CHITKARA UNIVERSITY

WATER REPORT 2025-26

"Saving Water – Shaping Tomorrow"

Courtesy:- Office of Infrastructure Development

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WATER MANAGEMENT

Sources of fresh water

The source of the fresh water of the 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 m3/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
Tubewell/ 2022	492	200	45.00	7/365	33.00	Yes
Tubewell/ 2023	492	200	45.00	7/365	33.00	Yes

There is no surface water supply or any alternate source of water supply for the institution campus. “The University has obtained the Permission / NOC from the Punjab Water Regulation & Development Authority (PWRDA) for total freshwater abstraction of 847 KLD and use of 04 tubewells (03 Existing + 01 Proposed)”. Tube wells installed with electromagnetic flow meter with telemetric module. The maximum monthly water abstraction of the university during the financial year 2024-2025 was 20539.9m^3.

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Photographs of Tubewells along with Flowmeters at University Campus

The University has maintained a record of ground water abstraction. Water meter readings are recorded daily.

Ground water extracted (in cubic meter) 2024-25		**STP Water (in cubic meter) 2024-25**		**Sludge Record (in Kgs.) 2024-25**		
Month	**Volume (CUM)**	**Month**	**Volume (CUM)**	**Month**	**STP - 1**	**STP - 2**
Apr-24	20176	Apr-24	12468	Apr-24	45	70
May-24	17711.7	May-24	13516	May-24	60	90
Jun-24	9856.3	Jun-24	7870	Jun-24	45	80
Jul-24	17802.2	Jul-24	11861	Jul-24	60	110
Aug-24	20539.9	Aug-24	12108	Aug-24	55	90
Sep-24	20178.8	Sep-24	11209	Sep-24	50	95
Oct-24	19056.5	Oct-24	10225	Oct-24	60	110
Nov-24	17371.2	Nov-24	10741	Nov-24	55	90
Dec-24	15304.4	Dec-24	10399	Dec-24	45	75
Jan-25	14545.87	Jan-25	8938	Jan-25	65	85
Feb-25	14061.77	Feb-25	8221	Feb-25	50	85
Mar-25	13608.8	Mar-23	8739	Mar-25	50	90
Total	**200213.44**	**Total**	**126295**	**Total**	**640**	**1070**

Table 1– Monthly Fresh Water Abstraction/STP Treated and Sludge Data for last 12 months

WATER STORAGE FACILITIES WITHIN THE CAMPUS

1. One Overhead Tank of Capacity 400 KL
2. One Underground Storage Tank of capacity 400 KL
3. One Underground storage Tank of capacity 100KL

Overhead Tank of Capacity 400KL

Underground storage tank of 400 KL

SEWAGE TREATMENT PLANTS

The university has two Sewage Treatment plants based on the MBBR technology to treat wastewater of capacity 250 KLD and 1 MLD. A new STP of 2 MLD is going to be commissioned in August 2024.

General Process Description for 250 KLD STP with FAB Technology

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

I. Stage 1: Primary Treatment

Bar Screen & Collection Chamber – Bar screen chamber is the first step at STP which removes large solid waste particles, such as plastics, rags, and debris from the incoming sewage before further treatment. The chamber consists of a series of vertical bars or grates, spaced at a predetermined distance. As sewage flows through, these solids are caught by the bars, while the filtered water continues into the next stage of treatment. The collected debris is then manually or mechanically removed at regular intervals.

Equalization Tank - After the bar screen chamber, the sewage flows to the equalization tank, which helps to stabilize the flow and characteristics of the wastewater before further treatment. The equalization tank serves as a buffer, allowing fluctuations in sewage volume or quality to be balanced. It helps to ensure a steady, uniform flow to the next treatment stages, reducing the risk of overloading or damaging equipment. The tank allows for the mixing of wastewater, homogenizing its properties, such as pH and chemical composition, to ensure efficient treatment in subsequent.

II. Stage 2: Secondary or biological treatment

Fab Reactor - After the equalization tank, the sewage flows into the FAB (Fluidized Aerobic Bioreactor) reactor, where biological treatment occurs. The FAB reactor uses suspended plastic media, which are aerated and kept in motion by the incoming wastewater. This media provides a surface area for microorganisms to attach and grow. As the sewage passes through, the microorganisms degrade organic pollutants, breaking them down into simpler compounds. The aeration helps maintain an oxygen-rich environment for microorganisms to thrive, enhancing the

treatment efficiency. This process effectively reduces the biochemical oxygen demand (BOD) and other contaminants before the water moves on to further treatment stages.

