

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/AN/20220421/42-44	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AN/20220421/42-44	Date of Registration: 21.04.2022
	Date of Report: 08.05.2022

### AMBIENT NOISE MONITORING REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

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

21.04.2022 21.04.2022 21.04.2022

Type of Industry Parameter required

Cement Industry Ambient Noise

RESULTS

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

Per pro SCS Enviro Services Pvt. Ltd.,

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



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

Sample ID No.: SCS/AN/20220421/49-51	Data of Designation, 21 04 2022
Report No. SCS/JKCL/AN/20220421/49-51	Date of Registration: 21.04.2022
110p011110100001011CL/A11/20220421/49-51	Date of Report: 08.05.2022

### AMBIENT NOISE MONITORING REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Monitoring Date of start of testing

: 22.04.2022 : 22.04.2022

Date of end of testing Type of Industry Parameter required

: 22.04.2022 : Cement Industry : Ambient Noise

RESULTS

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

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

Date of Registration: 21.04.2022
Date of Report: 08.05.2022

### AMBIENT NOISE MONITORING REPORT

Name of Client

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

Address of Client

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

Date of Monitoring Date of start of testing

: 23.04.2022

Date of end of testing

: 23.04.2022 : 23.04.2022

Type of Industry Parameter required

: Cement Industry : Ambient Noise

RESULTS

Name of Location	Day Time Results dB (A)	Day Time Standard as per EP Act dB (A)	Night Time Results dB (A)	Night Time Standard as per EP Act dB (A)
Near Main Gate	62.4	75	51.9	70
Near CCR Building	58.7	75	48.8	70
Koni - Semariya Mines,			10.0	70
Village: Boda				
Near house of Tirj Prasad				
Tiwari S/o Shri Neni Lal	51.3	55	42.4	45
Tiwari, Village & Post: Boda,			12.1	43
Tehsil: Semariya, Dist.:				
Panna (M.P.)				
Near house of Rajendra				
Kumar Gupta S/o Shri				
Jaganath Gupta, Village, Post	54.7	55	44.1	45
and Tehsil: Semariya, Dist.:			77.1	43
Panna (M.P.)				
Near house of Prem Singh				
S/o Shri Khilavan Singh,				
Village & Post: Pagra, Tehsil:	51.2	55	42.9	45
Amanganj, Dist.: Panna			72.7	43
(M.P.)				

Per pro SCS Enviro Services Pvt. Ltd.,

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

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TC-6960

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

Sample ID No.: SCS/AAQ/20220421/63	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/63	Date of Report: 08.05,2022
	Date of Report: 08.05.2022

### FUGITIVE EMISSION MONITORING REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

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

: 25.04.2022 : 28.04.2022 : 08.05.2022

Duration of sampling Type of Industry

8 Hrs.Cement Industry

Ambient Temperature

40.3°C

Name of Location

Near Stacker and Reclaimer Area

Parameter required

SPM

RESULTS

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

Per pro SCS Enviro Services.Pvt. Ltd.,

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

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

Committee to Management of the Committee	
Sample ID No.: SCS/AAQ/20220421/64	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/64	
==-P0211101 D05/0110B/RAQ/20220421/04	Date of Report: 08.05.2022

### FUGITIVE EMISSION MONITORING REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Monitoring Date of start of testing : 28.04.2022

25.04.2022

Date of end of testing

: 08.05.2022

Duration of sampling Type of Industry

: 8 Hrs.

Ambient Temperature

: Cement Industry 40.1°C

Name of Location

Near CCR Building

Parameter required

SPM

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RESULTS

Observed Value	Limit as per EP Act 1986	Protocol
$196.4  \mu g  /  m^3$		IS 5182 (Part 4)
	CONTRACTOR OF THE PARTY OF THE	Observed Value Limit as per EP Act 1986 196.4 μg / m³ 600 μg / m³

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. 5788(E) Dated 15.11.2018 Valid upto 14.11.2023 ISO-4001:2015 CERTIFIED LABORATORY ISO-4001:2015 CERTIFIED LABORATORY ISO-4001:2018 CERTIFIED LABORATORY

Samula ID No. COOL LO MARGO COLLEGE	
Sample ID No.: SCS/AAQ/20220421/65	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/65	
	Date of Report: 08.05.2022

### FUGITIVE EMISSION MONITORING REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Monitoring Date of start of testing : 28.04.2022 Date of end of testing

25.04.2022 : 08.05.2022

Duration of sampling

: 8 Hrs.

Type of Industry

: Cement Industry

Ambient Temperature : 40.3°C

Name of Location

: Near Clinker Silo Area

Parameter required

: SPM

RESULTS

Parameter	Observed Value	Limit as per EP Act 1986	Protocol
Suspended Particulate Matter (SPM)	463.7 µg/m³		IS 5182 (Part 4)

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar (Technical Manager)

Authorised Signatory



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Sample ID No.: SCS/AAQ/20220421/66	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/66	
2,20220121,00	Date of Report: 08.05.2022

### FUGITIVE EMISSION MONITORING REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Monitoring Date of start of testing

26.04.2022

Date of end of testing

28.04.2022 08.05.2022

Duration of sampling

8 Hrs.

Type of Industry

Cement Industry

Ambient Temperature

38.3°C

Name of Location

Near Packing Plant Area

Parameter required

SPM

RESULTS

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

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar

(Technical Manager) Authorised Signatory



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TC-6960 MoEF&CC RECOGNIZED LABORATORY vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023 ISO-3001:2015 CERTIFIED LABORATORY ISO-45001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

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Sample ID No.: SCS/AAQ/20220421/39 Report No. SCS/JKCL/AAQ/20220421/39	Date of Registration: 21.04.2022
110 SCS/01CL/AAQ/20220421/39	Date of Report: 08.05.2022

### AMBIENT AIR QUALITY MONITORING REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Monitoring Date of start of testing 21.04.2022 27.04.2022

Date of end of testing Duration of sampling

: 08.05.2022 24 Hrs.

Type of Industry GPS Coordinates of the Location

Cement Industry : 24°19'47.6"N

Ambient Temperature : 39.2°C

79°58'37.2"E

Name of Location

Near Security Barrack

Parameter required

: PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO

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

Per pro SCS Enviro Services Pvt. Ltd.,

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

Sample ID No.: SCS/AAQ/20220421/40	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/40	Date of Report: 08.05.2022
	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 : 21.04.2022 27.04.2022

Date of end of testing Duration of sampling

08.05.2022

Type of Industry

24 Hrs. Cement Industry

GPS Coordinates of the Location

24°19'27.7"N 75°38′18.3″E

Ambient Temperature

39.5°C

Name of Location

Near Zero Point

Parameter required

PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO

RESULTS

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

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar

(Technical Manager) Authorised Signatory

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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-44001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/AAQ/20220421/41	
	Date of Registration: 21.04.2022
Report No. SCS/JKCL/AAQ/20220421/41	Date of Report: 08.05,2022

### AMBIENT AIR QUALITY MONITORING REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Monitoring Date of start of testing

21.04.2022

Date of end of testing Duration of sampling

27.04.2022 08.05.2022

Type of Industry

24 Hrs. Cement Industry

GPS Coordinates of the Location

24°19'18.5"N 79°58′24.2″E

Ambient Temperature

39.8°C

Name of Location

Near Guest House

Parameter required

: PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO

RESULTS

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

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar (Technical Manager)

