

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

MoEF&CC RECOGNIZED LABORATORY vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023 ISO-901:2015 CERTIFIED LABORATORY ISO-14001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

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

AMBIENT AIR QUALITY MONITORING REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P)

Date of Monitoring Date of start of testing

23.04.2022 : 27.04.2022

Date of end of testing Duration of sampling

08.05.2022 24 Hrs.

Type of Industry GPS Coordinates of

Cement Industry 24°16'34.5"N

the Location

79°49'25.1"E : 39.1°C

Ambient Temperature Name of Location

Near house of Sohan Lal Patel S/o Shri Chura Mal Patel, Village: Kolkariya, Post:

Devra, Tehsil: Simariya, Dist.: Panna (M.P.)

Parameter required

RESULTS

: PM₁₀, PM_{2.5}, SO₂, NO_x, CO

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM ₁₀)	55.6 μg / m ³	100 μg / m ³	IS 5182 (Part 23)
Particulate Matter (PM2.5)	$33.0 \mu g / m^3$	60 μg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	$7.6 \mu g / m^3$	80 μg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _X)	$12.0 \mu g / m^3$	80 µg / m ³	IS 5182 (Part 6)
Carbon Monoxide (CO)	$687 \mu g / m^3$	2,000 µg / m ³	SCS/SOP/AAQ/13

Per pro SCS Enviro Services Pvt. Ltd.,

Delleel 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 ISC-3001:2015 CERTIFIED LABORATORY ISC-14001:2015 CERTIFIED LABORATORY ISC-45001:2018 CERTIFIED LABORATORY

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Sample ID No.: SCS/AAQ/20220421/53	Date of Registration: 21.04.2022
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P	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 Date of start of testing Date of end of testing

23.04.2022 27.04.2022 08.05.2022

Duration of sampling Type of Industry

24 Hrs. Cement Industry

GPS Coordinates of the Location

24°19'22.3"N 79°56′19.6"E

Ambient Temperature

39.7°C Koni - Semariya Mines, Village: Boda

Name of Location

Near house of Tirj Prasad Tiwari S/o Shri Neni Lal Tiwari, Village & Post: Boda,

Tehsil: Semariya, Dist.: Panna (M.P.)

Parameter required

: PM₁₀, PM_{2.5}, SO₂, NO_x, CO

RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM ₁₀)	47.4 μg / m ³	100 µg / m ³	IS 5182 (Part 23)
Particulate Matter (PM2,5)	28.9 μg / m ³	60 μg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	$6.2 \mu g / m^3$	80 μg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _X)	$9.4 \mu g / m^3$	$80 \mu g / m^3$	IS 5182 (Part 6)
Carbon Monoxide (CO)	573 μg / m ³	2,000 µg / m ³	SCS/SOP/AAO/13

Per pro SCS Enviro Services Pvt. Ltd.,

Voceee Dr. D. S. Parihar (Technical Manager)

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Sample ID No.: SCS/AAQ/20220421/54	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/54	
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Date of Report: 08.05.2022

AMBIENT AIR QUALITY MONITORING REPORT

Name of Client

: M/S. JAYKAYCEM (CENTRAL) LTD..

Address of Client

Date of Monitoring

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P) 23.04.2022

Date of start of testing Date of end of testing Duration of sampling

27.04.2022 : 08.05.2022 : 24 Hrs.

Type of Industry GPS Coordinates of : Cement Industry 24°15'52.5"N

the Location Ambient Temperature

79°53'45.8"E : 40.6°C

Name of Location

: Near house of Rajendra Kumar Gupta S/o Shri Jaganath Gupta, Village, Post and

Tehsil: Semariya, Dist.: Panna (M.P.)

Parameter required

: PM₁₀, PM_{2.5}, SO₂, NO_x, CO

RESULTS	
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Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM10)	58.9 μg / m ³	$100 \mu g / m^3$	IS 5182 (Part 23)
Particulate Matter (PM _{2.5})	35.0 μg / m ³	60 μg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	$8.5 \mu g / m^3$	80 μg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _X)	$16.0 \mu g / m^3$	80 μg / m ³	IS 5182 (Part 6)
Carbon Monoxide (CO)	$802 \mu g / m^3$	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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ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

CI ID N OGGILLO	
Sample ID No.: SCS/AAQ/20220421/55	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/55	
	Date of Report: 08.05.2022

AMBIENT AIR QUALITY MONITORING REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P)

Date of Monitoring Date of start of testing Date of end of testing

23.04.2022 27.04.2022 08.05.2022

Duration of sampling Type of Industry GPS Coordinates of

Cement Industry 24°21′13.4"N

24 Hrs.

the Location Ambient Temperature

79°59'52.9"E 40.0°C

Name of Location

: Near house of Prem Singh S/o Shri Khilavan Singh, Village & Post: Pagra, Tehsil:

Amanganj, Dist.: Panna (M.P.) : PM₁₀, PM_{2.5}, SO₂, NO_x, CO

Parameter required RESULTS

Parameter	Observed Value	Limit as per NAAQS	Protocol
Particulate Matter (PM ₁₀)	55.7 μg / m ³	100 μg / m ³	IS 5182 (Part 23)
Particulate Matter (PM2.5)	33.5 μg / m ³	60 μg / m ³	IS 5182 (Part 24)
Sulphur Dioxide (SO ₂)	$7.3 \mu g / m^3$	80 μg / m ³	IS 5182 (Part 2)
Oxide Of Nitrogen (NO _X)	13.0 μg / m ³	80 μg / m ³	IS 5182 (Part 6)
Carbon Monoxide (CO)	802 μg / m ³	2,000 µg / m ³	SCS/SOP/AAQ/13

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar (Technical Manager)

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

Comple ID No. CCCCNV/20000 to to to	
Sample ID No.: SCS/W/20220421/74	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/74(1/4)	
(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 Date of start of testing

24.04.2022 27.04.2022

Date of end of testing

08.05.2022 24°19'25.8"N

GPS Coordinates of the Location

79°56'19.3"E

Details of Sample

: Koni-Simariya Mines (Boar well near house of Anil Kumar Gautam S/o Shri Gorier Gautam, Village & Post: Boda, Tehsil: Simariya, Dist.: Panna

Sample collected by

: SCS Representative

766	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and I	Physical Parameter			
Temperature	28.1 °C			APHA (23rd Edition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
рН	6.70	6.5 - 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	0.15	1	5	APHA (23rd Edition) 2130
Total Solids	1,394.00 Mg/L			APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L			APHA (23rd Edition) 2540 D
Total Dissolved Solids	1,391.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	2,090 μS/cm	-		APHA (23rd Edition) 2510B
Table 2: General Parameter	rs Concerning Subs	stances Undesirab	le in Excess Amounts	The state of the s
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rd Edition) 3111D
Ammonia (as total ammonia-N)	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rd Edition) 4500B-B
Calcium as Ca	124.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	141.96 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl ⁻ B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	1.36 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.06 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	51.52 Mg/L	30 Mg/L	100 Mg/L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rd Edition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar

(Technical Manager) Authorised Signatory

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MoEF&CC RECOGNIZED LABORATORY vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023 ISO-3001:2015 CERTIFIED LABORATORY ISO-44001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/74	Data CD 14 d 24
Report No. SCS/JKCL/W/20220421/74(2/4)	Date of Registration: 21.04.2022
Report 10. 3C5/3RCL/W/20220421/74(2/4)	Date of Report: 08.05.2022

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt Date of start of testing

24.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the Location

08.05.2022 24°19'25.8"N

79°56'19.3"E

Details of Sample Sample collected by Koni-Simariya Mines (Boar well near house of Anil Kumar Gautam S/o Shri Gorier Gautam, Village & Post: Boda, Tehsil: Simariya, Dist.: Panna

SCS Representative

-	Results	IS-1	0500:2012	Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Nitrate as NO ₃	0.78 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO ₃ ·B	
Nitrite as NO2	< 0.01 Mg/L	-	i i	APHA (23rd Edition) 4500 NO ₂	
Oil & Grease	< 0.2 Mg/L			APHA (23rd Edition) 5520B	
Phenolic Compounds as C ₆ H ₅ OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rd Edition) 5530C	
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rd Edition) 3114B	
Sulphate as SO ₄	508.63 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E	
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E	
Total Alkalinity as CaCO3	332.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320	
Total Hardness as CaCO3	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 contain		ces	15 Nigit	AFHA (23Id Edition) 3111B	
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	-	- Tro relaxation	APHA (23rd Edition) 4500 PC	
Sodium as Na	187.70 Mg/L	-		APHA (23rd Edition) 3500 B	
Potassium as K	42.30 Mg/L	-		APHA (23rd Edition) 3500 B	

Per pro SCS Enviro Services Pvt. Ltd.,

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

Sample ID No.: SCS/W/20220421/74	
	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/74(3/4)	Date of Report: 08.05.2022

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt

24.04.2022

Date of start of testing Date of end of testing

27.04.2022 : 08.05.2022

GPS Coordinates of the : 24°19'25.8"N Location

79°56'19.3"E

Details of Sample

Koni-Simariya Mines (Boar well near house of Anil Kumar Gautam S/o Shri

Gorier Gautam, Village & Post: Boda, Tehsil: Simariya, Dist.: Panna

Sample collected by

: SCS Representative

	Results	IS - 10500:2012		Protocol	
Parameter		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-НСН	< 0.01 µg / L		0.01 µg/L	USEPA Method No. 508	
β-НСН	< 0.04 µg / L	RS In .	0.04 μg / L	USEPA Method No. 508	
Butachlor	< 10.0 µg/L	65	125 µg / L	USEPA Method No. 525.2 & 8141A	
Chlorphyrifos	< 1.0 μg / L	30 μg / L		USEPA Method No. 525.2 & 8141A	
δ-НСН	< 0.04 µg / L			USEPA Method No. 508	
2,4 Dichlorophenoxyacetic acid	< 1.0 μg / L			USEPA Method No. 515.1	
DDT (o,p and p, p isomers of DDT, DDE and DDD	< 0.10 μg / L		l 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	
у-НСН	< 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		I 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			APHA (23rd Edition) 6440	

Per pro SCS Enviro Services Pvt. Ltd.,

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

Sample ID No.: SCS/W/20220421/74	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/74(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 Date of end of testing

: 27.04.2022 : 08.05.2022

GPS

Coordinates of the : 24°19'25.8"N

Location

79°56'19.3"E

Details of Sample

: Koni-Simariya Mines (Boar well near house of Anil Kumar Gautam S/o Shri

Gorier Gautam, Village & Post: Boda, Tehsil: Simariya, Dist.: Panna

Sample collected by

: SCS Representative

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

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MoEF&CC RECOGNIZED LABORATORY wide 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/20220421/80	
	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/80(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt

: 25.04.2022

Date of start of testing

: 27.04.2022

Date of end of testing

: 14.05.2022 : 24°20'22.7"N

GPS Coordinates of the Location

79°58'18.7"E

Details of Sample

: Water sample collected from Govt Handpump, near Govt. School, Village:

Village: Devra, Post: Puraina, Tehsil: Amanganj, Dist.: Panna

Sample collected by

: SCS Representative

Parameter	Results	IS-1	0500:2012	Protocol	
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Table 1: Organoleptic and	d Physical Parameter	s			
Temperature, °C	31.2°C		-	APHA (23rdEdition) 2550B	
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B	
Odour	Agreeable	Agreeable	Agreeable		
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)	
pH	6.81	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +	
Turbidity, NTU	0.17	1	5	APHA (23rdEdition) 2130	
Total Solids	994.00 Mg/L	-	(=0)	APHA (23rdEdition) 2540 B	
Total Suspended Solids	6.00 Mg/L		(=)	APHA (23rdEdition) 2540 D	
Total Dissolved Solids	988.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C	
Electrical Conductivity	1,395 μS/cm			APHA (23rd Edition) 2510B	
Table 2: General Parame	ters Concerning Subs	stances Undesirab	le in Excess Amounts	The same Cartony 25 Tob	
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L		
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)	
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B	
Calcium as Ca	147.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B	
Chloride as Cl	45.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl ⁻ B	
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B	
Fluoride as F	0.96 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D	
Iron as Fe	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B	
Magnesium as Mg	34.99 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B	
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B	

Per pro SCS Enviro Services Pvt..Ltd.,

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

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This report cannot be reproduced without the written permission of the director.

The sample will be destroyed after 15 days from the date of issue of the test report.

The liability of the laboratory is limited to the invoiced amount.



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-901:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/80	
Report No. SCS/JKCL/W/20220421/80(2/4)	Date of Registration: 21.04.2022
Report No. SCS/JRCL/W/20220421/80(2/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client

: M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt Date of start of testing

: 25.04.2022 : 27.04.2022

Date of end of testing

: 14.05,2022

GPS Coordinates of the Location

: 24°20'22.7"N 79°58'18.7"E

Details of Sample

Water sample collected from Govt Handpump, near Govt. School, Village:

No relaxation

No relaxation

0.05 Mg/L

No relaxation

APHA (23rdEdition) 3112B

APHA (23rdEdition) 3111B

APHA (23rdEdition) 3114B

APHA (23rdEdition) 3111B

APHA (23rdEdition) 4500 PC

APHA (23rdEdition) 3500 B

APHA (23rdEdition) 3500 B

Village: Devra, Post: Puraina, Tehsil: Amanganj, Dist.: Panna SCS Representative

Sample collected by

Results IS-10500:2012 Protocol Parameter Requirement Permissible Limit (Acceptable in absence of Limit) alternate source Nitrate as NO₃ 34.47 Mg/L 45 Mg/L No relaxation APHA (23rdEdition) 4500 NO₃·B Nitrite as NO2 < 0.01 Mg/L APHA (23rdEdition) 4500 NO2 Oil & Grease < 0.2 Mg/LAPHA (23rdEdition) 5520B < 0.001 Mg/L Phenolic Compounds as C₆H₅OH 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 SO₄ 349.35 Mg/L 200 Mg/L 400 Mg/L APHA (23rdEdition) 4500 E Sulphide as S 0.05 Mg/L < 0.20 Mg/L No relaxation APHA (23rdEdition) 4500 E Total Alkalinity as CaCO₃ 264.00 Mg/L 200 Mg/L 600 Mg/L APHA (23rdEdition) 2320 512.00 Mg/L Total Hardness as CaCO3 200 Mg/L 600 Mg/L APHA (23rdEdition) 2340 C Zinc as Zn $< 0.01 \, \text{Mg/L}$ 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 APHA (23rdEdition) 3111B No relaxation Cyanide < 0.01 Mg/L0.05 Mg/L No relaxation APHA (23rdEdition) 4500 CN C & E < 0.01 Mg/L Lead as Pb 0.01 Mg/L APHA (23rdEdition) 3111B No relaxation

0.001 Mg/L

0.02 Mg/L

0.01 Mg/L

0.05 Mg/L

Per pro SCS Enviro Services Pvt. Ltd.,

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

Mercury as Hg

Total Arsenic as As

Total Phosphate

Sodium as Na

Potassium as K

Total Chromium as Cr

Nickel as Ni

JAIPUR OF WILLIAM

The results refer only to the tested sample and applicable parameters.