Flocculation Tank –After the FAB reactor, the treated wastewater flows into the flocculation tank, where coagulation and flocculation processes occur. In this stage, chemicals (such as coagulants) are added to the water to neutralize the charges on suspended particles. This causes the particles to clump together, forming larger aggregates called flocs. The tank is gently stirred to promote the formation of these flocs, which can then be easily removed in subsequent stages, like sedimentation or filtration. The flocculation tank helps further reduce suspended solids and prepares the water for final clarification, improving the overall treatment quality before discharge or further processing.

Clarifier-After the flocculation tank, the wastewater flows into the clarifier, where the flocs formed during the flocculation process are allowed to settle. The clarifier is a large tank with a calm water zone, where gravity helps separate the heavier flocs from the treated water. The settled sludge collects at the bottom, while the clearer water rises to the top and flows out for further treatment or discharge. The sludge is periodically removed and sent for further processing, such as dewatering. The clarifier effectively reduces the suspended solids in the water, ensuring that the treated effluent meets the required quality standards before it moves on to the next treatment step.

Filter Feed Tank –After the clarifier removes larger solids, the effluent is directed to the filter feed tank, which serves as a holding and equalization chamber. It ensures a steady flow of water with a consistent quality to the filters. The tank also helps to mix and stabilize the water before it enters the filtration units, allowing finer particles and remaining suspended solids to be removed more efficiently.

III. Stage 3: Tertiary treatment

Pressure Sand Filter – The PSF removes fine particles and impurities from the domestic effluent. Treated effluent from the filter feed tank enters the filter under pressure, passing through layers of sand and gravel. These layers act as a medium to trap suspended solids, organic matter, and other contaminants. As the water moves through the filter, the sand captures finer particles, improving water clarity and quality. The filtered water is then sent for further treatment in ACF.

Activated Carbon Filter –The ACF placed after the PSF which further purifies the water by adsorbing dissolved organic compounds, chemicals, and residual odours. Water from the PSF flows through a bed of activated carbon, which has a high surface area and is highly effective at trapping pollutants. The activated carbon attracts and holds contaminants like chlorine, heavy metals, and organic molecules, improving the water's quality and clarity. This step ensures that the treated water meets higher standards before being discharged or reused.

IV. Stage 4: Sludge Treatment

Sludge Drying Beds- Once the sewage is clarified, the remaining sludge, which contains water and solid waste, is pumped into these drying beds. The beds are designed to allow water to drain through the porous material, such as gravel or sand, while the sludge is left to dewater and dry. The sludge is exposed to sunlight and air, which helps in evaporation of water content. Over time, the solid matter reduces in volume, making it easier to dispose of or further process. The dried sludge can be removed periodically for disposal or reuse, depending on its composition and the plant's specific needs. Sewage Treatment Plant of Capacity 250 KLD

General Process Description for 1 MLD STP With MBBR Technology

The Treatment Plant is based on MBBR Technology having 1 MLD capacity with following treatment scheme.

I. Stage 1: Primary Treatment

Bar Screen Chamber - The bar screen chamber removes large debris and solid waste from the incoming sewage. As the wastewater flows through the chamber, a series of vertical bars or screens catch and trap larger particles such as plastics, rags, sticks, and other non-biodegradable materials. These materials are then mechanically removed and disposed of. The bar screen chamber helps prevent damage to subsequent treatment equipment and ensures that only finer particles proceed to the next stages of treatment, improving the overall efficiency of the sewage treatment process.

Equalization Tank – The equalization tank helps to stabilize and balance the flow and quality of incoming wastewater. It serves as a holding reservoir, where the flow of wastewater is regulated to ensure consistent and uniform feed to the next stages of treatment. By holding the water for a period, the tank allows for the equalization of variations in flow rate and pollutant concentrations. This helps prevent overloading of the treatment system, ensuring more efficient processing and optimal performance of downstream equipment, such as the clarifiers and filters.

Oil & Grease Trap – The oil and grease trap remove oils, fats, and grease from the wastewater. As the water enters the trap, these lighter substances float to the surface due to their lower density. The trap captures and separates the oils and grease, preventing them from interfering with the treatment process and clogging equipment. The separated oil and grease are then removed regularly for disposal. This step ensures that the subsequent treatment stages, such as filtration and disinfection, operate efficiently, and it helps meet environmental standards for wastewater discharge.

II. Stage 2: Secondary or biological treatment

MBBR Reactor 1 – The MBBR (Moving Bed Biofilm Reactor) Reactor 1 is a biological treatment unit that helps further degrade organic matter in the wastewater. In this reactor, the treated water is passed over plastic biofilm carriers that are suspended and move freely within the tank. These carriers provide a surface for beneficial microorganisms to attach and grow. As the

wastewater flows through, these microorganisms consume organic pollutants, breaking them down into simpler substances. The MBBR reactor improves the efficiency of the treatment process by enhancing biological treatment and reducing the load on subsequent stages like clarification and filtration.

