

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

**TC-6960**

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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/AN/20220421/42-44	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AN/20220421/42-44	Date of Report: 08.05.2022

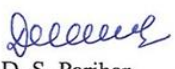
**AMBIENT NOISE MONITORING REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P)  
Date of Monitoring : 21.04.2022  
Date of start of testing : 21.04.2022  
Date of end of testing : 21.04.2022  
Type of Industry : Cement Industry  
Parameter required : Ambient Noise

**RESULTS**

Name of Location	Day Time Results dB (A)	Day Time Standard as per EP Act dB (A)	Night Time Results dB (A)	Night Time Standard as per EP Act dB (A)
Near Guest house GPS: N 24° 19' 18.5" E 79° 58' 24.2"	58.4	75	44.3	70
Near Security Barrack GPS: N 24° 19' 47.6" E 79° 58' 37.2"	57.2	75	43.1	70
Near At Zero point GPS: N 24° 19' 27.7" E 79° 57' 44.0"	58.1	75	43.8	70

Per pro SCS Enviro Services Pvt. Ltd.,

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



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CIN NO.: U74140RJ2013PTC042216



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ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AN/20220421/49-51	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AN/20220421/49-51	Date of Report: 08.05.2022


### AMBIENT NOISE MONITORING REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Monitoring : 22.04.2022  
Date of start of testing : 22.04.2022  
Date of end of testing : 22.04.2022  
Type of Industry : Cement Industry  
Parameter required : Ambient Noise

#### RESULTS

Name of Location	Day Time Results dB (A)	Day Time Standard as per EP Act dB (A)	Night Time Results dB (A)	Night Time Standard as per EP Act dB (A)
Kakra -Panna Mines, Village: Kakra Near house of Vishnu Kant S/o Shri Badri Prasad, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna (M.P.)	54.5	55	42.6	45
Near house of Ratan Singh S/o Shri Sunder Singh, Village: Harduaken, Post: Purania, Tehsil: Amanganj Dist.: Panna (M.P.)	52.4	55	41.9	45
Near house of Pratap Lodi S/o Shri Babu Lal Lodi, Village: Purwa, Post: Purania, Tehsil: Amanganj, Dist.: Panna (M.P.)	53.3	55	43.4	45

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Sample ID No.: SCS/AN/20220421/56-60	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AN/20220421/56-60	Date of Report: 08.05.2022

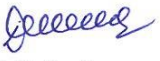
## AMBIENT NOISE MONITORING REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Monitoring : 23.04.2022  
Date of start of testing : 23.04.2022  
Date of end of testing : 23.04.2022  
Type of Industry : Cement Industry  
Parameter required : Ambient Noise

### RESULTS

Name of Location	Day Time Results dB (A)	Day Time Standard as per EP Act dB (A)	Night Time Results dB (A)	Night Time Standard as per EP Act dB (A)
Near Main Gate	62.4	75	51.9	70
Near CCR Building	58.7	75	48.8	70
Koni - Semariya Mines, Village: Boda Near house of Tirj Prasad Tiwari S/o Shri Neni Lal Tiwari, Village & Post: Boda, Tehsil: Semariya, Dist.: Panna (M.P.)	51.3	55	42.4	45
Near house of Rajendra Kumar Gupta S/o Shri Jaganath Gupta, Village, Post and Tehsil: Semariya, Dist.: Panna (M.P.)	54.7	55	44.1	45
Near house of Prem Singh S/o Shri Khilavan Singh, Village & Post: Pagra, Tehsil: Amanganj, Dist.: Panna (M.P.)	51.2	55	42.9	45

Per pro SCS Enviro Services Pvt. Ltd.,

  
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Sample ID No.: SCS/AAQ/20220421/63	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/63	Date of Report: 08.05.2022

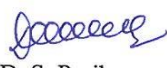
## FUGITIVE EMISSION MONITORING REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist.: Anna (M.P.)  
Date of Monitoring : 25.04.2022  
Date of start of testing : 28.04.2022  
Date of end of testing : 08.05.2022  
Duration of sampling : 8 Hrs.  
Type of Industry : Cement Industry  
Ambient Temperature : 40.3°C  
Name of Location : Near Stacker and Reclaimer Area  
Parameter required : SPM

### RESULTS

Parameter	Observed Value	Limit as per EP Act 1986	Protocol
Suspended Particulate Matter (SPM)	110.3 $\mu\text{g} / \text{m}^3$	600 $\mu\text{g} / \text{m}^3$	IS 5182 (Part 4)

Per pro SCS Enviro Services Pvt. Ltd.,

  
Dr. D. S. Parihar  
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Sample ID No.: SCS/AAQ/20220421/64	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/64	Date of Report: 08.05.2022

## FUGITIVE EMISSION MONITORING REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Monitoring : 25.04.2022  
Date of start of testing : 28.04.2022  
Date of end of testing : 08.05.2022  
Duration of sampling : 8 Hrs.  
Type of Industry : Cement Industry  
Ambient Temperature : 40.1°C  
Name of Location : Near CCR Building  
Parameter required : SPM

