



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/AAQ/20220421/45	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/45	Date of Report: 08.05.2022

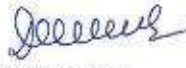
AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Monitoring : 22.04.2022
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°21'21.3"N
79°57'03.9"E
Ambient Temperature : 39.4°C
Name of Location : Kakra -Panna Mines, Village: Kakra
Near house of Vishnu Kant S/o Shri Badri Prasad, Post: Kamtana, 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)	50.6 µg / m ³	100 µg / m ³	IS 5182 (Part 23)
Particulate Matter (PM _{2.5})	29.3 µg / m ³	60 µg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	6.8 µg / m ³	80 µg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _x)	10.3 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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- This report cannot be reproduced without the written permission of the director.
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ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20220421/46	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/46	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 : 22.04.2022
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°19'16.4"N
the Location : 79°57'36.3"E
Ambient Temperature : 39.8°C
Name of Location : Near house of Ratan Singh S/o Shri Sunder Singh, Village: Harduaken, Post: Purania,
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)	45.8 µg / m ³	100 µg / m ³	IS 5182 (Part 23)
Particulate Matter (PM _{2.5})	27.3 µg / m ³	60 µg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	6.0 µg / m ³	80 µg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _x)	7.8 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.,

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(Technical Manager)
Authorised Signatory



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Sample ID No.: SCS/AAQ/20220421/47	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/47	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 : 22.04.2022
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°19'41.4"N
79°56'52.3"E
Ambient Temperature : 39.6°C
Name of Location : Near house of Pratap Lodi S/o Shri Babu Lal Lodi, Village: Purwa, Post: Purania,
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)	52.6 µg / m ³	100 µg / m ³	IS 5182 (Part 23)
Particulate Matter (PM _{2.5})	31.1 µg / m ³	60 µg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	6.9 µg / m ³	80 µg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _x)	9.7 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.,

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(Technical Manager)
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SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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Sample ID No.: SCS/AAQ/20220421/48	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/48	Date of Report: 08.05.2022

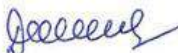
AMBIENT AIR QUALITY MONITORING REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Monitoring : 22.04.2022
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°18'59.9"N
79°58'23.2"E
Ambient Temperature : 40.2°C
Name of Location : Near house of Ramesh Chand Yadav S/o Shri Kellie Yadav, Village: Sotipura, 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)	56.0 µg / m ³	100 µg / m ³	IS 5182 (Part 23)
Particulate Matter (PM _{2.5})	34.2 µg / m ³	60 µg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	7.2 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.,


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Sample ID No.: SCS/W/20220421/73	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/73(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 : 24°18'19.8"N
Location : 79°53'38.5"E
Details of Sample : Kakra Mines (Govt. Hand Pump near house of Laxman Singh S/o Shri Beaver Singh, Village & Post: Maharajganj, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	29.5 °C	-	-	APHA (23rd Edition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.82	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H *
Turbidity, NTU	0.23	1	5	APHA (23rd Edition) 2130
Total Solids	1,168.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	1,165.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	1,750 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	134.40 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	41.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	1.10 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	52.49 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

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Sample ID No.: SCS/W/20220421/73	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/73(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°18'19.8"N
79°53'38.5"E
Details of Sample : Kakra Mines (Govt. Hand Pump near house of Laxman Singh S/o Shri
Beaver Singh, Village & Post: Maharajganj, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	7.19 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	529.70 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	552.00 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	125.40 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	8.53 Mg/L	-	-	APHA (23rd Edition) 3500 B

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Authorised Signatory



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Sample ID No.: SCS/W/20220421/73	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/73(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°18'19.8"N
Location : 79°53'38.5"E
Details of Sample : Kakra Mines (Govt. Hand Pump near house of Laxman Singh S/o Shri Beaver Singh, Village & Post: Maharajganj, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
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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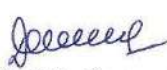
Sample ID No.: SCS/W/20220421/73	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/73(4/4)	Date of Report: 08.05.2022

