



# WATER REPORT

Conserve water, preserve the  
planet



**CHITKARA**  
UNIVERSITY

July, 2024

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# Water Management

## SOURCES OF FRESH WATER

The source of the fresh water of university is groundwater. Two tube wells have been installed in the university. The details of the tube wells are given below:

Location	Depth (meters)	Diameter (mm)	Discharge m <sup>3</sup> /hr	Operational hours/day	H.P. of Pump	Whether electromagnetic flow meter with Telemetric module installed
Tubewell / 2014	350.00	200	42.00	7/365	33.00	Yes



**Tube well installed with electromagnetic flow meter with telemetric module**

The maximum per day water abstraction of the University during the financial year 2023- 2024 was **730 m<sup>3</sup>/annum**.

- The University has maintained record of ground water abstraction. Electromagnetic flow water meters have been installed. Water meter readings are recorded on a daily basis. Record of energy consumption for abstraction of ground water has also been maintained by the University.
- The University has also maintained the record of consumption of water for every section.



<b>Months</b>	<b>2023-24</b>
Jul-23	31.46
Aug-23	51.89
Sep-23	55.68
Oct-23	58.61
Nov-23	64.37
Dec-23	64.36
Jan-24	71.27
Feb-24	64.14
Mar-24	68.17
Apr-24	84.60
May-24	74.26
Jun-24	41.20
<b>Yearly total</b>	<b>730.00</b>
<b>Treated Water generated</b>	<b>584.10</b>
<b>Used in Dual Plumbing</b>	<b>233.64</b>
<b>Used in Horticulture</b>	<b>221.96</b>
<b>Used in Karnal Technology</b>	<b>128.50</b>

**WATER STORAGE FACILITIES WITHIN THE CAMPUS**

**1. One Overhead Tank**



**Overhead Tank**

## **SEWAGE TREATMENT PLANTS**

The university has two Sewage Treatment plants based on the MBBR technology to treat wastewater of capacity 250 KLD.

### **General Process Description for 250 KLD STP with FAB Technology**

The Treatment Plant is based on FAB Technology and having 250 capacity with following treatment scheme.

➤ **Stage 1: Primary Treatment**

Bar Screen Chamber, Sewage Collection tank, Oil & Grease Trap

➤ **Stage 2: Secondary or biological treatment**

FAB Reactor, Coagulation tank, Clarifier

➤ **Stage 3: Tertiary treatment**

Chlorine Contact tank, Pressure Sand Filter, Activated Carbon Filter, Hypo Dosing System, Treated Water Tank

➤ **Stage 4: Sludge Treatment**

Sludge Drying Beds



Sewage Treatment Plant of Capacity 250 KLD



Treatment scheme of STP 1 of capacity of 250 KLD

## USAGE OF TREATED WATER



Dual plumbing system at Chitkara University, Punjab



Karnal technology in which treated STP water is used



Treated water being used in horticulture

At Chitkara University, the dual plumbing system and dedicated sewage treatment plants (STPs) prevent polluted water from entering the water system by separating potable and reclaimed water supplies. Potable water is reserved strictly for drinking and washing, while reclaimed water, treated by our STPs to remove waste and bacteria, is used for non-drinking purposes like flushing toilets and irrigation. This approach not only conserves water but ensures that any accidental or incidental pollution within the campus, such as leaks or spills, is contained within the reclaimed water system. By maintaining separate water pipelines, we minimize the risk of cross-contamination, safeguarding both the campus community's health and the surrounding environment.

## **RAINWATER HARVESTING SYSTEM**

Rainwater harvesting is a technique to capture the rainwater when it precipitates, store that water for direct use or charge the groundwater and use it later.

There are typically four components in a rainwater harvesting system:

- Roof Catchment.
- Collection.
- Transport.
- Infiltration or storage tank and use.

If rainwater is not harvested and channelized its runoffs quickly and flow out through storm- water drains. For storm-water management the recharge pits, percolation pits and porous trenches are constructed to allow storm water to infiltrate inside the soil.

### **GROUND WATER LEVELS IN PATIALA**

The depth to water level ranges from 4.43 to 20.62 m bgl during pre-monsoon period and 6.99 to 24.28 m bgl during post monsoon period. The seasonal fluctuation varies from 0.03 to (-) 3.66 m in the area. The long-term water levels trend indicates average fall of 0.50 m/year.

### **RAINWATER CONSERVATION POLICY AT CHITKARA UNIVERSITY**

The clayey soil is found to be dominant in the soil of campus, so the campus has been provided with a deep well

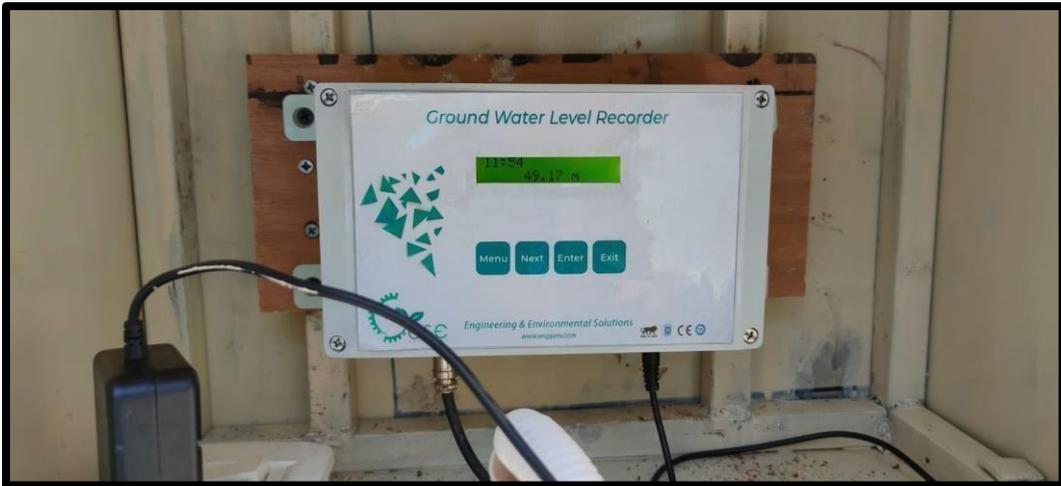
borewell harvesting system.

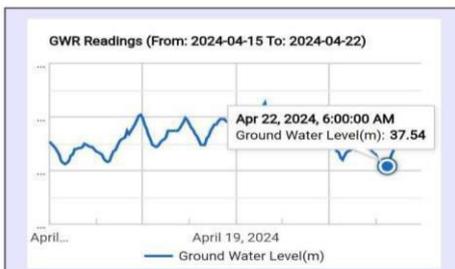
The rainwater collected in the catchment areas (Roofs, Roads and Ground) is conserved by recharging the ground water. The water falling on the roof of the building and roads is made to fall into ground and a steep slope is



provided at the ground and the water from ground will flow to the recharging pit. The runoff water may contain silts and Grits so to prevent the entry of the silts entering the water has to pass through the filtration Media (layer of sand and gravels). The filtered water will then pass through the perforated pipes which are connected to borewell pipe, and the rainwater will join the aquifer Chitkara University has 8 Rainwater Harvesting points at different locations. The capacity and type of system is as given below: -

## GROUND WATER LEVEL IMPROVEMENTS



E&E Solutions	GWR01512 ▾	E&E Solutions	GWR01512 ▾
 <p style="text-align: center;"><b>Ground Water Level</b> <b>41.43 metres</b></p> <p style="text-align: center; font-size: small;">Last Updated on 2024-05-24 12:56:03</p> <div style="background-color: #e0f2f1; padding: 5px; margin-bottom: 5px;"> <p>Start Date</p> <input style="width: 100%;" type="text" value="27/06/2022"/> ▾         </div> <div style="background-color: #e0f2f1; padding: 5px; margin-bottom: 5px;"> <p>End Date</p> <input style="width: 100%;" type="text" value="30/06/2022"/> ▾         </div> <div style="background-color: #00a651; color: white; text-align: center; padding: 5px; margin-bottom: 5px;"> <p>Download Data</p> </div> <p style="text-align: center; font-size: x-small;">Powered By <b>E&amp;E Solutions</b> © 2018  </p>	 <p style="text-align: center;"><b>Ground Water Level</b> <b>41.43 metres</b></p> <p style="text-align: center; font-size: small;">Last Updated on 2024-05-24 12:56:03</p> <div style="background-color: #e0f2f1; padding: 5px; margin-bottom: 5px;"> <p>Start Date</p> <input style="width: 100%;" type="text" value="15/04/2024"/> ▾         </div> <div style="background-color: #e0f2f1; padding: 5px; margin-bottom: 5px;"> <p>End Date</p> <input style="width: 100%;" type="text" value="22/04/2024"/> ▾         </div> <p style="text-align: center; font-size: x-small;">Powered By <b>E&amp;E Solutions</b> © 2018  </p>		

The ground water table has considerably increased to 37.54 Meter from all-time low of above 60 Meters.

## **Annual Meeting Contract (AMC), Water Testing, and Water Awareness at Chitkara University**

**1. Annual Meeting Contract (AMC):** - The Annual Meeting Contract (AMC) at Chitkara University is a critical agreement that ensures regular maintenance and checks of water systems. The AMC mentioned in the provided document, typically such a contract covers regular inspections of water infrastructure, ensuring all equipment like pumps, filters, and plumbing systems are functioning properly. This helps in avoiding disruptions in the water supply and ensuring that the water distributed throughout the campus is safe for consumption.

**2. Water Testing:** - Chitkara University likely conducts water testing as part of its health and safety measures. Regular water testing ensures that the water on campus meets both national and international quality standards. This process involves checking for contaminants like bacteria, heavy metals, and chemical pollutants, and assessing parameters such as pH, hardness, and turbidity. Water testing safeguards the health of students and staff, ensuring access to clean and potable water across the campus.

**3. Water Awareness:** - Chitkara University emphasizes water awareness among students and staff, promoting conservation and responsible usage through various initiatives. The provided document highlights an awareness poster encouraging everyone to:

- **Save Water:** The poster stresses that every drop counts and urges people to close taps after use and report leaks immediately to the building supervisor or housekeeping staff. A contact number is provided for quick reporting of water issues.
- **Simple Ways to Conserve:** It suggests ways to conserve water, like reducing the energy needed for water treatment, protecting natural ecosystems, and preventing droughts and shortages. This message is aimed at instilling a habit of mindful water consumption in the university community.

These efforts reflect Chitkara University's commitment to environmental sustainability and resource conservation, ensuring that future generations benefit from their water-saving initiatives.