Authorised Signatory

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TC-6960

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

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

### AMBIENT AIR QUALITY MONITORING REPORT

Name of Client

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

Address of Client

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

Date of Monitoring : 25.04.2022 Date of start of testing : 27.04.2022

: 25.04.2022 : 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°19'49.2"N 79°57'50.6"E

the Location Ambient Temperature

79°57′50.0 : 40.4°C

Name of Location Parameter required

Behind Packing PlantPM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO

RESULTS

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

Per pro SCS Enviro Services Pvt. Ltd.,

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

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- · 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

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

### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Sample Receipt Date of start of testing

26.04.2022

Date of end of testing

27.04.2022 08.05.2022 24°19'27.0"N

GPS Coordinates of the Location

79°57'44.3"E

Details of Sample Sample collected by

Borewell Zero Point : SCS Representative

	Results	IS - 1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and I	Physical Parameter	s	and source	
Temperature	29.8°C	-		APHA (23rd Edition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
рН	6.68	6.5 - 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	0.21	1	5	APHA (23rd Edition) 2130
Total Solids	636.00 Mg/L	_	-	APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	633.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	925 μS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parameter	rs Concerning Subs	stances Undesirab	le in Excess Amounts	(2010 201001) 20100
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rd Edition) 3111D
Ammonia (as total ammonia-N)	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rd Edition) 4500B-B
Calcium as Ca	104.00 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	21.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	0.88 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	26.24 Mg/L	30 Mg/L	100 Mg/L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rd Edition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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/20220421/71	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/71(2/4)	
100 01 110. SCS/3RCL/ W/20220421//1(2/4)	Date of Report: 08.05.2022

### TEST REPORT

Name of Client M/S. JAYKAYCEM (CENTRAL) LTD.,

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

Date of Sample Receipt 26.04.2022 Date of start of testing : 27.04.2022 Date of end of testing : 08.05.2022 GPS Coordinates of the Location : 24°19'27.0"N

79°57'44.3"E

Details of Sample : Borewell Zero Point Sample collected by SCS Representative

	Results	IS - 10	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	17.65 Mg/L	45 Mg/L	No relaxation	APHA (23rd Edition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-		APHA (23rd Edition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	<u>u</u>	-	APHA (23rd Edition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rd Edition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rd Edition) 3114B
Sulphate as SO <sub>4</sub>	58.24 Mg/L	200 Mg/L	400 Mg/L	APHA (23rd Edition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	380.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2320
Total Hardness as CaCO <sub>3</sub>	368.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rd Edition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rd Edition) 3111B
Table 3: Parameters conta	ining Toxic Substan	ces		(200 2000) 31112
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg/L	No relaxation	APHA (23rd Edition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rd Edition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg/L	No relaxation	APHA (23rd Edition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg/L	No relaxation	APHA (23rd Edition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg/L	0.05 Mg/L	APHA (23rd Edition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rd Edition) 3111B
Total Phosphate	< 0.50 Mg/L	-		APHA (23rd Edition) 4500 PC
Sodium as Na	22.37 Mg/L	-	-	APHA (23rd Edition) 3500 B
Potassium as K	1.14 Mg/L	-	_	APHA (23rd Edition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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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/20220421/71	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/71(3/4)	Date of Report: 08.05.2022
	Date of Report. 08.03.2022

#### 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

Date of end of testing

: 27.04.2022 : 08.05.2022 GPS Coordinates of the : 24°19'27.0"N

Location

79°57'44.3"E

Details of Sample Sample submitted by : Borewell Zero Point : 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		0.04 μg/L	USEPA Method No. 508
Butachlor	< 10.0 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 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	0	3 μg / L	USEPA Method No. 1657A
γ-НСН	< 0.10 μg / L	v	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/		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/20220421/71	Date of Registration: 21.04.2022	
Report No. SCS/JKCL/W/20220421/71(4/4)		
	Date of Report: 08.05.2022	

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address Client

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

Date of Sampling Date of start of testing

26.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the :

08.05.2022 24°19'27.0"N

Location

79°57'44.3"E Borewell Zero Point

Details of Sample Sample submitted by

SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar (Technical Manager)

Authorised Signatory

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

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

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

### TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,

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

Date of Sample Receipt : 26.04.2022 Date of start of testing : 27.04.2022 Date of end of testing : 08.05.2022 GPS Coordinates of the Location : 24°19'36.4"N

79°58'34.5"E

Details of Sample : Borewell Near Main Gate Sample collected by : SCS Representative

	Results	IS - 10	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and I	Physical Parameter	s		
Temperature	30.6°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)
pH	7.05	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500- H +
Turbidity, NTU	0.17	1	5	APHA (23rd Edition) 2130
Total Solids	561.00 Mg/L	-		APHA (23rd Edition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rd Edition) 2540 D
Total Dissolved Solids	559.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rd Edition) 2540 C
Electrical Conductivity	874 μS/cm	_	-	APHA (23rd Edition) 2510B
Table 2: General Parameter	rs Concerning Subs	stances Undesirab	le in Excess Amounts	(2010 201001) 20100
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rd Edition) 3111D
Ammonia (as total ammonia-N)	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rd Edition) 4500B-B
Calcium as Ca	70.40 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	15.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rd Edition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rd Edition) 3111B
Fluoride as F	0.86 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rd Edition) 4500 F D
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	30.13 Mg/L	30 Mg/L	100 Mg/L	APHA (23rd Edition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

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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/20220421/72	
	Date of Registration: 21.04.20
Report No. SCS/JKCL/W/20220421/72(2/4)	Date of Report: 08.05.2022

### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Sample Receipt 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°19'36.4"N 79°58'34.5"E

Details of Sample Sample collected by

Borewell Near Main Gate SCS Representative

Results IS-10500:2012 Protocol Parameter Requirement Permissible Limit (Acceptable in absence of Limit) alternate source Nitrate as NO<sub>3</sub> 22.68 Mg/L 45 Mg/L No relaxation APHA (23rd Edition) 4500 NO<sub>3</sub>-B Nitrite as NO<sub>2</sub> < 0.01 Mg/L APHA (23rd Edition) 4500 NO2 Oil & Grease < 0.2 Mg/L APHA (23rd Edition) 5520B Phenolic Compounds as < 0.001 Mg/L 0.001 Mg/L 0.002 Mg/L APHA (23rd Edition) 5530C C<sub>6</sub>H<sub>5</sub>OH Selenium as Se < 0.01 Mg/L 0.01 Mg/L No relaxation APHA (23rd Edition) 3114B Sulphate as SO<sub>4</sub> 11.75 Mg/L 200 Mg/L 400 Mg/L APHA (23rd Edition) 4500 E Sulphide as S < 0.20 Mg/L 0.05 Mg/L No relaxation APHA (23rd Edition) 4500 E Total Alkalinity as CaCO<sub>3</sub> 380.00 Mg/L 200 Mg/L 600 Mg/L APHA (23rd Edition) 2320 Total Hardness as CaCO<sub>3</sub> 300.00 Mg/L 200 Mg/L 600 Mg/L APHA (23rd Edition) 2340 C Zinc as Zn < 0.01 Mg/L15 Mg/L 5 Mg/L APHA (23rd Edition) 3111B Table 3: Parameters containing Toxic Substances < 0.003 Mg/L Cadmium as Cd 0.003 Mg/L No relaxation APHA (23rd Edition) 3111B Cyanide 0.05 Mg/L < 0.01 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