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°18'19.8"N
Location : 79°53'38.5"E
Details of Sample : Kakra Mines (Govt. Hand Pump near house of Laxman Singh S/o Shri Beaver
Singh, Village & Post: Maharajganj, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	8 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/100	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/100(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 24.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°16'00.6"N
Location : 79°56'10.7"E
Details of Sample : Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri Nandi Chaudhary, Village & Post: Umri, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	31.2°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.64	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H ⁺
Turbidity, NTU	0.17	1	5	APHA (23rdEdition) 2130
Total Solids	548.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	548.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	784 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	72.00 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	45.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl ⁻ B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.96 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	27.22 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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TC-6960

MoEF&CC RECOGNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023
ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

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

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 24.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°16'00.6"N
Location : 79°56'10.7"E
Details of Sample : Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri Nandi Chaudhary, Village & Post: Umri, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	24.67 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	53.11 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	284.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	292.00 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	37.12 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	2.66 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

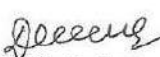
Sample ID No.: SCS/W/20220421/100	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/100(3/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 24.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°16'00.6"N
Location : 79°56'10.7"E
Details of Sample : Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri Nandi Chaudhary, Village & Post: Umri, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				
Alachlor	< 0.10 µg / L		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / L	USEPA Method No. 525.2 & 8141A
Aldrin / Dieldrin	< 0.03 µg / L		0.03 µg / L	USEPA Method No. 508
α-HCH	< 0.01 µg / L		0.01 µg / L	USEPA Method No. 508
β-HCH	< 0.04 µg / L		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / L	USEPA Method No. 508
2,4 Dichlorophenoxyacetic acid	< 1.0 µg / L		30 µg / L	USEPA Method No. 515.1
DDT (o,p and p, p isomers of DDT, DDE and DDD)	< 0.10 µg / L		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
(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

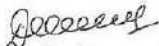
Sample ID No.: SCS/W/20220421/100	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/100(4/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 24.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°16'00.6"N
Location : 79°56'10.7"E
Details of Sample : Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri
Nandi Chaudhary, Village & Post: Umri, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	11 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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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

TC-6960

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

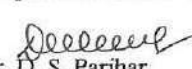
Sample ID No.: SCS/W/20220421/88	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/88(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of : 24°20'30.7"N
the Location : 79°56'14.1"E
Details of Sample : Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o
Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	29.6°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	7.87	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	1.54	1	5	APHA (23rdEdition) 2130
Total Solids	1,698.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	8.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,690.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,540 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	164.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	227.93 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.43 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.10 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	43.74 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,


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



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TC-6960

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

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

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the Location : 24°20'30.7"N
79°56'14.1"E
Details of Sample : Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	31.09 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	362.20 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	572.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	592.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rd Edition) 3111B
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	278.93 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	6.57 Mg/L	-	-	APHA (23rd Edition) 3500 B

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Authorised Signatory



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SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

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

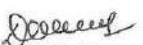
Sample ID No.: SCS/W/20220421/88	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/88(3/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of : 24°20'30.7"N
the Location : 79°56'14.1"E
Details of Sample : Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o
Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


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



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SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

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

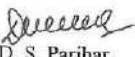
Sample ID No.: SCS/W/20220421/88	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/88(4/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the Location : 24°20'30.7"N
79°56'14.1"E
Details of Sample : Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o
Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


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



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

Sample ID No.: SCS/W/20220421/89	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/89(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°22'54.2"N
Location : 79°57'30.0"E
Details of Sample : Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash
Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	30.2°C	-	-	APHA (23rd Edition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	7.95	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	0.17	1	5	APHA (23rd Edition) 2130
Total Solids	1,934.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	1,930.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	2,860 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rd Edition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rd Edition) 4500B-B
Calcium as Ca	171.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	371.92 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	1.39 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.12 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	40.82 Mg/L	30 Mg/L	100 Mg/L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rd Edition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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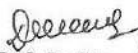
Sample ID No.: SCS/W/20220421/89	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/89(2/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°22'54.2"N
Location : 79°57'30.0"E
Details of Sample : Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash
Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	29.66 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	397.83 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	548.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	596.00 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	340.92 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	28.68 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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JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