MBBR Reactor 2 –MBBR Reactor 2 serves as a secondary biological treatment stage to further enhance the removal of organic pollutants. Similar to Reactor 1, it uses moving bed biofilm carriers to provide a surface for microorganisms to break down residual organic matter in the wastewater. The water flows through the reactor, where the microorganisms continue to degrade pollutants. The second reactor allows for more thorough treatment, ensuring that the effluent meets the required quality standards before moving on to subsequent stages like clarification or filtration. This step optimizes the overall biological treatment process, improving the efficiency of the plant.

Coagulation Tank –The coagulation tank, located after MBBR Reactor 2, is where chemicals (usually coagulants like alum) are added to the treated wastewater to destabilize and aggregate fine particles, colloids, and remaining contaminants. As the coagulants mix with the water, they bind with suspended particles, forming larger clumps or "flocs." These flocs can then be easily removed in subsequent treatment stages, such as clarification or sedimentation. The coagulation process enhances the removal of fine particles that were not fully degraded or removed in the biological treatment process, improving the overall quality of the effluent before final discharge or reuse.

Clarifier –The clarifier, located after the coagulation tank, is a sedimentation unit which remove suspended particles from the wastewater. After coagulation, the flocs formed by the coagulants settle to the bottom of the clarifier due to gravity. The clarified water rises to the surface and is then collected for further treatment or discharge. The settled sludge at the bottom is periodically removed and sent for disposal or further processing. The clarifier helps ensure that the water is free from suspended solids and meets the required quality standards before moving on to final treatment stages like filtration or disinfection.

Filter Feed Tank – The filter feed tank, located after the clarifier serves as a reservoir to stabilize and store the clarified water before it moves to the filtration stage. It helps ensure a steady, even flow of water to the filters by preventing fluctuations in the incoming water quality and flow rate. The tank also allows for the removal of any remaining suspended particles that may have escaped

the clarifier. By providing a controlled environment, the filter feed tank ensures that the water entering the filtration system is consistent, optimizing the performance and efficiency of subsequent treatment processes like pressure filtration.

III. Stage 3: Tertiary treatment

Pressure Sand Filter – The pressure sand filter removes fine suspended solids from the clarified water. As the water is pumped under pressure through the filter, it passes through layers of sand and gravel, which trap and retain the remaining particles. This filtration process improves the water quality by removing smaller impurities that were not captured during previous stages. Over time, the filter becomes clogged with trapped solids, and periodic backwashing is performed to clean the filter, ensuring its continued efficiency in producing high-quality effluent.

Activated Carbon Filter – The activated carbon filter, located after the pressure sand filter, further purifies the water by removing dissolved organic compounds, chemicals, and odors. Water flows through a bed of activated carbon, which has a high surface area that adsorbs pollutants such as chlorine, pesticides, and organic contaminants. This step helps to improve the clarity and taste of the treated water, ensuring it meets higher standards for discharge or reuse. Over time, the activated carbon becomes saturated with contaminants and requires replacement or regeneration to maintain its effectiveness in the filtration process.

Hypochlorite Dosing – Hypochlorite dosing, applied after the activated carbon filter, is a disinfection step to eliminate any remaining pathogens or microorganisms in the treated water. Sodium hypochlorite, commonly known as bleach, is dosed into the water to kill bacteria, viruses, and other harmful microorganisms. The hypochlorite reacts with the pathogens, breaking down their cell walls and rendering them inactive. The dosing is carefully controlled to ensure effective disinfection while avoiding over-chlorination. This step ensures the treated water is safe for discharge or reuse, meeting health and environmental standards.

Treated Water Tank – The treated water tank serves as a storage and final holding point for the disinfected water. After the hypochlorite dosing process, the water is stored in this tank to allow for any residual chlorine to dissipate and ensure proper mixing. It also provides a buffer to maintain a steady flow of treated water for discharge or reuse. The tank ensures that the treated water has undergone sufficient disinfection and has a consistent quality before it is reuse of flushing & gardening purpose inside the University.

IV. Stage 4: Sludge Treatment

Sludge Drying Beds

Sludge Drying Machine – The sludge drying machine is used to reduce the volume of the sludge

by removing excess water. After the clarifier separates solids from the treated wastewater, the remaining sludge is transferred to the drying machine. The machine uses heat, mechanical pressure, or a combination of drying the sludge, causing the water content to evaporate. This results in a significantly drier, more concentrated sludge that is easier to handle, store, or dispose of. The dried sludge can also be repurposed for use as a soil conditioner or disposed of in a more environmentally friendly manner.