Per pro SCS Enviro Services Pvt. Ltd.,

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

Total Chromium as Cr

Total Phosphate

Sodium as Na

Potassium as K

JAIPUR

< 0.01 Mg/L

< 0.50 Mg/L

25.95 Mg/L

1.12 Mg/L

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0.05 Mg/L

-

No relaxation

APHA (23rd Edition) 3111B

APHA (23rd Edition) 4500 PC

APHA (23rd Edition) 3500 B

APHA (23rd Edition) 3500 B

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

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

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

### **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

Date of start of testing

Date of end of testing

: 27.04.2022 : 08.05.2022

GPS Coordinates of the : Location

24°19'36.4"N 79°58'34.5"E

Details of Sample Sample submitted by

: Borewell Near Main Gate: SCS Representative

	Results	Requirement (Acceptable Limit)  Requirement in absence of alternate source		Protocol
Parameter				
Pesticides Residues				<u> </u>
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		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
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		1 μg/L	USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2 μg / L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	< 0.0001 Mg / L	0.0001 Mg /	L No relaxation	APHA (23rd Edition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

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

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

### TEST REPORT

Name of Client

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

Address Client

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

Date of Sampling Date of start of testing 26.04.2022

Date of end of testing

27.04.2022 : 08.05.2022

GPS Coordinates of the : 24°19'36.4"N Location

79°58'34.5"E

Details of Sample

: Borewell Near Main Gate

Sample submitted by : SCS Representative

	Results	IS -	Protocol	
Parameter  Parameter	S.W. Ann	Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Bacteriological Quality of	or water			
Total Coliform	3 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar (Technical Manager)

**Authorised Signatory** 

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.

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

Sample ID No.: SCS/W/20220421/100	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/100(1/4)	Date of Report: 14.05.2022
	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 27.04.2022

Date of start of testing Date of end of testing

14.05.2022

GPS Coordinates of the :

24°16'00.6"N 79°56'10.7"E

Details of Sample

Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri

Nandi Chaudhary, Village & Post: Umri, Tehsil: Simariya, Dist.: Panna

Sample collected by

SCS Representative

	Results	IS-1	0500:2012	Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	The state of the s	
Table 1: Organoleptic and	d Physical Parameter	S			
Temperature	31.2℃	-	-	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	6.64	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H <sup>+</sup>	
Turbidity, NTU	0.17	1	5	APHA (23rdEdition) 2130	
Total Solids	548.00 Mg/L	-	-	APHA (23rdEdition) 2540 B	
Total Suspended Solids	< 5.00 Mg/L		-	APHA (23rdEdition) 2540 D	
Total Dissolved Solids	548.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C	
Electrical Conductivity	784 μS/cm	-		APHA (23rd Edition) 2510B	
Table 2: General 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	72.00 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B	
Chloride as Cl	45.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B	
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B	
Fluoride as F	0.96 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D	
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B	
Magnesium as Mg	27.22 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B	
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B	

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

24.04.2022 27.04.2022

Date of start of testing Date of end of testing

: 14.05.2022

GPS Coordinates of the : 24°16'00.6"N

Location

79°56'10.7"E

Details of Sample

Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri

Nandi Chaudhary, Village & Post: Umri, Tehsil: Simariya, Dist.: Panna

Sample collected by

: SCS Representative

×22.	Results	IS - 1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	24.67 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> ·B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-		APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	53.11 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	284.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	292.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	
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	_		APHA (23rdEdition) 4500 PC
Sodium as Na	37.12 Mg/L	-	_	APHA (23rdEdition) 3500 B
Potassium as K	2.66 Mg/L	-	-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

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

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

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Sample Receipt Date of start of testing

24.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the :

14.05.2022 24°16'00.6"N

Location

79°56'10.7"E

Details of Sample

Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri

Nandi Chaudhary, Village & Post: Umri, Tehsil: Simariya, Dist.: Panna

Sample collected by : SCS Representative

	Results	IS –	10500:2012	Protocol	
Parameter		Requirement (Acceptable in absence of 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	
а-НСН	< 0.01 µg / L		0.01 μg/L	USEPA Method No. 508	
β-НСН	< 0.04 µg / L	2)	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			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			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	0.0001 Mg/		APHA (23rdEdition) 6440	

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

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

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

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

Village: Harduaken, Tehsil: Amangani, 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°16'00.6"N 79°56'10.7"E

Details of Sample

Water sample collected from Borewell near house of Bablu Chaudhary S/o Shri

Nandi Chaudhary, Village & Post: Umri, Tehsil: Simariya, Dist.: Panna

Sample collected by

: SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,

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

Authorised Signatory

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

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

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

Date of start of testing Date of end of testing

25.04.2022 27.04.2022 14.05.2022

GPS Coordinates of the Location

24°20'30.7"N 79°56'14.1"E

Details of Sample

Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna

	Results	IS - 1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	l Physical Parameter	s		
Temperature	29.6°C	_		APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	7.87	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	1.54	1	5	APHA (23rdEdition) 2130
Total Solids	1,698.00 Mg/L		-	APHA (23rdEdition) 2540 B
Total Suspended Solids	8.00 Mg/L	1	_	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,690.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,540 μS/cm		-	APHA (23rd Edition) 2510B
Table 2: General Paramet	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	164.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	227.93 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.43 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.10 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	43.74 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

TC-6960 MoEF&CC RECORIZED LABORATORY vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023 ISO-9001:2015 CERTIFIED LABORATORY ISO-45010:2015 CERTIFIED LABORATORY ISO-45010:2018 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

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

#### TEST REPORT

Name of Client Address of Client M/S. JAYKAYCEM (CENTRAL) LTD.,

Date of Sample Receipt

Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.) 25.04.2022

Date of start of testing Date of end of testing

27.04.2022 14.05.2022

GPS Coordinates of : the Location

24°20'30.7"N 79°56'14.1"E

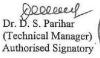
Details of Sample

Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna

Sample collected by SCS Representative

-	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	31.09 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> ·B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-		APHA (23rdEdition) 4500 NO2
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	362.20 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	572.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	592.00 Mg/L	200 Mg/L	600 Mg/L	The state of the s
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	1
Table 3: Parameters containing	Toxic Substance	s	10 111 2	7 Tiri (25idEdition) 5111B
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	278.93 Mg/L	-		APHA (23rdEdition) 3500 B
Potassium as K	6.57 Mg/L	_		APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,





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

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

Sample ID No.: SCS/W/20220421/88	Data of Pagistratian 21 04 2022
Report No. SCS/JKCL/W/20220421/88(3/4)	Date of Registration: 21.04.2022
12.00(0,1)	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 :
Date of start of testing :
Date of end of testing :

25.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the Location

14.05.2022 24°20'30.7"N 79°56'14.1"E

the Location 79°56'1
Details of Sample : Water :

Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o

Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna

Sample collected by : SCS Representative

	Results	IS - 10500:2012		Protocol
arameter		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	8	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	is.	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.,

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.
- 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/20220 424 /20	
Sample ID No.: SCS/W/20220421/88	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/88(4/4)	
	Date of Report: 14.05.2022

### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

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

25.04.2022 27.04.2022 14.05.2022

GPS Coordinates of : the Location

24°20'30.7"N 79°56'14.1"E

Details of Sample

Water sample collected from Govt. Handpump near House of Brajesh Sharma S/o Shri Santosh Sharma, Village: Saptai, Post: Kamtana, Tehsil: Amanganj, Dist.: Panna

Sample collected by : SCS Representative

	Results	IS -	Protocol		
Parameter		Requirement (Acceptable Limit) Permissible Limit in absence of alternate source		1100001	
Bacteriological Quality of	f Water		·		
Total Coliform	12 CFU	Shall not be	detectable in any 100ml sample	IS 15185	
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185	

