



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/AAQ/20220421/52	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/52	Date of Report: 08.05.2022

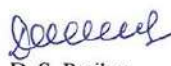
AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Monitoring : 23.04.2022
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°16'34.5"N
79°49'25.1"E
Ambient Temperature : 39.1°C
Name of Location : Near house of Sohan Lal Patel S/o Shri Chura Mal Patel, Village: Kolkariya, Post: Devra, Tehsil: Simariya, Dist.: Panna (M.P.)
Parameter required : PM₁₀, PM_{2.5}, SO₂, NO_x, CO

RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM ₁₀)	55.6 µg / m ³	100 µg / m ³	IS 5182 (Part 23)
Particulate Matter (PM _{2.5})	33.0 µg / m ³	60 µg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	7.6 µg / m ³	80 µg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _x)	12.0 µg / m ³	80 µg / m ³	IS 5182 (Part 6)
Carbon Monoxide (CO)	687 µg / m ³	2,000 µg / m ³	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



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Sample ID No.: SCS/AAQ/20220421/53	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/53	Date of Report: 08.05.2022

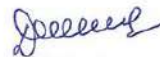
AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Monitoring : 23.04.2022
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°19'22.3"N
79°56'19.6"E
Ambient Temperature : 39.7°C
Name of Location : 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.)
Parameter required : PM₁₀, PM_{2.5}, SO₂, NO_x, CO

RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM ₁₀)	47.4 µg / m ³	100 µg / m ³	IS 5182 (Part 23)
Particulate Matter (PM _{2.5})	28.9 µg / m ³	60 µg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	6.2 µg / m ³	80 µg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _x)	9.4 µg / m ³	80 µg / m ³	IS 5182 (Part 6)
Carbon Monoxide (CO)	573 µg / m ³	2,000 µg / m ³	SCS/SOP/AAQ/13

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



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Sample ID No.: SCS/AAQ/20220421/54	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/54	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 : 23.04.2022
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 : 24°15'52.5"N
the Location : 79°53'45.8"E
Ambient Temperature : 40.6°C
Name of Location : Near house of Rajendra Kumar Gupta S/o Shri Jaganath Gupta, Village, Post and
Tehsil: Semariya, Dist.: Panna (M.P.)
Parameter required : PM₁₀, PM_{2.5}, SO₂, NO_x, CO
RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM ₁₀)	58.9 µg / m ³	100 µg / m ³	IS 5182 (Part 23)
Particulate Matter (PM _{2.5})	35.0 µg / m ³	60 µg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	8.5 µg / m ³	80 µg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _x)	16.0 µg / m ³	80 µg / m ³	IS 5182 (Part 6)
Carbon Monoxide (CO)	802 µg / m ³	2,000 µg / m ³	SCS/SOP/AAQ/13

Per pro SCS Enviro Services Pvt. Ltd.,

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Report No. SCS/JKCL/AAQ/20220421/55	Date of Report: 08.05.2022

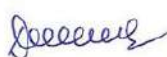
AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Monitoring : 23.04.2022
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°21'13.4"N
79°59'52.9"E
Ambient Temperature : 40.0°C
Name of Location : Near house of Prem Singh S/o Shri Khilavan Singh, Village & Post: Pagra, Tehsil:
Amanganj, Dist.: Panna (M.P.)
Parameter required : PM₁₀, PM_{2.5}, SO₂, NO_x, CO

RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM ₁₀)	55.7 µg / m ³	100 µg / m ³	IS 5182 (Part 23)
Particulate Matter (PM _{2.5})	33.5 µg / m ³	60 µg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	7.3 µg / m ³	80 µg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _x)	13.0 µg / m ³	80 µg / m ³	IS 5182 (Part 6)
Carbon Monoxide (CO)	802 µg / m ³	2,000 µg / m ³	SCS/SOP/AAQ/13