### RESULTS

Parameter	Observed Value	Limit as per EP Act 1986	Protocol
Suspended Particulate Matter (SPM)	196.4 $\mu\text{g} / \text{m}^3$	600 $\mu\text{g} / \text{m}^3$	IS 5182 (Part 4)

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar  
(Technical Manager)  
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Sample ID No.: SCS/AAQ/20220421/65	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/65	Date of Report: 08.05.2022

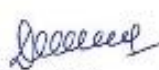
**FUGITIVE EMISSION MONITORING REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Monitoring : 25.04.2022  
Date of start of testing : 28.04.2022  
Date of end of testing : 08.05.2022  
Duration of sampling : 8 Hrs.  
Type of Industry : Cement Industry  
Ambient Temperature : 40.3°C  
Name of Location : Near Clinker Silo Area  
Parameter required : SPM

**RESULTS**

Parameter	Observed Value	Limit as per EP Act 1986	Protocol
Suspended Particulate Matter (SPM)	463.7 $\mu\text{g} / \text{m}^3$	600 $\mu\text{g} / \text{m}^3$	IS 5182 (Part 4)

Per pro SCS Enviro Services Pvt. Ltd.,

  
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Sample ID No.: SCS/AAQ/20220421/66	Date of Registration: 21.04.2022
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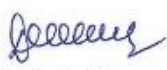
## FUGITIVE EMISSION MONITORING REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Monitoring : 26.04.2022  
Date of start of testing : 28.04.2022  
Date of end of testing : 08.05.2022  
Duration of sampling : 8 Hrs.  
Type of Industry : Cement Industry  
Ambient Temperature : 38.3°C  
Name of Location : Near Packing Plant Area  
Parameter required : SPM

### RESULTS

Parameter	Observed Value	Limit as per EP Act 1986	Protocol
Suspended Particulate Matter (SPM)	210.3 $\mu\text{g} / \text{m}^3$	600 $\mu\text{g} / \text{m}^3$	IS 5182 (Part 4)

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Sample ID No.: SCS/AAQ/20220421/39	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/39	Date of Report: 08.05.2022

**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Monitoring : 21.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
Duration of sampling : 24 Hrs.  
Type of Industry : Cement Industry  
GPS Coordinates of the Location : 24°19'47.6"N  
79°58'37.2"E  
Ambient Temperature : 39.2°C  
Name of Location : Near Security Barrack  
Parameter required : PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM <sub>10</sub> )	62.3 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	27.6 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.8 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	15.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	802 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/13

Per pro SCS Enviro Services Pvt. Ltd.,

  
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Sample ID No.: SCS/AAQ/20220421/40	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/40	Date of Report: 08.05.2022

**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Monitoring : 21.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
Duration of sampling : 24 Hrs.  
Type of Industry : Cement Industry  
GPS Coordinates of the Location : 24°19'27.7"N  
75°38'18.3"E  
Ambient Temperature : 39.5°C  
Name of Location : Near Zero Point  
Parameter required : PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM <sub>10</sub> )	53.6 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	32.0 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	6.5 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	11.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	687 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/13

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Sample ID No.: SCS/AAQ/20220421/41	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/41	Date of Report: 08.05.2022


**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P)  
Date of Monitoring : 21.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
Duration of sampling : 24 Hrs.  
Type of Industry : Cement Industry  
GPS Coordinates of the Location : 24°19'18.5"N  
79°58'24.2"E  
Ambient Temperature : 39.8°C  
Name of Location : Near Guest House  
Parameter required : PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM <sub>10</sub> )	60.2 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	36.4 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.4 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	13.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	802 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/13

Per pro SCS Enviro Services Pvt. Ltd.,

  
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Sample ID No.: SCS/AAQ/20220421/61	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/61	Date of Report: 08.05.2022

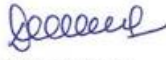
**AMBIENT AIR QUALITY MONITORING REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Monitoring : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
Duration of sampling : 24 Hrs.  
Type of Industry : Cement Industry  
GPS Coordinates of the Location : 24°19'49.2"N  
79°57'50.6"E  
Ambient Temperature : 40.4°C  
Name of Location : Behind Packing Plant  
Parameter required : PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO

**RESULTS**

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM <sub>10</sub> )	58.9 µg / m <sup>3</sup>	100 µg / m <sup>3</sup>	IS 5182 (Part 23)
Particulate Matter (PM <sub>2.5</sub> )	36.7 µg / m <sup>3</sup>	60 µg / m <sup>3</sup>	IS 5182 (Part 24)
Sulphur Dioxide (SO <sub>2</sub> )	7.3 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 2)
Oxide Of Nitrogen (NO <sub>x</sub> )	12.0 µg / m <sup>3</sup>	80 µg / m <sup>3</sup>	IS 5182 (Part 6)
Carbon Monoxide (CO)	802 µg / m <sup>3</sup>	2,000 µg / m <sup>3</sup>	SCS/SOP/AAQ/13