## PURCHASE ORDER

Invoice To <b>Chitkara University, Punjab</b> Chandigarh Patiala National Highway Viii. Jan.sla, Banur, Distt. Patiala	Purchase Order No. <b>CU/PB/P0/ 22-2-3158-918</b>	Dated <b>2:8-Oct-22</b>
Mode/Terms of Payment: <b>Credit</b>		
Supplier <b>Mech Engineers</b> '920-A , Industrial Area ,Phase - 2 , Chandigarh Contact No.: 0172--2662417, 09:8140.c9H720 E-Mail: mechengineers2k@gmail.com  <b>Tin No.: 04030009720</b>	Supplier's Ref_ <b>CU-P'B-58-918</b>	Other References(s) <b>Electrical Material</b>
Terms of Delivery <b>ONE YEAR</b>		Contact Person
Reference/ C:		
Destination <b>SQUARE ONE.</b>		
Nature of Work		

Sr. No.	Description of Goods	Quantity	Rate (₹)	Net Amount	I.T.C.	GST (%)	Amount
1	<b>AMC for R.O Plant</b> 08 visits 02 emergency visits AMC Period Starts from 01-11-2022 to 31-10-2023 PCS OF CARTRIDGE & FILTER PRICE INCLUDE In.dent No.: <a href="#">22-2312371 (Admin Dep-:!!rtiment:re 011e""1)</a>	1 No	15000.00	<b>15000.00</b>		18.00% (2700.00)	<b>17700.00</b>
Total		1 No		<b>15000.00</b>		2700.00	17700.00

Amount Chargeable (in words) E. & O.E  
**Seventeen Thousand Seven Hundred Only**

Remarks:

a. If the material is not as per given specification that will be rejected & returned to you for reverse pick up.

b. Safe Transportation of all the Material without any damage shall be your responsibility.

for Chitkara University , -f-Z8-0ct-22}

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Authorised Signatory **14**

**PURCHASE ORDER**

Invoice To <b>Chitka.ra University, Punjab</b> Chandigarh Patiala National Highway Viii. Jansla, Banur, Distt. Patiala	Purchase Order No. <b>CUIPBIPOI 22-2:3179616,</b>	Dated <b>31-Dec-22</b>
	Mode/Terms of Payment: <b>Credit</b>	
Supplier <b>Aqua Care Services</b> IHI..No- 1371, Sector - 52. ,Chandigarh Contact No.: 93164-81683 E-Mail: aquacare.... services@yahoo..in	Supplier's Ref_ <b>CU-PB.:79616,</b>	Other References(s) <b>AQUAGUARD WATER FILTER</b>
	Terms of Delivery	Contact Person
	Reference / C:	
	Destination <b>ADMIN OFFICE</b>  Nature of Work	

S. No.	Description of Goods	Quantity	Rate ( )	Net Amount	I.T.C.	G.S.T.	Amount
ii	<b>AMC for Aquaguard Water Purifier</b> The other terms and conditions of the contract are as follows:-  Two Periodically service visit per year during the period of contract, when the purifier will be thoroughly checked, cleaned, serviced and adjusted.  Replacement of the Activated Carbon block will be made once during the service contract period.  Replacement of pre filter candle will be made once in year.  Replacement of worn out/exhausted parts, including part will new/replaced spares during the periodical servicing, or take follow up visits during the service contract period  AMC PERIOD FROM 02-01-2023 TO 01-01-2024  Indent No.: <a href="#">22-2313076(Admin Department-Admin Office-1)</a>	<b>50 No</b>	<b>21000.00</b>	11,00,000.00	---	---	11,00,000.00
<b>Total</b>		<b>50 No</b>	---	11,00,000.00	---	---	11,00,000.00

Amount Chargeable (in words) E. & O.E  
 One Lakh Only

Remarks:

a. If the material is not as per given specification that will be rejected & returned to you for reverse pick up.

b. Safe Transportation of all the Material without any damage shall be your responsibility.

AMC PERIOD FROM 02-11-1123 TO 11-11-1124 for Chitkara University P1-Dec-22)

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 Authorised Signatory

# PURCHASE ORDER

Invoice To <b>Chitkara University, Punjab</b> Chandigarh Patiala National Highway VIII. Jansla, Banur, Distt. Patiala  <b>GST No.: 03AAATI:6244N1 Q</b>	Purchase Order No. <b>PO/ 24- 25/545 2</b>	Dated <b>12-Aug-24</b>
	Mode/Terms of Payment: <b>Credit</b>	
	Project No.	Other References(s)
Supplier <b>Mech Engineers</b> 920-A, Industrial Area ,Phase - 2 , Chandigarh Contact No.: 0172-2652417, 09'8140-98720, 991143-43720 E-Mail: mechengineers2k@gmail.com  <b>Tin No.: ,0403000972 0</b>	Terms of Delivery <b>1 year</b>	Contact Person
	PO Type: <b>Supply Only</b>	
	Destination <b>Admin Department-Square One Terrace</b>  Nature of Work	

NS:	Description of Goods	Quantity	Rate (₹)	Net Amount {}	Disc. {%}/ Amount{	GST (%)	Amount {it}
1	<b>AMIC for R.O Plant</b> 20..JAN-2024 TO 19..JAN-2025  <b>Indent No.:</b> <a href="#">ADMIN DEPARTMENT FOOD COURT 23-24J3608(Admin. Dep.:artmen u.are One Terrace-1)</a>	<b>1 No</b>	<b>15000.00</b>	<b>15000.00</b>		<b>18.00%</b> <b>(2700.00)</b>	<b>117700.00</b>
<b>Total</b>		<b>1 No</b>		<b>15000.00</b>		<b>2700.00</b>	<b>17700.00</b>

Amount Chargeable (in words) E. &O.E  
**seventeen Thousand seven Hundred Only**

- Remarks:
- The material is not as per given specification that will be rejected & returned to you for reverse pick up.
  - Same Transportation of all the Material without any damage shall be your responsibility.

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For Chitkara University (12-Aug-24)

Authorised Signatory **16**

## PURCHASE ORDER

Invoice To <b>Chitkara University, Punjab</b> Chandigarh Patiala National Highway VIII, Jansla, Banur, Distt. Patiala  <b>GST No.: 03AAAirC62 44N1ZQ</b>	Purchase Order No. <b>POI 24-25/6,725</b>	Dated <b>07-Sep-24</b>
Mode/Terms of Payment <b>Credit</b>		
Project INo.		Other IReferences(s)
Supplier <b>Aqua Care Services</b> H.No-1371, Sedor- 52, Chandigarh Contact No.: 93164-81683 E-Mail: aquacare_services@yahoo.in		Terms of Delivery <b>7DAYS</b>
Contact Person		
PO Type: <b>Supply Only</b>		
Destination <b>Admin Department-Academic Building 1is</b>		
Nature of Work		

Sr. No.	Description of Goods	Quantity	Rate (₹)	Net Amount (₹)	Disc. (% / Amount)	G ST r/4}	Amount (₹)
11	<b>AMC for Aquaguard Water Purifier</b> 25e-SEP-W24 TO 24-SEP-2025  Indent No.: <a href="#">24-25J1951(Admin Department-Academic Building 1S-1)</a>	1101No	21100.00	231000.00			231000.00
2	<b>AMC for R.O Purifier</b> 25-SEP-2024 TO 24-SEP-2025  THE ABOVE RATES ARE INCLUDING GST  Indent No.: <a href="#">24-25J1951(Admin Department-Fleming Block-21)</a>	3No	4500.00	13500.00			13500.00
<b>Total</b>		113 INo		244500.00			244500.00

Amount Chargeable (in words) E.&O.E  
**Two Lakh Forty Four Thousand Five Hundred Only**

Remarks:  
 a. If the material is not as per given specification that will be rejected & returned to you for reverse pick up.  
 b. Safe transportation of all the Material without any damage shall be your responsibility.

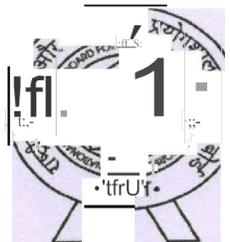
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for Chitkara University (07-Sep-24)

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Chitkara University  
Cellular Instrumentation  
Facility



T0-11489

Document No. CUCIF/TRF

Dated: 11-04-2024

### TEST REPORT

Customer's Name and address:	Sample receipt date	:	06-04-2024
	Date of Testing	:	09-04-2024
Chitkara University, (PB)	Report Issue Date	:	11-04-2024
	Reference No.	:	27/2024
Kind Attn: Capt. Ravinder Singh	Location of testing	:	CUCIF , Babbage Block (CU)
	Name of work	:	Chemical Testing

### SAMPLE PARTICULARS

Description of sample	:	Liquid
Sample quantity	:	500 ml
Sample condition	:	Intact and fit for testing
Sample identification No.	:	24CWS04/003
Sample collected/ submitted/drawn by	:	Mr. Jaswinder Singh
Location/ source of sample	:	Indoor Stadium(Sportorium)WC-2, Chitkara University PB
Sampling procedure	:	NA
Type of testing	:	Chemical Testing
Environmental conditions during sampling	:	Temperature: 25°C Humidity : 52%

### TEST RESULTS

S. No.	Parameter(s)	Test method	Unit	Test Result	Acceptable requirement	Permissible Limit	Uncertainty in measurement
01	pH	IS:3025 Part 11 : 2022	-	7.89	6.5 - 8.5	No Relaxation	0.18
02	TDS (Total Dissolved Solid)	IS:3025 Part(16): 2012	mg/L	489	500	2000	0.05

Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401



Chitkara University  
Central Instrumentation  
Facility



TC-11489

03	Total Hardness	IS:3025 Part(21): 2019	mg/L	69	200	600	0.04
04	Alkalinity	IS:3025 Part '23. :2019	mg/L	216.11	200	600	0.0168
05	Calcium	IS:3025 Part'40':2019	mg/L	15.73	30	200	0.48
06	Fluoride	IS :3025 Part'60' :2019	mg/L	1.33	1.0	1.5	0.02
07	Residual Free Chlorine	IS:3025 Part'26' :2019	mg/L	0	0.2	1.0	0.03
08	Specific Conductance	IS:3025 Part(14) : 2013	μSiem	73.70	-	-	0.3
09	Potassium	IS:3025 Part(45):2019	mg/L	0.83	-	-	0.046
10	Sodium	IS:3025 Part,45. :2019	mg/L	163	-	-	0.039

**Remarks/opinions:** The alkalinity and fluoride are slightly higher and other given parameters are within acceptable limit.

