) Ltd.

GSTIN-23AABCJ4401G2Z6

Ref. No. PN/EMD/CWLA/F 12/022

प्रति,

मुख्य कार्यपालन अधिकारी  
जिला पंचायत, पन्ना  
जिला पन्ना (म०प्र०)

Regd Office : Kamla Tower  
Kanpur-208001 (India)

Project Office : My Home Residency,  
Opp. Essar Petrol Pump, Katni Road  
Amanganj - 488441 Panna (M.P.)  
दिनांक - 05.09.2020

विषय-पर्यावरण अनुमति सूचना-पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय भारत सरकार नई दिल्ली ने मेसर्स जेकेसेम(सेन्ट्रल) लिमिटेड की प्रस्तावित चूना पत्थर खनन परियोजना ग्राम-ककरा, कमताना, सप्तई, जूड़ी, देवरी पुरोहित एवं देवरा तहसील-अमानगंज, जिला-पन्ना (म०प्र०)।

संदर्भ- पर्यावरण स्वीकृति पत्र क्रमांक J-11015/190/2016-IA.II (M), दिनांक 31.08.2020।

महोदय,

आपको सूचित किया जाता है कि पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय (एम.ओ.ई.एफ.सी.सी.) भारत सरकार नई दिल्ली ने ई.आई.ए. अधिसूचना 2006 के अधीन मेसर्स जेकेसेम(सेन्ट्रल) लिमिटेड की प्रस्तावित चूना पत्थर खनन परियोजना ग्राम-ककरा, कमताना, सप्तई, जूड़ी, देवरी पुरोहित एवं देवरा तहसील-अमानगंज, जिला-पन्ना (म०प्र०) की प्रस्तावित चूना पत्थर खनन परियोजना के लिए पर्यावरण अनुमति प्रदान की गई है।

वास्ते जेकेसेम (सेन्ट्रल) लिमिटेड

(आदित्य प्रताप सिंह)

महाप्रबन्धक-परियोजना

संलग्नक- पर्यावरण स्वीकृति पत्र क्रमांक J-11015/190/2016-IA.II (M), दिनांक 31.08.2020

प्रतिलिपि-

1. सरपंच/सचिव ग्राम पंचायत सिधोरा (ग्राम ककरा व सप्तई) जिला पन्ना (म०प्र०)

2. सरपंच/सचिव ग्राम पंचायत कमताना (ग्राम कमताना) जिला पन्ना (म०प्र०)

3. सरपंच/सचिव ग्राम पंचायत पगरा (ग्राम जूड़ी) जिला पन्ना (म०प्र०)

4. सरपंच/सचिव ग्राम पंचायत बिल्हा (ग्राम देवरी पुरोहित) जिला पन्ना (म०प्र०)

5. सरपंच/सचिव ग्राम पंचायत देवरा (ग्राम देवरा) जिला पन्ना (म०प्र०)

ग्राम पंचायत देवरा  
अ.प. देवरा, जिला पन्ना (म.प्र.)

CIN:U72305IN101027010000160



छतरपुर जागरण

7

10

दैनिक जागरण  
प्राविश, 4 सितंबर 2020

## जनसूचना

सर्वसाधारण को सूचित किया जाता है कि जे.के. सेम (सेन्द्रल) लिमिटेड को लाइमस्टोन माइन्स जो कि ग्राम ककरा, कमताना, सप्तई, जुड़ी, देवरीपुरोहित एवं देवरा, तहसील अमानगंज, जिला पन्ना में अवस्थित है, को 1594.34 हेक्टेयर क्षेत्रफल (विभिन्न खसरा नं.) के लिए पर्यावरणीय स्वीकृति, पर्यावरण एवं वन, जलवायु परिवर्तन मंत्रालय, भारत सरकार के पत्रांक F.No. J-11015/190/2016-IA(M) के द्वारा दिनांक 31.08.2020 को मिल गयी है। पर्यावरणीय स्वीकृति की कॉपी राजकीय प्रदूषण बोर्ड के कार्यालय में भी उपलब्ध है तथा इसे [www.parivesh.nic.in](http://www.parivesh.nic.in) पर भी देखा जा सकता है।