< 0.001 Mg/L

< 0.01 Mg/L

< 0.01 Mg/L

< 0.50 Mg/L

109.92 Mg/L

1.32 Mg/L

< 0.005 Mg/L

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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

C. I TO M. COMPANIES	
Sample ID No.: SCS/W/20220421/80	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/80(3/4)	
20070110. 5C5/818C1// 17/20220421/80(3/4)	Date of Report: 14.05,2022

TEST REPORT

Name of Client

: M/S. JAYKAYCEM (CENTRAL) LTD.,

Address Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sampling Date of start of testing 25.04.2022 27.04.2022

Date of end of testing

: 14.05.2022 GPS Coordinates of the : 24°20'22.7"N

Location

79°58'18.7"E

Details of Sample

: Water sample collected from Govt Handpump, near Govt. School, Village:

Devra, Post: Puraina, Tehsil: Amanganj, Dist.: Panna

Sample submitted by

: SCS Representative

	Results	IS - 10500:2012		Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Pesticides Residues			and the same		
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 & 8141 A	
Aldrin / Dieldrin	< 0.03 µg/L		0.03 µg/L	USEPA Method No. 508	
α-НСН	< 0.01 µg/L		0.01 µg/L	USEPA Method No. 508	
β-НСН	< 0.04 µg / L		0.04µg/L	USEPA Method No. 508	
Butachlor	< 10.0 µg/L		125µg/L	USEPA Method No. 525.2 & 8141A	
Chlorphyrifos	< 1.0 µg/L	30μg/L		USEPA Method No. 525.2 & 8141A	
δ-НСН	< 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	lμg/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	
у-НСН	< 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		lµg/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			APHA (23rdEdition) 6440	

Per pro SCS Enviro Services Pvt. Ltd.,

Deced 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-14061:2016 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

Date of Registration: 21.04.2022
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 Date of start of testing : 25.04.2022

Date of end of testing

: 27.04.2022 14.05.2022

GPS Coordinates of the : 24°20'22.7"N

Location

79°58'18.7"E

Details of Sample

Water sample collected from Govt Handpump, near Govt. School, Village:

Village: Devra, Post: Puraina, Tehsil: Amanganj, Dist.: Panna : SCS Representative

Sample submitted by

	Results	IS - 10500:2012		Protocol
Parameter		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.,

Delever 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/20220421/81	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/81(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt

: 24.04.2022

Date of start of testing Date of end of testing

: 27.04.2022 : 14.05.2022

GPS Coordinates of the : 24°21'44.5"N

Location Details of Sample

79°53'19.6"E : Water sample collected from Govt Handpump, near House of Sunil Jat

S/o Shri Ramkesh Jat, Village: Village: Sunwanikalan, Tehsil: Amanganj, Dist.: Panna

Sample collected by

: SCS Representative

	Results	IS - 10500:2012		Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Table 1: Organoleptic and	d Physical Parameter	s			
Temperature	32.5°C	-	() ()	APHA (23rdEdition) 2550B	
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B	
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)	
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)	
pН	7.78	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +	
Turbidity, NTU	0.18	1	5	APHA (23rdEdition) 2130	
Total Solids	818.00 Mg/L	-		APHA (23rdEdition) 2540 B	
Total Suspended Solids	< 5.00 Mg/L		-	APHA (23rdEdition) 2540 D	
Total Dissolved Solids	815.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C	
Electrical Conductivity	1,257 μS/cm	74		APHA (23rd Edition) 2510B	
Table 2: General Parame	ters Concerning Sub	stances Undesirab	le in Excess Amounts		
Aluminum as Al	< 0.01 Mg/L		0.2 Mg/L	APHA (23rdEdition) 3111D	
Ammonia	< 0.2 Mg/L		No Relaxation	IS 3025 (Part 34)	
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B	
Calcium as Ca	116.18 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B	
Chloride as Cl	95.97 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B	
Copper as Cu	< 0.01 Mg/L		1.5 Mg/L	APHA (23rdEdition) 3111B	
Fluoride as F	0.67 Mg/L		1.5 Mg/L	APHA (23rdEdition) 4500 F D	
Iron as Fe	0.04 Mg/L		No Relaxation	APHA (23rdEdition) 3111B	
Magnesium as Mg	60.26 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B	
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B	

Per pro SCS Enviro Services Pvt. Ltd.,

Deceus 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

MoEF&CC RECOGNIZED LABORATORY MOEFACU RECOGNIZED LABORATURT 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

Canala ID M. CCCATTIONS	
Sample ID No.: SCS/W/20220421/81	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/81(2/4)	500 V
	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 Date of start of testing Date of end of testing

24.04.2022 27.04.2022 14.05.2022

GPS Coordinates of the : Location

24°21'44.5"N 79°53'19.6"E

Details of Sample

Water sample collected from Govt Handpump, near House of Sunil Jat S/o Shri Ramkesh Jat, Village: Village: Sunwanikalan, Tehsil: Amanganj, Dist.:

Panna

Sample collected by

SCS Representative

_	Results	IS - 1	10500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	34.75 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L		-	APHA (23rdEdition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L		-	APHA (23rdEdition) 5520B
Phenolic Compounds as C ₆ H ₅ OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO ₄	100.2 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO ₃	384.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO ₃	540.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
Table 3: Parameters containing				THE THE (25) GEORGICON) STEED
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg/L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg/L	0.05 Mg/L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L		-	APHA (23rdEdition) 4500 PC
Sodium as Na	17.27 Mg/L			APHA (23rdEdition) 3500 B
Potassium as K	5.11 Mg/L	_	-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

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

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

TEST REPORT

Name of Client

: M/S. JAYKAYCEM (CENTRAL) LTD.,

Address Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sampling Date of start of testing Date of end of testing

: 24.04.2022 : 27.04.2022 : 14.05.2022

GPS Coordinates of the : 24°21'44.5"N Location

79°53'19.6"E

Details of Sample

: Water sample collected from Govt Handpump, near House of Sunil Jat S/o Shri Ramkesh Jat, Village: Village: Sunwanikalan, Tehsil: Amanganj, Dist.:

Panna

Sample submitted by

: SCS Representative

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				<u></u>
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-НСН	< 0.01 μg / L		0.01 μg/L	USEPA Method No. 508
β-НСН	< 0.04 μg / L		0.04µg/L	USEPA Method No. 508
Butachlor	< 10.0 μg / L		125μg / L	USEPA Method No. 525.2 & 8141 A
Chlorphyrifos	< 1.0 μg / L	30μg / L		USEPA Method No. 525.2 & 8141 A
δ-НСН	< 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
ү-НСН	< 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			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

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

Date of Registration: 21.04.2022
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 Date of start of testing

24.04.2022 : 27.04.2022

Date of end of testing GPS Coordinates of the : 24°21'44.5"N

: 14.05.2022 79°53'19.6"E

Location Details of Sample

Water sample collected from Govt Handpump, near House of Sunil Jat S/o Shri Ramkasha Jat, Village: Village: Sunwanikalan, Tehsil: Amanganj, Dist.:

Panna

Sample submitted by

SCS Representative

Results		IS -	Protocol		
Parameter		Requirement (Acceptable Limit) Permissible Limit in absence of alternate source			
Bacteriological Quality of	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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This report cannot be reproduced without the written permission of the director.

The sample will be destroyed after 15 days from the date of issue of the test report.

The liability of the laboratory is limited to the invoiced amount.



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

MOEF&CC RECOGNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023
ISO-9001:2016 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2016 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/82	Date of Pagistration, 21 04 2022
	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/82(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt Date of start of testing Date of end of testing

24.04.2022 27.04.2022 14.05.2022

GPS Coordinates of the : Location

24°16'04.3"N 79°53'32.6"E

Details of Sample

: Water sample collected from Govt. Borewell near house of Babu Lal Soni S/o Shri

Jumna Lal Soni, Village & Post: Simariya, Tehsil: Simariya, Dist.: Panna

Sample collected by

	Results	IS-1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	d Physical Parameter	S		
Temperature	29.6 °C	-		APHA (23rdEdition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B
Odour	Agrecable	Agrecable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	7.14	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.24	1	5	APHA (23rdEdition) 2130
Total Solids	880.00 Mg/L	_		APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	876.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,294 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parame	ters Concerning Sub:	stances Undesirab	le in Excess Amounts	1
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	76.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	71.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.96 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	40.82 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

TC-6960

Moef&cc recognized laboratory
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023
ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/82	
	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/82(2/4)	Date of Report: 14.05.2022
	Date of Report:

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 Date of start of testing : 24.04.2022 : 27.04.2022

Date of end of testing : GPS Coordinates of the :

: 14.05.2022 : 24°16'04.3"N

Location

79°53'32.6"E

Details of Sample

: Water sample collected from Govt. Borewell near house of Babu Lal Soni S/o Shri

Jumna Lal Soni, Village & Post: Simariya, Tehsil: Simariya, Dist.: Panna

Sample collected by

: SCS Representative

	Results	IS-1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	8.17 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	-		APHA (23rdEdition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-		APHA (23rdEdition) 5520B
Phenolic Compounds as C ₆ H ₅ OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	
Sulphate as SO ₄	247.62 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO ₃	308.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO ₃	360.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
Table 3: Parameters containing	Toxic Substance	S		[74 117 (25 425 430 1) 5 1 1 1 B
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg/L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg/L	0.05 Mg/L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-		APHA (23rdEdition) 4500 PC
Sodium as Na	118.50 Mg/L	_		APHA (23rdEdition) 3500 B
Potassium as K	2.85 Mg/L			APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

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

Sample ID No.: SCS/W/20220421/83	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/83(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 GPS Coordinates of the : 24°17'33.1"N

14.05.2022

Location

79°57'50.5"E

Details of Sample

: Water sample collected from Govt Handpump near house of Arjun Singh S/o

Shri Sujan Singh, Village & Post: Tighara, Tehsil: Simariya, Dist.: Panna

Sample collected by : SCS Representative

	Results	IS-	10500:2012	Protocol
Parameter		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 & 8141 A
Aldrin / Dieldrin	< 0.03 µg/L		0.03 µg/L	USEPA Method No. 508
α-НСН	< 0.01 µg / L		0.01 µg/L	USEPA Method No. 508
β-НСН	< 0.04 µg / L		0.04µg/L	USEPA Method No. 508
Butachlor	< 10.0 µg/L		125µg/L	USEPA Method No. 525.2 & 8141 A
Chlorphyrifos	< 1.0 µg / L		30μg / L	USEPA Method No. 525.2 & 8141 A
δ-НСН	< 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
у-НСН	< 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	25	2µg/L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L	. 0.0001 Mg/		APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

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

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

TEST REPORT

Name of Client

: M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

: Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt Date of start of testing

25.04.2022 27.04.2022

Date of end of testing

14.05.2022 24°17'33.1"N

GPS Coordinates of the : Location

24°17'33.1"N 79°57'50.5"E

Details of Sample

: Water sample collected from Govt Handpump near house of Arjun Singh S/o Shri Sujan Singh, Village & Post: Tighara, Tehsil: Simariya, Dist.: Panna

Sample collected by

SCS Representative

	Results	IS-	Protocol	
Parameter		Requirement (Acceptable Limit) Permissible Limit in absence of alternate source		
Bacteriological Quality o	f 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 SERVICES JAIPUR

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

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

Sample ID No.: SCS/W/20220421/84	Date of Registration: 21.04.2022	
Report No. SCS/JKCL/W/20220421/84(1/4)	Date of Report: 14.05.2022	

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt

24.04.2022

Date of start of testing Date of end of testing

27.04.2022 14.05.2022

GPS Coordinates of the : Location

24°16'36.4"N 79°49'16.7"E

Details of Sample

Water sample collected from Borewell near house of Balkishan Soni S/o Shri Kaman

Soni, Village: Kholkhariya, Post: Divre, Tehsil: Simariya, Dist.: Panna

Sample collected by

SCS Representative

	Results	IS - 1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	d Physical Parameter	s		
Temperature	30.2°C		-	APHA (23rdEdition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pН	7.29	6.5-8.5	No Relaxation	APHA (23rdEdition) 4500- H+
Turbidity, NTU	0.20	1	5	APHA (23rdEdition) 2130
Total Solids	768.00 Mg/L	-	_	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	764.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1108 μS/cm	-	1 1 1 1 1 1	APHA (23rd Edition) 2510B
Table 2: General Parame	ters Concerning Sub	stances Undesirab	le in Excess Amounts	
Aluminum as Al	< 0.01 Mg/L		0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	96.00 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	21.99 Mg/L		1,000 Mg/L	APHA (23rdEdition) 4500 Cl B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.86 Mg/L		1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.03 Mg/L		No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	44.71 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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

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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-8001:2015 CERTIFIED LABORATORY
ISO-45001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

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

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt Date of start of testing

24.04.2022 27.04.2022

Date of end of testing :
GPS Coordinates of the :
Location

14.05.2022 24°16'36.4"N

Details of Sample

79°49'16.7"E
: Water sample collected from Borewell near house of Balkishan Soni S/o Shri Kaman