Authorized signatory

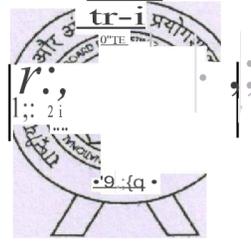
National Calibration Board  
Chitkara University  
Chitkara University  
Patiala National Highway  
Rajpura, Punjab, India-140401

Name of the Laboratory: Chitkara University Central Instrumentation Facility (CUCIF),				
Document No. CUCIF/TRF		Document Name: Test report format for Chemical testing of Water		
Issue No: 00	Issue Date: 01/06/2023	Copy No.:	Section No: C( 12)	Page No: 1/1
Amendment No: NA	Amendment date:NA	Approved and issued by:		

Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401



**Chitkara University**  
Cell: 11211 | Instrumentation | IT |  
Faculty



TC-11489

## TEST REPORT

Document No. CUCIF/TRF

<b>Customer's Name and address:</b> Chitkara University (PB)  <b>Kind Attn:</b> Hony. Capt. Ravinder Singh <b>Contact No.:</b> 9501004247 <b>Email ID:</b> ravinder.singh@chitkara.edu.in	Sample receipt date	:	05-08-2024
	Date of Testing	:	08-08-2024
	Report Issue Date	:	10-08-2024
	Reference No.	:	45/2024
	Location of testing	:	CUCIF, Babbage Block ( CU)
	Name of work	:	Chemical Testing

## SAMPLE PARTICULARS

Description of sample	:	Liquid
Sample quantity	:	500 ml
Sample condition	:	Intact and fit for testing
Sample identification No.	:	24CWS08/003
Sample collected/drawn by	:	Mr. Jaswinder Singh
Location/ source of sample	:	Picasso Block, 4 <sup>th</sup> Floor (WC) Chitkara University (PB)
Sampling procedure	:	NA
Type of testing	:	Chemical Testing
Environmental conditions	:	Temperature: 26°C Humidity : 57%

## TEST RESULTS

S. No.	Parameter(s)	Test method	Unit	Test Result	Limits of IS: 10500-2012	
					Acceptable requirement	Permissible Limit
01	pH	IS:3025 Part(11):2022	-	8.06	6.5 - 8.5	No Relaxation
02	TDS (Total Dissolved Solid)	IS:3025 Part(16):2012	mg/L	460.67	500	2000
03	Total Hardness	IS:3025 Part(21):2019	mg/L	44.45	200	600

Page No.: 1/2

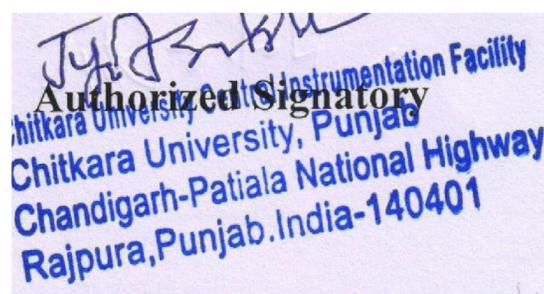
**Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401**

04	Alkalinity	IS:3025 Part(23):2019	mg/L	251.67	200	600
05	Calcium	IS:3025 Part(40):2019	mg/L	10.13	30	200
06	Fluoride	IS:3025 Part(60):2019	mg/L	0.64	1.0	1.5
07	Residual Free Chlorine	IS:3025 Part(26):2012	mg/L	BDL	0.2	1.0
08	Specific Conductance	IS: 3025 Part(14):2013	µSiem	75.75	-	-
09	Potassium	IS: 3025 Part(45):2019	mg/L	0.87	-	-
10	Sodium	IS:3025 Part(45):2019	mg/L	136	-	-

**Note: BDL -Below detectable limit**

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after seven days from the date of issue of test report unless otherwise specified.

**\*\*End of Report\*\***



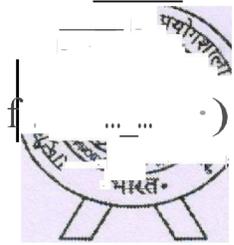
Authorized Signatory  
Chitkara University Central Instrumentation Facility  
Chitkara University, Punjab  
Chandigarh-Patiala National Highway  
Rajpura, Punjab, India-140401

Name of the Laboratory: Chitkara University Central Instrumentation Facility (CUCIF)				
Document No. CUCIF/TRF		Document Name: Test report format for Chemical testing of Water		
Issue No: 00	Issue Date: 01/06/2021	Copy No.:	Section No:	Page No:
Amendment No: 01	Amendment date: 01/07/2024	Approved and issued by: QM	C ( 12)	2/2

**Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401**



Chitkara University  
Central Instrumentation  
Facility



TC-11489

Documt No. CUCTF/TRF  
Dated: 03-02-2024

### TEST REPORT

Customer's Name and address:  Chitkara University, (PB)  Kind Attn: Mr. Rattandeep Singh	Sample receipt date	:	29-01-2024
	Date of Testing	:	30-01-2024
	Report Issue Date	:	03-02-2024
	Reference No.	:	13/2024
	Location of testing	:	CUCIF, Babbage Block (CU)
	Name of work	:	Chemical Testing

### SAMPLE PARTICULARS

Description of sample	:	Liquid
Sample quantity	:	500ml
Sample condition	:	Intact and fit for testing
Sample identification No.	:	24CWSO1/013
Sample collected/ submitted/drawn by	:	Mr. Jaswinder Singh
Location/ source of sample	:	Turing Block 5 <sup>th</sup> Floor, Chitkara University 'PB'
Sampling procedure	:	NA
Type of test:	:	Chemical Testing
Environmental conditions during sampling,	:	Temperature: 21 Humidity : 61%

### TEST RESULTS

S.No.	Parameter(s)	Test method	Unit	Test Result	Acceptable requirement	Permissible Limit	Uncertainty in measurement
01	pH	IS:10500-2012	-	7.65	6.5 - 8.5	No Relaxation	0.18
02	TDS (Total Dissolved Solid)	IS:10500-2012 Part 1	mg/L	465	500	2000	0.05
03	Total Hardness	IS:10500-2012 Part 21	mg/L	82.08	200	600	0.04
04	Alkalinity	IS:10500-	mg/L	221.67	200	600	<b>0.0168</b>

Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401



Chitkara University  
Central Instrumentation  
Facility



TC-11489

		2012, IS:3025 Part 23					
05	Calcium	IS:10500- 2012, IS:3025 Part 40	mg/L	17.87	30	200	0.48
06	Fluoride	IS:10500- 2012, IS:3025 Part 60	mg/L	1.32	1.0	1.5	0.02
07	Residual Free Chlorine	IS:10500- 2012, IS:3025 Part 26	mg/L	0	0.2	1.0	0.03
08	Specific Conductance	IS 3025 Part 14: 2013	µS/cm	74.25			0.3
09	Potassium	IS: 3025 Part 45; 1993	mg/L	0.77			0.046
10	Sodium	IS: 3025 Part 45; 1993	mg/L	86.97	-	-	0.039

**Remarks/opinions:** The alkalinity and fluoride values are higher than the acceptable limit.

Authorized signatory

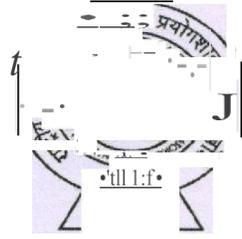
*[Signature]*  
Name: Dr. Jyotsna Kaushal  
Designation: Technical Manager  
Chitkara University Central Instrumentation Facility  
Chitkara University, Punjab  
Chandigarh-Patiala National Highway  
Punjab, India-140401

Name of the Laboratory: Chitkara University Central Instrumentation Facility ( F)				
Document No. CUCIF/TRF		Document Name: Test report format for Chemical testine: of Water		
Issue No: 00	Issue Date: 01/06/2021	Copy No.:	Section No: C( 12)	Page No: 1/1
Amendment No:	Amendment date:	Approved and issued by:		

**Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401**



Chitkara University  
Central Instrumental Facility



TC-11489

Document No. CUCIF/TRF  
Dated: 09-01-2024

### TEST REPORT

Customer's Name and address:  Chitkara University, (PB)  Kind Attn: Mr. Rattandeep Singh	Sample receipt date	:	04-01-2024
	Date of testing	:	05-01-2024
	Report Issue Date	:	09-01-2024
	Reference No.	:	01/2024
	Location of testing	:	CUCIF, Babbage Block (CU)
	Name of work	:	Chemical testing

### SAMPLE PARTICULARS

Description of sample	:	Liquid
Sample quantity	:	500 ml
Sample condition	:	Intact and fit for testing
Sample identification No.	:	24CWS01/001
Sample collected/ submitted/collection	:	Mr. Jaswinder Singh
Location/ source of sample	:	Living Block, 3rd floor (LS), Chitkara University (J>B)
Sampling procedure	:	.NA
Type of testing	:	Chemical testing
Environmental conditions during sampling	:	Temperature : 23°C Humidity : 62(10)

### TEST RESULTS

S. No.	Parameter(s)	Test Method	Unit	Test Result	Acceptable range	Permissible Limit	Uncertainty in measurement
01	pH	IS: 10500-2012	-	8.05	(7.5 - 8.5)	No relaxation	0.18
02	IDS (Total Suspended Solid)	IS: 10501-2012 Part	mg/L	4.8	500	2000	0.05
03	Total Hardness	IS: 10500-2012 Part 21	mg/L	79.04	200	600	0.04

Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401



Chitkara: University  
Central Institutional Facility



TC-11489

04	Alkalinity	IS:10500-2012, IS:3025 Part 23	me/L	227.22	200	600	0.0168
05	Calcium	IS:10500-2012, IS:3025 Part 40	mg/L	16.53	30	200	0.48
06	Fluoride	IS:10500-2012, IS:3025 Part 60	mg/L	1.82	1.0	1.5	0.02
07	Residual Free Chlorine	IS:10500-2012, IS:3025 Part 26	mg/L	0	0.2	1.0	0.03
08	Specific Conductance	IS 3025 Part 14: 2013	LS/cm	70.36	-	-	0.3
09	Potassium	IS: 3025 Part 45; 1993	mg/L	1.67	-	-	0.046
10	Sodium	IS: 3025 Part 45; 1993	mg/L	186.50	-	-	0.039
11	Cadmium	IS:3025 Part 41 2012	mg/L	0	0.003	No Relaxation	0.001
12	Chromium	IS: 3025 Part 52 2012	mg/L	0	0.05	No Relaxation	0.001
13	Lead	IS: 3025 Part 47 2012	mg/L	0	0.01	No Relaxation	0.0006

**Remarks:**

All parameters are within the permissible limits as per IS standards.