Sludge Drying Beds – The sludge drying beds provide an additional stage for the further drying and dewatering of sludge. After the sludge has been partially dried in the machine, it is spread onto the drying beds, which consist of a porous material like sand or gravel. These beds allow excess moisture to drain away, while the sun and air help to evaporate the remaining water. The sludge is periodically turned or moved to speed up the drying process. Drying beds effectively reduce the volume of sludge, making it easier to handle, store, or dispose of while minimizing environmental impact.

Treated wastewater being used in the campus and Sewage Treatment Plant of capacity 1 MLD

Treated wastewater being used in the campus and Sewage Treatment Plant of capacity 1 MLD

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

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 channel 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.

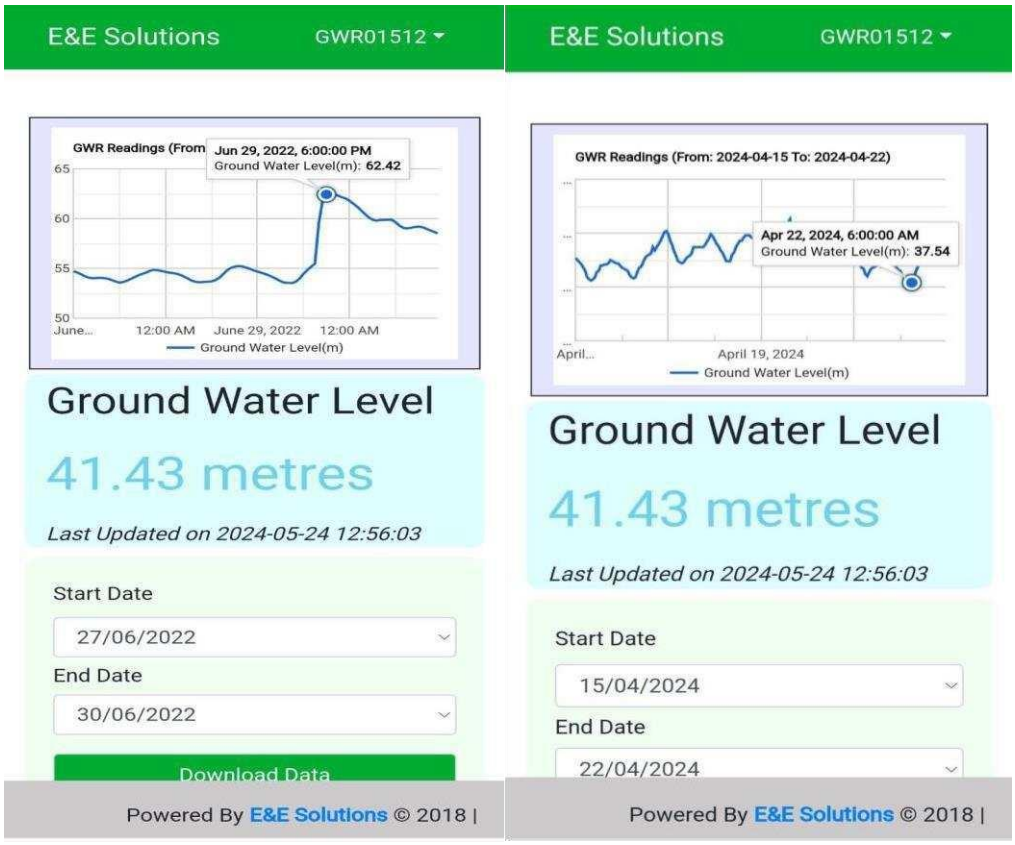
GROUND WATER LEVELS IN PATIALA

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 the 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 must 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 18 Rainwater Harvesting points at different locations.

GROUND WATER LEVEL IMPROVEMENTS



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 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 **Chitkara University, Punjab** Chandigarh Patiala National Highway Vill. Jansla, Banur, Distt. Patiala	Purchase Order No. **CU/PB/PO/ 22-23/5898**	Dated **28-Oct-22**
	Mode/Terms of Payment: **Credit**	
Supplier **Mech Engineers** 920-A , Industrial Area ,Phase - 2 , Chandigarh Contact No.: 0172-2652417, 098140-98720 E-Mail: mechengineers2k@gmail.com **Tin No.: 04030009720**	Supplier's Ref. **CU-PB-5898**	Other References(s) **Electrical Material**
	Terms of Delivery **ONE YEAR**	Contact Person
	Reference / C:	
	Destination **SQUARE ONE** Nature of Work	