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

TC-6960

MoEF&CC RECOGNIZED LABORATORY  
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ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/71	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/71(1/4)	Date of Report: 08.05.2022

## 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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
GPS Coordinates of the Location : 24°19'27.0"N  
79°57'44.3"E  
Details of Sample : Borewell Zero Point  
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	29.8°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	6.68	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H <sup>+</sup>
Turbidity, NTU	0.21	1	5	APHA (23rd Edition) 2130
Total Solids	636.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	633.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	925 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 (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	104.00 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	21.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	0.88 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	26.24 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.,

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Authorised Signatory



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

**TC-6960**  
MoEF&CC RECOGNIZED LABORATORY  
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ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY


Sample ID No.: SCS/W/20220421/71	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/71(2/4)	Date of Report: 08.05.2022

## 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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
GPS Coordinates of the Location : 24°19'27.0"N  
79°57'44.3"E  
Details of Sample : Borewell Zero Point  
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>	17.65 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>	58.24 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>	380.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	368.00 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	22.37 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.14 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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CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
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Sample ID No.: SCS/W/20220421/71	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/71(3/4)	Date of Report: 08.05.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
GPS Coordinates of the : 24°19'27.0"N  
Location : 79°57'44.3"E  
Details of Sample : Borewell Zero Point  
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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Sample ID No.: SCS/W/20220421/71	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/71(4/4)	Date of Report: 08.05.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
GPS Coordinates of the : 24°19'27.0"N  
Location : 79°57'44.3"E  
Details of Sample : Borewell Zero Point  
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	5 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

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Sample ID No.: SCS/W/20220421/72	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/72(1/4)	Date of Report: 08.05.2022

## 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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
GPS Coordinates of the Location : 24°19'36.4"N  
79°58'34.5"E  
Details of Sample : Borewell Near Main Gate  
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	30.6°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	7.05	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	0.17	1	5	APHA (23rd Edition) 2130
Total Solids	561.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	559.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	874 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 (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	70.40 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	0.86 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	30.13 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

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Sample ID No.: SCS/W/20220421/72	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/72(2/4)	Date of Report: 08.05.2022

## 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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
GPS Coordinates of the Location : 24°19'36.4"N  
79°58'34.5"E  
Details of Sample : Borewell Near Main Gate  
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>	22.68 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>	11.75 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>	380.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	300.00 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	25.95 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.12 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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ISO-9001:2015 CERTIFIED LABORATORY  
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ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/72	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/72(3/4)	Date of Report: 08.05.2022

**TEST REPORT**

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
GPS Coordinates of the : 24°19'36.4"N  
Location : 79°58'34.5"E  
Details of Sample : Borewell Near Main Gate  
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.,

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

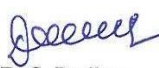
Sample ID No.: SCS/W/20220421/72	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/72(4/4)	Date of Report: 08.05.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 08.05.2022  
GPS Coordinates of the : 24°19'36.4"N  
Location : 79°58'34.5"E  
Details of Sample : Borewell Near Main Gate  
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.,

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



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TC-6960

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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/20220421/100	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/100(1/4)	Date of Report: 14.05.2022

**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 : 24.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°16'00.6"N  
Location : 79°56'10.7"E  
Details of Sample : Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri  
Nandi Chaudhary, Village & Post: Umri, 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	
Table 1: Organoleptic and Physical Parameters				
Temperature	31.2°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.64	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.17	1	5	APHA (23rdEdition) 2130
Total Solids	548.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	548.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	784 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	72.00 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	45.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.96 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	27.22 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

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. 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/20220421/100	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/100(2/4)	Date of Report: 14.05.2022

## 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 : 24.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°16'00.6"N  
Location : 79°56'10.7"E  
Details of Sample : Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri Nandi Chaudhary, Village & Post: Umri, 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>	24.67 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 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 (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	53.11 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	284.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	292.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	37.12 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	2.66 Mg/L	-	-	APHA (23rdEdition) 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

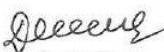
Sample ID No.: SCS/W/20220421/100	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/100(3/4)	Date of Report: 14.05.2022

## 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 : 24.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°16'00.6"N  
Location : 79°56'10.7"E  
Details of Sample : Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri Nandi Chaudhary, Village & Post: Umri, 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	
Pesticides Residues				
Alachlor	< 0.10 µg / L		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / 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		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / 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		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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/20220421/100	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/100(4/4)	Date of Report: 14.05.2022

## 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 : 24.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°16'00.6"N  
Location : 79°56'10.7"E  
Details of Sample : Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri  
Nandi Chaudhary, Village & Post: Umri, 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	
Bacteriological Quality of Water				
Total Coliform	11 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)  
Authorised Signatory