**प्रोजेक्ट अधार्टी**  
**जे.के. सेम (सेन्द्रल) लिमिटेड**  
**अमानगंज, पन्ना (म.प्र.)**

राज एक्सप्रेस

**पन्ना एक्सप्रेस** 12

सतना

शुक्रवार, 4 सितंबर 2020

### :- जन सूचना:-

सर्व साधारण को सूचित किया जाता है कि जे.के.सेम(सेन्द्रल) लिमिटेड को लाइमस्टोन माइन्स जो कि ग्राम ककरा, कमताना, सप्तई, जुड़ी, देवरी पुरोहित एवं देवरा तहसील अमानगंज जिला पन्ना में अवस्थित है, को 1594.34 हेक्टेयर क्षेत्रफल (विभिन्न खसरा नं.) के लिए पर्यावरणीय स्वीकृति, पर्यावरणीय एवं वन, जलवायु परिवर्तन मंत्रालय, भारत सरकार के पत्रांक F-NO.J.11015/190/2016-IA(M) के द्वारा दिनांक 31.08.2020 को मिल गई है। पर्यावरणीय स्वीकृति की कॉपी राजकीय प्रदूषण बोर्ड के कार्यालय में भी उपलब्ध है तथा इसे [www.parivesh.nic.in](http://www.parivesh.nic.in) पर भी देखा जा सकता है।

**प्रोजेक्ट अधार्टी**  
**जे.के.सेम(सेन्द्रल) लिमिटेड अमानगंज जिला पन्ना (म.प्र.)**

**TO WHOMSOEVER IT MAY CONCERNED**

1-M/S Jaykaycem (central) Limited, having its registered office at kamla Tower, Kanpur - 208001, Up (herein after to be referred as Company) and having a mining lease of Limestone of an area of 1594.34 Hectares situated at villages kakra, kamtana, saplai, judi, Devri Purohit & Devra, Tehsil Amanganj, District Panna, M.P. The Ministry of Environment, Forest & Climate Change (MoEF&CC) has granted Environmental Clearance for the aforesaid mining lease area under the EIA Notification, dated 14.09.2006, vide letter dated 31.08.2020 to the company.

2. The Company apprehends that the Environmental Clearance granted to the company May be challenged by any person/legal entity before the Hon'ble National Green Tribunals, Hon'ble High court, Principal Bench at Jabalpur, M.P. or any other Hon'ble courts, Authorities, Tribunals and may pray for the ex-parte interim order/injunction against the grant of Environmental Clearance to the Company. The Company has, therefore, proposed to lodge caveat Petitions before the concerned Hon'ble courts, Tribunals including National Green Tribunals in this regard.

3. Therefore, any person/legal entity who intent to file any kind of legal case/Petition/Complaint against the grant of Environmental Clearance by MoEF&CC to the company must provide/furnish an advance copy of Petition/case/complaint to the company's Advocate at the below mentioned postal address and email address:

**surender sharma,**  
**Advocate,**  
**A-2/101, First Floor Coral Woods,**  
**Hoshangabad Road,**  
**Bhopal (M.P.) - 462026**  
**Mobile :- 8349909999**  
**Email: surendersharma8@gmail.com**



(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

**NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION**

Project Name:	M/s Kakra Kamtana Limestone Mining Lease		
Project Address:	M/s Jaykaycem (Central) Ltd., Village- Kakra, Kamtana, Saptai, Judi, Devri Purohit, Devra		
Village:	Kakra	Block:	Gunour
District:	Panna	State:	Madhya Pradesh
Pin Code:	488441		
Communication Address:	M/s Jaykaycem (Central) Limited, Opposite Essar Petrol Pump, Katni Road, Amanganj, Panna, Madhya Pradesh - 488441		
Address of CGWB Regional Office :	Central Ground Water Board North Central Region, Block-1, 4th Floor, Paryawas Bhawan, Area Hills, Jail Road, Bhopal, Madhya Pradesh - 462011		

1.	NOC No.:	CGWA/NOC/MIN/ORIG/2020/7359								
2.	Application No.:	21-4/864/MP/MIN/2019			3.	Category:	Mining			
4.	Project Status:	New Project			5.	NOC Type:	New			
6.	Valid from:	03/02/2020			7.	Valid up to:	02/02/2022			
8.	Ground Water Abstraction Permitted:									
Fresh Water		Saline Water		Dewatering		Total				
m³/day	m³/year	m³/day	m³/year	m³/day	m³/year	m³/day	m³/year			
20.00	7300.00			3913.69	1428496.85	3933.69	1435797.00			
9.	Details of ground water abstraction /Dewatering structures									
Total Existing No.:1					Total Proposed No.:4					
	DW	DCB	BW	TW	MP	DW	DCB	BW	TW	MP
Abstraction Structure*	0	0	1	0	0	0	0	0	0	4
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit										
10.	Quantum of ground water recharge/harvesting(m³/year):				943262.00					
11.	Number of Piezometers (Observation wells) to be constructed/ monitored & Monitoring mechanism.				No. of Piezometers		Monitoring Mechanism			
							Manual	DWLR**	DWLR With Telemetry	
	**DWLR - Digital Water Level Recorder				2		0	1	1	