Per pro SCS Enviro Services Pvt. Ltd.,


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(Technical Manager)
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Sample ID No.: SCS/W/20220421/74	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/74(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 : 24.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 08.05.2022
GPS Coordinates of the Location : 24°19'25.8"N
79°56'19.3"E
Details of Sample : Koni-Simariya Mines (Boar well near house of Anil Kumar Gautam S/o
Shri Gorier Gautam, Village & Post: Boda, 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	28.1 °C	-	-	APHA (23rd Edition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.70	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	0.15	1	5	APHA (23rd Edition) 2130
Total Solids	1,394.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	1,391.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	2,090 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	124.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	141.96 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	1.36 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.06 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	51.52 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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RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.: U74140RJ2013PTC042216



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Sample ID No.: SCS/W/20220421/74	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/74(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 : 24.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 08.05.2022
GPS Coordinates of the Location : 24°19'25.8"N
79°56'19.3"E
Details of Sample : Koni-Simariya Mines (Boar well near house of Anil Kumar Gautam S/o
Shri Gorier Gautam, Village & Post: Boda, 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 ₃	0.78 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	508.63 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 ₃	332.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	524.00 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
Table 3: Parameters containing Toxic Substances				
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	187.70 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	42.30 Mg/L	-	-	APHA (23rd Edition) 3500 B

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(Technical Manager)
Authorised Signatory



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Sample ID No.: SCS/W/20220421/74	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/74(3/4)	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 : 24.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 08.05.2022
GPS Coordinates of the : 24°19'25.8"N
Location : 79°56'19.3"E
Details of Sample : Koni-Simariya Mines (Boar well near house of Anil Kumar Gautam S/o Shri
Gorier Gautam, Village & Post: Boda, 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		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

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Sample ID No.: SCS/W/20220421/74	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/74(4/4)	Date of Report: 08.05.2022

TEST REPORT

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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 : 08.05.2022
GPS Coordinates of the : 24°19'25.8"N
Location : 79°56'19.3"E
Details of Sample : Koni-Simariya Mines (Boar well near house of Anil Kumar Gautam S/o Shri
Gorier Gautam, Village & Post: Boda, 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	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

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(Technical Manager)
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MoEF&CC RECOGNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023
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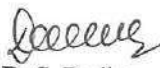
Sample ID No.: SCS/W/20220421/80	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/80(1/4)	Date of Report: 14.05.2022

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°20'22.7"N
79°58'18.7"E
Details of Sample : Water sample collected from Govt Handpump, near Govt. School, Village:
Village: Devra, 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, °C	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	6.81	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H ⁺
Turbidity, NTU	0.17	1	5	APHA (23rdEdition) 2130
Total Solids	994.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	6.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	988.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,395 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	147.20 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	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	34.99 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-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/80	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/80(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°20'22.7"N
79°58'18.7"E
Details of Sample : Water sample collected from Govt Handpump, near Govt. School, Village:
Village: Devra, 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 ₃	34.47 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	349.35 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	264.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	512.00 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
Table 3: Parameters containing Toxic Substances				
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	109.92 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.32 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/20220421/80	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/80(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°20'22.7"N
Location : 79°58'18.7"E
Details of Sample : Water sample collected from Govt Handpump, near Govt. School, Village:
Devra, Post: Puraina, 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 (23rd Edition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar
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
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Sample ID No.: SCS/W/20220421/80	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/80(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°20'22.7"N
Location : 79°58'18.7"E
Details of Sample : Water sample collected from Govt Handpump, near Govt. School, Village:
Village: Devra, Post: Puraina, 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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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/20220421/81	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/81(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°21'44.5"N
Location : 79°53'19.6"E
Details of Sample : Water sample collected from Govt Handpump, near House of Sunil Jat
S/o Shri Ramkesh Jat, Village: Village: Sunwanikalan, 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	32.5°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	7.78	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H ⁺
Turbidity, NTU	0.18	1	5	APHA (23rdEdition) 2130
Total Solids	818.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	815.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,257 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	116.18 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	95.97 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	0.67 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	60.26 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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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-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/81	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/81(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°21'44.5"N
Location : 79°53'19.6"E
Details of Sample : Water sample collected from Govt Handpump, near House of Sunil Jat
S/o Shri Ramkesh Jat, Village: Village: Sunwanikalan, 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 ₃	34.75 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	100.2 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 ₃	384.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO ₃	540.00 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
Table 3: Parameters containing Toxic Substances				
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	17.27 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	5.11 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