Per pro SCS Enviro Services Pvt. Ltd.,

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

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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/20220421/89	Date of Registration: 21.04,2022
Report No. SCS/JKCL/W/20220421/89(1/4)	Date of Report: 14.05.2022

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Sample Receipt Date of start of testing

25.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the :

14.05.2022 24°22'54.2"N

Location

79°57'30.0"E

Details of Sample

Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash

Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna

Sample collected by

: SCS Representative

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic an	d Physical Parameter	s		
Temperature	30.2°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	7.95	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.17	1	5	APHA (23rdEdition) 2130
Total Solids	1,934.00 Mg/L		150	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-		APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,930.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,860 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	0.03 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	171.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	371.92 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.39 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.12 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.,

Dooo eeg 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 ISC-9001:2015 CERTIFIED LABORATORY ISC-44001:2015 CERTIFIED LABORATORY ISC-45001:2018 CERTIFIED LABORATORY

0 1 20 22	
Sample ID No.: SCS/W/20220421/89	Date of Registration: 21.04,2022
Report No. SCS/JKCL/W/20220421/89(2/4)	
	Date of Report: 14.05.2022

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

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

25.04.2022 27.04.2022 14.05.2022

GPS Coordinates of the : Location

24°22'54.2"N 79°57'30.0"E

Details of Sample

Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash

Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna

Sample collected by

: SCS Representative

	Results	IS - 1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	29.66 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO2
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	397.83 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	548.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	596.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	
Table 3: Parameters containing	Toxic Substances			1
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg/L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg/L	0.05 Mg/L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	340.92 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	28.68 Mg/L	-	-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,

(1)00 eces 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/20220421/89	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/89(3/4)	Date of Report: 14.05.2022

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Sample Receipt
Date of start of testing

25.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the

14.05.2022 24°22'54.2"N 79°57'30.0"E

Location
Details of Sample

Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash

Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna

Sample collected by

SCS Representative

	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 & 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	lug/I		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	10		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

authorised Signatory

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

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

Sample ID No.: SCS/W/20220421/89	Dota of Desistantia Of Of Ococo
Report No. SCS/JKCL/W/20220421/89(4/4)	Date of Registration: 21.04.2022
200 por 110. BES/BRCE/ W/20220421/09(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 :
GPS Coordinates of the :

14.05.2022 24°22'54.2"N

Location

79°57'30.0"E

Details of Sample

Water sample collected from Borewell near House of Rakesh Garg S/o Shri Prakash

Garg, Village & Post: Kamtana, Tehsil: Amanganj, Dist.: Panna

Sample collected by

SCS Representative

	Results	IS - 10500:2012		Protocol	
Parameter Parameter Over 1/4	CAN .	Requirement (Acceptable Limit) Permissible Limit in absence of alternate source			
Bacteriological Quality o	i water				
Total Coliform	20 CFU	Shall not be detectable in any 100ml sample		IS 15185	
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185	

Per pro SCS Enviro Services Pvt. Ltd.,

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

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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-4001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

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

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Sample Receipt Date of start of testing 25.04.2022 27.04.2022

Date of end of testing :
GPS Coordinates of the :

14.05.2022 24°18'31.1"N 79°58'24.4"E

Location
Details of Sample

Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri

Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna

Sample collected by

SCS Representative

Parameter	Results	IS-1	0500:2012	Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	d Physical Parameter	'S		
Temperature	31.1 °C	_	-	APHA (23rdEdition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	
pH	6.85	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.13	1	5	APHA (23rdEdition) 2130
Total Solids	790.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	_	APHA (23rdEdition) 2540 D
Total Dissolved Solids	788.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,173 μS/cm		-	APHA (23rd Edition) 2510B
Table 2: General 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	92.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	117.96 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl- B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.60 Mg/L		1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	53.46 Mg/L		100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 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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### SCS ENVIRO SERVICES PRIVATE LIMITED



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

I C-6960

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

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

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Sample Receipt Date of start of testing 25.04.2022 27.04.2022

Date of end of testing
GPS Coordinates of the

14.05.2022 24°18'31.1"N 79°58'24.4"E

Location Details of Sample

Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri

Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna

Sample collected by : SCS Representative

	Results	IS - 1	0500:2012	Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Nitrate as NO <sub>3</sub>	44.35 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> ·B	
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO2	
Oil & Grease	< 0.2 Mg/L	-		APHA (23rdEdition) 5520B	
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C	
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C	
Sulphate as SO <sub>4</sub>	63.81 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E	
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E	
Total Alkalinity as CaCO <sub>3</sub>	356.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320	
Total Hardness as CaCO <sub>3</sub>	452.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C	
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B	
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	56.29 Mg/L	-	-	APHA (23rdEdition) 3500 B	
Potassium as K	3.70 Mg/L	-		APHA (23rdEdition) 3500 B	

Per pro SCS Enviro Services Pvt. Ltd.,

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



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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

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

25.04.2022 27.04.2022

Date of end of testing : GPS Coordinates of the :

14.05.2022 24°18'31.1"N 79°58'24.4"E

Location Details of Sample

Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri

Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna

Sample collected by : SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				
Alachlor	< 0.10 µg / L	ii.	20μg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L	e 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			USEPA Method No. 525.2 & 8141A
δ-НСН	< 0.04 µg / L			USEPA Method No. 508
2,4 Dichlorophenoxyacetic acid	< 1.0 μg / L	10	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			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/I			APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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### SCS

### SCS ENVIRO SERVICES PRIVATE LIMITED

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

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

Sample ID No - CCC/88//20220424/00	
Sample ID No.: SCS/W/20220421/90	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/90(4/4)	
	Date of Report: 14.05.2022

### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Sample Receipt Date of start of testing

25.04.2022

Date of start of testing
Date of end of testing

27.04.2022 14.05.2022

GPS Coordinates of the Location

24°18'31.1"N 79°58'24.4"E

Details of Sample

Water sample collected from Govt Handpump near House of Giriraj Garg S/o Shri

Rajaram Garg, Village & Post: Puraina, Tehsil: Amanganj, Dist.: Panna

Sample collected by : SCS Representative

	Results	Requirement (Acceptable Limit)  Requirement (Acceptable Limit)  Requirement (Acceptable Limit)		Protocol
Parameter				
Bacteriological Quality of	f Water			
Total Coliform	7 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.,

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 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-450101:2018 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

25.04.2022 27.04.2022 14.05.2022

Date of end of testing GPS Coordinates of the

24°21'18.5"N 80°00'06.3"E

Location Details of Sample

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

Pagra, Tehsil: Amanganj, Dist.: Panna

Sample collected by

SCS Representative

Parameter	Results	IS-1	0500:2012	Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	d Physical Parameter	s		
Temperature	29.3 ℃	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	8.11	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.78	1	5	APHA (23rdEdition) 2130
Total Solids	1,475.00 Mg/L	-		APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,472.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,120 μS/cm		-	APHA (23rd Edition) 2510B
Table 2: General Parame	ters Concerning Sub	stances Undesirab	le in Excess Amounts	i i
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	142.40 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	97.97 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.24 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.06 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	45.68 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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



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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-44001:2015 CERTIFIED LABORATORY ISO-45010:2018 CERTIFIED LABORATORY

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

### TEST REPORT

Name of Client

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

Address of Client

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

Date of Sample Receipt Date of start of testing

25.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the

14.05.2022 24°21'18.5"N

Location Details of Sample

80°00'06.3"E Water sample collected from Govt Handpump near Govt. School, Village & Post:

Pagra, 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	
Nitrate as NO <sub>3</sub>	4.74 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> ·B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO2
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	348.80 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	598.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO3	544.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
Table 3: Parameters containing	Toxic Substance	s		
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg/L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg/L	0.05 Mg/L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	220.37 Mg/L	-		APHA (23rdEdition) 3500 B
Potassium as K	12.75 Mg/L	-	-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,



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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/20220421/91	Date of Registration: 21.04,2022
Report No. SCS/JKCL/W/20220421/91(3/4)	Date of Report: 14.05.2022
	Date of Report: 14

### 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°21'18.5"N 80°00'06.3"E

Details of Sample

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

Pagra, Tehsil: Amanganj, Dist.: Panna

Sample collected by

: SCS Representative

	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			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	lug/I		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			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/		APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,



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

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

Sample ID No.: SCS/W/20220421/91	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/91(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 GPS Coordinates of the

14.05.2022 24°21'18.5"N 80°00'06.3"E

Location Details of Sample

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

Pagra, Tehsil: Amanganj, Dist.: Panna

Sample collected by

SCS Representative

	Results	IS-	Protocol		
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	

Per pro SCS Enviro Services Pvt. Ltd.,



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

MoEF&CC RECOGNIZED LABORATORY vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023 ISO-3001:2015 CERTIFED LABORATORY ISO-14001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

G T TO TE GOODELINE	
Sample ID No.: SCS/W/20220421/92	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/92(1/4)	
11/2020(21/22(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

24.04.2022 27.04.2022 14.05.2022

Date of end of testing GPS Coordinates of the Location

24°24'16.2"N 79°54'39.4"E

Details of Sample

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

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

Sample collected by

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	32.0°C	-		APHA (23rdEdition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
рH	6.89	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.19	1	5	APHA (23rdEdition) 2130
Total Solids	223.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L		-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	223.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	355 µS/cm	-		APHA (23rd Edition) 2510B
Table 2: General Parame	ters Concerning Subs	stances Undesirab	le in Excess Amounts	THE THE CASE DURING TO DE
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	35.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	27.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.31 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.02 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	9.72 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

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MoEF&CC RECOGNIZED LABORATORY vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023 ISO-9001:2015 CERTIFIED LABORATORY ISO-44001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

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

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

### TEST REPORT

Name of Client M/S. JAYKAYCEM (CENTRAL) LTD.,

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

Date of Sample Receipt 24.04.2022 Date of start of testing 27.04.2022 Date of end of testing 14.05.2022 GPS Coordinates of the Location 24°24'16.2"N 79°54'39.4"E

Water sample collected from Govt Borewell near Govt. School, Village: Details of Sample Udla, Post: Sunwani Kalan, Tehsil: Amanganj, Dist.: Panna

Sample collected by

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	10.98 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	_		APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	14	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	23.98 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	100.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	128.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
Table 3: Parameters containing	Toxic Substance	s		
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg/L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg/L	0.05 Mg/L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-		APHA (23rdEdition) 4500 PC
Sodium as Na	10.81 Mg/L	(a)	-	APHA (23rdEdition) 3500 B
Potassium as K	3.52 Mg/L	-	12	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,



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

ISO-9001:2015 CERTIFIED LABORATORY 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

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°24'16.2"N 79°54'39.4"E

Details of Sample

Water sample collected from Govt Borewell near Govt. School, Village: Udla,

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

Sample submitted by

: SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				
Alachlor	< 0.10 µg / L		20μg / L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2μg / L	USEPA Method No. 525.2 & 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			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	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	88	190µg/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/		APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,



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

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

Sample ID No.: SCS/W/20220421/92	Data of Dariet di at at acco
Report No. SCS/JKCL/W/20220421/92(4/4)	Date of Registration: 21.04,2022
1 1 1 2 2 2 3 1 2 1 7 2 (1) 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 Date of start of testing

: 24.04.2022 : 27.04.2022

Date of end of testing

14.05.2022

GPS Coordinates of the : Location

24°24'16.2"N 79°54'39.4"E

Details of Sample

Water sample collected from Govt Borewell near Govt. School, Village: Udla,

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

Sample submitted by

: SCS Representative

	Results	IS - 10500:2012		Protocol	
Parameter		Requirement (Acceptable Limit) Permissible Limit in absence of alternate source			
Bacteriological Quality o	t Water	Waste Table 1971 - Table 1971			
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

refer only to the tested arms I and I i I I

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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-44001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

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

#### 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

25.04.2022 27.04.2022 14.05.2022

GPS Coordinates of the Location

24°18'31.1"N 79°58'24.4"E

Details of Sample

Water sample collected from Govt Handpump near house of Madhya Singh S/o Shri Arth Singh Yadav, Village: Sotipura, Post: Sunwani Kalan,

Tehsil: Amanganj, Dist.: Panna

Sample collected by

: SCS Representative

	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	30.8°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	6.85	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.14	1	5	APHA (23rdEdition) 2130
Total Solids	491.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	491.00 Mg/L	500 Mg/L	2,000 Mg/L	
Electrical Conductivity	860 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	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	59.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	25.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	
Fluoride as F	0.65 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.03 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	37.91 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

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

I C-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-44001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

C. I TO Y. GOODS	
Sample ID No.: SCS/W/20220421/93	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/93(2/4)	
1 (1/2)	Date of Report: 14.05.2022

### TEST REPORT

Name of Client

Address of Client Date of Sample Receipt M/S. JAYKAYCEM (CENTRAL) LTD., Village: Harduaken, Tehsil: Amanganj, Dist: Panna (M.P.)

25.04.2022 27.04.2022

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

14.05.2022 24°18'31.1"N 79°58'24.4"E

Details of Sample

Water sample collected from Govt Handpump near house of Madhya Singh S/o Shri Arth Singh Yadav, Village: Sotipura, Post: Sunwani Kalan,

Tehsil: Amanganj, Dist.: Panna

Sample collected by

SCS Representative

	Results	IS - 1	0500:2012	Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Nitrate as NO <sub>3</sub>	21.41 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B	
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L		-	APHA (23rdEdition) 4500 NO <sub>2</sub>	
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B	
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C	
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C	
Sulphate as SO <sub>4</sub>	10.33 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E	
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E	
Total Alkalinity as CaCO <sub>3</sub>	320.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320	
Total Hardness as CaCO <sub>3</sub>	304.00 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			(2222)	
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	13.24 Mg/L	-	-	APHA (23rdEdition) 3500 B	
Potassium as K	1.86 Mg/L	-		APHA (23rdEdition) 3500 B	

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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/20220421/93	Data of Davistantian 21 04 2022
Report No. SCS/JKCL/W/20220421/93(3/4)	Date of Registration: 21.04.2022
1 11120220121173(314)	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 GPS Coordinates of the : Location

14.05.2022 24°18'31.1"N 79°58'24.4"E

Details of Sample

Water sample collected from Govt Handpump near house of Madhya Singh S/o Shri Arth Singh Yadav, Village: Sotipura, Post: Sunwani Kalan, Tehsil:

Amanganj, Dist.: Panna

Sample 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 & 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	1μg/L		USEPA Method No. 508
Endosulphane (α, β and Sulphate)	< 0.10 µg / L		0.4µg / L	USEPA Method No. 508
Ethion	< 0.10 µg / L		3μg / L	USEPA Method No. 1657A
γ-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.,