(Compliance Conditions given overleaf)

Digitally signed by  
NANDAKUMARAN P  
Date: 2020.02.05 18:39:19 +05'30'

सदस्य (केन्द्रीय भूमि जल प्राधिकरण)  
Member (CGWA)



**Validity of this NOC shall be subject to compliance of the following mandatory conditions:**

1. No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
2. The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
3. All new as well as existing ground water abstraction/ de-watering structures shall be fitted with digital water flow meters by the firm at its own cost immediately on completion of their construction or grant of NOC as the case may be. In case of renewal of NOCs, all existing ground water abstraction structures shall continue to be fitted with digital water flow meters. Intimation of installation of flow meters shall be sent by the proponent to the Regional Director of CGWB within 6 months of grant of NOC. Daily ground water abstraction data shall be monitored / continue to be monitored (in case of renewal) by the firm and recorded in a log book. Details of month-wise ground water abstraction shall be submitted to the Regional Director, CGWB, once every year.
4. In case the ground water abstraction is more than 10 m<sup>3</sup>/day, monthly water level monitoring data shall be maintained and submitted annually to the Regional Office of CGWB. Wherever groundwater withdrawal is more than 500 m<sup>3</sup>/day, the firm shall install telemetry system in one of the piezometers and share USER ID and password of the telemetry system with the Regional Director, CGWB.
5. In case ground water abstraction is more than 10 m<sup>3</sup>/day, ground water quality shall be monitored once in a year (during pre- monsoon period) and the report submitted to the Regional Director, CGWB.
6. Ground water augmentation/harvesting measures, as stipulated in the NOC, shall be implemented (in new cases) / continue to be maintained (in case of renewal) in consultation with the Regional Director, CGWB.
7. Proof of recharge/ water harvesting (photographs of structures constructed) shall be submitted to the Regional Director, CGWB. The firm shall also undertake periodic maintenance of recharge/water harvesting structures at its own cost.
8. **The firm shall submit a report on the impact of ground water withdrawal on the ground water regime in and around the project area within six months.**
9. The firm shall optimize water use through recycling/ reuse of waste water after proper treatment.
10. The project proponent shall take all necessary measures to prevent contamination of ground water in the premises, failing which the firm shall be responsible for any consequences arising thereupon.
11. In case of industries likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
12. Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
13. In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
14. Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the Regional Director, Central Ground Water Board.
15. The firm shall report compliance of the NOC conditions online in the website ([www.cgwa-noc.gov.in](http://www.cgwa-noc.gov.in)) within one year from the date of issue of this NOC.
16. This NOC is subject to prevailing Central/ State Government rules/ laws/ norms or Court orders related to construction of tube well/ ground water abstraction structure/ recharge or conservation structure/dischage of effluents or any such matter as applicable.
17. This NOC does not absolve the proponents of their obligation/ requirement to obtain other statutory and administrative clearances from appropriate authorities.
18. The issue of this NOC does not imply that other statutory/ administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
19. This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/ court orders in cases related to ground water or any other related matters.
20. Application for renewal can be submitted online from 90 days before the expiry of NOC. Application for renewal of expired NOCs shall not be entertained and subsequent ground water withdrawal, if any, shall be illegal & liable for legal action as per provisions of Environment Protection Act (EPA), 1986.
21. **In case of any violation of NOC conditions or illegal extraction of Ground water the firm shall be liable to pay "Environmental Compensation"/ "Penalty", if any under Sec 15 of EPA 1986 as and when decided by statutory authorities.**

**(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)**



TC-6960

MoEF&CC RECOGNIZED LABORATORY vide S.O.  
3786(E) Dated 15.11.2018 Valid upto 14.11.2023  
ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

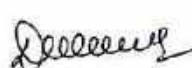
Sample ID No.: SCS/W/20220916/60	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/60(1/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sample Receipt : 20.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°18'19.92"N  
Location : 79°53'38.50"E  
Details of Sample : Kakra Mines (Govt. Hand Pump near house of Laxman Singh S/o Shri Beaver Singh, Village & Post: Maharajganj, Tehsil: Simariya, Dist.: Panna  
Sample collected by : SCS Representative