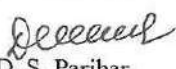
Sample ID No.: SCS/W/20220421/81	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/81(3/4)	Date of Report: 14.05.2022

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°21'44.5"N
Location : 79°53'19.6"E
Details of Sample : Water sample collected from Govt Handpump, near House of Sunil Jat
S/o Shri Ramkesh Jat, Village: Village: Sunwanikalan, 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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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

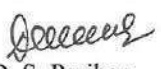
Sample ID No.: SCS/W/20220421/81	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/81(4/4)	Date of Report: 14.05.2022

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°21'44.5"N
Location : 79°53'19.6"E
Details of Sample : Water sample collected from Govt Handpump, near House of Sunil Jat
S/o Shri Ramkasha Jat, Village: Village: Sunwanikalan, 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
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/20220421/82	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/82(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°16'04.3"N
Location : 79°53'32.6"E
Details of Sample : Water sample collected from Govt. Borewell near house of Babu Lal Soni S/o Shri
Jumna Lal Soni, Village & Post: Simariya, 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	29.6 °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	7.14	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H *
Turbidity, NTU	0.24	1	5	APHA (23rdEdition) 2130
Total Solids	880.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	876.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,294 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	76.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	71.98 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	0.04 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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Sample ID No.: SCS/W/20220421/82	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/82(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°16'04.3"N
Location : 79°53'32.6"E
Details of Sample : Water sample collected from Govt. Borewell near house of Babu Lal Soni S/o Shri
Jumna Lal Soni, Village & Post: Simariya, 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 ₃	8.17 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	247.62 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 ₃	308.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO ₃	360.00 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
Table 3: Parameters containing Toxic Substances				
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	118.50 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	2.85 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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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/20220421/83	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/83(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°17'33.1"N
Location : 79°57'50.5"E
Details of Sample : Water sample collected from Govt Handpump near house of Arjun Singh S/o
Shri Sujan Singh, Village & Post: Tighara, 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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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

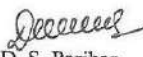
Sample ID No.: SCS/W/20220421/83	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/83(4/4)	Date of Report: 14.05.2022

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°17'33.1"N
Location : 79°57'50.5"E
Details of Sample : Water sample collected from Govt Handpump near house of Arjun Singh S/o
Shri Sujan Singh, Village & Post: Tighara, 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	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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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/20220421/84	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/84(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°16'36.4"N
Location : 79°49'16.7"E
Details of Sample : Water sample collected from Borewell near house of Balkishan Soni S/o Shri Kaman
Soni, Village: Kholkhariya, Post: Divre, 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	30.2°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	7.29	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.20	1	5	APHA (23rdEdition) 2130
Total Solids	768.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	764.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1108 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	96.00 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 (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	0.86 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	44.71 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-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

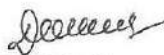
Sample ID No.: SCS/W/20220421/84	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/84(2/4)	Date of Report: 14.05.2022

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°16'36.4"N
Location : 79°49'16.7"E
Details of Sample : Water sample collected from Borewell near house of Balkishan Soni S/o Shri Kaman Soni, Village: Kholkhariya, Post: Divre, 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 ₃	18.45 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	145.13 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 ₃	392.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	424.00 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
Table 3: Parameters containing Toxic Substances				
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	42.62 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.84 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/20220421/84	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/84(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°16'36.4"N
Location : 79°49'16.7"E
Details of Sample : Water sample collected from Borewell near house of Balkishan Soni S/o Shri Kaman Soni, Village: Kholkhariya, Post: Divre, 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

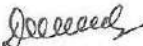
Sample ID No.: SCS/W/20220421/84	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/84(4/4)	Date of Report: 14.05.2022