Authorized Signatory

Official Seal

Dr. J. S. Chahal, Director  
National Bureau of Testing and Calibration  
Sector-16, Chandigarh-160015

National Bureau of Testing and Calibration (Chitkara University) Central Institutional Facility (CIJCLF)				
Document No: CIJCLF/2021/11489		Document Name: Test report for (11) Physical testing of Water		
Sl No: 00	Issue Date: 01/06/2021	Copy No.:	Section No: C(12)	Page No: 1/1
Amended No:	Revision date:	Approved and issued by:		

Address: Chandigarh-Patiala National Highway (NH-64) Village Jhansla, Rajpura, Punjab-140401

**TEST REPORT**

Client's Name and address: Chitkara University (PB)  <b>Kind Attn</b> : Holly. Capt. Ravinder Singh <b>Contact No.</b> : 9501004247 <b>Email Id</b> : singh.ravinder@chitkara.edu.in	Sample receipt date	:	10-07-2024
	Date of Testing	:	12-07-2024
	Report Issue Date	:	15-07-2024
	Reference No.	:	41/2024
	Location of testing	:	CUCIF, Babbage Block (CU)
	Name of work	:	Clinical Testing

**SAMPLE PARTICULARS**

Description of sample	:	Liquid
Sample quantity	:	500 ml
Sample condition	:	Instant field for testing
Sample identification No.	:	24CWS07/004
Sample collected/drawn by	:	Mr. Jaswinder Singh
Location/Source of sample	:	Flooring Block, 4 <sup>th</sup> Floor (Inside Shop) Chitkara University (P:B)
Sample storage :-	:	NA
Type of testing	:	Clinical Testing
Environmental conditions during sampling	:	Temperature: 25°C Humidity: SE/C

**TEST RESULTS**

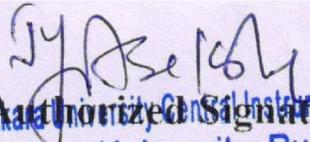
S.No.	Parameter(s)	Test Method	Unit	Test Result	Limits as per IS: 10500-2012	
					Acceptable Range	Permissible Limit
01	pH	IS: 3045 Part(11):2022	-	8.37	6.5 - 8.5	No Relaxation
02	TDS (Total Dissolved Solids)	IS: 3045 Part(16):2012	mg/L	470	500	2000
03	Total Hardness	IS: 3045 Part(17):2012	mg/L	151.7	200	600

Chitkara University (P:B) Block, 4<sup>th</sup> Floor, Babbage Block, Chitkara University (P:B) Vill, Gurgaon (NH-64) Haryana. Rajiv Gandhi Institute of Technology, P.O. Box No. 14040-1

04	Alkalinity	IS:3025 Part(23):2(J19)	mg/L	256.11	200	600
05	Calcium	IS:3025 Part(40):2019	mg/L	14.13	30	200
06	Fluoride	IS:30,25 Part(60):2019	mg/L	0.71	1.0	1.5
07	Residual Free Chlorine	IS:3025 Part(26):2012	mg/L	ND	0.2	1.0
08	Specific Conductance	IS:3025 Part(14):2(J13)	μS/cm	07.52	-	-
09	Potassium	IS:3025 Part(45):2019	mg/L	0.83	-	-
10	Sodium	IS:3025 Part(45):2019	mg/L	99.46	-	-

**Note: ND - not detectable**

- The test reported refers only to tested sample and applicable parameters.
- This report can be used as evidence in the court of law. It can be used in part or full in any media, without prior permission.
- The sample will be destroyed after seven days from the date of issue of test report unless otherwise specified.

  
**Authorized Signatory**  
 Chitkara University, Punjab  
 Chandigarh-Patiala National Highway  
 Rajpura, Punjab, India-140401

\*\*End of Report\*\*

Name of the Laboratory: Chitkara University (Central Instrumentation Facility)		Date of Issue: 01/01/2021	
Issued to: N/A		Issued by: QM	
Page No.: 2/2		Section No.: C-11489	

**Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401**



Document No. CUCIFffRF  
Dated : 02-03-2024

### TEST REPORT

Customer's Name and address:  Chitkara University (PB)  Kind Attn: Capt. Ravinder Singh	Sample receipt date	:	21-02-2024
	Date of Testing	:	26-02-2024
	Report Issue Date	:	02-03-2024
	Reference No.	:	17/2024
	Location of testing	:	CUCIF, Babbage Block ( CU)
	Name of work	:	Chemical Testing

### SAMPLE PARTICULARS

Description of sample	:	Liquid
Sample quantity	:	500 ml
Sample condition	:	Intact and fit for testing
Sample identification No.	:	24CWS02/003
Sample collected/ submitted/drawn by	:	Mr. Jaswinder Singh
•• Location/ source of sample	:	Tesla Block 1 <sup>st</sup> Floor (WC-3) , Chitkara University 1'PB1
Sampling procedure	:	NA
Type of test-	:	Chemical Testing
Environmental conditions during sampling: [!;	:	Temperature: 22 Humidity : 62%

### TEST RESULTS

S No.	Parameter(s)	Test method	Unit	Test Result	Acceptable requirement	Permissible Limit	Uncertainty in measurement
01	pH	IS:3025 Part, 11.):2022	-	7.68	6.5 -8.5	No Relaxation	0.18
02	IDS (Total Dissolved Solid)	IS:3025 Part(16):2012	mg/L	476	500	2000	0.05
03	Total Hardness	IS:3025 Part 11(21):2019	mg/L	74.48	200	600	0.04

Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401



**Chitkara University**  
Central Instrumentation  
Facility



TC-11489

04	Alkalinity	IS:3025 Part(23):2019	mg/L	226.11	200	600	0.0168
05	Calcium	IS:3025 Part(40):2019	mg/L	18.93	30	200	0.48
06	Fluoride	IS:3025 Part(60):2019	mg/L	1.43	1.0	1.5	0.02
07	Residual Free Chlorine	IS:3025 Part(26):2012	mg/L	0	0.2	1.0	0.03
08	Specific Conductance	TS: 3025 Part(14):2013	µSiem	81.34	-	-	0.3
09	Potassium	IS: 3025 Part(45):2019	mg/L	0.13	-	-	0.046
10	Sodium	IS:3025 Part:45.1:2019	mg/L	85.10	-	-	0.039

**Remarks/opinions:** The alkalinity and fluoride values are higher than the acceptable values.

Authorized signatory

Name : Dr.  Instrumentation Facility

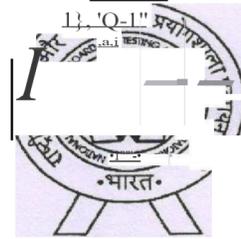
Designation; **Chitkara University, Punjab**  
**Chandigarh-Patiala National Highway**  
**Rajpura, Punjab, India-140401**

Name of the Laboratory: Chitkara University Central Instrumentation Facility (CUCIF)				
Document No. CUCIF/TRF		Document Name: Test report for Chemical test of Water		
Issue No: 00	Issue Date: 01/06/2021	Copy No.:	Section No: C ( 12)	Page No: 1/1
Amendment No:	Amendment date:	Approved and issued by:		

**Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401**



Chitkara University  
Central Instrumentation  
Laboratory



TC-11489

Document No. CUCIF/TRF

Dated: 06-05-2024

### TEST REPORT

Customer's Name and address:  Chitkara University, ( PB)  Kind Attn: Capt. Ravinder Singh	Sample receipt date	:	30-04-2024
	Date of Testing	:	02-05-2024
	Report Issue Date	:	06-05-2024
	Reference No.	:	33/2024
	Location of testing	:	CUCIF ,Babbage Block (CU)
	Name of work	:	Chemical Testing

### SAMPLE PARTICULARS

Description of sample	:	Liquid
Sample quantity	:	500 ml
Sample condition	:	Intact and fit for testing
Sample identification No.	:	24CWS05/002
Sample collected/ submitted/drawn by	:	Mr. Jaswinder Singh
Location/ source of _sample	:	Circle one GF,Chitkara University (PB)
Sampling procedure	:	NA
Type of testing	:	Chemical Testing
Environmental conditions during sampling	:	Temperature: 25°C Humidity : 44%

### TEST RESULTS

S.No.	Parameter(s)	Test method	Unit	Test Result	Acceptable requirement	Permissible Limit	Uncertainty in measurement
01	pH	IS:3025 Part(11): 2022	-	8.12	6.5 - 8.5	No Relaxation	0.18
02	TDS (Total Dissolved Solid)	IS:3025 Part(16): 2012	mg/L	475	500	2000	0.05
03	Total Hardness	IS:3025Part(21 ): 2019	mg/L	72.83	200	600	0.04

Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401



Chitkara University  
Central Instrumentation

ISO 15189



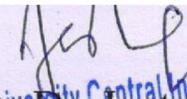
TC-11489

04	Alkalinity	IS:3025Part(23):2019	mg/L	206.11	200	600	0.0168
05	Calcium	IS:3025Part(40):2019	mg/L	16.53	30	200	0.48
06	Fluoride	IS:3025Part(60):2019	mg/L	1.37	1.0	1.5	0.02
07	Residual Free Chlorine	IS:3025Part(26):2019	mg/L	0	0.2	1.0	0.03
08	Specific Conductance	IS:3025 Part(14) : 2013	µSiem	72.62	-	-	0.3
09	Potassium	IS: 3025 Part(45):2019	mg/L	0.57	-	-	0.046
10	Sodium	IS: 3025Part(45):2019	mg/L	227	-	-	0.039

**Remarks/opinions:** The fluoride is higher and other given parameters are within acceptable limit.

Authorized signatory

..

  
Name: Dr. Jyotsna Kaushal  
Designation: TM  
Chandigarh-Patiala National Highway  
Rajpura, Punjab, India-140401

Name of the Laboratory: Chitkara University Central Instrumentation Facility (CUCIF)				
Document No. CUCIF/TRF		Document Name: Test report format for Chemical testing of Water		
Issue No: 00	Issue Date: 01/06/2023	Copy No.:	Section No:	Page No:
Amendment No: NA	Amendment date: NA	Approved and issued by:	C(12)	1/1

**Chandigarh-Patiala National Highway (NH- 64) Village Jhansla, Rajpura, Punjab 140401**



Chitkara University  
Central Instrumentation  
Facility



TC-11489

### TEST REPORT

Document No.: CUCIF/TRF

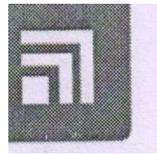
<b>Customer's Name and address:</b> Chitkara University (PB)	Sample receipt date	:	12-09-2024
	Date of Testing	:	13-09-2024
<b>Kind Attn :</b> Capt. Ravinder Singh <b>Contact No. :</b> 9501004247 <b>Email Id :</b> singh.ravinder@chitkara.edu.in	Report Issue Date	:	18-09-2024
	Reference No.	:	59/2024
	Location of testing	:	CUCIF, Babbage Block ( CU)
	Name of work	:	Chemical Testing

### SAMPLE PARTICULARS

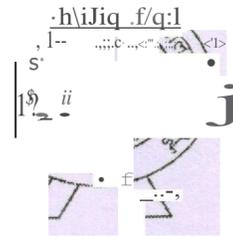
Description of sample	:	Liquid
Sample quantity	:	500 ml
Sample condition	:	Intact and fit for testing
Sample identification No.	:	24CWS09/007
Sample collected/drawn by	:	Mr. Jaswinder Singh
Location/ source of sample	:	Bloom Block Ground Floor, Chitkara University (PB)
Sampling procedure	:	NA
Type of testing	:	Clinical Testing
Environmental conditions	:	Temperature: 26°C Humidity : 62%

### TEST RESULTS

S. No.	Parameter(s)	Test method	Unit	Test Result	Limits of IS: 10500-2012	
					Acceptable requirement	Permissible Limit
01	pH	IS:3025 Part(11):2022	-	8.16	6.5 -8.5	No Relaxation
02	TDS (Total Dissolved Solid)	IS:3025 Part(16):2012	mg/L	452.33	500	2000
03	Total Hardness	IS:3025 Part(21):2019	mg/L	61.56	200	600



Chitkara University  
 Central Instrumentation Facility



TC-11489

04	Alkalinity	IS:3025 Part(23):2019	mg/L	260	200	600
05	Calcium	IS:3025 Part(40):2019	mg/L	36.67	30	200
06	Fluoride	IS:3025 Part(60):2019	mg/L	0.73	1.0	1.5
07	Residual Free Chlorine	IS:3025 Part(26):2012	mg/L	BDL	0.2	1.0
08	Specific Conductance	IS:3025 Part(14):2013	µSiem	67.82	-	-
09	Potassium	IS:3025 Part(45):2019	mg/L	0.97	-	-
10	Sodium	IS:3025 Part(45):2019	mg/L	145.33	-	-

Note: BDL- Below detectable limit

1. The test report refers only to tested sample and applicable parameters.
2. This report can neither be used as evidence in the court of law nor can it be used in part or full in any media without prior permission.
3. The sample will be destroyed after seven days from the date of issue of test report unless otherwise specified.