Sample collected by		SCS Representative		
Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
<b>Table 1: Organoleptic and Physical Parameters</b>				
Temperature	26.3°C	-	-	APHA (23rd Edition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.86	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Turbidity, NTU	0.18	1	5	APHA (23rd Edition) 2130
Total Solids	1,346.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	7.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	1,339.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	2,040µS/cm	-	-	APHA (23rd Edition) 2510B
<b>Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts</b>				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rd Edition) 3111D
Ammonia (as total ammonia-N)	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rd Edition) 4500B-B
Calcium as Ca	153.60 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	231.93 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	0.56 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.06 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	38.88 Mg/L	30 Mg/L	100 Mg/L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rd Edition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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TC-6960

MoEF&GG RECOGNIZED LABORATORY vide S.O.  
5708(E) Dated: 15.11.2018 Valid upto 14.11.2023  
ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

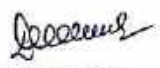
Sample ID No.: SCS/W/20220916/60	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/60(2/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sample Receipt : 20.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the Location : 24°18'19.92"N  
79°53'38.50"E  
Details of Sample : Kakra Mines (Govt. Hand Pump near house of Laxman Singh S/o Shri  
Beaver Singh, Village & Post: Maharajganj, Tehsil: Simariya, Dist.: Panna  
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	52.89 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO <sub>3</sub> B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rd Edition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rd Edition) 3114B
Sulphate as SO <sub>4</sub>	335.35 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	356.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	544.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rd Edition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rd Edition) 4500 CN C&E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rd Edition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rd Edition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rd Edition) 4500 PC
Sodium as Na	190.15 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	15.65 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

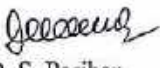
Sample ID No.: SCS/W/20220916/60	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/60(3/4)	Date of Report: 06.10.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sample Receipt : 20.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°18'19.92"N  
Location : 79°53'38.50"E  
Details of Sample : Kakra Mines (Govt. Hand Pump near house of Laxman Singh S/o Shri Beaver Singh, Village & Post: Maharajganj, Tehsil: Simariya, Dist.: Panna  
Sample collected by : SCS Representative

Sample collected by		: SCS Representative		Protocol
Parameter	Results	IS -- 10500:2012		
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				
Alachlor	< 0.10 µg / L		20 µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2 µg / L	USEPA Method No. 525.2 & 8141A
Aldrin / Dieldrin	< 0.03 µg / L		0.03 µg / L	USEPA Method No. 508
α-HCH	< 0.01 µg / L		0.01 µg / L	USEPA Method No. 508
β-HCH	< 0.04 µg / L		0.04 µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125 µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30 µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04 µg / L	USEPA Method No. 508
2,4 Dichlorophenoxyacetic acid	< 1.0 µg / L		30 µg / L	USEPA Method No. 515.1
DDT (o,p and p, p isomers of DDT, DDE and DDD			1 µg / L	USEPA Method No. 508
	< 0.10 µg / L			
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4 µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3 µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2 µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9 µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190 µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3 µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1 µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2 µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	< 0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rd Edition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220916/60	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/60(4/4)	Date of Report: 06.10.2022

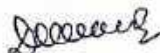
## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sample Receipt : 20.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°18'19.92"N  
Location : 79°53'38.50"E  
Details of Sample : Kakra Mines (Govt. Hand Pump) near house of Laxman Singh S/o Shri Beaver  
Singh, Village & Post: Maharajganj, Tehsil: Simariya, Dist.: Panna  
Sample collected by : SCS Representative

Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	12 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
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TC-6960

NABL & ISO 9001:2015 CERTIFIED LABORATORY  
5768(E) Dated 15.11.2018 Valid upto 14.11.2023  
ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

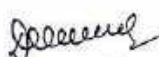
Sample ID No.: SCS/W/20220916/64	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/64(1/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sample Receipt : 18.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the Location : 24°20'22.92"N  
79°58'18.79"E  
Details of Sample : Water sample collected from Borewell near Hanuman Temple, Village &  
Post: Purnia, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature, °C	28.5°C	-	-	APHA (23rd Edition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	7.45	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Turbidity, NTU	0.16	1	5	APHA (23rd Edition) 2130
Total Solids	678.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	674.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	1,027 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rd Edition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rd Edition) 4500B-B
Calcium as Ca	91.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	125.96 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	0.34 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	42.77 Mg/L	30 Mg/L	100 Mg/L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rd Edition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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TC-6960