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

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

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the Location : 24°22'54.2"N
79°57'30.0"E
Details of Sample : Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				
Alachlor	< 0.10 µg / L		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / L	USEPA Method No. 525.2 & 8141A
Aldrin / Dieldrin	< 0.03 µg / L		0.03 µg / L	USEPA Method No. 508
α-HCH	< 0.01 µg / L		0.01 µg / L	USEPA Method No. 508
β-HCH	< 0.04 µg / L		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / 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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JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO.:U74140RJ2013PTC042216

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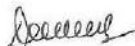
Sample ID No.: SCS/W/20220421/89	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/89(4/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°22'54.2"N
Location : 79°57'30.0"E
Details of Sample : Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash
Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	20 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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

TC-6960

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Sample ID No.: SCS/W/20220421/90	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/90(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'31.1"N
Location : 79°58'24.4"E
Details of Sample : Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri
Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	31.1 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.85	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.13	1	5	APHA (23rdEdition) 2130
Total Solids	790.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	788.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,173 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	92.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	117.96 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.60 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	53.46 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar
(Technical Manager)
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Sample ID No.: SCS/W/20220421/90	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/90(2/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'31.1"N
Location : 79°58'24.4"E
Details of Sample : Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri
Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	44.35 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	63.81 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	452.00 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	56.29 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	3.70 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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CIN NO.:U74140RJ2013PTC042216

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ISO-45001:2018 CERTIFIED LABORATORY

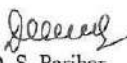
Sample ID No.: SCS/W/20220421/90	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/90(3/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'31.1"N
Location : 79°58'24.4"E
Details of Sample : Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri
Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


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



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SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

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

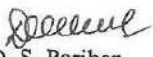
Sample ID No.: SCS/W/20220421/90	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/90(4/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'31.1"N
Location : 79°58'24.4"E
Details of Sample : Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri
Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	7 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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



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

TC-6960

MOEF&CC RECOGNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023
ISO 6001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

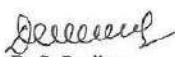
Sample ID No.: SCS/W/20220421/91	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/91(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°21'18.5"N
Location : 80°00'06.3"E
Details of Sample : Water sample collected from Govt Handpump near Govt. School, Village & Post:
Pagra, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	29.3 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	8.11	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H *
Turbidity, NTU	0.78	1	5	APHA (23rdEdition) 2130
Total Solids	1,475.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,472.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,120 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	142.40 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	97.97 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.24 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.06 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	45.68 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,


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



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TC-6960

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

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°21'18.5"N
Location : 80°00'06.3"E
Details of Sample : Water sample collected from Govt Handpump near Govt. School, Village & Post:
Pagra, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	4.74 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	348.80 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	598.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	544.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rd Edition) 3111B
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	220.37 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	12.75 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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

ISO-9001:2015 CERTIFIED LABORATORY
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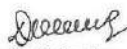
Sample ID No.: SCS/W/20220421/91	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/91(3/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°21'18.5"N
Location : 80°00'06.3"E
Details of Sample : Water sample collected from Govt Handpump near Govt. School, Village & Post:
Pagra, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


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(Technical Manager)
Authorised Signatory



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

ISO-9001:2015 CERTIFIED LABORATORY
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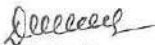
Sample ID No.: SCS/W/20220421/91	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/91(4/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the Location : 24°21'18.5"N
80°00'06.3"E
Details of Sample : Water sample collected from Govt Handpump near Govt. School, Village & Post:
Pagra, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


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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