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

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address Client

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

Date of Sampling Date of start of testing 25.04.2022

Date of start of testing

Date of end of testing

27.04.2022 14.05.2022

GPS Coordinates of the : Location

24°18'31.1"N 79°58'24.4"E

Details of Sample

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

Shri Arth Singh Yadav, Village: Sotipura, Post: Sunwani Kalan, Tehsil:

Amanganj, Dist.: Panna

Sample submitted by

SCS Representative

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

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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

C I IN II CALL	
Sample ID No.: SCS/W/20220421/94	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/94(1/4)	
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 Date of start of testing

26.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the Location

14.05.2022 24°23'13.2"N 80°00'48.0"E

Details of Sample

Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna

SCS Representative

Parameter	Results	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and	d Physical Parameter	's		-
Temperature	31.0 °C	-		APHA (23rdEdition) 2550B
Color, Hazen Units	<1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
pH	7.98	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.21	1	5	APHA (23rdEdition) 2130
Total Solids	1,969.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,967.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	3,050 µS/cm	-	-	APHA (23rd Edition) 2510B
Table 2: General Parame		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		No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	169.60 Mg/L		200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	495.84 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.46 Mg/L		1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.08 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	40.82 Mg/L		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 Pyt. Ltd.

x)2000le Dr. D. S. Parihar (Technical Manager) Authorised Signatory

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JAIPUR

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-44001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

/W/20220421/94 Date of Registration: 21.04.2022
CL/W/20220421/94(2/4) Date of Report: 14.05.2022
Date of

#### 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 27.04.2022

Date of start of testing Date of end of testing

14.05.2022

GPS Coordinates of the Location

24°23'13.2"N

Details of Sample

80°00'48.0"E

Sample collected by

Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	42.09 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> ·B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L		-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	397.15 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	504.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	592.00 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	390.20 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	23.33 Mg/L		-	APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,





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

ISO-8001:2015 CERTIFIED LABORATORY ISO-14001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

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

#### TEST REPORT

Name of Client

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

Address of Client

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

Date of Sample Receipt Date of start of testing

26.04,2022 27.04.2022

Date of end of testing **GPS** 

: 14.05.2022 Coordinates of the : 24°23'13.2"N

Location

80°00'48.0"E

Details of Sample

Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna

Parameter	: SCS Repres	IS - 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues			unternate source	
Alachlor	< 0.10 µg / L		20μg/L	USEPA Method No. 525.2 & 507
Atrazine	< 0.10 µg / L		2μg/L	
Aldrin / Dieldrin	< 0.03 μg / L		0.03 μg / L	USEPA Method No. 525.2 & 8141A USEPA Method No. 508
α-НСН	< 0.01 µg / L		0.01 μg/L	USEPA Method No. 508 USEPA Method No. 508
β-НСН	< 0.04 µg / L		0.04µg/L	
Butachlor	< 10.0 μg/L		125μg/L	USEPA Method No. 508
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. 525.2 & 8141A
2,4 Dichlorophenoxyacetic acid	< 1.0 µg / L		30 μg / L	USEPA Method No. 508
DDT (o,p and p, p isomers of DDT, DDE and DDD	< 0.10 μg / L	30 μg / L 1μg / L		USEPA Method No. 515.1 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	$< 1.0  \mu g / L$		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.,



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

#### 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°23'13.2"N

Location
Details of Sample

80°00'48.0"E Water sample collected from Borewell near house of Bhagirath Sharma S/o Shri Bhagwan Sharma, Village: Hinauta, Post: Pagra, Tehsil: Amanganj, Dist.: Panna

Sample collected by

SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,

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

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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 ISO-45001:2018 CERTIFIED LABORATORY

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

#### TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,

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

Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the Location : 24°19'54.2"N

79°56'48.0"E

Details of Sample : Water sample collected from Govt Handpump near Govt school, Village:

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

Sample collected by : SCS Representative

	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	28.7 °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	6.55	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.67	1	5	APHA (23rdEdition) 2130
Total Solids	887.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	_		APHA (23rdEdition) 2540 D
Total Dissolved Solids	883.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	1,286 µS/cm	-	0=	APHA (23rd Edition) 2510B
Table 2: General Parame	ters Concerning Sub	stances Undesirab	le in Excess Amounts	(2010)
Aluminum as Al	< 0.01 Mg/L	0.03 Mg/L	0.2 Mg/L	APHA (23rdEdition) 3111D
Ammonia	< 0.2 Mg/L	0.5 Mg/L	No Relaxation	IS 3025 (Part 34)
Boron as B	< 0.1 Mg/L	0.5 Mg/L	1.0 Mg/L	APHA (23rdEdition) 4500B-B
Calcium as Ca	116.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	19.99 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.23 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.04 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	56.38 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,



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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 15.11.2013 Valid upto 14.11.2023
ISO-9001:2015 CERTIFIED LABORATORY
ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2016 CERTIFIED LABORATORY

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

### TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,

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

Date of Sample Receipt : 25.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the Location : 24°19'54.2"N

79°56'48.0"E

Details of Sample : Water sample collected from Govt Handpump near Govt school, Village:

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

Sample collected by : SCS Representative

	Results	IS – 1	0500:2012	Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	2.44 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L		-	APHA (23rdEdition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	335.31 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	308.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	524.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
Table 3: Parameters containing	Toxic Substance	s		
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg/L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg/L	0.05 Mg/L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	-	APHA (23rdEdition) 4500 PC
Sodium as Na	40.41 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	1.85 Mg/L			APHA (23rdEdition) 3500 B

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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 ID V COCCUT	
Sample ID No.: SCS/W/20220421/95	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/95(3/4)	
1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	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

Date of end of testing

: 27.04.2022 : 14.05.2022

GPS Location

Coordinates of the : 24°19'54.2"N 79°56'48.0"E

Details of Sample

Water sample collected from Govt Handpump near Govt school, Village:

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

Sample collected by

SCS Representative

	Results	IS - 10500:2012		Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Pesticides Residues			material de de de de de		
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	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			APHA (23rdEdition) 6440	

Per pro SCS Enviro Services Pvt. Ltd.,

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

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

Sample ID No.: SCS/W/20220421/95	Data of Donistration 21 04 2022
Report No. SCS/JKCL/W/20220421/95(4/4)	Date of Registration: 21.04.2022
122/75(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 Date of start of testing 25.04.2022

Date of end of testing

27.04.2022 14.05.2022

GPS Coordinates of the :

24°19'54.2"N

Location Details of Sample

79°56'48.0"E

Water sample collected from Govt Handpump near Govt school, Village: Purwa, Post: Puraina, Tehsil: Amanganj, Dist.: Panna

Sample collected by

: SCS Representative

_	Results	Requirement (Acceptable Limit)  Permissible Limit in absence of alternate source		Protocol	
Parameter  Bacteriological Quality o	£)Vz4zz				
Total Coliform	9 CFU	Shall not be detectable in any 100ml sample		IS 15185	
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185	

Per pro SCS Enviro Services Pvt. Ltd.,

Dr. D. S. Parihar (Technical Manager)

Authorised Signatory

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- 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 15.11.2019 Valid upto 14.11.2023
ISO-9001:2015 CERTIFIED LABORATORY
ISO-4401:2015 CERTIFIED LABORATORY
ISO-445001:2018 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

26.04.2022

Date of start of testing

: 27.04.2022 14.05.2022

Date of end of testing GPS Coordinates of the Location

24°25'32.3"N

Details of Sample

80°02'29.7"E : Water sample collected from Govt Borewell Near Water Works, Village:

Amanganj, Post & 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			
Temperature	29.4°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	8.06	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.18	1	5	APHA (23rdEdition) 2130
Total Solids	1,628.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L		-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,628.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,380 μS/cm		-	APHA (23rd Edition) 2510B
Table 2: General 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	145.60 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	201.94 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.05 Mg/L		1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.07 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	48.60 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

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

MoEF&CC RECORNIZED LABORATORY
vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023
ISO-9001:2015 CERTIFIED LABORATORY
ISO-45001:2016 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

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

26.04,2022 27.04.2022

Date of end of testing GPS Coordinates of the Location

: 14.05.2022 24°25'32.3"N

Details of Sample

80°02'29.7"E Water sample collected from Govt Borewell Near Water Works, Village:

Amanganj, Post & Tehsil: Amanganj, Dist.: Panna

Sample collected by

	Results	IS - 10500:2012		Protocol	
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source		
Nitrate as NO <sub>3</sub>	7.29 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B	
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>	
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B	
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C	
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C	
Sulphate as SO <sub>4</sub>	372.45 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 CaCO3	580.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320	
Total Hardness as CaCO3	564.00 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		(3.000)	
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	261.30 Mg/L		-	APHA (23rdEdition) 3500 B	
Potassium as K	10.16 Mg/L	-	-	APHA (23rdEdition) 3500 B	

Per pro SCS Enviro Services Pvt. Ltd.,

Decely 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/20220421/96	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/96 (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 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

GPS Coordinates of the : 24°25'32.3"N

14.05.2022

Location Details of Sample

80°02'29.7"E Water sample collected from Govt Borewell Near Water Works, Village:

Amanganj, Post & 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				
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 & 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		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			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			USEPA Method No. 8141A
Monocrotophos	< 0.10 µg / L			USEPA Method No. 8141A
Phorate	< 0.10 µg / L		2μg/L	USEPA Method No. 8141A
Total poly Aromatic Hydrocarbon (PHAs)	<0.0001 Mg / L			APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,



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

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

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

#### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address Client

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

Date of Sampling Date of start of testing 26.04.2022

Date of end of testing

: 27.04.2022 14.05.2022

GPS Coordinates of the : Location

24°25'32.3"N 80°02'29.7"E

Details of Sample

Water sample collected from Govt Borewell Near Water Works, Village:

Amanganj, Post & Tehsil: Amanganj, Dist.: Panna

Sample submitted by

: SCS Representative

	Results	Requirement (Acceptable Limit)  Permissible Limit in absence of alternate source		Protocol	
Parameter					
Bacteriological Quality of	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.,

( peoples 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 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

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

25.04.2022

Date of start of testing

27.04.2022

Date of end of testing

14.05.2022 24°16'36.7"N

GPS Coordinates of the Location

79°54'24.6"E

Details of Sample

Water sample collected from Borewell near house of Kallu Yadav S/o Shri

Gokul Yadav, Village: Simariya Garhi, Post & Tehsil: Simariya, Dist.: Panna

Sample 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	29.9°C	-	-	APHA (23rdEdition) 2550B
Color, Hazen Units	< 1	5	15	APHA (23rdEdition) 2120B
Odour	Agreeable	Agreeable	Agreeable	
Taste	Agreeable	Agreeable	Agreeable	
pH	6.61	6.5 - 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.13	1	5	APHA (23rdEdition) 2130
Total Solids	580.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	576.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	856 μS/cm		-	APHA (23rd Edition) 2510B
Table 2: General 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	75.20 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	47.98 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	0.73 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.06 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	42.77 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,



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

MoEF&CC RECORNIZED 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

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

### TEST REPORT

Name of Client

M/S. JAYKAYCEM (CENTRAL) LTD.,

Address of Client

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

Date of Sample Receipt Date of start of testing

25.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the Location

: 14.05.2022

: 24°16'36.7"N 79°54'24.6"E

Details of Sample

Sample collected by

Water sample collected from Borewell near house of Kallu Yadav S/o Shri Gokul Yadav, Village: Simariya Garhi, Post & 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 <sub>3</sub>	12.47 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L			APHA (23rdEdition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	58.06 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	316.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	334.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
Table 3: Parameters containing	Toxic Substance	S		
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg/L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg/L	0.05 Mg/L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L	-	· ·	APHA (23rdEdition) 4500 PC
Sodium as Na	21.01 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	1.55 Mg/L	-		APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,



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

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

Sample ID No.: SCS/W/20220421/97	Date of Registration: 21.04.2022
Report No. SCS/JKCL/W/20220421/97(3/4)	Date of Report: 14.05.2022
	Date of Report: 14.03.202

#### TEST REPORT

Name of Client

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

Address Client

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

Date of Sampling

25.04.2022

Date of start of testing

27.04.2022

Date of end of testing GPS Coordinates of the :

14.05.2022

Location

24°16'36.7"N

Details of Sample

79°54'24.6"E

Sample submitted by

Water sample collected from Borewell near house of Kallu Yadav S/o Shri Gokul Yadav, Village: Simariya Garhi, Post & Tehsil: Simariya, Dist.: Panna

: 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 & 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 & 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	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		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.

1000000 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.
- 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

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 27.04.2022

Date of start of testing

Date of end of testing

GPS Coordinates of the:

14.05.2022

Location

24°16'36.7"N 79°54'24.6"E

Details of Sample

Water sample collected from Borewell near house of Kallu Yadav S/o Shri Gokul Yadav, Village: Simariya Garhi, Post & Tehsil: Simariya, Dist.: Panna

Sample 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	7 CFU	Shall not be detectable in any 100ml sample		IS 15185
E. Coli	Absent	Shall not be detectable in any 100ml sample		IS 15185

Per pro SCS Enviro Services Pvt. Ltd.,

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

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• 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

MoEF&CC RECOGNIZED LABORATORY vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023 ISO-9001:2015 CERTIFIED LABORATORY ISO-4001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

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

25.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the

14.05.2022

Location

24°18'38.4"N 79°54'12.3"E

Details of Sample

Water sample collected from Borewell near house of Randhir Singh S/o Shri Nathu

Singh, Village & Post: Bharatpur, Tehsil: Simariya, Dist.: Panna

Sample collected by SCS Representative

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic an	d Physical Parameter	'S		
Temperature	32.3 °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	8.23	6.5 – 8.5	No Relaxation	APHA (23rdEdition) 4500- H +
Turbidity, NTU	0.15	1	5	APHA (23rdEdition) 2130
Total Solids	1,740.00 Mg/L	-	-	APHA (23rdEdition) 2540 B
Total Suspended Solids	< 5.00 Mg/L	-	-	APHA (23rdEdition) 2540 D
Total Dissolved Solids	1,737.00 Mg/L	500 Mg/L	2,000 Mg/L	APHA (23rdEdition) 2540 C
Electrical Conductivity	2,490 μS/cm	10/	-	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	132.80 Mg/L	75 Mg/L	200 Mg/L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	227.93 Mg/L	250 Mg/L	1,000 Mg/L	APHA (23rdEdition) 4500 Cl <sup>-</sup> B
Copper as Cu	< 0.01 Mg/L	0.05 Mg/L	1.5 Mg/L	APHA (23rdEdition) 3111B
Fluoride as F	1.33 Mg/L	1.0 Mg/L	1.5 Mg/L	APHA (23rdEdition) 4500 F D
Iron as Fe	0.10 Mg/L	0.3 Mg/L	No Relaxation	APHA (23rdEdition) 3111B
Magnesium as Mg	52.49 Mg/L	30 Mg/L	100 Mg/L	APHA (23rdEdition) 3500 Mg B
Manganese as Mn	< 0.01 Mg/L	0.1 Mg/L	0.3 Mg/L	APHA (23rdEdition) 3111B