*Jyoti Kaur*  
 Authorized Signatory  
 Chitkara University Central Instrumentation Facility  
 Chitkara University, Punjab  
 Chandigarh-Patiala National Highway  
 Rajpura, Punjab, India-140401

\*\*End of Report\*\*

Name of the Laboratory: Chitkara University Central Instrumentation Facility (CUCIF)				
Document No. CUCIF/TRF		Document Name: Test report format for Chemical testing of Water		
Issue No: 00	Issue Date: 01/06/2021	Copy No.:	Section No:	Page No:
Amendment No: 01	Amendment date: 01/07/2024	Approved and issued by: Qrvt	C ( 12)	2/2



# Centre for Environment and Food Technology Pvt. Ltd.

An ISO 9001; 2015, ISO 45001; 2018 (OHSAS); ISO/IEC 17025; 2017  
NABL Accredited, ISSAI and MoFF Recognised Testing Laboratory



TC-6145

## TEST REPORT

ULR No.: T -61452400Q000526F

Party Name : Mis Chltnra University  
Chandigarh - P11111111 nlonnl llghwny  
Villngc jhonsla, R11J1lura, Dist. r1111111, Punjoll

Recl,ort No. : CEFTill8  
ftormnt No. : 7.8 F-0IG  
Heportng Dole : 25.04.2024  
Annly ls Com11lctlon dale : 20.04.2024 to 25.04..2014  
Receipt 0111c : 20.04.2024  
S11111plng Drllc : 19.04.2024  
S11mplng Method : As per AIIIA Method  
Snmple Quannlty : 2 LLr.  
LSRF/S11mplc ID : CEFTIGEN12404200118

Sample Description : Drinking Water  
Sampling Location : Turing Water Moler  
Source :  
Snmple Cotlcc:led by : Sampler

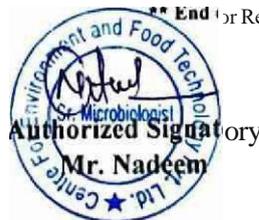
### TEST RESULT

S. No.	Parameter	Result	Unit	Limit of IS: 10500-2012 (Rumrmd - 2018)		Trst-Mchod
				Requirement (Acceplable Limit)	remlisblc limit In the Absence or Alternate Source (Mu,)	
<b>Physical Parameters</b>						
1	pH {Bl 25 °C}	7.85	.	6.5 to 8.5	No Rclouxion	IS: 3025 (Part-I I)
2	Total Dissolved Solids, (Mox.)	356	mg/l	500	2000	IS: 3025 (Part-16)
<b>General Parameters</b>						
3	Total Hardness as CaCO <sub>1</sub> , (Max.)	126.0	mg/l	200	600	IS: 3025 (Part-21)
4	Calcium as Ca, (Mox.)	32.2	mg/l	75	200	IS: 3025 (Part-40)
5	Alkalinity as CaCO <sub>1</sub> , (Ma.x.)	72	mg/l	200	600	IS: 3025 (Part-23)
6	Chloride as Cl, (Mox.)	46.9	mg/l	250	1000	IS: 3025 (Part-J2)
7	Nitrate as NO <sub>3</sub> , (Max.)	3.2	mg/l	45	No Relaxation	IS: 3025 (Part-34)
8	Fluoride as F, (Max.)	ND	mg/l	1	1.5	IS: 3025 (Part-60)
9	Magnesium as Mg, (Max.)	11.2	mg/l	30	100	APHA 3500-Mg (B)
10	Sulphate as SO <sub>4</sub> , (Max.)	6.8	mg/l	200	400	IS: 3025 (Part-24)
II	Nickel as Ni (Max.)	ND	mg/l	0.0	No Relaxation	IS: 3025 (Part-54)
12	Sodium as Na, (Max.)	18.0	mg/l	No Relaxation	No Rclouxion	IS: 3025 (Port-45)
13	Potassium as K, (Max.)	1.8	mg/l	No Relaxation	No Rclouxion	IS: 3025 (Part-45)
14	Cobalt as Co (Max)	ND	mg/l	.	-	APHA 24th Edd. 2023
15	Chromium as Cr, (Mox.)	ND	mg/l	0.05	No Relaxntion	IS 3025 (Part-52)
16	Copper as Cu, (Max.)	ND	mg/l	No Relaxalion	No Relaxation	IS: 3025 (Part-42)
<b>Microbiological Paramtrrs</b>						
17	Total coliform	Absent	per 100 ml	Absent per 100 ml		IS: 15185:2016
18	E.coli	Absent	per 100 ml	Absent per 100 ml		IS: 15185:2016

Note: I. ND = Nol Detectable

Page 1 o. 1/1

Ch  
Mr. Rahul



- Note :
1. The test results are related to the sample/ tested as Identified.
  2. The sample will be discarded after retention time of 7 days unless otherwise specified.
  3. Any Discrepancy found In the test report may be communicated within seven days.
  4. This report shall not be reproduced, cannot be used as evidence In the court of law and should be used In any advertising media without written permission of CEO, CEFT Pvt. Ltd.
  5. The Court Jurisdiction will be Delhi.
  6. Customer complaint register Is available at the laboratory.

<b>RAIN WATER HARVESTING DETAIL</b>				
<b>SR. NO.</b>	<b>LOCATION</b>	<b>DEPTH OF BOREWELL</b>	<b>TYPE</b>	<b>RECHARGING RATE PER DAY</b>
1	OMEGA ZONE	70 MTR.	BOREWELL RECHARGE	50000 ltr
2	OMEGA ZONE	70MTR.	BOREWELL RECHARGE	50000 ltr
3	OMEGA ZONE	103MTR.	BOREWELL RECHARGE	30000 ltr
4	BETA ZONE	70MTR.	BOREWELL RECHARGE	50000 ltr
5	ALPHA ZONE	45MTR.	BOREWELL RECHARGE	30000 ltr
6	NIGHTINGALE HOSTEL	184MTR.	BOREWELL RECHARGE	40000 ltr
7	SPORT ARENA	70MTR.	BOREWELL RECHARGE	50000 ltr
8	COLUMBUS	45MTR.	BOREWELL RECHARGE	30000 ltr
<b>TOTAL</b>				<b>330000 ltr</b>

## **SEPARATE RECHARGING PITS FOR SEPARATE ROOF TOP AREAS**

Chitkara University is now constructing separate Recharging pits for the Separate Roof top catchment areas of the building (Hostels, auditorium, Academic blocks) in order to recharge more run off. As of now, three new Recharging Pits has been recently constructed and 25 more recharging pits are proposed.

<b>NEW RAIN WATER HARVESTING DETAIL</b>				
<b>SR. NO.</b>	<b>LOCATION</b>	<b>DIMENSIONS (LxBxH Meter) Including Filter Media</b>	<b>TYPE</b>	<b>RECHARGING RATE PER DAY</b>
1	MARCO POLO HOSTEL	(3x2x2.5)	BOREWELL RECHARGE	727200ltr
2	MAGELLAN HOSTEL	(3x2x2.5)	BOREWELL RECHARGE	727200ltr
3	IBN BATTUTA	(3x2x2.5)	BOREWELL RECHARGE	727200ltr



# Centre for Environment and Food Technology Pvt. Ltd.

An ISO 9001; 2015, ISO 45001; 2018 (OHSAS); ISO/IEC 17025; 2017  
NABL Accredited, FSSAI and MoEF Recognised Testing Laboratory



## TEST REPORT

LR No.: TC-61452400000528F

Party Name : M/s Chitkara University  
Chandigarh • Palla la National Highway  
Village Jhansi, Rajpura, Dist. Raha, Punjab

Report No. : CE/rq120  
Form No. : 7.8 F-01G  
Reporting On : 15.04.2024  
Annly 18 Completion t.nte : 20.04.2024 to 25.04.2024  
Receipt Date : 20.04.2024  
Smpplng Dute : 19.04.2024  
Smpplng Method : A! per APHA Method  
Sllmllle Quunlily : 2 Ltr.  
LSRF/Somple ID : CEFTIGEN12404200120

Sample Description : Drinking Water  
Sampling Location : Archemides Hostel  
Source :  
Sample Collected by : Sampler

### TEST RESULT

S. No.	Parameter	Result	Unit	Limit or I : iu:mu-zun (llumrmtll * 2018)		Tut-MdhrJd
				Requirement (Acceptable Lml)	Permissible limit in the Abience or Alternate Source (MaL)	
<b>Physical Parameters</b>						
1	pH (a.t25 °C)	7.99	-	6.5 to 8.5	No Relaxation	IS: 3025 (Part-1 I)
2	Total Dissolved Solids, (Max.)	388	mg/l	500	2000	IS: 3025 (Part-16)
<b>General Parameten</b>						
3	Total Hardness as CaCO <sub>3</sub> , (Max.)	114.8	mg/l	200	600	IS: 3025 (Part-21)
4	Calcium as Ca, (Max.)	36.2	mg/l	75	200	IS: 3025 (Part-40)
5	Alkalinity as CaCO <sub>3</sub> , (Max.)	92.6	mg/l	200	600	IS: 3025 (Part-23)
6	Chloride as Cl, (Max.)	56.9	mg/l	250	1000	IS: 3025 (Part-32)
7	Nitrate as NO <sub>3</sub> , (Max.)	4.2	mg/l	45	No Relaxation	IS: 3025 (Part-34)
8	Fluoride as F, (Max.)	ND	mg/l	1	1.5	IS: 3025 (Part-60)
9	Magnesium as Mg, (Max.)	5.9	mg/l	30	100	APHA 3500-Mg(B)
10	Sulphate as so, (Max.)	12.4	mg/l	200	400	IS: 3025 (Part-24)
11	Nickel as Ni (Max.)	ND	mg/l	0.0	No Relaxation	IS: 3025 (Part-54)
12	Sodium as Na, (Max.)	20.4	mg/l	No Relaxation	No Relaxation	IS: 3025 (Part-45)
13	Potassium as K, (Max.)	2.8	mg/l	No Relaxation	No Relaxation	IS: 3025 (Part-45)
14	Cobalt as Co (Max)	ND	mg/l	-	-	APHA 24th Edd.
15	Chromium as Cr, (Max.)	ND	mg/l	0.05	No Relaxation	IS 3025 (Part-52)
16	Copper as Cu, (Max.)	ND	mg/l	0.1	1.5	IS: 3025 (Part-42)
<b>Microbiological Parameters</b>						
17	Total colifonn	Absent	per 100 ml	Absent per 100 ml		IS: 15185:2016
18	E.coli	Absent	per 100 ml	Absent per 100 ml		IS: 15185:2016

Note: 1. ND= Not Detectable

Page No. 1/1

End of Report

Mr. Rahul

Authorized Signatory  
Mr. Nadeem

Authorized Signatory  
Mrs. Puja

- Note :
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  - The Court Jurisdiction will be Delhi.
  - Customer complaint register is available at the laboratory.