Soni, Village: Kholkhariya, Post: Divre, Tehsil: Simariya, Dist.: Panna

Sample collected by : 5

SCS Representative

	Results	IS-1	0500:2012	Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Nitrate as NO ₃	18.45 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO ₃ ·B	
Nitrite as NO ₂	< 0.01 Mg/L	-		APHA (23rdEdition) 4500 NO2	
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	145.13 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	392.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320	
Total Hardness as CaCO ₃	424.00 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	42.62 Mg/L			APHA (23rdEdition) 3500 B	
Potassium as K	1.84 Mg/L	-		APHA (23rdEdition) 3500 B	

Per pro SCS Enviro Services Pvt. Ltd.,

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



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

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

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Sample ID No.: SCS/W/20220421/84	Date of Registration: 21.04.202	
Report No. SCS/JKCL/W/20220421/84(3/4)		
1 (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 Date of start of testing

24.04.2022

Date of end of testing

27.04.2022 14.05.2022

GPS Coordinates of the : Location

24°16'36.4"N 79°49'16.7"E

Details of Sample

Water sample collected from Borewell near house of Balkishan Soni S/o Shri Kaman Soni, Village: Kholkhariya, Post: Divre, Tehsil: Simariya, Dist.: Panna

Sample submitted by

SCS Representative

	Results	IS-	10500:2012	Protocol	
Parameter		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 & 8141 A	
Aldrin / Dieldrin	< 0.03 µg/L		0.03 μg/L	USEPA Method No. 508	
α-НСН	< 0.01 µg/L		0.01 μg/L	USEPA Method No. 508	
β-НСН	< 0.04 µg/L		0.04μg/L	USEPA Method No. 508	
Butachlor	< 10.0 µg/L		125µg/L	USEPA Method No. 525,2 & 8141 A	
Chlorphyrifos	< 1.0 µg/L		30µg/L	USEPA Method No. 525.2 & 8141 A	
δ-НСН	< 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	
у-НСН	< 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		lµg/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		L No relaxation	APHA (23rdEdition) 6440	

Per pro SCS Enviro Services Pvt. Ltd.,

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

JAIPUR Y

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The liability of the laboratory is limited to the invoiced amount.

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

IS 15185

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

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address Client Date of Sampling Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of start of testing Date of end of testing

24.04.2022 27.04.2022 14.05.2022

GPS Coordinates of the :

24°16'36.4"N

Location

79°49'16.7"E

Details of Sample

Water sample collected from Borewell near house of Balkishan Soni S/o Shri Kaman Soni, Village: Kholkhariya, Post: Divre, Tehsil: Simariya, Dist.: Panna

Shall not be detectable in any 100ml sample

SCS Representative

Sample submitted by

	Results	1S - 10500:2012		Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Bacteriological Quality o	f Water				
Total Coliform	6 CFU	Shall not be detectable in any 100ml sample		IS 15185	
E. Coli	Absent	Shall not be detectable in any 100ml sample		19 15195	

Per pro SCS Enviro Services Pvt. Ltd.,

(100 secred 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

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

Sample ID No.: SCS/W/20220421/85	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/85(1/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amangani, 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 : 24°19'18.6"N

GPS Coordinates of the Location

79°52'19.8"E

Details of Sample

: Water sample collected from Govt. Handpump near Govt School, Village:

Garhikhariya, Post: Sunwani Kalan, Tehsil: Amanganj, Dist.: Panna

Sample collected by

: SCS Representative

	Results	IS - 10	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	d Physical Parameter	s		
Temperature	28.6°C	-		APHA (23rdEdition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pН	7.13	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.22	1	5	APHA (23rdEdition) 2130
Total Solids	746.00 Mg/L	-		APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-		APHA (23rdEdition) 2540 D
Total Dissolved Solids	744.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1086 μS/cm	. - 8		APHA (23rd Edition) 2510B
Table 2: General Parame	ters Concerning Sub	stances Undesirab	le in Excess Amounts	
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	83.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	21.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L		1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.67 Mg/L		1.5 Mg/L	
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	61.24 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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SCS

SCS ENVIRO SERVICES PRIVATE LIMITED



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

MoEF&CC RECOGNIZED LABORATORY

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

Sample ID No.: SCS/W/20220421/85	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/85(2/4)	Date of Report: 14.05,2022

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt

26.04.2022

Date of start of testing

27.04.2022

Date of end of testing

14.05.2022

GPS Coordinates of the Location

24°19'18.6"N

Details of Sample

79°52'19.8"E Water sample collected from Govt. Handpump near Govt School, Village:

Garhikhariya, Post: Sunwani Kalan, Tehsil: Amanganj, Dist.: Panna

Sample collected by

SCS Representative

	Results	IS - 1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	28.99 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L		-	APHA (23rdEdition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C ₆ H ₅ OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO ₄	57.46 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO ₃	468.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO ₃	460.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
Table 3: Parameters containing	Toxic Substance			
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	(to	1 -	APHA (23rdEdition) 4500 PC
Sodium as Na	21.07 Mg/L	-	1.5	APHA (23rdEdition) 3500 B
Potassium as K	0.79 Mg/L	-	14	APHA (23rdEdition) 3500 B

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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- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to Jaipur jurisdiction.

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

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

Comple TD No. OCCOMMODOR (S. 195	
Sample ID No.: SCS/W/20220421/85	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/85(3/4)	
1	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 Date of end of testing

: 27.04.2022 : 14.05.2022

Location

GPS Coordinates of the : 24°19'18.6"N 79°52'19.8"E

Details of Sample

: Water sample collected from Govt. Handpump near Govt School, Village: Garhikhariya, Post: Sunwani Kalan, Tehsil: Amanganj, Dist.: Panna

Sample submitted by

: SCS Representative

	Results	Results IS - 10500:2012		Protocol	
Parameter		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-НСН	< 0.01 µg / L		0.01 µg/L	USEPA Method No. 508	
β-НСН	< 0.04 µg/L		0.04µg/L	USEPA Method No. 508	
Butachlor	<10.0 µg/L		125µg/L	USEPA Method No. 525.2 & 8141A	
Chlorphyrifos	<1.0 μg/L		30µg/L	USEPA Method No. 525.2 & 8141A	
δ-НСН	< 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	lμg/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	
у-НСН	< 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		lug/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.,

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



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

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

Sample ID No.: SCS/W/20220421/85	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/85(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 Date of start of testing

: 26.04,2022 : 27.04.2022

Date of end of testing GPS Coordinates of the : 24°19'18.6"N

14.05.2022

Location

79°52'19.8"E

Details of Sample

: Water sample collected from Govt. Handpump near Govt School, Village:

Garhikhariya, Post: Sunwani Kalan, Tehsil: Amanganj, Dist.: Panna

Sample submitted by

: SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,

Decen 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

TC-6960

MoEF&CC RECGGNIZED LABORATORY vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023 ISO-9001:2015 CERTIFIED LABORATORY ISO-41001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

Date of Registration: 21.04.2022
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 Date of start of testing