TC-6960
MoEF&CC RECOGNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023
ISO-9001:2015 CERTIFIED LABORATORY
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Sample ID No.: SCS/W/20220421/92	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/92(1/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	32.0°C	-	-	APHA (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	6.89	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	0.19	1	5	APHA (23rd Edition) 2130
Total Solids	223.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	223.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	355 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rd Edition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rd Edition) 4500B-B
Calcium as Ca	35.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	27.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	0.31 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
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

Per pro SCS Enviro Services Pvt. Ltd.,

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



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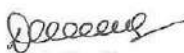
Sample ID No.: SCS/W/20220421/92	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/92(2/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	10.98 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	23.98 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO ₃	100.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO ₃	128.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
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	10.81 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	3.52 Mg/L	-	-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,


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

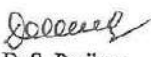
Sample ID No.: SCS/W/20220421/92	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/92(3/4)	Date of Report: 14.05.2022

TEST REPORT

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

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

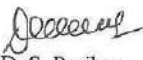
Sample ID No.: SCS/W/20220421/92	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/92(4/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	16 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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



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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/20220421/93	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/93(1/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	30.8°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.85	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.14	1	5	APHA (23rdEdition) 2130
Total Solids	491.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	491.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	860 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	59.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	25.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.65 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	37.91 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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

TC-6960

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

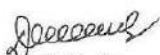
Sample ID No.: SCS/W/20220421/93	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/93(2/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	21.41 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	10.33 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	320.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	304.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rd Edition) 3111B
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	13.24 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.86 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,


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



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SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

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

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

TEST REPORT

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

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(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

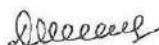
Sample ID No.: SCS/W/20220421/93	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/93(4/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	23 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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



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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

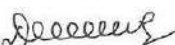
Sample ID No.: SCS/W/20220421/94	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/94(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 26.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°23'13.2"N
Location : 80°00'48.0"E
Details of Sample : Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri
Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	31.0 °C	-	-	APHA (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	7.98	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	0.21	1	5	APHA (23rd Edition) 2130
Total Solids	1,969.00 Mg/L	-	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	1,967.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	3,050 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rd Edition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rd Edition) 4500B-B
Calcium as Ca	169.60 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	495.84 Mg/L	250 Mg/L	1,000 Mg/L	APHA (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	1.46 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.08 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	40.82 Mg/L	30 Mg/L	100 Mg/L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rd Edition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,


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



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**TC-6960**MoEF&CC RECOGNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023
ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

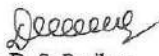
Sample ID No.: SCS/W/20220421/94	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/94(2/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 26.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the Location : 24°23'13.2"N
80°00'48.0"E
Details of Sample : Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri
Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	42.09 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	397.15 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	504.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	592.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rd Edition) 3111B
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	390.20 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	23.33 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,


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



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SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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/20220421/94	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/94(3/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 26.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°23'13.2"N
Location : 80°00'48.0"E
Details of Sample : Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

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

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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

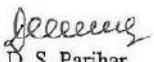
Sample ID No.: SCS/W/20220421/94	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/94(4/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 26.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°23'13.2"N
Location : 80°00'48.0"E
Details of Sample : Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri
Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	13 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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TC-6960

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

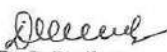
Sample ID No.: SCS/W/20220421/95	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/95(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the Location : 24°19'54.2"N
79°56'48.0"E
Details of Sample : Water sample collected from Govt Handpump near Govt school, Village:
Purwa, Post: Puraina, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	28.7 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.55	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.67	1	5	APHA (23rdEdition) 2130
Total Solids	887.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	883.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,286 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	116.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	19.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.23 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	56.38 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,


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



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



TC-6960

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ISO-45001:2018 CERTIFIED LABORATORY

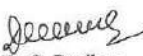
Sample ID No.: SCS/W/20220421/95	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/95(2/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the Location : 24°19'54.2"N
79°56'48.0"E
Details of Sample : Water sample collected from Govt Handpump near Govt school, Village:
Purwa, Post: Puraina, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO 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	335.31 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	308.00 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	40.41 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.85 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,