MoE&CC RECOGNIZED LABORATORY vide S.O.  
5763(E) Dated 15.11.2018 Valid upto 14.11.2023  
ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

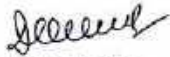
Sample ID No.: SCS/W/20220916/64	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/64(2/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sample Receipt : 18.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the Location : 24°20'22.92"N  
79°58'18.79"E  
Details of Sample : Water sample collected from Borewell near Hanuman Temple, Village &  
Post: Purnia, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	21.83 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rd Edition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rd Edition) 3114B
Sulphate as SO <sub>4</sub>	20.32 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	332.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	404.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rd Edition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rd Edition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rd Edition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rd Edition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rd Edition) 4500 PC
Sodium as Na	33.13 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	6.45 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

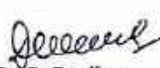
Sample ID No.: SCS/W/20220916/64	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/64(3/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 18.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°20'22.92"N  
Location : 79°58'18.79"E  
Details of Sample : Water sample collected from Borewell near Hanuman Temple, Village & Post:  
Purnia, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample submitted by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				
Alachlor	< 0.10 µg / L	20 µg / L		USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L	2 µg / L		USEPA Method No. 525.2 & 8141A
Aldrin / Dieldrin	< 0.03 µg / L	0.03 µg / L		USEPA Method No. 508
α-HCH	< 0.01 µg / L	0.01 µg / L		USEPA Method No. 508
β-HCH	< 0.04 µg / L	0.04 µg / L		USEPA Method No. 508
Butachlor	< 10.0 µg / L	125 µg / L		USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L	30 µg / L		USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L	0.04 µg / L		USEPA Method No. 508
2,4 Dichlorophenoxyacetic acid	< 1.0 µg / L	30 µg / L		USEPA Method No. 515.1
DDT (o,p and p, p isomers of DDT, DDE and DDD	< 0.10 µg / L	1 µg / L		USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L	0.4 µg / L		USEPA Method No. 508
Ethion	< 0.10 µg / L	3 µg / L		USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L	2 µg / L		USEPA Method No. 508
Isoproturon	< 1.0 µg / L	9 µg / L		USEPA Method No. 532
Malathion	< 10.0 µg / L	190 µg / L		USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L	0.3 µg / L		USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L	1 µg / L		USEPA Method No. 8141A
Phorate	< 0.10 µg / L	2 µg / L		USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	< 0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rd Edition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

  
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(Technical Manager)  
Authorised Signatory



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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

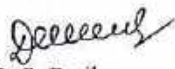
Sample ID No.: SCS/W/20220916/64	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/64(4/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 18.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°20'22.92"N  
Location : 79°58'18.79"E  
Details of Sample : Water sample collected from Borewell near Hanuman Temple, Village & Post:  
Purnia, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample submitted by : SCS Representative

Sample submitted by		SES Representative		
Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
<b>Bacteriological Quality of Water</b>				
Total Coliform	Absent	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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TC-6960

MoEF&CC RECOGNIZED LABORATORY vide S.O.  
578(E) Dated 15.11.2018 Valid upto 14.11.2023  
ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220916/65	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/65(1/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sample Receipt : 18.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°21'09.06"N  
Location : 79°59'58.79"E  
Details of Sample : Water sample collected from Govt Handpump, near house of Mr. Shad Khan S/o  
Shri Ronak Khan, Village & Post: Pagra, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature, °C	28.0°C	-	-	APHA (23rd Edition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.93	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Turbidity, NTU	0.17	1	5	APHA (23rd Edition) 2130
Total Solids	473.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	470.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	698 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rd Edition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rd Edition) 4500B-B
Calcium as Ca	73.60 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	15.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	0.67 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	25.27 Mg/L	30 Mg/L	100 Mg/L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rd Edition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

*[Signature]*  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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TC-6960

MoEF&CC RECOGNIZED LABORATORY vide S.O.  
5788(E) Dated 15.11.2018 Valid upto 14.11.2023  
ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