: 24.04.2022 : 27.04.2022

Date of end of testing GPS Coordinates of the : 24°18'25.9"N Location

79°49'38.5"E

: 14.05.2022

Details of Sample

: Water sample collected from Govt. Handpump near House of Trilok Singh S/o Shri

Girka Singh, Village: Khamargaur, Post: Mohrai, Tehsil: Hata, Dist.: Panna

Sample collected by

: SCS Representative

	Results	IS-1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	d Physical Parameter	s		
Temperature	30.5 °C		-	APHA (23rdEdition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.78	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.19	1	5	APHA (23rdEdition) 2130
Total Solids	941.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L		-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	938.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,385 µS/cm		-	APHA (23rd Edition) 2510B
Table 2: General Parame	ters Concerning Sub	stances Undesirab	le in Excess Amounts	
Aluminum as Al	< 0.01 Mg/L		0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L		No Relaxation	
Boron as B	< 0.1 Mg/L		1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	140.80 Mg/L		200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	89.97 Mg/L		1,000 Mg/L	APHA (23rdEdition) 4500 Cl ⁻ B
Copper as Cu	< 0.01 Mg/L		1.5 Mg/L	
Fluoride as F	0.97 Mg/L		1.5 Mg/L	
Iron as Fe	0.04 Mg/L		No Relaxation	
Magnesium as Mg	73.87 Mg/L		100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L		0.3 Mg/L	

Per pro SCS Enviro Services Pvt. Ltd.,

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

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- All disputes are subjected to Jaipur jurisdiction.



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/20220421/86	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/86(2/4)	Date of Report: 14.05.2022
	Date of Report: 1

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 Date of start of testing

24.04.2022 27.04.2022 14.05.2022

Date of end of testing GPS Coordinates of the Location

24°18'25.9"N 79°49'38.5"E

Details of Sample

Water sample collected from Govt. Handpump near House of Trilok Singh S/o Shri

Girka Singh, Village: Khamargaur, Post: Mohrai, Tehsil: Hata, Dist.: Panna

Sample collected by

SCS Representative

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO ₃	47.31 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO ₃ -B
Nitrite as NO ₂	< 0.01 Mg/L	(#0)		APHA (23rdEdition) 4500 NO ₂
Oil & Grease	< 0.2 Mg/L		-	APHA (23rdEdition) 5520B
Phenolic Compounds as C ₆ H ₅ OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO ₄	179.98 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO ₃	384.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO ₃	656.00 Mg/L	200 Mg/L	600 Mg/L	
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	
Table 3: Parameters containing	Toxic Substance	s		731115
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg/L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg/L	0.05 Mg/L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	14.46 Mg/L	; = .		APHA (23rdEdition) 3500 B
Potassium as K	6.56 Mg/L	(0.00)		APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar (Technical Manager)

Authorised Signatory

The results refer only to the tested sample and applicable parameters.

This report in full or in part, shall not be used for advertising or as evidence in any court of law.

This report cannot be reproduced without the written permission of the director.

The sample will be destroyed after 15 days from the date of issue of the test report.

The liability of the laboratory is limited to the invoiced amount.

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

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

Sample ID No.: SCS/W/20220421/86	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/86(3/4)	Date of Report: 14.05.2022
	Date of Report. 14.03.202.

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 Date of start of testing 24.04.2022 27.04.2022

Date of end of testing :
GPS Coordinates of the :

14.05.2022 24°18'25.9"N

Location

79°49'38.5"E

Details of Sample

Water sample collected from Govt. Handpump near House of Trilok Singh S/o Shri

Girka Singh, Village: Khamargaur, Post: Mohrai, Tehsil: Hata, Dist.: Panna

Sample collected by : SCS I

Value of the second of the sec	Results	IS - 10500:2012		Protocol	
Parameter	(Acceptable in absence of		Permissible Limit in absence of alternate source	t	
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-НСН	< 0.01 µg/L		0.01 μg/L	USEPA Method No. 508	
β-НСН	< 0.04 μg / L		0.04μg/L	USEPA Method No. 508	
Butachlor	< 10.0 µg / L	N.	125μg / L	USEPA Method No. 525.2 & 8141A	
Chlorphyrifos	< 1.0 μg / L		30μg/L	USEPA Method No. 525.2 & 8141A	
δ-НСН	< 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	lμg/L		USEPA Method No. 508	
Endosulphane (α, β and Sulphate)	< 0.10 µg / L			USEPA Method No. 508	
Ethion	< 0.10 µg / L		3μg / L	USEPA Method No. 1657A	
γ-НСН	< 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	10.	0.3μg / L	USEPA Method No. 8141A	
Monocrotophos	< 0.10 µg / L	85	lμg/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/		APHA (23rdEdition) 6440	

Per pro SCS Enviro Services Pvt. Ltd.,

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

• The results refer only to the tested sample and applicable parameters.

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• The sample will be destroyed after 15 days from the date of issue of the test report.

The liability of the laboratory is limited to the invoiced amount.

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

15O-9001:2015 CERTIFIED LABORATORY ISO-14001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/W/20220421/86	Date of Registration: 21.04,2022
Report No. SCS/JKCL/W/20220421/86(4/4)	
1 12100(111)	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 Date of end of testing

27.04.2022 : 14.05.2022

GPS Coordinates of the : 24°18'25.9"N

Location

79°49'38.5"E

Details of Sample

Water sample collected from Govt. Handpump near House of Trilok Singh S/o Shri

Girka Singh, Village: Khamargaur, Post: Mohrai, Tehsil: Hata, Dist.: Panna

Sample collected by

: SCS Representative

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	e
Bacteriological Quality of	of Water			
Total Coliform	14 CFU	Shall not be	detectable in any 100ml sample	IS 15185
E. Coli	Absent		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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All disputes are subjected to Jaipur jurisdiction.



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

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

Camania ID N. GOODY INDOOR AND	
Sample ID No.: SCS/W/20220421/87	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/87(1/4)	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	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 GPS Coordinates of the

14.05.2022 : 24°18'32.2"N

Location

79°51'21.4"E

Details of Sample

Water sample collected from Govt. Handpump near House of Tikaram Barman S/o Shri Ram Krishna Barman, Village: Pagra, Post: Boda, Tehsil: Paive, Dist.: Panna

Sample collected by

SCS Representative

Parameter	Results	15-1	0500:2012	Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	d Physical Parameter	8		
Temperature	28.1 °C			APHA (23rdEdition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.75	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.17	1	5	APHA (23rdEdition) 2130
Total Solids	1,119.00 Mg/L			APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-		APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,115.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,612 μS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parame	ters Concerning Subs	stances Undesirab	le 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	
Calcium as Ca	148.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	69.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 CF B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	
Fluoride as F	1.08 Mg/L	1.0 Mg/L	1.5 Mg/L	
Iron as Fe	0.06 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	45.68 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

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

Sample ID No.: SCS/W/20220421/87	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/87(2/4)	Date of Report: 14.05.2022

TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt

: 26.04.2022

Date of start of testing Date of end of testing

: 27.04.2022 14.05.2022

GPS Coordinates of the

: 24°18'32.2"N

Location

79°51'21.4"E

Details of Sample

Water sample collected from Govt. Handpump near House of Tikaram Barman S/o

Shri Ram Krishna Barman, Village: Pagra, Post: Boda, Tehsil: Paive, Dist.: Panna

Sample collected by

	Results	IS - 1	0500:2012	Protocol	
Parameter		Requirement (Acceptable in absence of Limit) Requirement permissible Limit in absence of alternate source			
Nitrate as NO ₃	12.23 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO ₃ -B	
Nitrite as NO ₂	< 0.01 Mg/L		-	APHA (23rdEdition) 4500 NO2	
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	380.38 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	356.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320	
Total Hardness as CaCO ₃	560.00 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 & F	
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	100.26 Mg/L	-		APHA (23rdEdition) 3500 B	
Potassium as K	8.01 Mg/L			APHA (23rdEdition) 3500 B	

Per pro SCS Enviro Services Pvt. Ltd.,

Collece Dr. D. S. Parihar (Technical Manager)

Authorised Signatory

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The liability of the laboratory is limited to the invoiced amount.