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



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

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

Sample ID No.: SCS/W/20220421/95	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/95(3/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°19'54.2"N
Location : 79°56'48.0"E
Details of Sample : Water sample collected from Govt Handpump near Govt school, Village:
Purwa, Post: Puraina, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,

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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

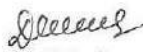
Sample ID No.: SCS/W/20220421/95	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/95(4/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°19'54.2"N
Location : 79°56'48.0"E
Details of Sample : Water sample collected from Govt Handpump near Govt school, Village:
Purwa, Post: Puraina, Tehsil: Amanganj, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	9 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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



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TC-6960

MoEF&CC RECOGNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023
ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

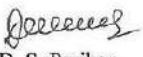
Sample ID No.: SCS/W/20220421/96	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/96(1/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	29.4°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	8.06	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.18	1	5	APHA (23rdEdition) 2130
Total Solids	1,628.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,628.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,380 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	145.60 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	201.94 Mg/L	250 Mg/L	1,000 Mg/L	APHA (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	1.05 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.07 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	48.60 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,


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(Technical Manager)
Authorised Signatory



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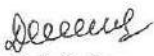
Sample ID No.: SCS/W/20220421/96	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/96(2/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	7.29 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	372.45 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	580.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	564.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rd Edition) 3111B
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	261.30 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	10.16 Mg/L	-	-	APHA (23rd Edition) 3500 B

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SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

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

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

TEST REPORT

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

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				
Alachlor	< 0.10 µg / L		20µg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2µg / L	USEPA Method No. 525.2 & 8141A
Aldrin / Dieldrin	< 0.03 µg / L		0.03 µg / L	USEPA Method No. 508
α-HCH	< 0.01 µg / L		0.01 µg / L	USEPA Method No. 508
β-HCH	< 0.04 µg / L		0.04µg / L	USEPA Method No. 508
Butachlor	< 10.0 µg / L		125µg / L	USEPA Method No. 525.2 & 8141A
Chlorpyrifos	< 1.0 µg / L		30µg / L	USEPA Method No. 525.2 & 8141A
δ-HCH	< 0.04 µg / L		0.04µg / L	USEPA Method No. 508
2,4 Dichlorophenoxyacetic acid	< 1.0 µg / L		30 µg / L	USEPA Method No. 515.1
DDT (o,p and p, p isomers of DDT, DDE and DDD)	< 0.10 µg / L		1µg / L	USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3µg / L	USEPA Method No. 1657A
γ-HCH	< 0.10 µg / L		2µg / L	USEPA Method No. 508
Isoproturon	< 1.0 µg / L		9µg / L	USEPA Method No. 532
Melathion	< 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	APIHA (23rdEdition) 6440

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CIN NO.:U74140RJ2013PTC042216

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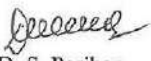
Sample ID No.: SCS/W/20220421/96	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/96(4/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	5 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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Sample ID No.: SCS/W/20220421/97	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/97(1/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	29.9°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.61	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H ⁺
Turbidity, NTU	0.13	1	5	APHA (23rdEdition) 2130
Total Solids	580.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	576.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	856 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	75.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	47.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.73 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.06 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	42.77 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

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

TEST REPORT

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

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	12.47 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	58.06 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	316.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	334.00 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	21.01 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.55 Mg/L	-	-	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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(Technical Manager)
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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/20220421/97	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/97(3/4)	Date of Report: 14.05.2022

TEST REPORT

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

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

Per pro SCS Enviro Services Pvt. Ltd.,

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



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SCS SCS ENVIRO SERVICES PRIVATE LIMITED

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

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

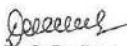
Sample ID No.: SCS/W/20220421/97	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/97(4/4)	Date of Report: 14.05.2022

TEST REPORT

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

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	7 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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