Sr. No.	Description of Goods	Quantity	Rate (₹)	Net Amount (₹)	Disc. (%/ Amount)	GST (%)	Amount (₹)
1	**AMC for R.O Plant** 08 visits + 02 emergency visits AMC Period Starts from 01-11-2022 to 31-10-2023 6 PCS OF CARTRIDGE & FILTER PRICE INCLUDE **Indent No.: 22-23/2371(Admin Department-Square One~1)**	1 No	15000.00	15000.00	---	18.00% (2700.00)	17700.00
	Total	1 No	---	15000.00	---	2700.00	17700.00

Amount Chargeable (in words)
Seventeen Thousand Seven Hundred Only

E. & O.E

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 -- (28-Oct-22)

Authorised Signatory

PURCHASE ORDER

Invoice To	Purchase Order No.	Dated
Chitkara University, Punjab Chandigarh Patiala National Highway Vill. Jansla, Banur, Distt. Patiala **GST No.: 03AAATC6244N1ZQ**	**PO/ 24-25/11791**	**22-Jan-25**
	Mode/Terms of Payment: **Credit**	
	Project No. **---**	Other References(s)
Supplier **Aqua Care Services** H.No- 1371,Sector - 52 ,Chandigarh Contact No.: 93164-81683 E-Mail: aquacare_services@yahoo.in	Terms of Delivery **7 DAYS**	Contact Person
	PO Type: **Supply Only**	
	Destination **Girls Hostel- Satyveer Sir Residence** **Girls Hostel-PI Complex, Vasco, Nightingale complex & Chief Warden Residence** **Girls Hostel- IBN Complex** Nature of Work	

Sr. No.	Description of Goods	Quantity	Rate (₹)	Net Amount (₹)	Disc. (%/ Amount)	GST (%)	Amount (₹)
1	**AMC for Aquaguard Water Purifier** **Indent No.: 24-25/3113(Girls Hostel-PI Complex, Vasco, Nightingale complex & Chief Warden Residence~1)**	**55 No**	**2100.00**	**115500.00**	**---**	**---**	**115500.00**
2	**AMC for R.O Purifier** **Indent No.: 24-25/3113(Girls Hostel- Satyveer Sir Residence~2)**	**1 No**	**4500.00**	**4500.00**	**---**	**---**	**4500.00**
3	**AMC for Aquaguard Water Purifier (JUMBO FILTER)** The Other terms and conditions of the contract are as follows:- Two Periodically service visit per year during the period for 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/rectified spares during the periodical servicing or breakdown visits during the service contract period AMC PERIOD FROM 01-FEB-2025 TO 31-JAN-2026 THE ABOVE RATES ARE INCLUDING GST **Indent No.: 24-25/3113(Girls Hostel-IBN Complex~3)**	**3 No**	**5000.00**	**15000.00**	**---**	**---**	**15000.00**
	Total	**59 No**	**---**	**135000.00**	**---**	**---**	**135000.00**

Amount Chargeable (in words)
One Lakh Thirty Five Thousand Only

E. & O.E

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 (22-Jan-25)

Authorised Signatory

PURCHASE ORDER

Invoice To **Chitkara University, Punjab** Chandigarh Patiala National Highway Vill. Jansla, Banur, Distt. Patiala **GST No.: 03AAATC6244N1ZQ**	Purchase Order No. **PO/ 24-25/5452**	Dated **12-Aug-24**
	Mode/Terms of Payment: **Credit**	
	Project No. ---	Other References(s)
Supplier **Mech Engineers** 920-A , Industrial Area ,Phase - 2 , Chandigarh Contact No.: 0172-2652417, 098140-98720, 99143-43720 E-Mail: mechengineers2k@gmail.com **Tin No.: 04030009720**	Terms of Delivery **1 year**	Contact Person
	PO Type: **Supply Only**	
	Destination **Admin Department-Square One Terrace** Nature of Work	

Sr. No.	Description of Goods	Quantity	Rate (₹)	Net Amount (₹)	Disc. (%/ Amount)	GST (%)	Amount (₹)
1	**AMC for R.O Plant** 20-JAN-2024 TO 19-JAN-2025 **Indent No.:** ADMIN DEPARTMENT FOOD COURT, 23-24/3608(Admin Department-Square One Terrace~1)	**1 No**	**15000.00**	**15000.00**	---	**18.00%** (2700.00)	**17700.00**
	Total	**1 No**	---	**15000.00**	---	**2700.00**	**17700.00**

Amount Chargeable (in words)
Seventeen Thousand Seven Hundred Only

E. & O.E

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 (12-Aug-24)