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Sample ID No.: SCS/W/20220421/88	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/88(1/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of : 24°20'30.7"N  
the Location : 79°56'14.1"E  
Details of Sample : Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o  
Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna  
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	29.6°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	7.87	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H <sup>+</sup>
Turbidity, NTU	1.54	1	5	APHA (23rdEdition) 2130
Total Solids	1,698.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	8.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,690.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,540 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	164.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	227.93 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.43 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.10 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	43.74 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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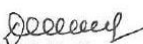
Sample ID No.: SCS/W/20220421/88	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/88(2/4)	Date of Report: 14.05.2022

**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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°20'30.7"N  
79°56'14.1"E  
Details of Sample : Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o  
Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, 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>	31.09 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&C
Sulphate as SO <sub>4</sub>	362.20 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>	572.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	592.00 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	278.93 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	6.57 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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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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/20220421/88	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/88(3/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°20'30.7"N  
79°56'14.1"E  
Details of Sample : Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna  
Sample collected 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		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / 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		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / 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		1µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

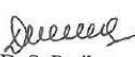
Sample ID No.: SCS/W/20220421/88	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/88(4/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of : 24°20'30.7"N  
the Location : 79°56'14.1"E  
Details of Sample : Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o  
Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna  
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)  
Authorised Signatory



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TC-6960

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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/20220421/89	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/89(1/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°22'54.2"N  
Location : 79°57'30.0"E  
Details of Sample : Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash  
Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna  
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	30.2°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	7.95	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	0.17	1	5	APHA (23rd Edition) 2130
Total Solids	1,934.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	1,930.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	2,860 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	171.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	371.92 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	1.39 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.12 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	40.82 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&CC RECOGNIZED LABORATORY  
vide S.O. 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/20220421/89	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/89(2/4)	Date of Report: 14.05.2022

**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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°22'54.2"N  
Location : 79°57'30.0"E  
Details of Sample : Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash  
Garg, Village & Post: Kamtana, Tehsil: Amanganj, 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>	29.66 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 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 (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	397.83 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	548.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	596.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	340.92 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	28.68 Mg/L	-	-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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

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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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/20220421/89	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/89(3/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°22'54.2"N  
Location : 79°57'30.0"E  
Details of Sample : Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash  
Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna  
Sample collected 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		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / 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		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / 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		1µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 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

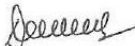
Sample ID No.: SCS/W/20220421/89	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/89(4/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°22'54.2"N  
Location : 79°57'30.0"E  
Details of Sample : Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash  
Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna  
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	20 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)  
Authorised Signatory



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TC-6960

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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/20220421/90	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/90(1/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'31.1"N  
Location : 79°58'24.4"E  
Details of Sample : Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri  
Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna  
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	31.1 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.85	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.13	1	5	APHA (23rdEdition) 2130
Total Solids	790.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	788.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,173 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	92.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	117.96 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.60 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	53.46 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

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. 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

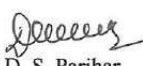
Sample ID No.: SCS/W/20220421/90	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/90(2/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'31.1"N  
Location : 79°58'24.4"E  
Details of Sample : Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri  
Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, 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>	44.35 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 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 (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	63.81 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	356.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	452.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	56.29 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	3.70 Mg/L	-	-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

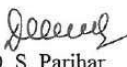
Sample ID No.: SCS/W/20220421/90	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/90(3/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'31.1"N  
Location : 79°58'24.4"E  
Details of Sample : Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri  
Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna  
Sample collected 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	20µg / L		USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L	2µg / 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	0.04µg / L		USEPA Method No. 508
Butachlor	< 10.0 µg / L	125µg / L		USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L	30µg / L		USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L	0.04µg / 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	1µg / L		USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L	0.4µg / L		USEPA Method No. 508
Ethion	< 0.10 µg / L	3µg / L		USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L	2µg / L		USEPA Method No. 508
Isoproturon	< 1.0 µg / L	9µg / L		USEPA Method No. 532
Malathion	< 10.0 µg / L	190µg / L		USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L	0.3µg / L		USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L	1µg / L		USEPA Method No. 8141A
Phorate	< 0.10 µg / L	2µg / L		USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

ISO-9001:2015 CERTIFIED LABORATORY  
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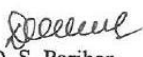
Sample ID No.: SCS/W/20220421/90	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/90(4/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'31.1"N  
Location : 79°58'24.4"E  
Details of Sample : Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri  
Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna  
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	7 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)  
Authorised Signatory



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

TC-6960  
MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023  
ISO-9001:2015 CERTIFIED LABORATORY  
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ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/91	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/91(1/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°21'18.5"N  
Location : 80°00'06.3"E  
Details of Sample : Water sample collected from Govt Handpump near Govt. School, Village & Post:  
Pagra, Tehsil: Amanganj, Dist.: Panna  
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	29.3 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	8.11	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.78	1	5	APHA (23rdEdition) 2130
Total Solids	1,475.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,472.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,120 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	142.40 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	97.97 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.24 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.06 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	45.68 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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TC-6960