All disputes are subjected to Jaipur jurisdiction.

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

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

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

27.04.2022 14.05.2022

GPS Coordinates of the

14.05.2022 24°18'32.2"N

Location

79°51'21.4"E

Details of Sample

Water sample collected from Govt. Handpump near House of Tikaram Barman S/o

Shri Ram Krishna Barman, Village: Pagra, Post: Boda, Tehsil: Paive, Dist.: Panna

Sample collected by

SCS Representative

	Results	IS - 10500:2012		Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Pesticides Residues					
Alachlor	< 0.10 µg / L	8	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	n.	0.03 μg / L	USEPA Method No. 508	
α-НСН	< 0.01 µg / L		0.01 μg / L	USEPA Method No. 508	
β-НСН	< 0.04 µg / L		0.04μg / L	USEPA Method No. 508	
Butachlor	< 10.0 µg/L		125μg / L	USEPA Method No. 525,2 & 8141A	
Chlorphyrifos	< 1.0 μg/L	1.0		USEPA Method No. 525,2 & 8141A	
δ-НСН	< 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		lμg/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	
ү-НСН	< 0.10 μg / L	e socileito	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		lµg/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		L No relaxation	APHA (23rdEdition) 6440	

Per pro SCS Enviro Services Pvt. Ltd.,

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



- The results refer only to the tested sample and applicable parameters.
- This report in full or in part, shall not be used for advertising or as evidence in any court of law.
- This report cannot be reproduced without the written permission of the director.
- The sample will be destroyed after 15 days from the date of issue of the test report.
- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to Jaipur jurisdiction.

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

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

Sample ID No.: SCS/W/20220421/87	Date of Date of Access
Report No. SCS/JKCL/W/20220421/87(4/4)	Date of Registration: 21.04.2022
200 POT CT10. BESIGNEELII W/20220421/6/(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 Date of start of testing

26.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the : 14.05.2022 : 24°18'32.2"N

Location

79°51'21.4"E

Details of Sample

: Water sample collected from Govt. Handpump near House of Tikaram Barman S/o Shri Ram Krishna Barman, Village: Pagra, Post: Boda, Tehsil: Paive, Dist.: Panna

Sample collected by : SCS Representative

1	Results	1S -	Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of	of Water			
Total Coliform	10 CFU	Shall not be	detectable in any 100ml sample	IS 15185
E. Coli	Absent	Shall not be	detectable in any 100ml sample	IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar (Technical Manager)

Authorised Signatory

The results refer only to the tested sample and applicable parameters.

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The sample will be destroyed after 15 days from the date of issue of the test report.

The liability of the laboratory is limited to the invoiced amount.



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

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 Date of start of testing

: 26.04.2022 : 27.04.2022 : 08.05.2022

Date of end of testing GPS Coordinates of the Location

: 24°21'02.8"N 79°54'47.0"E

Details of Sample Sample collected by : Surface Water, Sonar River

: SCS Representative

Parameter		IS - 1	0500:2012	Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	Physical Parameter	S		
Temperature, °C	31.5	-		APHA (23rd Edition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	
Taste	Agreeable	Agreeable	Agreeable	
pН	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	9-1	-	APHA (23rd Edition) 2510B
Table 2: General Paramete	ers Concerning Sub	stances Undesirab	le 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	

Per pro SCS Enviro Services Pvt, Ltd.,

Dr. D. S. Parihar (Technical Manager)

Authorised Signatory

The results refer only to the tested sample and applicable parameters.

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The sample will be destroyed after 15 days from the date of issue of the test report.

The liability of the laboratory is limited to the invoiced amount.



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

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

Sample ID No.: SCS/W/20220421/76	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/76(2/4)	
	Date of Report: 08.05,2022

TEST REPORT

Name of Client

: M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

: Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sample Receipt

: 26.04.2022

Date of start of testing

: 27.04.2022

Date of end of testing

: 08.05.2022 : 24°21'02.8"N

GPS Coordinates of the Location

79°54'47.0"E

Details of Sample Sample collected by : Surface Water, Sonar River

: SCS Representative

200	Results	IS - 10	0500:2012	Protocol
Parameter		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	1		, , , , , , , , , , , , , , , , , , , ,
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		1.00 X	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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

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- The sample will be destroyed after 15 days from the date of issue of the test report.
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- All disputes are subjected to Jaipur jurisdiction.

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

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

Sample ID No.: SCS/W/20220421/76	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 Date of start of testing

26.04.2022 : 27.04.2022

Date of end of testing GPS Coordinates of the : 24°21'02.8"N

: 08.05.2022

Location Details of Sample

79°54'47.0"E : Surface Water, Sonar River

Sample submitted by

: SCS Representative

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	10.00000
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-НСН	< 0.01 µg / L		0.01 µg/L	USEPA Method No. 508
β-НСН	< 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
Chlorphyrifos	< 1.0 µg / L			USEPA Method No. 525.2 & 8141A
δ-НСН	< 0.04 μg / L			USEPA Method No. 508
2,4 Dichlorophenoxyacetic acid	< 1.0 μg / L			USEPA Method No. 515.1
DDT (o, p and p, p isomers of DDT, DDE and DDD	< 0.10 μg / L	1/1		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
ү-НСН	< 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			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			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/20220421/76	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 Date of start of testing

26.04.2022 : 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

	Results	IS -	Protocol	
Parameter		Requirement (Acceptable Limit) Permissible Limit in absence of alternate source		
Bacteriological Quality of	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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ISO-45001:2018 CERTIFIED LABORATORY

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

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 Date of end of testing

: 27.04.2022 : 08.05.2022

GPS Coordinates of the Location

: 24°17'56.4"N 79°57'52.3"E

Details of Sample Sample collected by

Surface Water, Ken River : SCS Representative

	Results	IS-1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	Physical Parameter	'S		
Temperature, °C	29.9	-		APHA (23rd Edition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	
Taste	Agreeable	Agrecable	Agreeable	IS 3025 (Part 7)
pН	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		74	APHA (23rd Edition) 2510B
Table 2: General Paramete	ers Concerning Sub	stances Undesirab	le 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	

Per pro SCS Enviro Services Pvt. Ltd.,

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

Copper as Cu

Fluoride as F

Iron as Fe

Dissolved Oxygen

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0.05 Mg/L

1.0 Mg/L

0.3 Mg/L

1.5 Mg/L

1.5 Mg/L

No Relaxation

APHA (23rd Edition) 3111B

APHA (23rd Edition) 4500 F D

APHA (23rd Edition) 3111B

IS 3025 (Part 38)