Authorised Signatory

PURCHASE ORDER

Invoice To **Chitkara University, Punjab** Chandigarh Patiala National Highway Vill. Jansla, Banur, Distt. Patiala **GST No.: 03AAATC6244N1ZQ**	Purchase Order No. **PO/ 24-25/6725**	Dated **07-Sep-24**
	Mode/Terms of Payment: **Credit**	
	Project No. ---	Other References(s)
Supplier **Aqua Care Services** H.No- 1371,Sector - 52 ,Chandigarh Contact No.: 93164-81683 E-Mail: aquacare_services@yahoo.in	Terms of Delivery **7 DAYS**	Contact Person
	PO Type: **Supply Only**	
	Destination **Admin Department-Academic Buildings** Nature of Work	

Sr. No.	Description of Goods	Quantity	Rate (₹)	Net Amount (₹)	Disc. (%/ Amount)	GST (%)	Amount (₹)
1	**AMC for Aquaguard Water Purifier** 25-SEP-2024 TO 24-SEP-2025 **Indent No.:** 24-25/1951(Admin Department-Academic Buildings~1)	**110 No**	**2100.00**	**231000.00**	---	---	**231000.00**
2	**AMC for R.O Purifier** 25-SEP-2024 TO 24-SEP-2025 THE ABOVE RATES ARE INCLUDING GST **Indent No.:** 24-25/1951(Admin Department-Fleming Block~2)	**3 No**	**4500.00**	**13500.00**	---	---	**13500.00**
	Total	**113 No**	---	**244500.00**	---	---	**244500.00**

Amount Chargeable (in words)

Two Lakh Forty Four Thousand Five Hundred Only

E. & O.E

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)

Authorised Signatory

Chitkara University
Central Instrumentation Facility

TC-11489

Document No. CUCIF/TRF
Dated: 11-04-2024

TEST REPORT

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

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	µS/cm	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

Name: Dr. Jyotsna Kaushal

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: 01/06/2023	Copy No.:	Section No: C(12)	Page No: 1/1
Amendment No: NA	Amendment date:NA	Approved and issued by:		

Chitkara University
Central Instrumentation Facility

TC-11489

TEST REPORT

Document No. CUCIF/TRF

Customer's Name and address: Chitkara University, (PB) **Kind Attn**: Hony. Capt. Ravinder Singh **Contact No.**: 9501004247 **Email ID**: ravinder.singh@chitkara.edu.in	Sample receipt date	:	05-08-2024
	Date of Testing	:	06-08-2024
	Report Issue Date	:	10-08-2024
	Reference No.	:	43/2024
	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.	:	24CWS08/001
Sample collected/drawn by	:	Mr. Jaswinder Singh
Location/ source of sample	:	Picasso 1st Floor(WC), Chitkara University (PB)
Sampling procedure	:	NA
Type of testing	:	Chemical Testing
Environmental conditions	:	Temperature: 27°C Humidity : 56%

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	-	8.02	6.5 – 8.5	No Relaxation
02	TDS (Total Dissolved Solid)	IS:3025 Part(16): 2012	mg/L	440	500	2000

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

03	Total Hardness	IS:3025 Part(21): 2019	mg/L	49.72	200	600
04	Alkalinity	IS:3025 Part(23):2019	mg/L	249.44	200	600
05	Calcium	IS:3025 Part(40):2019	mg/L	9.33	30	200
06	Fluoride	IS:3025 Part(60):2019	mg/L	0.72	1.0	1.5
07	Residual Free Chlorine	IS:3025 Part(26):2019	mg/L	BDL	0.2	1.0
08	Specific Conductance	IS:3025 Part(14) : 2013	µS/cm	76.44	-	-
09	Potassium	IS: 3025 Part(45):2019	mg/L	0.87	-	-
10	Sodium	IS: 3025 Part(45):2019	mg/L	141	-	-

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.**

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

****End of Report****

Chitkara University
Central Instrumentation Facility

TC-11489

Document No. CUCIF/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	:	31-01-2024
	Report Issue Date	:	03-02-2024
	Reference No.	:	14/2024
	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.	:	24CWS01/014
Sample collected/ submitted/drawn by	:	Mr. Jaswinder Singh
Location/ source of sample	:	Turing Block 5th Floor , Chitkara University (PB)
Sampling procedure	:	NA
Type of testing	:	Chemical Testing
Environmental conditions during sampling	:	Temperature: 21 Humidity : 62%

TEST RESULTS

S. No.	Parameter(s)	Test method	Unit	Test Result	Acceptable requirement	Permissible Limit	Uncertainty in measurement
01	pH	IS:10500-2012	-	7.70	6.5 – 8.5	No Relaxation	0.18
02	TDS (Total Dissolved Solid)	IS:10500-2012 Part	mg/L	476	500	2000	0.05
03	Total Hardness	IS:10500-2012 Part 21	mg/L	77.52	200	600	0.04
04	Alkalinity	IS:10500-	mg/L	220	200	600	0.0168