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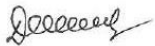
Sample ID No.: SCS/W/20220421/91	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/91(2/4)	Date of Report: 14.05.2022

**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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°21'18.5"N  
Location : 80°00'06.3"E  
Details of Sample : Water sample collected from Govt Handpump near Govt. School, Village & Post:  
Pagra, Tehsil: Amanganj, 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>	4.74 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 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 (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	348.80 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	598.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	544.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	220.37 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	12.75 Mg/L	-	-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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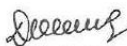
Sample ID No.: SCS/W/20220421/91	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/91(3/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°21'18.5"N  
Location : 80°00'06.3"E  
Details of Sample : Water sample collected from Govt Handpump near Govt. School, Village & Post:  
Pagra, Tehsil: Amanganj, Dist.: Panna  
Sample collected 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	20µg / L		USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L	2µg / 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	0.04µg / L		USEPA Method No. 508
Butachlor	< 10.0 µg / L	125µg / L		USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L	30µg / L		USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L	0.04µg / 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	1µg / L		USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L	0.4µg / L		USEPA Method No. 508
Ethion	< 0.10 µg / L	3µg / L		USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L	2µg / L		USEPA Method No. 508
Isoproturon	< 1.0 µg / L	9µg / L		USEPA Method No. 532
Malathion	< 10.0 µg / L	190µg / L		USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L	0.3µg / L		USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L	1µg / L		USEPA Method No. 8141A
Phorate	< 0.10 µg / L	2µg / L		USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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CIN NO.:U74140RJ2013PTC042216

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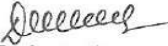
Sample ID No.: SCS/W/20220421/91	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/91(4/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°21'18.5"N  
Location : 80°00'06.3"E  
Details of Sample : Water sample collected from Govt Handpump near Govt. School, Village & Post:  
Pagra, Tehsil: Amanganj, Dist.: Panna  
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)  
Authorised Signatory



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TC-6960

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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

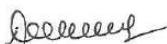
Sample ID No.: SCS/W/20220421/92	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/92(1/4)	Date of Report: 14.05.2022

## 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 : 24.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°24'16.2"N  
79°54'39.4"E  
Details of Sample : Water sample collected from Govt Borewell near Govt. School, Village:  
Udla, Post: Sunwani Kalan, Tehsil: Amanganj, Dist.: Panna  
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	32.0°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.89	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.19	1	5	APHA (23rdEdition) 2130
Total Solids	223.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	223.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	355 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	35.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	27.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.31 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.02 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	9.72 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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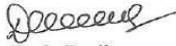
Sample ID No.: SCS/W/20220421/92	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/92(2/4)	Date of Report: 14.05.2022

## 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 : 24.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°24'16.2"N  
79°54'39.4"E  
Details of Sample : Water sample collected from Govt Borewell near Govt. School, Village:  
Udla, Post: Sunwani Kalan, Tehsil: Amanganj, 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>	10.98 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 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 (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	23.98 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	100.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	128.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	10.81 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	3.52 Mg/L	-	-	APHA (23rdEdition) 3500 B

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

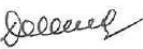
Sample ID No.: SCS/W/20220421/92	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/92(3/4)	Date of Report: 14.05.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 24.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°24'16.2"N  
Location : 79°54'39.4"E  
Details of Sample : Water sample collected from Govt Borewell near Govt. School, Village: Udla,  
Post: Sunwani Kalan, Tehsil: Amanganj, Dist.: Panna  
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		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / 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		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / 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		1µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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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/20220421/92	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/92(4/4)	Date of Report: 14.05.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 24.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°24'16.2"N  
Location : 79°54'39.4"E  
Details of Sample : Water sample collected from Govt Borewell near Govt. School, Village: Udla,  
Post: Sunwani Kalan, Tehsil: Amanganj, Dist.: Panna  
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	16 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)  
Authorised Signatory



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TC-6960

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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/20220421/93	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/93(1/4)	Date of Report: 14.05.2022

**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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°18'31.1"N  
79°58'24.4"E  
Details of Sample : Water sample collected from Govt Handpump near house of Madhya  
Singh S/o Shri Arth Singh Yadav, Village: Sotipura, Post: Sunwani Kalan,  
Tehsil: Amanganj, Dist.: Panna  
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	30.8°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.85	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H <sup>+</sup>
Turbidity, NTU	0.14	1	5	APHA (23rdEdition) 2130
Total Solids	491.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	491.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	860 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	59.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	25.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.65 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	37.91 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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

MoEF&CC RECOGNIZED LABORATORY  
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ISO-9001:2015 CERTIFIED LABORATORY  
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ISO-45001:2018 CERTIFIED LABORATORY