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°16'36.4"N
Location : 79°49'16.7"E
Details of Sample : Water sample collected from Borewell near house of Balkishan Soni S/o Shri
Kaman Soni, Village: Kholkhariya, Post: Divre, 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	6 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/20220421/85	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/85(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°19'18.6"N
79°52'19.8"E
Details of Sample : Water sample collected from Govt. Handpump near Govt School, Village:
Garhikhariya, 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	28.6°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	7.13	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H ⁺
Turbidity, NTU	0.22	1	5	APHA (23rdEdition) 2130
Total Solids	746.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	744.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1086 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	83.20 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 (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	0.67 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	61.24 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

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

Sample ID No.: SCS/W/20220421/85	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/85(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°19'18.6"N
79°52'19.8"E
Details of Sample : Water sample collected from Govt. Handpump near Govt School, Village:
Garhikhariya, 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 ₃	28.99 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO ₃ B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	57.46 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 ₃	468.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO ₃	460.00 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
Table 3: Parameters containing Toxic Substances				
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	21.07 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	0.79 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

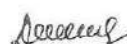
Sample ID No.: SCS/W/20220421/85	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/85(3/4)	Date of Report: 14.05.2022

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°19'18.6"N
Location : 79°52'19.8"E
Details of Sample : Water sample collected from Govt. Handpump near Govt School, Village:
Garhikhariya, 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

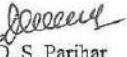
Sample ID No.: SCS/W/20220421/85	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/85(4/4)	Date of Report: 14.05.2022

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°19'18.6"N
Location : 79°52'19.8"E
Details of Sample : Water sample collected from Govt. Handpump near Govt School, Village:
Garhikhariya, 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	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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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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Sample ID No.: SCS/W/20220421/86	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/86(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°18'25.9"N
Location : 79°49'38.5"E
Details of Sample : Water sample collected from Govt. Handpump near House of Trilok Singh S/o Shri
Girka Singh, Village: Khamargaur, Post: Mohrai, Tehsil: Hata, 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	30.5 °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	6.78	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.19	1	5	APHA (23rdEdition) 2130
Total Solids	941.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	938.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,385 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	140.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	89.97 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	0.97 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	73.87 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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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
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ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

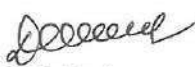
Sample ID No.: SCS/W/20220421/86	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/86(2/4)	Date of Report: 14.05.2022

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°18'25.9"N
Location : 79°49'38.5"E
Details of Sample : Water sample collected from Govt. Handpump near House of Trilok Singh S/o Shri Girka Singh, Village: Khamargaur, Post: Mohrai, Tehsil: Hata, 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 ₃	47.31 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	179.98 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 ₃	384.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO ₃	656.00 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
Table 3: Parameters containing Toxic Substances				
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	14.46 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	6.56 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/20220421/86	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/86(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°18'25.9"N
Location : 79°49'38.5"E
Details of Sample : Water sample collected from Govt. Handpump near House of Trilok Singh S/o Shri
Girka Singh, Village: Khamargaur, Post: Mohrai, Tehsil: Hata, 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
Chlorphyrifos	< 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

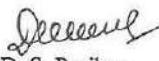
Sample ID No.: SCS/W/20220421/86	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/86(4/4)	Date of Report: 14.05.2022

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°18'25.9"N
Location : 79°49'38.5"E
Details of Sample : Water sample collected from Govt. Handpump near House of Trilok Singh S/o Shri
Girka Singh, Village: Khamargaur, Post: Mohrai, Tehsil: Hata, 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	14 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. 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/20220421/87	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/87(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°18'32.2"N
Location : 79°51'21.4"E
Details of Sample : Water sample collected from Govt. Handpump near House of Tikaram Barman S/o
Shri Ram Krishna Barman, Village: Pagra, Post: Boda, Tehsil: Paive, 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	28.1 °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	6.75	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H *
Turbidity, NTU	0.17	1	5	APHA (23rdEdition) 2130
Total Solids	1,119.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,115.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,612 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	148.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	69.98 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	1.08 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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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/20220421/87	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/87(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°18'32.2"N
Location : 79°51'21.4"E
Details of Sample : Water sample collected from Govt. Handpump near House of Tikaram Barman S/o
Shri Ram Krishna Barman, Village: Pagra, Post: Boda, Tehsil: Paive, 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 ₃	12.23 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	380.38 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 ₃	356.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	560.00 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
Table 3: Parameters containing Toxic Substances				
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	100.26 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	8.01 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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