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6145

TC-6145

## TEST REPORT!

LR No.: T -614S24000000527F

Party Name : M/s Chitkara Unh-cnlty  
Chandigarh- P111al1 National IlghM-ay  
Village jh1 Insla, lbjpura, Dist. P1111111, Punjab

Report No. : EFTfl 19  
Format No. : 7.8 F-OIG  
Reporting D11le : 25.04.2024  
Anoly 1, Completion date : 20.04.2024 to 25.04.2024  
Receipt Date : 20.04.2024  
Sampling Dace : 19.04.2024  
S11mpflng Method : As per APIIA Method  
Sample Quantity : 2 L.tr.  
LSRF/Samplc ID : EITJGEN12404200119

Sample Description : Drinking Water  
Sampling Location : Pi C Hostel  
Source :  
Sample Collctcd by : Sampler

### TEST RESULT

S- No.	Parameter	Result	Unit	Limit of IS: JOS00-2012 (Revised 2018)		Test Method
				Requirement (Acceptable Limit)	Permissible limit in the Absence or Alternative Source (M/L)	
<b>Physical Parameters</b>						
1	pH (at 25 °C)	7.22	-	6.5 to 8.5	No Relaxation	IS 3025 (Part-1)
2	Total Dissolved Solids, (Max.)	345	mg/l	500	2000	IS 3025 (Part-16)
<b>General Parameters</b>						
1	Total Hardness as CaCO <sub>3</sub> , (Max.)	108.0	mg/l	200	600	IS 3025 (Part-21)
4	Calcium as Ca, (Max.)	30.6	mg/l	75	200	IS 3025 (Part-40)
5	Alkalinity as CaCO <sub>3</sub> , (Max.)	86.2	mg/l	200	600	IS 3025 (Part-23)
6	Chloride as Cl, (Max.)	56.9	mg/l	250	1000	IS 3025 (Part-32)
7	Nitrate as NO <sub>3</sub> , (Max.)	18	mg/l	45	No Relaxation	IS 3025 (Part-3-4)
8	Fluoride as F, (Max.)	ND	mg/l	1	1.5	IS 3025 (Part )
9	Magnesium as Mg, (Max.)	7.7	mg/l	30	100	APHA 3500-Mg (B)
10	Sulphate as S <sub>2</sub> , (Max.)	6.8	mg/l	200	400	IS 3025 (Part-24)
11	Nickel as Ni (Max.)	ND	mg/l	0.0	No Relaxation	IS 3025 (Part-54)
12	Sodium as Na, (Max.)	22.0	mg/l	No Relaxation	No Relaxation	IS 3025 (Part-15)
13	Potassium as K, (Max.)	3.6	mg/l	No Relaxation	No Relaxation	IS 3025 (Part-15)
14	Cobalt as Co (Max)	ND	mg/l			APHA 24th ed
15	Chromium as Cr, (Max.)	ND	mg/l	0.05	No Relaxation	IS 3025 (Part-52)
16	Copper as Cu, (Max.)	ND	mg/l	0.1	1.5	IS 3025 (Part-42)
<b>Microbiological Parameters</b>						
17	Total coliform	Absent	per 100 ml	Absent per 100 ml		IS 15185: 2016
18	E. coli	Absent	per 100 ml	Absent per 100 ml		IS 15185: 2016

Note: 1. ND = Not Detectable

End of Report

Page No. 1/1

Checked by  
Mr. Rahul

Authorized Signatory  
Mr. Nadeem

Authorized Signatory  
Mrs. Puja

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L45

## TEST REPORT

TC-6145

ULR No.; TC-61452400000529F

Party Name : M/s Chitkua University  
Chandigarh - Patiala National Highway  
Villagchhnsln, Rnjpurn, Dbt. r1ulal1, l'unjab

Report No. : EFT1121  
Formal No. : 7.8 F-OIG  
Rc1lorlng 011lc : 25.04.2024  
An11ly1b Complcllon c.hue : 20.04.2024 to 25.04.2024  
l{ecclpl D11te : 20.04.2024  
S1m1pllng Oale : 19.04.2024  
S11111pl11g Method : As per APHA lethod  
S11111plc Quantity : 2 Llr.  
LSRL./Sample ID : CErF/GE 12404200121

Sample Description : Drinking Water  
Sampling Location : AristoClc hoslel  
Source :  
Sample Collected by : Sampler

### TEST RESULT

S. No.	Parameter	Rtsult	Unll	Limit orIS: 10500-2012 (Rufnrmed • 2018)		T.,1-Method
				Requirement (i{ecpleable Limit)	Permluble limit In the Ab,ence Of Allernale Source (Mu.)	
<b>Physical Parameters</b>						
1	pH (at 25 °C)	7.65		6.5 to 8.5	No Relaxation	IS: 3025 (Part-1 I)
2	Total Dissolved Solids, (Max.)	370	mg/l	500	2000	IS: 3025 (Part-16)
<b>General Parameters</b>						
3	Total Hardness as CaCO <sub>3</sub> , (Max.)	112.0	mg/l	200	600	IS: 3025 (Part-21)
4	Calcium as Ca, (Max.)	28.6	mg/l	15	200	IS: 3025 (Part-40)
5	Alkalinity as CaCO <sub>3</sub> , (Max.)	78.8	mg/l	200	600	IS: 3025 (Part-23)
6	Chloride as Cl, (Max.)	52.9	mg/l	250	1000	IS: 3025 (Part-32)
7	Nitrate as NO <sub>3</sub> , (Max.)	4.6	mg/l	45	No Relaxation	IS: 3025 (Part-34)
8	Fluoride as F, (Max.)	ND	mg/l	1	1.5	IS: 3025 (Part-60)
9	Magnesium as Mg, (Max.)	9.8	mg/l	30	100	APHA 3500-Mg (B)
10	Sulphate as SO <sub>4</sub> , (Max.)	14.5	mg/l	200	400	IS: 3025 (Part-24)
11	Nickel as Ni (Max.)	ND	mg/l	0.0	No Relaxation	IS: 3025 (Part-54)
12	Sodium as Na, (Max.)	24.0	mg/l	No Relaxation	No Relaxation	IS: 3025 (Part-45)
13	Potassium as K, (Max.)	3.1	mg/l	No Relaxation	No Relaxation	IS: 3025 (Part-45)
14	Cobalt as Co (Max)	ND	mg/l	.	.	APHA 24th Edd. 2023
15	Chromium as Cr, (Max.)	ND	mg/l	0.05	No Relaxation	IS: 3025 (Part-52)
16	Copper as Cu, (Max.)	ND	mg/l	0.1	1.5	IS: 3025 (Part-42)
<b>Microbiological Parameters</b>						
17	Total coliform	Absent	per 100ml	Absent per 100 ml		IS: 15185:2016
18	E.coli	Absent	per 100ml	Absent per 100 ml		IS: 15185:2016

Nolt: J. ND= Nol Delectable

Pilge No. 1/1

Checked by  
Mr. Rahul

Authorized Signatory  
Mr. Nagnatory  
adcem

Authorized Signatory  
Mrs. Puja

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C-6145  
TC-6145

## TEST REPORT I

ULR o.: TC-61452400000530F

Party Name : Mis Chitkara University  
Chandigarh - Patlna National Highway  
Village jhansla, Rajpura, Dist. Patlna, Punjab

Report No. : CEFTI122  
Format No. : 7,8 F-OIG  
Reporting Dale : 25.04.2024  
Analysis Complcllon date : 20.04.2024 to 25.04.2024  
Receipt **Date** : 20.04.2024  
Sampling Dute : 19.04.2024  
Sampling Method : As per APHA Mtlhod  
Sample Quantity : 2 Ltr.  
LSRF/Sumple ID : CEFTjGENI2404200122

Sample Description : Drinking Water  
Sampling Location : **Franklin** Hostel  
Source :  
Sample Collected by : Sampler

### TEST RESULT

S. No.	Parameter	RtJULT	Unit	Limle or IS: 10500-2012 (Rtrfirmed-2018)		Test-Method
				Rtqrtrtment (Acceptable Limit)	Permluible limit in the A bse ncr of Alternate Source (Max.)	
<b>Physical Parameters</b>						
I	pH (at 25 °C)	7.77	.	6.5 to 8.5	No Relaxation	IS:3025 (Part-I I)
2	Total Dissolved Solids, (Max.)	374	mg/l	500	2000	IS: 3025 (Part-16)
<b>General Parameters</b>						
3	Total Hardness as CaCO <sub>i</sub> , (Max.)	110.0	mg/l	200	600	IS: 3025 (Part-21)
4	Calcium as Ca, (Max.)	28.2	mg/l	75	200	rS: 3025 (Part-40)
5	Alkalinity as CaCO <sub>i</sub> , (Max. .)	16.5	mg/l	200	600	IS: 3025 (Part-23)
6	Chloride as Cl, (Max.)	54.9	mg/l	250	1000	rs: 3025 (Part-32)
7	Nia-ate as NO <sub>3</sub> , (Max.)	4.6	mg/l	45	No Relaxation	IS:3025 (Part-34)
8	Fluoride as F, (Max.)	ND	mg/l	1	1.5	IS:3025 (Part-60)
9	Magnesium as Mg,(Max.)	9.6	mg/l	30	100	APHA 3500-Mg (B)
10	Sulphate as SO <sub>4</sub> ,(Max.)	14.2	mg/l	200	400	IS: 3025 (Part-24)
II	Nickel as Ni (Max.)	ND	mg/l	0.0	No Relaxation	IS: 3025 (Part-54)
12	Sodium as Na, (Max.)	22.0	mg/l	No Relaxat ion	No Relaxation	IS: 3025 (Part-45)
13	Potassium as K, (Max.)	2.8	mg/l	No Relaxation	No Relaxation	IS: 3025 (Part-45)
14	Cobalt as Co (Max)	ND	mg/l	.	-	APHA 24th Edd.
15	Chromium as Cr, (Max.)	ND	mg/l	0.05	No Relaxation	IS 3025 (Part-52)
16	Copper as Cu, (Max.)	ND	mg/l	0.1	1.5	IS: 3025 (Part-42)
<b>Microbiological Parameters</b>						
17	Total colifonn	Absent	per 100ml	Absent per 100 ml		IS:15185:2016
18	E.coli	Absent	per 100 ml	Absent per 100 ml		IS:15185:2016