		2012, IS:3025 Part 23					
05	Calcium	IS:10500-2012, IS:3025 Part 40	mg/L	19.20	30	200	0.48
06	Fluoride	IS:10500-2012, IS:3025 Part 60	mg/L	1.37	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	72.91	-	-	0.3
09	Potassium	IS 3025; Part 45 : 2019	mg/L	0.83	-	-	0.046
10	Sodium	IS 3025; Part 45 : 2019	mg/L	89.30	-	-	0.039

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

Authorized signatory

Name: Dr. Jyotsna Kaushal
Designation: TM

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: C (12)	Page No: 1/1
Amendment No:	Amendment date:	Approved and issued by:		

Chitkara University
Central Instrumentation
Facility

TC-11489

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

TEST REPORT

Customer's Name and address:	Sample receipt date	:	04-01-2024
	Date of Testing	:	06-01-2024
Chitkara University (PB)	Report Issue Date	:	09-01-2024
	Reference No.	:	02/2024
	Location of testing	:	CUCIF,Babbage Block (CU)
Kind Attn: Mr.Rattandeep Singh	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.	:	24CWS01/002
Sample collected/ submitted/drawn by	:	Mr. Jaswinder Singh
Location/ source of sample	:	Turing Block 3rd Floor-1(Pantry Side)) Chitkara University (PB)
Sampling procedure	:	NA
Type of testing	:	Chemical Testing
Environmental conditions during sampling	:	Temperature: 21°C Humidity : 62%

TEST RESULTS

S. No.	Parameter(s)	Test method	Unit	Test Result	Acceptable requirement	Permissible Limit	Uncertainty in measurement
01	pH	IS:10500-2012	-	8.08	6.5 – 8.5	No Relaxation	0.18
02	TDS (Total Dissolved Solid)	IS:10500-2012 Part	mg/L	472	500	2000	0.05
03	Total Hardness	IS:10500-2012 Part 21	mg/L	74.48	200	600	0.04

04	Alkalinity	IS:10500-2012, IS:3025 Part 23	mg/L	225	200	600	0.0168
05	Calcium	IS:10500-2012, IS:3025 Part 40	mg/L	14.93	30	200	0.48
06	Fluoride	IS:10500-2012, IS:3025 Part 60	mg/L	1.93	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	70.20	-	-	0.3
09	Potassium	IS 3025; Part 45 : 2019	mg/L	1.57	-	-	0.046
10	Sodium	IS 3025; Part 45 : 2019	mg/L	192	-	-	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/opinions: The alkalinity and fluoride are higher and other given parameters are within acceptable limit.

Authorized signatory

Name: Dr. Jyotsna Rajput
Designation: TM

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: C (12)	Page No: 1/1
Amendment No:	Amendment date:	Approved and issued by:		

Chitkara University
Central Instrumentation Facility

TC-11489

Document No. CUCIF/TRF
Dated: 15-07-2024

TEST REPORT

Customer's Name and address: Chitkara University (PB) **Kind Attn** : Hony. Capt. Ravinder Singh **Contact No.** : 9501004247 **Email Id** : singh.ravinder@chitkara.edu.in			
	Sample receipt date	:	10-07-2024
	Date of Testing	:	13-07-2024
	Report Issue Date	:	15-07-2024
	Reference No.	:	42/2024
	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.	:	24CWS07/005
Sample collected/drawn by	:	Mr. Jaswinder Singh
Location/ source of sample	:	Fleming Block 4Th Floor (Inside He) Chitkara University
Sampling procedure	:	NA
Type of testing	:	Chemical Testing
Environmental conditions during sampling	:	Temperature: 25°C Humidity : 55%

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	-	8.19	6.5 – 8.5	No Relaxation
02	TDS (Total Dissolved Solid)	IS:3025 Part(16):2012	mg/L	469.33	500	2000
03	Total Hardness	IS:3025 Part(21):2019	mg/L	52.90	200	600

04	Alkalinity	IS:3025 Part(23):2019	mg/L	248.89	200	600
05	Calcium	IS:3025 Part(40):2019	mg/L	12.27	30	200
06	Fluoride	IS:3025 Part(60):2019	mg/L	0.62	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):2013	µS/cm	67.82	-	-
09	Potassium	IS: 3025 Part(45):2019	mg/L	0.87	-	-
10	Sodium	IS:3025 Part(45):2019	mg/L	111.67	-	-