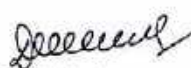
Sample ID No.: SCS/W/20220916/65	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/65(2/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sample Receipt : 18.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°21'09.06"N  
Location : 79°59'58.79"E  
Details of Sample : Water sample collected from Govt Handpump, near house of Mr. Shad Khan S/o  
Shri Ronak Khan, Village & Post: Pagra, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	17.28 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO <sub>3</sub> B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rd Edition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rd Edition) 3114B
Sulphate as SO <sub>4</sub>	11.06 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	316.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	288.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rd Edition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rd Edition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rd Edition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rd Edition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rd Edition) 4500 PC
Sodium as Na	8.42 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.71 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220916/65	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/65(3/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 18.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°21'09.06"N  
Location : 79°59'58.79"E  
Details of Sample : Water sample collected from Govt Handpump, near house of Mr. Shad Khan S/o  
Shri Ronak Khan, Village & Post: Pagra, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample submitted by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				
Alachlor	< 0.10 µg / L		20 µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2 µg / L	USEPA Method No. 525.2 & 8141A
Aldrin / Dieldrin	< 0.03 µg / L		0.03 µg / L	USEPA Method No. 508
α-HCH	< 0.01 µg / L		0.01 µg / L	USEPA Method No. 508
β-HCH	< 0.04 µg / L		0.04 µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125 µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30 µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04 µg / L	USEPA Method No. 508
2,4 Dichlorophenoxyacetic acid	< 1.0 µg / L		30 µg / L	USEPA Method No. 515.1
DDT (o,p and p, p isomers of DDT, DDE and DDD)	< 0.10 µg / L		1 µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4 µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3 µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2 µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9 µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190 µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3 µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1 µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2 µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	< 0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rd Edition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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Authorised Signatory



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RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

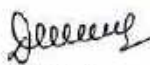
Sample ID No.: SCS/W/20220916/65	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/65(4/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 18.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°21'09.06"N  
Location : 79°59'58.79"E  
Details of Sample : Water sample collected from Govt Handpump, near house of Mr. Shad Khan S/o  
Shri Ronak Khan, Village & Post: Pagra, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample submitted by : SCS Representative

Parameter		Results	IS – 10500:2012		Protocol
			Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water					
Total Coliform		3 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli		Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,

  
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(Technical Manager)  
Authorised Signatory



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TC-6960

MoEF&CC RECOGNIZED LABORATORY vide S.O.  
6785(E) Dated 16.11.2010 Valid upto 14.11.2023  
ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

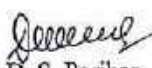
Sample ID No.: SCS/W/20220916/66	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/66(1/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sample Receipt : 19.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the Location : 24°20'22.92"N  
79°58'18.79"E  
Details of Sample : Water sample collected from Govt Handpump, near Govt. School, Village:  
Village- Devra, Post: Puraina, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature, °C	27.1°C	-	-	APHA (23rd Edition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.69	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Turbidity, NTU	0.15	1	5	APHA (23rd Edition) 2130
Total Solids	860.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	856.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	1,325 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rd Edition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rd Edition) 4500B-B
Calcium as Ca	126.40 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	51.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	1.09 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.05 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	27.22 Mg/L	30 Mg/L	100 Mg/L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rd Edition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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TC-6960

NABL ACCREDITED LABORATORY vide S.O.  
578(E) Dated 16.11.2018 Valid upto 14.11.2023  
ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

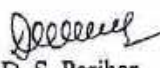
Sample ID No.: SCS/W/20220916/66	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/66(2/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sample Receipt : 19.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the Location : 24°20'22.92"N  
79°58'18.79"E  
Details of Sample : Water sample collected from Govt Handpump, near Govt. School, Village:  
Village- Devra, Post: Puraina, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	21.69 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rd Edition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rd Edition) 3114B
Sulphate as SO <sub>4</sub>	251.50 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	292.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	428.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rd Edition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rd Edition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rd Edition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rd Edition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rd Edition) 4500 PC
Sodium as Na	71.47 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	12.65 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
(Technical Manager)  
Authorised Signatory



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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,  
RAMNAGARIYA ROAD, JAGATPURA,  
JAIPUR-302017, RAJASTHAN (INDIA)  
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