Note: I. ND= Not Detectabl

**Che**  
**Mr. Rahul**

\*\* End of Report\*\*  
  
**Authorized Signatory**  
**Mr. Nadeem**

**Authorized Signatory**  
**Mrs. Puja**

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## TEST REPORT

TC-6145

ULR No.: TC-61452400000538F

Party Name : M/5 Chitkara University  
Chandigarh - Patiala National Highway  
Village Jhansla, Rajpura, Dist. Patiala, Punjab

Report No. : CEFTJ123  
Formal No. : 7.8 F-0IG  
Reporting Date : 25.04.2024  
Analysis Completion date : 20.04.2024 to 25.04.2024  
Receipt Date : 20.04.2024  
Sampling Date : 19.04.2024  
Sampling Method : As per APFIA Method  
Sample Quantity : 2 Ltr.  
LSRF/Sample ID : CEFTIGEN12404200123

Sample Description : Drinking Water  
Sampling Location : ION Hostel  
Source :  
Sample Collected by : Sampler

### TEST RESULT

S. No.	Parameter	Result	Unit	Limit of IS: IOS00-2012 (Rurlimrd - 2018)		Tut-Method
				Requirement (Acceptable Limit)	Permissible limit in the Absence or Alternate Source (MaL)	
<b>Physical Parameters</b>						
1	pH (at 25 °C)	7.44	-	6.5 to 8.5	No Relaxation	IS: 3025 (Part-1)
2	Total Dissolved Solids, (Max.)	362	mg/l	500	2000	IS: 3025 (Part-16)
<b>General Parameters</b>						
J	Total Hardness as CaCO <sub>3</sub> , (Max.)	124.0	mg/l	200	600	IS: 3025 (Part-21)
4	Calcium as Ca, (Max.)	35.4	mg/l	75	200	IS: 3025 (Part-40)
5	Alkalinity as CaCO <sub>3</sub> , (Max.)	88.4	mg/l	200	600	IS: 3025 (Part-23)
6	Chloride as Cl, (Max.)	62.9	mg/l	250	1000	IS: 3025 (Part-32)
7	Nitrate as N, (Max.)	5.1	mg/l	45	No Relaxation	IS: 3025 (Part-34)
8	Fluoride as F, (Max.)	ND	mg/l	1	1.5	IS: 3025 (Part-60)
9	Magnesium as Mg, (Max.)	8.6	mg/l	30	100	APHA 3S00-Mg(B)
10	Sulphate as SO <sub>4</sub> , (Max.)	14.4	mg/l	200	400	IS: 3025 (Part-24)
11	Nickel as Ni, (Max.)	ND	mg/l	0.0	No Relaxation	IS: 3025 (Part-54)
12	Sodium as Na, (Max.)	24.0	mg/l	No Relaxation	No Relaxation	IS: 3025 (Part-45)
13	Potassium as K, (Max.)	3.4	mg/l	No Relaxation	No Relaxation	IS: 3025 (Part-45)
14	Cobalt as Co, (Max.)	ND	mg/l	-	-	APHA 24th Ed.
15	Chromium as Cr, (Max.)	ND	mg/l	0.05	No Relaxation	IS: 3025 (Part-52)
16	Copper as Cu, (Max.)	ND	mg/l	0.1	1.5	IS: 3025 (Part-42)
<b>Microbiological Parameters</b>						
17	Total coliform	Absent	per 100 ml	Absent per 100 ml		IS: 15185:2016
18	E. coli	Absent	per 100 ml	Absent per 100 ml		IS: 15185:2016

Note: I. ND= Not Detectable



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No. 1/1



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Mr. Rahul

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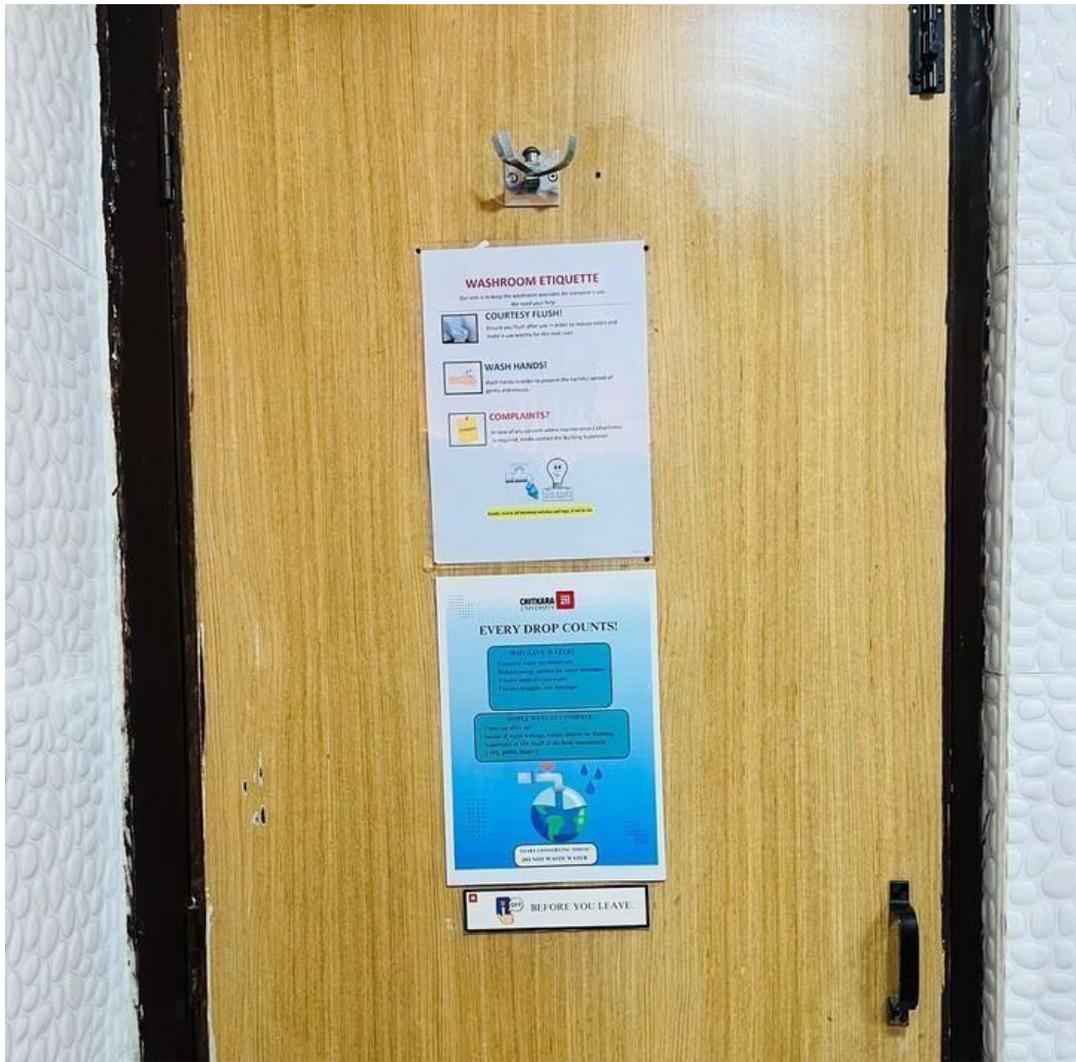
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# Awareness Posters for Staff & Students





# EVERY DROP COUNTS!

## WHY SAVE WATER?

- Conserve water for future use.
- Reduce energy needed for water treatment.
- Protect natural ecosystems.
- Prevent droughts and shortages.

## SIMPLE WAYS TO CONSERVE:

- Close tap after use
- In case of water leakage, kindly inform the Building Supervisor or HK Staff of the floor immediately.  
[ +91. 86996.96661 ]



**START CONSERVING TODAY!  
DO NOT WASTE WATER**



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 Tel. No. 91-1493-518608, Fax: 91-1493-518615  
 Website: www.jaquar.com

No.: JQR / 2017 / 1119  
 Dated: 20.11.2017

## TO WHOM SO EVER IT MAY CONCERN

Indian Green Building Council / LEED India / GRIHA have following baseline requirements for water consumption;

### **IGBC Green New Buildings Rating System**

(Version: 3, March, 2015 Edited with Addendum 2.0)

Fixtures	Baseline (Maximum Flow Rate / Consumption)	Pressure
Water Closets (Full-flush)	6.0 LPF	-
Water Closets (Half-flush)	3.0 LPF	-
Urinals	4.0 LPF	-
Faucets / Taps	6.0 LPM	3 Bar
Health Faucets	6.0 LPM	3 Bar
Showerhead / Handheld Spray	10.0 LPM	3 Bar

#### **POINTS ARE AWARDED AS BELOW:**

- CREDIT POINT 1 : Water Consumption 8% lower than baseline
- CREDIT POINT 2 : Water Consumption 12% lower than baseline
- CREDIT POINT 3 : Water Consumption 16% lower than baseline
- CREDIT POINT 4 : Water Consumption 20% lower than baseline
- CREDIT POINT 5 : Water Consumption 24% lower than baseline

### **IGBC Green Existing Buildings O&M Rating System**

(Pilot Version, Abridged Reference Guide, April, 2013)

Fixtures	Baseline (Maximum Flow Rate / Consumption)
Water Closets	6.0 LPF
Faucets / Taps	8.0 LPM
Urinals	4.0 LPF

#### **POINTS ARE AWARDED AS BELOW:**

- CREDIT POINT 2 : Water Consumption 20% lower than baseline
- CREDIT POINT 4 : Water Consumption 30% lower than baseline
- CREDIT POINT 6 : Water Consumption 40% lower than baseline

(Contd.....2)

**JAQUAR INTERNATIONAL HEADQUARTER:**

**Plot No. 3, Sector - M 11, IMT Manesar, Haryana-122050 (INDIA), Phone: 91-124-4756960**

**Ground Water is a precious Natural resource, Protect it, Preserve it. SAVE WATER – SAVE HUMANITY**



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 Tel. No. 91-1493-518608, Fax: 91-1493-518615  
 Website: www.jaquar.com

: 2 :

## LEED India for Core & Shell Projects (Version: September, 2011) & LEED India New Construction & Major Renovations (Version: February, 2011)

Fixtures	Baseline Flow Requirement	
	Gallon	Ltr.
Commercial Toilets	1.6 GPF	6.0 LPF
Commercial Urinals	1.0 GPF	4.0 LPF
Commercial Lavatory (Restroom) Faucets - For Private Application Only (Hotel/Motel Guest Rooms, Hospital Patient Rooms) at 58 PSI	2.2 GPM	8.5 LPM
Commercial Lavatory (Restroom) Faucets - All others except Private Applications at 58 PSI	0.5 GPM	2.0 LPM
Commercial Pre-rinse Spray Valves (For Food Service Applications)	1.6 GPM	6.1 LPM
Residential Toilets	1.6 GPF	6.1 LPM
Residential Lavatory (Bathroom) Faucets at 58 PSI (4 Bar)	2.2 GPM	8.5 LPM
Residential Kitchen Faucets at 58 PSI (4 Bar)		
Residential Showerheads at 80 PSI (5.5 Bar)	2.5 GPM	9.5 LPM

### POINTS ARE AWARDED AS BELOW:

- CREDIT POINT 2 : Water Consumption 30% lower than baseline
- CREDIT POINT 3 : Water Consumption 35% lower than baseline
- CREDIT POINT 4 : Water Consumption 40% lower than baseline

### GRIHA

#### Criterion 11:

- o 11.3.1 Reduction in water consumption by 25%. (1 point) - Mandatory
- o 11.3.2 Water-use reduction by 50%. (additional 1 point)
- Non Applicability condition:** All faucets, which are installed in spaces with water head heights less than 15 feet (4.6 m), in a gravity fed plumbing system, can be exempt for calculations in Criterion 11.