Per pro SCS Enviro Services Pvt. Ltd.,

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

MOEF&C RECOGNIZED LABORATORY vide S.O. 5768(E) Dated 15.11.2018 Valid upto 14.11.2023 ISO-9001:2015 CERTIFIED LABORATORY ISO-4001:2015 CERTIFIED LABORATORY ISO-45001:2018 CERTIFIED LABORATORY

S. I VI V. C.C.C. T. I.C.C.C.		
Sample ID No.: SCS/W/20220421/98	Date of Registration: 21.04.2022	
Report No. SCS/JKCL/W/20220421/98(2/4)		
1,12020,121,70(2,1)	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 Date of start of testing

25.04.2022 27.04.2022 14.05.2022

Date of end of testing GPS Coordinates of the :

24°18'38.4"N 79°54'12.3"E

Location Details of Sample

Water sample collected from Borewell near house of Randhir Singh S/o Shri

Nathu Singh, Village & Post: Bharatpur, Tehsil: Simariya, Dist.: Panna

Sample collected by

SCS Representative

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	6.37 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> ·B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-		APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L		-	APHA (23rdEdition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	391.78 Mg/L	200 Mg/L	400 Mg/L	APHA (23rdEdition) 4500 E
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	584.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	548.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
Table 3: Parameters containing	Toxic Substance	S		(**************************************
Cadmium as Cd	< 0.003 Mg/L	0.003 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Cyanide	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 CN C & E
Lead as Pb	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Mercury as Hg	< 0.001 Mg/L	0.001 Mg/L	No relaxation	APHA (23rdEdition) 3112B
Nickel as Ni	< 0.01 Mg/L	0.02 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Arsenic as As	< 0.005 Mg/L	0.01 Mg/L	0.05 Mg/L	APHA (23rdEdition) 3114B
Total Chromium as Cr	< 0.01 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 3111B
Total Phosphate	< 0.50 Mg/L			APHA (23rdEdition) 4500 PC
Sodium as Na	287.85 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	52.7 Mg/L	-		APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,



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

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

Sample ID No.: SCS/W/20220421/98	Date of Degistration, 21 04 2022
Report No. SCS/JKCL/W/20220421/98(3/4)	Date of Registration: 21.04.2022
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 Date of start of testing

25.04.2022 27.04.2022

Date of start of testing
Date of end of testing

14.05.2022 24°18'38.4"N

GPS Coordinates of the : Location

79°54'12.3"E

Details of Sample

Water sample collected from Borewell near house of Randhir Singh S/o Shri

Nathu Singh, Village & Post: Bharatpur, Tehsil: Simariya, Dist.: Panna

Sample collected by : SCS Rep

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Pesticides Residues				
Alachlor	$< 0.10  \mu g / L$		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			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		0.4µg/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	8	190µg/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/		APHA (23rdEdition) 6440

Per pro SCS Enviro Services Pvt. Ltd.,

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



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

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

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

25.04.2022

Date of start of testing

27.04.2022

Date of end of testing

: 14.05.2022

GPS C

Coordinates of the : 24°18'38.4"N

Location

79°54'12.3"E

Details of Sample

Water sample collected from Borewell near house of Randhir Singh S/o Shri

Nathu Singh, Village & Post: Bharatpur, Tehsil: Simariya, Dist.: Panna

Sample collected by

: SCS Representative

	Results	Requirement (Acceptable Limit) Permissible Limit in absence of alternate source		Protocol
Parameter				
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.,



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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 ISC-9001:2015 CERTIFIED LABORATORY ISC-44001:2015 CERTIFIED LABORATORY ISC-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

26.04.2022 27.04.2022

Date of end of testing GPS Coordinates of the Location

14.05.2022 : 24°18'01.5"N 80°00'0.2"E

Details of Sample

Water sample collected from Govt Handpump near house of Rajaram Modi

S/o Shri Hardin Modi, Village: Mahod, Tehsil: Simariya, Dist.: Panna

Sample collected by : SCS Representative

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

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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

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 Date of end of testing

26.04.2022 : 27.04.2022 : 14.05.2022

GPS Coordinates of the : Location

24°18'01.5"N 80°00'00.2"E

Details of Sample

Water sample collected from Govt Handpump near house of Rajaram Modi S/o

Shri Hardin Modi, Village: Mahod, Tehsil: Simariya, Dist.: Panna

Sample collected by : SCS Representative

	Results	IS - 10500:2012		Protocol
Parameter		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Nitrate as NO <sub>3</sub>	9.6 Mg/L	45 Mg/L	No relaxation	APHA (23rdEdition) 4500 NO <sub>3</sub> -B
Nitrite as NO <sub>2</sub>	< 0.01 Mg/L	-	-	APHA (23rdEdition) 4500 NO <sub>2</sub>
Oil & Grease	< 0.2 Mg/L	-	-	APHA (23rdEdition) 5520B
Phenolic Compounds as C <sub>6</sub> H <sub>5</sub> OH	< 0.001 Mg/L	0.001 Mg/L	0.002 Mg/L	APHA (23rdEdition) 5530C
Selenium as Se	< 0.01 Mg/L	0.01 Mg/L	No relaxation	APHA (23rdEdition) 3114B&C
Sulphate as SO <sub>4</sub>	77.77 Mg/L	200 Mg/L	400 Mg/L	
Sulphide as S	< 0.20 Mg/L	0.05 Mg/L	No relaxation	APHA (23rdEdition) 4500 E
Total Alkalinity as CaCO <sub>3</sub>	324.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2320
Total Hardness as CaCO <sub>3</sub>	324.00 Mg/L	200 Mg/L	600 Mg/L	APHA (23rdEdition) 2340 C
Zinc as Zn	< 0.01 Mg/L	5 Mg/L	15 Mg/L	APHA (23rdEdition) 3111B
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	29.80 Mg/L	-	-	APHA (23rdEdition) 3500 B
Potassium as K	1.19 Mg/L	-		APHA (23rdEdition) 3500 B

Per pro SCS Enviro Services Pvt. Ltd.,



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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/20220421/99	Date of Registration: 21.04,2022
Report No. SCS/JKCL/W/20220421/99(3/4)	
	Date of Report: 14.05.2022

#### TEST REPORT

Name of Client : M/S. JAYKAYCEM (CENTRAL) LTD.,

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

Date of Sample Receipt : 26.04.2022
Date of start of testing : 27.04.2022
Date of end of testing : 14.05.2022
GPS Coordinates of the : 24°18'01.5"N
Location : 80°00'00.2"E

Details of Sample : Water sample collected from Govt Handpump near house of Rajaram Modi S/o

Shri Hardin Modi, Village: Mahod, Tehsil: Simariya, Dist.: Panna

Sample collected by : SCS Representative

	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
γ-НСН	< 0.10 µg / L		2μg/L	USEPA Method No. 508
Isoproturon	< 1.0 μg / L	10	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			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.,



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

#### TEST REPORT

Name of Client

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

Address of Client

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

Date of Sample Receipt

26.04.2022

Date of start of testing Date of end of testing

27.04.2022 14.05.2022

GPS Coordinates of the Location

24°18'01.5"N

80°00'00.2"E

Details of Sample

Water sample collected from Govt Handpump near house of Rajaram Modi S/o

Shri Hardin Modi, Village: Mahod, Tehsil: Simariya, Dist.: Panna

Sample collected by

SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,

bleening Dr. D. S. Parihar

(Technical Manager) Authorised Signatory

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