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

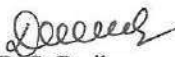
Sample ID No.: SCS/W/20220421/87	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/87(3/4)	Date of Report: 14.05.2022

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°18'32.2"N
Location : 79°51'21.4"E
Details of Sample : Water sample collected from Govt. Handpump near House of Tikaram Barman S/o
Shri Ram Krishna Barman, Village: Pagra, Post: Boda, Tehsil: Paive, 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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(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

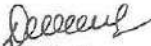
Sample ID No.: SCS/W/20220421/87	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/87(4/4)	Date of Report: 14.05.2022

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°18'32.2"N
Location : 79°51'21.4"E
Details of Sample : Water sample collected from Govt. Handpump near House of Tikaram Barman S/o
Shri Ram Krishna Barman, Village: Pagra, Post: Boda, Tehsil: Paive, 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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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/20220421/76	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/76(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°21'02.8"N
79°54'47.0"E
Details of Sample : Surface Water, Sonar River
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature, °C	31.5	-	-	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	6.85	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H ⁺
Turbidity, NTU	0.19	1	5	APHA (23rd Edition) 2130
Total Solids	608 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	9 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	597 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	855 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
BOD	5.7 Mg/L	-	-	IS 3025 (Part 44)
COD	20.00 Mg/L	-	-	APHA (23rd Edition) 5220B
Calcium as Ca	88.00 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 (23rd Edition) 4500 Cl ⁻ B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Dissolved Oxygen	3.2 Mg/L	-	-	IS 3025 (Part 38)
Fluoride as F	0.84 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

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/20220421/76	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/76(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°21'02.8"N
79°54'47.0"E
Details of Sample : Surface Water, Sonar River
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Magnesium as Mg	35.96 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
Nitrate as NO ₃	3.97 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO ₃ B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	245.39 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 ₃	164.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	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
Table 3: Parameters containing Toxic Substances				
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	0.72 Mg/L	-	-	APHA (23rd Edition) 4500 PC
Sodium as Na	25.61 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	4.89 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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

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


Sample ID No.: SCS/W/20220421/76	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/76(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°21'02.8"N
Location : 79°54'47.0"E
Details of Sample : Surface Water, Sonar River
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

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CIN NO.:U74140RJ2013PTC042216

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

Sample ID No.: SCS/W/20220421/76	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/76(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°21'02.8"N
Location : 79°54'47.0"E
Details of Sample : Surface Water, Sonar River
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	35 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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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/20220421/77	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/77(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°17'56.4"N
79°57'52.3"E
Details of Sample : Surface Water, Ken River
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature, °C	29.9	-	-	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	7.39	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	1.13	1	5	APHA (23rd Edition) 2130
Total Solids	309 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	6 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	303 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	452 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
BOD	< 2.00 Mg/L	-	-	IS 3025 (Part 44)
COD	< 5.00 Mg/L	-	-	APHA (23rd Edition) 5220B
Calcium as Ca	28.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	29.99 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
Dissolved Oxygen	4.4 Mg/L	-	-	IS 3025 (Part 38)
Fluoride as F	0.60 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.02 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B

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

TC-6960

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ISO-45001:2018 CERTIFIED LABORATORY

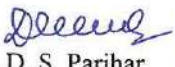
Sample ID No.: SCS/W/20220421/77	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/77(2/4)	Date of Report: 08.05.2022

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°17'56.4"N
79°57'52.3"E
Details of Sample : Surface Water, Ken River
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Magnesium as Mg	17.50 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
Nitrate as NO ₃	3.21 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	12.38 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 ₃	180.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	144.00 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
Table 3: Parameters containing Toxic Substances				
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	24.90 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	5.09 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,


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(Technical Manager)
Authorised Signatory



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

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

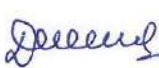
Sample ID No.: SCS/W/20220421/77	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/77(3/4)	Date of Report: 08.05.2022

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°17'56.4"N
Location : 79°57'52.3"E
Details of Sample : Surface Water, Ken River
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