Sample ID No.: SCS/W/20220421/93	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/93(2/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°18'31.1"N  
79°58'24.4"E  
Details of Sample : Water sample collected from Govt Handpump near house of Madhya  
Singh S/o Shri Arth Singh Yadav, Village: Sotipura, Post: Sunwani Kalan,  
Tehsil: Amanganj, 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>	21.41 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&C
Sulphate as SO <sub>4</sub>	10.33 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>	320.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	304.00 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	13.24 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.86 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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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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/20220421/93	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/93(3/4)	Date of Report: 14.05.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'31.1"N  
Location : 79°58'24.4"E  
Details of Sample : Water sample collected from Govt Handpump near house of Madhya Singh S/o  
Shri Arth Singh Yadav, Village: Sotipura, Post: Sunwani Kalan, Tehsil:  
Amanganj, Dist.: Panna  
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		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / 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		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / 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		1µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

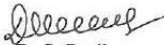
Sample ID No.: SCS/W/20220421/93	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/93(4/4)	Date of Report: 14.05.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'31.1"N  
Location : 79°58'24.4"E  
Details of Sample : Water sample collected from Govt Handpump near house of Madhya Singh S/o  
Shri Arth Singh Yadav, Village: Sotipura, Post: Sunwani Kalan, Tehsil:  
Amanganj, Dist.: Panna  
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	23 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)  
Authorised Signatory



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



TC-6960

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

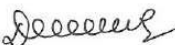
Sample ID No.: SCS/W/20220421/94	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/94(1/4)	Date of Report: 14.05.2022

## 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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°23'13.2"N  
Location : 80°00'48.0"E  
Details of Sample : Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna  
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	31.0 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	7.98	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.21	1	5	APHA (23rdEdition) 2130
Total Solids	1,969.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,967.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	3,050 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	169.60 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	495.84 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.46 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.08 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	40.82 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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

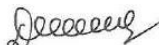
Sample ID No.: SCS/W/20220421/94	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/94(2/4)	Date of Report: 14.05.2022

**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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°23'13.2"N  
80°00'48.0"E  
Details of Sample : Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri  
Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, 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>	42.09 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&C
Sulphate as SO <sub>4</sub>	397.15 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>	504.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	592.00 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	390.20 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	23.33 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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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

ISO-9001:2015 CERTIFIED LABORATORY  
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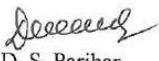
Sample ID No.: SCS/W/20220421/94	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/94(3/4)	Date of Report: 14.05.2022

## 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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°23'13.2"N  
Location : 80°00'48.0"E  
Details of Sample : Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna  
Sample collected 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		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / 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		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / 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		1µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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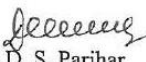
Sample ID No.: SCS/W/20220421/94	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/94(4/4)	Date of Report: 14.05.2022

## 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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°23'13.2"N  
Location : 80°00'48.0"E  
Details of Sample : Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri  
Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna  
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	13 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)  
Authorised Signatory



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ISO-45001:2018 CERTIFIED LABORATORY


Sample ID No.: SCS/W/20220421/95	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/95(1/4)	Date of Report: 14.05.2022

**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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°19'54.2"N  
79°56'48.0"E  
Details of Sample : Water sample collected from Govt Handpump near Govt school, Village:  
Purwa, Post: Puraina, Tehsil: Amanganj, Dist.: Panna  
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	28.7 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.55	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.67	1	5	APHA (23rdEdition) 2130
Total Solids	887.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	883.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,286 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	116.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	19.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.23 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	56.38 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

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

**TC-6960**

MoEF&CC RECOGNIZED LABORATORY  
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ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

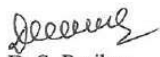
Sample ID No.: SCS/W/20220421/95	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/95(2/4)	Date of Report: 14.05.2022

**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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°19'54.2"N  
79°56'48.0"E  
Details of Sample : Water sample collected from Govt Handpump near Govt school, Village:  
Purwa, Post: Puraina, Tehsil: Amanganj, 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>	2.44 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 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 (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	335.31 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	308.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	524.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	40.41 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	1.85 Mg/L	-	-	APHA (23rdEdition) 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/20220421/95	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/95(3/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°19'54.2"N  
Location : 79°56'48.0"E  
Details of Sample : Water sample collected from Govt Handpump near Govt school, Village:  
Purwa, Post: Puraina, Tehsil: Amanganj, Dist.: Panna  
Sample collected 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		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / 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		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / 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		1µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

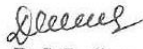
Sample ID No.: SCS/W/20220421/95	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/95(4/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°19'54.2"N  
Location : 79°56'48.0"E  
Details of Sample : Water sample collected from Govt Handpump near Govt school, Village:  
Purwa, Post: Puraina, Tehsil: Amanganj, Dist.: Panna  
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	9 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)  
Authorised Signatory



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

**TC-6960**

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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