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< 0.01 Mg/L

4.4 Mg/L

0.60 Mg/L

0.02 Mg/L



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/20220421/77	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 Date of start of testing

26.04.2022 : 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 Sample collected by : Surface Water, Ken River : SCS Representative

	Results IS – 10		0500:2012	Protocol
Parameter		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	
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 NO2
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	i		
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

Location

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

Date of Sampling Date of start of testing

: 26.04.2022 : 27.04.2022 : 08.05.2022

Date of end of testing **GPS** Coordinates of the : 24°17'56.4"N

79°57'52.3"E

Details of Sample Sample submitted by : Surface Water, Ken River

: SCS Representative

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				-
Alachlor	< 0.10 μg / L	10	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-НСН	< 0.01 μg/L		0.01 μg/L	USEPA Method No. 508
β-НСН	< 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 & 8141 A
Chlorphyrifos	< 1.0 μg / L			USEPA Method No. 525.2 & 8141A
δ-НСН	< 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 /1		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-НСН	< 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			USEPA Method No. 8141A
Phorate	< 0.10 µg / L			USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	< 0.0001 Mg / L		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/20220421/77	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 Date of start of testing

: 26.04.2022 : 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

	Results	IS - 10500:2012		Protocol
Parameter		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.,

(Technical Manager)

Authorised Signatory

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

TC-6960

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

Sample ID No.: SCS/W/20220421/78	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/78(1/4)	Date of Report: 08.05.2022
	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 Date of end of testing

: 27.04.2022 : 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

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	Physical Parameter	S		
Temperature, °C	31.8	-	-	APHA (23rd Edition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agrecable	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 Paramete	ers Concerning Sub	stances Undesirab	le 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	4	_	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		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.,

Dr. D. S. Parihar (Technical Manager)

Authorised Signatory

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All disputes are subjected to Jaipur jurisdiction.

JAIPUR



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(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 Date of end of testing

: 27.04.2022 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

	Results	IS - 1	0500:2012	Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	F	
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			THE COST CONTROL OF STATE	
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.,

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/20220421/78	Data of Dogistration, 21 04 2022	
Report No. SCS/JKCL/W/20220421/78(3/4)	Date of Registration: 21.04.202	
	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 Date of start of testing

26.04.2022 27.04.2022

Date of end of testing

08.05.2022 24°20'19.0"N

GPS Coordinates of the : Location

79°58'21.7"E

Details of Sample

: Surface Water, Pond Near Deora Village

Sample submitted by

: SCS Representative

	Results	IS - 10500:2012		Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Pesticides Residues			unternate source		
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-НСН	< 0.01 µg / L		0.01 μg/L	USEPA Method No. 508	
β-НСН	< 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	
Chlorphyrifos	< 1.0 μg / L		30 μg / L	USEPA Method No. 525.2 & 8141A	
δ-НСН	< 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-НСН	< 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			USEPA Method No. 8141A	
Monocrotophos	< 0.10 µg / L			USEPA Method No. 8141A	
Phorate	< 0.10 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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- All disputes are subjected to Jaipur jurisdiction.

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

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

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

: 26.04.2022 : 27.04.2022 : 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

	Results	IS - 10500:2012		Protocol
Parameter Bacteriological Quality o	f Water	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
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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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

Complete No. Commission of the	
Sample ID No.: SCS/W/20220421/79	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/79(1/4)	
11/2022/1/202/1	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 Date of start of testing

: 26.04.2022 : 27.04.2022

Date of end of testing GPS Coordinates of the Location

: 08.05.2022 : 24°19'00.6"N 79°58'33.9"E

Details of Sample

: Surface Water, Pond Near Puraina Village

Sample collected by

: SCS Representative

	Results	IS - 10500:2012		Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Table 1: Organoleptic and	Physical Parameter	s			
Temperature, °C	30.3	2		APHA (23rd Edition) 2550B	
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B	
Odour	Agreeable	Agreeable	Agreeable		
Taste	Agreeable	Agreeable	Agreeable	1	
pH	6.65	6.5 - 8.5	No Relaxation		
Turbidity, NTU	1.26	1	5	APHA (23rd Edition) 2130	
Total Solids	202 Mg/L	-	-		
Total Suspended Solids	7 Mg/L			APHA (23rd Edition) 2540 B	
Total Dissolved Solids	195 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 D APHA (23rd Edition) 2540 C	
Electrical Conductivity	276 μS/cm	-	2,000 Wg/L	APHA (23rd Edition) 2510B	
Table 2: General Paramete	rs Concerning Subs	stances Undesirab	le in Excess Amounts	AFTIA (23rd Edition) 2510B	
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L		
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation		
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	Data of Designation 24 04 0000	
Report No. SCS/JKCL/W/20220421/79(2/4)	Date of Registration: 21.04.2022	
	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 Date of start of testing

26.04.2022 : 27.04.2022

Date of end of testing GPS Coordinates of the Location

: 08.05.2022 : 24°19'00.6"N

Details of Sample

79°58'33.9"E : 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	1	15 111 212	THE TIA (2514 Edition) 3111B	
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	-	- 1.0 resunation	APHA (23rd Edition) 4500 PC	
Sodium as Na	11.43 Mg/L		_	APHA (23rd Edition) 3500 B	
Potassium as K	7.03 Mg/L	-		APHA (23rd Edition) 3500 B	

Per pro SCS Enviro Services Pvt. Ltd.,

Deleul 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

Camel ID N. OGGETTIES	
Sample ID No.: SCS/W/20220421/79	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/79(3/4)	
1	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 Date of start of testing : 26.04.2022 27.04.2022

Date of end of testing

08.05.2022 24°19'00.6"N

:

GPS Coordinates of the : Location

79°58'33.9"E

Details of Sample Sample submitted by

: Surface Water, Pond Near Puraina Village

: SCS Representative

-	Results	IS - 10500:2012		Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Pesticides Residues	-		miterate source		
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-НСН	< 0.01 µg / L	8	0.01 μg / L	USEPA Method No. 508	
β-НСН	< 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	
Chlorphyrifos	< 1.0 µg / L			USEPA Method No. 525.2 & 8141A	
δ-НСН	< 0.04 µg / L			USEPA Method No. 508	
2,4 Dichlorophenoxyacetic acid	< 1.0 µg / L			USEPA Method No. 515.1	
DDT (o, p and p, p isomers of DDT, DDE and DDD	< 0.10 μg / L	1 / I		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	
ү-НСН	< 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			USEPA Method No. 8141A	
Methyl Parathion	< 0.10 µg / L			USEPA Method No. 8141A	
Monocrotophos	< 0.10 µg / L			USEPA Method No. 8141A	
Phorate	< 0.10 µg / L			USEPA Method No. 8141A	
Total poly Aromatic Hydrocarbon (PHAs)	< 0.0001 Mg / L			APHA (23rd Edition) 6440	

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar (Technical Manager)

JAIPUR 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/20220421/79	D. AD.
	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 Date of end of testing

: 27.04.2022 : 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

	Results	IS -	Protocol	
Parameter		Requirement (Acceptable Limit) Requirement permissible Limit in absence of alternate sour		
Bacteriological Quality	of Water			
Total Coliform	28 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar

(Technical Manager) Authorised Signatory

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