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

Sample ID No.: SCS/W/20220421/77	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/77(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°17'56.4"N
Location : 79°57'52.3"E
Details of Sample : Surface Water, Ken River
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	14 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/20220421/78	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/78(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°20'19.0"N
79°58'21.7"E
Details of Sample : Surface Water, Pond Near Deora Village
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature, °C	31.8	-	-	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	6.84	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	4.81	1	5	APHA (23rd Edition) 2130
Total Solids	292 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	14 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	278 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	398 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
BOD	3.4 Mg/L	-	-	IS 3025 (Part 44)
COD	12.00 Mg/L	-	-	APHA (23rd Edition) 5220B
Calcium as Ca	44.80 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 (23rd Edition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Dissolved Oxygen	3.7 Mg/L	-	-	IS 3025 (Part 38)
Fluoride as F	0.68 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.02 Mg/L	0.3 Mg/L	No Relaxation	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/20220421/78	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/78(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°20'19.0"N
79°58'21.7"E
Details of Sample : Surface Water, Pond Near Deora Village
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Magnesium as Mg	15.55 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
Nitrate as NO ₃	2.98 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	60.56 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 ₃	116.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	176.00 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
Table 3: Parameters containing Toxic Substances				
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rd Edition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg / L	No relaxation	APHA (23rd Edition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg / L	0.05 Mg / L	APHA (23rd Edition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg / L	No relaxation	APHA (23rd Edition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rd Edition) 4500 PC
Sodium as Na	8.54 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	5.71 Mg/L	-	-	APHA (23rd Edition) 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/20220421/78	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/78(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°20'19.0"N
Location : 79°58'21.7"E
Details of Sample : Surface Water, Pond Near Deora Village
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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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,
RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY
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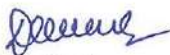
Sample ID No.: SCS/W/20220421/78	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/78(4/4)	Date of Report: 08.05.2022

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°20'19.0"N
Location : 79°58'21.7"E
Details of Sample : Surface Water, Pond Near Deora Village
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	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
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RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.: U74140RJ2013PTC042216

TC-6960

MoEF&CC RECOGNIZED LABORATORY
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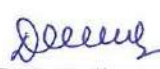
Sample ID No.: SCS/W/20220421/79	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/79(1/4)	Date of Report: 08.05.2022

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°19'00.6"N
79°58'33.9"E
Details of Sample : Surface Water, Pond Near Puraina Village
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature, °C	30.3	-	-	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	6.65	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	1.26	1	5	APHA (23rd Edition) 2130
Total Solids	202 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	7 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	195 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	276 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
BOD	2.8 Mg/L	-	-	IS 3025 (Part 44)
COD	8.50 Mg/L	-	-	APHA (23rd Edition) 5220B
Calcium as Ca	22.40 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- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Dissolved Oxygen	4.0 Mg/L	-	-	IS 3025 (Part 38)
Fluoride as F	0.49 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.02 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B

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

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Sample ID No.: SCS/W/20220421/79	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/79(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°19'00.6"N
79°58'33.9"E
Details of Sample : Surface Water, Pond Near Puraina Village
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Magnesium as Mg	9.72 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
Nitrate as NO ₃	2.44 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-	-	APHA (23rd Edition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C ₆ H ₅ 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 ₄	6.68 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 ₃	112.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	96.00 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
Table 3: Parameters containing Toxic Substances				
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	11.43 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	7.03 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/20220421/79	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/79(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°19'00.6"N
Location : 79°58'33.9"E
Details of Sample : Surface Water, Pond Near Puraina Village
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



- The results refer only to the tested sample and applicable parameters.
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- This report cannot be reproduced without the written permission of the director.
- The sample will be destroyed after 15 days from the date of issue of the test report.
- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to Jaipur jurisdiction.

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

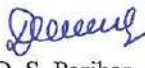
Sample ID No.: SCS/W/20220421/79	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/79(4/4)	Date of Report: 08.05.2022

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°19'00.6"N
Location : 79°58'33.9"E
Details of Sample : Surface Water, Pond Near Puraina Village
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	28 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
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