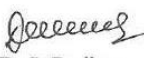
Sample ID No.: SCS/W/20220421/96	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/96(1/4)	Date of Report: 14.05.2022

**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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°25'32.3"N  
80°02'29.7"E  
Details of Sample : Water sample collected from Govt Borewell Near Water Works, Village:  
Amanganj, Post & Tehsil: Amanganj, Dist.: Panna  
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	29.4°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	8.06	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.18	1	5	APHA (23rdEdition) 2130
Total Solids	1,628.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,628.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,380 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	145.60 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	201.94 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 (23rdEdition) 3111B
Fluoride as F	1.05 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.07 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	48.60 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

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

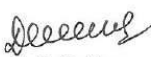
Sample ID No.: SCS/W/20220421/96	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/96(2/4)	Date of Report: 14.05.2022

**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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°25'32.3"N  
80°02'29.7"E  
Details of Sample : Water sample collected from Govt Borewell Near Water Works, Village:  
Amanganj, Post & Tehsil: Amanganj, 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>	7.29 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&C
Sulphate as SO <sub>4</sub>	372.45 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>	580.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	564.00 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	261.30 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	10.16 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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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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/20220421/96	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/96 (3/4)	Date of Report: 14.05.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°25'32.3"N  
Location : 80°02'29.7"E  
Details of Sample : Water sample collected from Govt Borewell Near Water Works, Village:  
Amanganj, Post & Tehsil: Amanganj, Dist.: Panna  
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		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / 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		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / 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		1µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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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

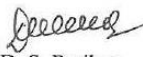
Sample ID No.: SCS/W/20220421/96	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/96(4/4)	Date of Report: 14.05.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°25'32.3"N  
Location : 80°02'29.7"E  
Details of Sample : Water sample collected from Govt Borewell Near Water Works, Village:  
Amanganj, Post & Tehsil: Amanganj, Dist.: Panna  
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	5 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)  
Authorised Signatory



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

**TC-6960**

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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/20220421/97	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/97(1/4)	Date of Report: 14.05.2022

**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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°16'36.7"N  
79°54'24.6"E  
Details of Sample : Water sample collected from Borewell near house of Kallu Yadav S/o Shri  
Gokul Yadav, Village: Simariya Garhi, Post & 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	
Table 1: Organoleptic and Physical Parameters				
Temperature	29.9°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.61	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H <sup>+</sup>
Turbidity, NTU	0.13	1	5	APHA (23rdEdition) 2130
Total Solids	580.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	576.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	856 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	75.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	47.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.73 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.06 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	42.77 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

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. 5766(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/20220421/97	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/97(2/4)	Date of Report: 14.05.2022

### 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°16'36.7"N  
79°54'24.6"E  
Details of Sample : Water sample collected from Borewell near house of Kallu Yadav S/o Shri  
Gokul Yadav, Village: Simariya Garhi, Post & 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>	12.47 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 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 (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	58.06 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	316.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	334.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	21.01 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	1.55 Mg/L	-	-	APHA (23rdEdition) 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/20220421/97	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/97(3/4)	Date of Report: 14.05.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°16'36.7"N  
Location : 79°54'24.6"E  
Details of Sample : Water sample collected from Borewell near house of Kallu Yadav S/o Shri Gokul Yadav, Village: Simariya Garhi, Post & Tehsil: Simariya, Dist.: Panna  
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	20µg / L		USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L	2µg / 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	0.04µg / L		USEPA Method No. 508
Butachlor	< 10.0 µg / L	125µg / L		USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L	30µg / L		USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L	0.04µg / 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	1µg / L		USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L	0.4µg / L		USEPA Method No. 508
Ethion	< 0.10 µg / L	3µg / L		USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L	2µg / L		USEPA Method No. 508
Isoproturon	< 1.0 µg / L	9µg / L		USEPA Method No. 532
Malathion	< 10.0 µg / L	190µg / L		USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L	0.3µg / L		USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L	1µg / L		USEPA Method No. 8141A
Phorate	< 0.10 µg / L	2µg / L		USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

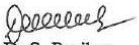
Sample ID No.: SCS/W/20220421/97	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/97(4/4)	Date of Report: 14.05.2022

## TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,  
Address Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)  
Date of Sampling : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°16'36.7"N  
Location : 79°54'24.6"E  
Details of Sample : Water sample collected from Borewell near house of Kallu Yadav S/o Shri  
Gokul Yadav, Village: Simariya Garhi, Post & Tehsil: Simariya, Dist.: Panna  
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	7 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)  
Authorised Signatory



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TC-6960

MoEF&CC RECOGNIZED LABORATORY  
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ISO-9001:2015 CERTIFIED LABORATORY  
ISO-14001:2015 CERTIFIED LABORATORY  
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/98	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/98(1/4)	Date of Report: 14.05.2022