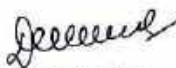
Sample ID No.: SCS/W/20220916/66	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/66(3/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 19.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°20'22.92"N  
Location : 79°58'18.79"E  
Details of Sample : Water sample collected from Govt Handpump, near Govt. School, Village:  
Village- Devra, Post: Puraina, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample submitted by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				
Alachlor	< 0.10 µg / L		20 µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2 µg / L	USEPA Method No. 525.2 & 8141A
Aldrin / Dieldrin	< 0.03 µg / L		0.03 µg / L	USEPA Method No. 508
α-HCH	< 0.01 µg / L		0.01 µg / L	USEPA Method No. 508
β-HCH	< 0.04 µg / L		0.04 µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125 µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30 µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04 µg / L	USEPA Method No. 508
2,4 Dichlorophenoxyacetic acid	< 1.0 µg / L		30 µg / L	USEPA Method No. 515.1
DDT (o,p and p, p isomers of DDT, DDE and DDD	< 0.10 µg / L		1 µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4 µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3 µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2 µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9 µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190 µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3 µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1 µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2 µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	< 0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rd Edition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

  
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CIN NO.:U74140RJ2013PTC042216

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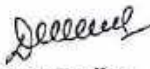
Sample ID No.: SCS/W/20220916/66	Date of Registration: 16.09.2022
Report No. SCS/JKCL/W/20220916/66(4/4)	Date of Report: 06.10.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 19.09.2022  
Date of start of testing : 23.09.2022  
Date of end of testing : 06.10.2022  
GPS Coordinates of the : 24°20'22.92"N  
Location : 79°58'18.79"E  
Details of Sample : Water sample collected from Govt Handpump, near Govt. School, Village:  
Village- Devra, Post: Puraina, Tehsil: Amanganj, Dist.: Panna (M.P.)  
Sample submitted by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	Absent	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
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## Saurabh Kumar Yadav

**From:** Saurabh Kumar Yadav  
**Sent:** 13 July 2022 17:57  
**To:** Abhimanyu Singh; Abhinav Jain; Abhinav Jain3; Abhinav Soni; Abhishek Joshi2; Accounts Panna; Aditya Pratap Singh; Admin Panna; Alok Raj Goutam; Amandeep Singh Rana; Amber Mishra; Amit Dwivedi; Anil Badgotri; Anil Tiwari; Ankish Agrawal; Ankur Solanki; Anurag Pimpalwar; Arpan Dilipkumar Parekh; Arpit Sharma; Arun Kumar; Asad Hatimi; Ashawani Patkar; Ashish Asopa; Ashish Kumar Lall; Ashish Kumar Tiwari2; Aswar Mayur Laxmanbhai; Avik Garg; Avinash Yadav; Bhagwan Singh Shekhawat; Bhupendra Hazari; Brijesh Kumar Godha; Chandrabushan Goswami; Chandrakant Dhandale; Dayaram Vishnoi; Devesh Khanna; Dharmendra Kumar Mishra; Dheerendra Pratap Singh; Dinesh Kumar Mishra; Dipesh Shrimali; Eswaran S; Gajendra Indora; Garun Kumar Tiwari; Gaurav Chhajer; Gaurav Chourasia; Gaurav Kumar Singh; Gaurav Sharma3; Girdharilal Godara; Gouranga Khanra; Govind Kumar; Hareesh Kumar Mishra; Hari Narayan Joshi; Hazarat Ali; Head Security Panna; Himanshu Tripathi1; HN Indrajith; Indrasen Singh; Irfan Khan; ITSupport Panna; Kamalakar Tiwari; Krishna Kumar Sandiyal; Krishna Pal Singh1; Kuldeep Jain; Kumar Sambhavam; Mahendra Joshi; Manas Ranjan Chand; Mangal Nayak; Manoj Bohra; Manoj Kumar Madan; Manoj Kumar Pandey; Manoj Kumar Pareek; Md Shakeel; Mrinal Singh; Mukesh Soni; N Sakthi Aravind Rajan; Naman Soni; Narendra Gayakawad; Nazrul Islam; Nidhi Singh; Nikhil Prakash; Nikhil Sharma1; Nitesh Kumar2; Nitesh Shrivastava; Nitin Shrivastava; Prabhat Kumar Tiwari2; Pradeep Kumar Sharma; Prashant Kumar Shrivastava; Pravin Kumar Mishra; Pravin Singh Panwar; Puneet Choudhary; Punit Somani; Quality Control Panna; Rahul Chhabria; Rahul Jain1; Rajiv Ranjan; Rajneesh Sharma; Rajnish Rawat; Ramji Tiwari; Ranjay Kumar Roy; Reetesh Kumar; Ripudaman Singh Rathore; Rishi Ranjan Kumar Singh; Ritik Dubey; Safikul Mallick; Sandeep Kumar Trivedi; Sandeep Moyal; Sandip Patel; Sangeet Nema; Sanjay Purohit; Sanjay Singh; Sanjeev Kumar Bharti; Santosh Kumar Singh; Sarvendra Kushwaha; Satish Garg; Satyam Dwivedi; Satyam Rathi; Saurabh Kumar Yadav; Saurabh Singh; Shahid Khan; Shankar Singh Kushwaha; Shivam Dixit1; Shivendra Mishra; Shubhansh Chaturvedi; Shweta Pradeep Yemdey; Shyam Pareek; Sonu Kumar Gupta; Sourabh Singh; Subhash Pandey; Sudhir Kumar Sharma; Sumer Singh Jain; Sunil Kumar Sharma3; Suraj Chauhan; Surendra Singh; Talent Panna Project; Tanveer Singh Chouhan; Tarun Dutt Pachori; Tarun Jain; Thirunavukkarasu Murugesan; Vaibhav Sharda; Ved Prakash Sharma; Vijay Singh; Vikas Hirwani; Vishwaraj Krishnawat; Vivek kumar Tripathi; Vivek Singh2; Yogesh Kumar Pandey; Yogesh Rajpurohit; Yograj Baburao Waghaye; Vivek Kumar; Prashant Kumar Jha; Buildwell Jaykay; kbjkpanna@gmail.com; karniconstruction111@gmail.com; shreeramassociates02sra@gmail.com; ankit.ns5536@gmail.com; moneydhingra79@gmail.com; Interspace Design; sandeep.asiatic@gmail.com; panchal.mukesh@hapbcoudr.co.in; hse.jkpanna@hapbcoudr.co.in; Praveen Nair; 'Monomark- Panna'; SUMIT-ENGG INDIA PRIVATE LIMITED; Rahul Shantaram Hiware; smimran0326@gmail.com; SEIPL JCL-PANNA; anjan.singh@thermaxglobal.com  
**Cc:** Anil Badgotri; Anil Kumar Jain; Arpan Dilipkumar Parekh; Manoj Kumar Madan; Pravin Kumar Mishra  
**Subject:** Office order regarding Ban on Usage of Single Use Plastic (SUP) Items in Jaykaycem (Central) Limited, Panna premises  
**Attachments:** DocScanner 13 Jul 2022 12-05.pdf