Testing Pressure will be 45PSI or 3.1 Bar.

Fixture	GRIHA Base Case lpm/lpf
Water Closets (Solid)	9
Kitchen Faucets	10
Water Closets (Liquid)	9
Urinals	4
Showers	10
Lavatory Faucets	10

(Contd.....3)

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Plot No. 3, Sector - M 11, IMT Manesar, Haryana-122050 (INDIA), Phone: 91-124-4756960

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: 3 :

JAQUAR water efficient products can contribute maximum credit points toward Green Building / LEED / GRIHA Certification.

We are able to **provide reduction** in water flow as per customer's requirement. We can supply the following products to **get due credit** as per norm of IGBC / LEED / GRIHA;

Sl. No.	Fixture	Offered Product Code	3.0-5.5 Bar (44-80 PSI)	Product should be ordered with suffix as	
01.	Water Closets (Solid/Liquid)	<b>Water Closets (Flush Valves)</b> 51093, 1093, 1093SQ, 1095, 1095SQ, 1093DFP, 1095DFP, 1015	4.0	G	
		<b>Water Closets (Flush Valves Dual Flow)</b> 1085, 1085SQ, 1085DFP, 1089, 1089SQ, 1089DFP	4.0 / 2.0	G	
02.	Kitchen Faucets	<b>Single Lever Sink Mixers</b> 38173B, 39173B, 40173B, 81173B, 29163, 29009B, 29173B, 6163, 6173B, 5163, 5166, 5173B, 5179B, 5007B, 5009B, 3163, 3173B, 33163, 33173B, 10173BPM, 15173BPM	2.5 6.0 8.0 13.0	G GA GB GC	
		<b>Sink Mixers</b> 6309, 7309, 5309N, 5309ND, 5319NB, 23309, 23309B, 23321B, 309KN, 309KNB, 319KN, 319KNB, 321KNB, 3309, 3319	3.8 1.3	GD GE	
		<b>Sink Cocks</b> 6347, 6357, 6359, 7347, 5347N, 5347ND, 5357N, 5357ND, 5359N, 23347, 347KN, 349KN, 357KN, 359KN, 3357			
		<b>Products fitted with Permex Size 18x1 / 20x1</b>			
		38165, 38309, 39165, 39309, 40165, 37309, 81165, 35179FB, 29165, 7319B, 6165, 6319B, 5165, 5179B, 35179B, 35179FB	6.0 8.0 3.8	GA GB GD	
		19309, 6309SE 38347, 39347, 37347 19347, 6347SE			

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 Tel. No. 91-1493-518608, Fax: 91-1493-518615  
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03.	Lavatory Faucets	<b>Pillar Cocks / Basin Taps</b> 35001F, 35021F, 29001, 29021, 6011, 6021, 7011, 5011N, 5021N, 5031, 35021F, 031, 031L65, 83011 23011, 23021, 23123 / 23127, 021KN, 123BKN, 127BKN, 33011, 33021	2.5 6.0 8.0 13.0	G GA GB GC
		<b>Bib Cocks / 2-Way Bib Cocks</b> 35037F, 35041F, 29037, 29041, 6037, 6041, 6047, 7037, 7041, 5037N, 5041N, 5047N, 043, 83037, 10037PM, 10041PM, 15037PM, 15041PM 23037, 23047, 23041, 33037, 33041, 33047	3.8 1.3	GD GE
		<b>Central Hole / 3-Hole Basin Mixers</b> 35167FB, 35169FB, 7167B, 7169B, 7189, 7191, 7171, 7173, 5167NB, 5169NB 23167B, 23169B, 167KNB, 169KNB, 3169B, 3171B, 3181B		
		<b>Single Lever Basin Mixers</b> 38001B, 38005B, 38051B, 39001B, 39005B, 39051B, 40001B, 40005B, 40051B, 37011B, 37005B, 37051B, 35009FB, 35023FB, 35052FB, 29011B, 29005B, 29051B, 6001B, 6051B, 5001B, 5003B, 5005B, 5051B, 5063B, 3001B, 3051B, 7001B, 7051B, 33001B, 33051B, 5033B, 10005BPM, 10011BPM, 10051BPM, 15005BPM, 15011BPM, 15051BPM, 10233KPM, 15233KPM		
		<b>Sensors Basin Mixer</b> 51011, 51021, 51021A, 51027, 51071		
		<b>Conc. Stop Cocks with Basin Spout</b> 37433, 37441K, 10433PM, 10441KPM, 15441KPM		
		<b>Wall Mixers / Bath &amp; Shower Mixers</b> 38119, 39119, 40119, 37119, 81119, 35119F, 35129F, 35143F, 29119, 29143, 29267, 29273UPR, 29281, 6119, 6143, 6217, 6219, 6267, 6271, 6273UPR, 6281, 7217, 7219, 7267, 7271, 7273UPR, 7277, 7281, 5119, 5129, 5143, 5217N, 5219N, 5267N, 5271N, 5273NUPR, 5281N, 3119, 33119, 33141, 33143, 49119, 49119J, 85119, 10115PM, 10117PM, 10119PM, 10125PM 23217UPR, 23219, 23267, 23273KNUPR, 23281UPR, 217KN, 219KN, 267KN, 271KN, 273KNUPR, 281KN, 6217SE, 6267SE, 6273SEUPR, 6281SE, 19267, 19273UPR, 19281, 33273UPR, 35115PM, 35117PM, 35119PM, 35125PM		

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	<b>Bath Tub Spouts, Bath Tub Mixer &amp; Bath Fillers</b> 7429, 7463, 29429, 29463, 35429, 35463, 81429, 81463, 37429, 37463, 29135, 29137, 49429, 49463, 35135F, 35137F, 85429, 85463, 10429PM, 10463PM, 15429PM, 15463PM, 429, 433, 463, 439, 461, 467 5429, 5463, 6135, 6137, 6435, 6437, 5123, 5133, 5135, 5137, 5435N, 5437N	2.5 6.0 8.0 13.0 3.8 1.3	G GA GB GC GD GE
	<b>Products fitted with Permex Size 18x1 / 20x1</b>		
	<b>Pillar Cocks / Basin Tap</b> 38011, 38021, 39011, 39021, 40011, 40021, 37001, 37021, 81001, 81021, 5015, 49001, 49021, 061, 85001, 85021, 15001PM, 15021PM, 10001PM, 10021PM, 35001PM, 35021PM 6011SE, 19011	6.0 8.0 3.8	GA GB GD
	<b>Bib Cocks, 2-Way Bib Cocks</b> 37037, 37041, 38037, 38041, 39037, 39041, 40037, 40041, 81037, 81041, 5043, 49037, 49041, 85037, 85041, 35037PM, 35041PM 6041SE, 6047SE, 19041, 19047		
	<b>Single Lever Basin Mixers</b> 5025B, 81005B, 81011B, 81051B, 49009B, 49011B, 49009J, 49011J, 35025B, 85005B, 85011B, 35005BPM, 35011BPM, 35051BPM		
	<b>Central Hole / 3-Hole Basin Mixers</b> 6189, 6191, 5189N, 5191N, 6167B, 6169 6167BSE, 6169SEB, 19167B, 19169B		
	<b>Concealed Stop Cocks with Basin Spout</b> 38433, 38441, 39433, 39441, 40433, 40441, 81433, 81441, 35433F, 35441F, 29433, 29441, 6433, 6441, 5433N, 5441N, 35433PM, 35441KPM		
	<b>Single Lever Basin Mixer Wall Mounted (Kit)</b> 37233K, 38233K, 39233K, 40233K, 81233K, 35233FK, 29233K, 6233K, 5233K, 3233K, 49233K, 49233JK, 33233K, 19233K, 85233K, 10233KPM, 35233KPM		
	<b>Basin Spout</b> 5443, 5447		

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04.	Urinals	077, 51077, 51083, 51087, 51097	1.5	G
05.	Showers	<b>Over Head Showers</b> 1603, 1605, 1613, 1619, 1623, 1629, 1633, 1635, 1637, 1639, 1709, 1719, 1755, 1757, 1759, 1769, 1779, 1787, 1789, 1799, 1843, 1985, 1989, 497N, 35495, 35497, 1801, 1995, 1999  <b>Hand Showers</b> 1717, 1721, 1727, 1729, 1731, 1737, 1739, 1797, 85537, 1653, 1655, 1657, 5537N, 35537, 49537, 9537N, 1929, 1931, 1937, 1939, 1981, 5541	6.0 8.0 12.0	GA GB GC
06.	Health Faucet	583, 585, 565, 563, 573, 577, 579, 583, 593N	3.8 6.0 8.0	GD GA GB

**A) EXCLUDED PRODUCTS:**

- i) Single Lever Divertors and 4-Way Divertors, Thermostatic Concealed Bath & Shower Mixers etc. are not supplied with any flow regulator, because these are meant for supply to Over Head Showers or Spouts. Regulators for Over Head Showers and Spouts are available separately.
  - ii) Similarly Angle Cocks and Concealed Stop Cocks are meant for supply to Basin Mixer / Geysers / Pipeline and regulator is provided at outlet point.
- B)** Product shall be supplied with suffix G for Urinals and Water Closets. GA, GB & GC for Showers, GD, GA & GB for Health Faucets. G, GA, GB, GC, GD & GE for other Faucets after product code according to the capacity given in this circular.

**C) PRICING & SPARE PARTS CODE FOR FLOW RESTRICTORS & BRASS HOUSING:**

AS PER CIRCULAR, EXISTING REGULAR PRODUCTS SHOULD BE CONVERTED INTO GREEN BUILDING. PLEASE CONTACT TO CUSTOMER CARE DIVISION FOR SPARE PART CODE AND PRICE OF GREEN BUILDING FLOW RESTRICTORS AS WELL AS BRASS HOUSING.

(SHEEL NAINWAL)

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## AWARDS AND RECOGNITIONS