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

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'38.4"N
Location : 79°54'12.3"E
Details of Sample : Water sample collected from Borewell near house of Randhir Singh S/o Shri Nathu Singh, Village & Post: Bharatpur, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	32.3 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	8.23	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.15	1	5	APHA (23rdEdition) 2130
Total Solids	1,740.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,737.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,490 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	132.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	227.93 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl ⁻ B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.33 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.10 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	52.49 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar
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Authorised Signatory



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ISO-6001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/98	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/98(2/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'38.4"N
Location : 79°54'12.3"E
Details of Sample : Water sample collected from Borewell near house of Randhir Singh S/o Shri Nathu Singh, Village & Post: Bharatpur, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	6.37 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	391.78 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	584.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	548.00 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	287.85 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	52.7 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/20220421/98	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/98(3/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'38.4"N
Location : 79°54'12.3"E
Details of Sample : Water sample collected from Borewell near house of Randhir Singh S/o Shri
Nathu Singh, Village & Post: Bharatpur, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,

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



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

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

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

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'38.4"N
Location : 79°54'12.3"E
Details of Sample : Water sample collected from Borewell near house of Randhir Singh S/o Shri
Nathu Singh, Village & Post: Bharatpur, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	10 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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Authorised Signatory



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ISO-45001:2018 CERTIFIED LABORATORY

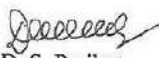
Sample ID No.: SCS/W/20220421/99	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/99(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 26.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the Location : 24°18'01.5"N
80°00'0.2"E
Details of Sample : Water sample collected from Govt Handpump near house of Rajaram Modi
S/o Shri Hardin Modi, Village: Mahod, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
Temperature	31.7 °C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.61	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.24	1	5	APHA (23rdEdition) 2130
Total Solids	587.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	587.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	843 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	99.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	25.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl-B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.52 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	18.47 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,


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



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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,
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CIN NO.: U74140RJ2013PTC042216



TC-6960

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

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 26.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'01.5"N
Location : 80°00'00.2"E
Details of Sample : Water sample collected from Govt Handpump near house of Rajaram Modi S/o
Shri Hardin Modi, Village: Mahod, Tehsil: Simariya, Dist: Panna
Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	9.6 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	77.77 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	324.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	324.00 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	29.80 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.19 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

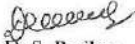
Sample ID No.: SCS/W/20220421/99	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/99(3/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 26.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'01.5"N
Location : 80°00'00.2"E
Details of Sample : Water sample collected from Govt Handpump near house of Rajaram Modi S/o
Shri Hardin Modi, Village: Mahod, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


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

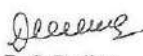
Sample ID No.: SCS/W/20220421/99	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/99(4/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,
Address of Client : Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)
Date of Sample Receipt : 26.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'01.5"N
Location : 80°00'00.2"E
Details of Sample : Water sample collected from Govt Handpump near house of Rajaram Modi S/o
Shri Hardin Modi, Village: Mahod, Tehsil: Simariya, Dist.: Panna
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of Water				
Total Coliform	18 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,


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/20220421/76	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
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ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/76	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

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
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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

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/20220421/77	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

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

TC-6960

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

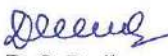
Sample ID No.: SCS/W/20220421/77	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/77(2/4)	Date of Report: 08.05.2022

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.,


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/20220421/77	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

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

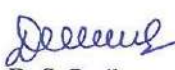
Sample ID No.: SCS/W/20220421/77	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/77(4/4)	Date of Report: 08.05.2022

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
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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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(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/20220421/78	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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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

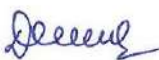
Sample ID No.: SCS/W/20220421/78	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/78(3/4)	Date of Report: 08.05.2022

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

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

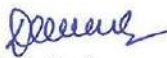
Sample ID No.: SCS/W/20220421/78	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/78(4/4)	Date of Report: 08.05.2022

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
(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/20220421/79	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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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/20220421/79	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

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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/20220421/79	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

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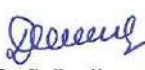
Sample ID No.: SCS/W/20220421/79	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/79(4/4)	Date of Report: 08.05.2022

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

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