Dear all

Kindly co-operate in compliance with below mentioned office order:



# JAYKAYCEM (CENTRAL) LIMITED, AMANGANJ (PANNA)

## For Inter Departmental Use

Order no.: JAYKAYCEM/PANNA/ENVIRONMENT/OFFICE ORDER/01

DATE 13.07.2022

From:	To:
VICE-PRESIDENT (P&C)	ALL CONCERNED

### OFFICE ORDER

This is to inform all concerned that as per Ministry of Environment, Forest & Climate Change notification no. G.S.R. 571 (E) dated 12.08.2021 and as rule 4(2) of PWM Rules, 2016 (as amended), "The manufacture, import, stocking, distribution, sale and use of following single use plastic (SUP), including polystyrene and expanded polystyrene, commodities shall be prohibited with effect from 01.07.2022:

- (a) Ear buds with plastic sticks, plastic sticks for balloons, plastic flags, candy sticks, ice cream sticks, polystyrene [Thermocol] for decoration;
- (b) Plates, cups, glasses, cutlery such as forks, spoons, knives, straw, trays, wrapping or packing films around sweet boxes, invitation cards, and cigarette packets, plastic or PVC banners less than 100 micron, stirrers.

To support the above said rule and ban of single use plastic (SUP) in the country, Jaykaycem (Central) Limited, Panna is also decided that above said single use plastic items will not be purchased and used in our factory premises including residential area. However, if anyone is found to use single use plastic (SUP), they will be fined up Rs. 500/-.

Kindly co-operate in above said compliance, please.

Best wishes,



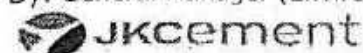
Anil Badgotri

V.P. (P&C)

Thanks & Regards,

**Dr. Saurabh Kumar**

Dy. General Manager (Environment)



Jaykaycem Central Limited

Village- Harduwaken, Tahsil- Amanganj,

District- Panna

Email- [saurabh.yadav1@jkcement.com](mailto:saurabh.yadav1@jkcement.com) Web:- [www.jkcement.com](http://www.jkcement.com)

☎ Mob:- +91 9686502172

## JAYKAYCEM CENTRAL LIMITED, PANNA

### PICTURES ON AWARENESS ON SINGLE USE PLASTIC BAN