**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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'38.4"N  
Location : 79°54'12.3"E  
Details of Sample : Water sample collected from Borewell near house of Randhir Singh S/o Shri Nathu Singh, Village & Post: Bharatpur, 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	
Table 1: Organoleptic and Physical Parameters				
Temperature	32.3 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	8.23	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H *
Turbidity, NTU	0.15	1	5	APHA (23rdEdition) 2130
Total Solids	1,740.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,737.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,490 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	132.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	227.93 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.33 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.10 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	52.49 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

*Dr. D. S. Parihar*  
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



TC-6960

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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/20220421/98	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/98(2/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'38.4"N  
Location : 79°54'12.3"E  
Details of Sample : Water sample collected from Borewell near house of Randhir Singh S/o Shri  
Nathu Singh, Village & Post: Bharatpur, 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>	6.37 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 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 (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	391.78 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	584.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	548.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	287.85 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	52.7 Mg/L	-	-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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/20220421/98	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/98(3/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'38.4"N  
Location : 79°54'12.3"E  
Details of Sample : Water sample collected from Borewell near house of Randhir Singh S/o Shri Nathu Singh, Village & Post: Bharatpur, 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	
Pesticides Residues				
Alachlor	< 0.10 µg / L	20µg / L		USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L	2µg / 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	0.04µg / L		USEPA Method No. 508
Butachlor	< 10.0 µg / L	125µg / L		USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L	30µg / L		USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L	0.04µg / 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	1µg / L		USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L	0.4µg / L		USEPA Method No. 508
Ethion	< 0.10 µg / L	3µg / L		USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L	2µg / L		USEPA Method No. 508
Isoproturon	< 1.0 µg / L	9µg / L		USEPA Method No. 532
Malathion	< 10.0 µg / L	190µg / L		USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L	0.3µg / L		USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L	1µg / L		USEPA Method No. 8141A
Phorate	< 0.10 µg / L	2µg / L		USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

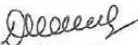
Sample ID No.: SCS/W/20220421/98	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/98(4/4)	Date of Report: 14.05.2022

## 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 : 25.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'38.4"N  
Location : 79°54'12.3"E  
Details of Sample : Water sample collected from Borewell near house of Randhir Singh S/o Shri  
Nathu Singh, Village & Post: Bharatpur, 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	
Bacteriological Quality of Water				
Total Coliform	10 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)  
Authorised Signatory



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TC-6960

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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/20220421/99	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/99(1/4)	Date of Report: 14.05.2022

## 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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the Location : 24°18'01.5"N  
80°00'0.2"E  
Details of Sample : Water sample collected from Govt Handpump near house of Rajaram Modi  
S/o Shri Hardin Modi, Village: Mahod, 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	
Table 1: Organoleptic and Physical Parameters				
Temperature	31.7 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.61	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.24	1	5	APHA (23rdEdition) 2130
Total Solids	587.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	587.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	843 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 (23rdEdition) 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 (23rdEdition) 4500B-B
Calcium as Ca	99.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	25.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.52 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	18.47 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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

**TC-6960**

MoEF&CC RECOGNIZED LABORATORY  
vide S.O. 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

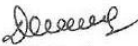
Sample ID No.: SCS/W/2022042199	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/99(2/4)	Date of Report: 14.05.2022

**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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'01.5"N  
Location : 80°00'00.2"E  
Details of Sample : Water sample collected from Govt Handpump near house of Rajaram Modi S/o  
Shri Hardin Modi, Village: Mahod, 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>	9.6 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 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 (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	77.77 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	324.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	324.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
<b>Table 3: Parameters containing Toxic Substances</b>				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	29.80 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	1.19 Mg/L	-	-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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# SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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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/20220421/99	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/99(3/4)	Date of Report: 14.05.2022

## 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 : 26.04.2022  
Date of start of testing : 27.04.2022  
Date of end of testing : 14.05.2022  
GPS Coordinates of the : 24°18'01.5"N  
Location : 80°00'00.2"E  
Details of Sample : Water sample collected from Govt Handpump near house of Rajaram Modi S/o  
Shri Hardin Modi, Village: Mahod, 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	
Pesticides Residues				
Alachlor	< 0.10 µg / L		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / 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		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / 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		1µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9µg / L	USEPA Method No. 532
Malathion	< 10.0 µg / L		190µg / L	USEPA Method No. 8141A
Methyl Parathion	< 0.10 µg / L		0.3µg / L	USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L		1µg / L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2µg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	0.0001 Mg / L	No relaxation	APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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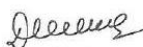
Sample ID No.: SCS/W/20220421/99	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/99(4/4)	Date of Report: 14.05.2022

## 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 : 26.04.2022  
Date of start of testing : 27.04.2022  
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GPS Coordinates of the : 24°18'01.5"N  
Location : 80°00'00.2"E  
Details of Sample : Water sample collected from Govt Handpump near house of Rajaram Modi S/o  
Shri Hardin Modi, Village: Mahod, 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	
Bacteriological Quality of Water				
Total Coliform	18 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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