Note: ND - not detectable

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.**

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

End of Report

Chitkara University
Central Instrumentation Facility

TC-11489

Document No. CUCIF/TRF
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	:	27-02-2024
	Report Issue Date	:	02-03-2024
	Reference No.	:	18/2024
	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.	:	24CWS02/004
Sample collected/ submitted/drawn by	:	Mr. Jaswinder Singh
Location/ source of sample	:	Tesla Block 1st Floor(WC-4) , Chitkara University (PB)
Sampling procedure	:	NA
Type of testing	:	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	TDS (Total Dissolved Solid)	IS:3025 Part(16):2012 m	mg/L	472	500	2000	0.05
03	Total Hardness	IS:3025 Part(21):2019	mg/L	76	200	600	0.04

Chitkara University
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Facility

TC-11489

04	Alkalinity	IS:3025 Part(23):2019	mg/L	229.44	200	600	0.0168
05	Calcium	IS:3025 Part(40):2019	mg/L	18.13	30	200	0.48
06	Fluoride	IS:3025 Part(60):2019	mg/L	1.23	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	IS: 3025 Part(14):2013	µS/cm	82.61	-	-	0.3
09	Potassium	IS: 3025 Part(45):2019	mg/L	0.17	-	-	0.046
10	Sodium	IS:3025 Part(45):2019	mg/L	88.63	-	-	0.039

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

Authorized signatory

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

Dr. Jyotsna Kaushal
Designation: IM

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: C (12)	Page No: 1/1
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Chitkara University
Central Instrumentation Facility

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

Chitkara University
Central Instrumentation Facility

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	µS/cm	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: Thefluorideis higherandothergivenparametersarewithin acceptablelimit.

Authorized signatory

Name: Dr. Jyotsna Kaushal
Designation: TIC

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: 01/06/2023	Copy No.:	Section No: C(12)	Page No: 1/1
Amendment No: NA	Amendment date:NA	Approved and issued by:		

Chitkara University
Central Instrumentation
Facility

TC-11489

TEST REPORT

Document No.: CUCIF/TRF

Customer's Name and address: Chitkara University (PB) **Kind Attn** :Capt. Ravinder Singh **Contact No.** :9501004247 **Email Id** : singh.ravinder@chitkara.edu.in	Sample receipt date	:	12-09-2024
	Date of Testing	:	13-09-2024
	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	:	Chemical 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

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

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	µS/cm	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.

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

End of Report

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

TC-6145

TEST REPORT

ULR No. : TC-614524000000527F

Party Name	: M/s Chitkara University Chandigarh - Patiala National Highway Village jhansla, Rajpura, Dist. Patiala, Punjab	**Report No.**	: CEFT|119
		Format No.	: 7.8 F-01G
		Reporting Date	: 25.04.2024
		Analysis Completion date	: 20.04.2024 to 25.04.2024
		Receipt Date	: 20.04.2024
Sample Description	: Drinking Water	**Sampling Date**	: 19.04.2024
Sampling Location	: Pi C Hostel	**Sampling Method**	: As per APHA Method
Source	: -	**Sample Quantity**	: 2 Ltr.
Sample Collected by	: Sampler	**LSRF/Sample ID**	: CEFT|GEN|2404200119

TEST RESULT

S. No.	Parameter	Result	Unit	Limit of IS: 10500-2012 (Reaffirmed - 2018)		Test-Method
				Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source (Max.)	
Physical Parameters						
1	pH (at 25 °C)	7.22	-	6.5 to 8.5	No Relaxation	IS: 3025 (Part-11)
2	Total Dissolved Solids, (Max.)	345	mg/l	500	2000	IS: 3025 (Part-16)
General Parameters						
3	Total Hardness as $CaCO_3$, (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 $CaCO_3$, (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_3, (Max.)	3.8	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.)	7.7	mg/l	30	100	APHA 3500-Mg (B)
10	Sulphate as SO_4,(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-45)
13	Potassium as K, (Max.)	3.6	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)
Microbiological Parameters						
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**

Checked by
Mr. Rahul

Authorized Signatory
Mr. Nadeem

Authorized Signatory
Mrs. Puja

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.

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

TC-6145

TEST REPORT

ULR No. : TC-614524000000528F

Party Name	: M/s Chitkara University Chandigarh - Patiala National Highway Village jhansla, Rajpura, Dist. Patiala, Punjab	**Report No.**	: CEFT|120
		Format No.	: 7.8 F-01G
		Reporting Date	: 25.04.2024
		Analysis Completion date	: 20.04.2024 to 25.04.2024
		Receipt Date	: 20.04.2024
Sample Description	: Drinking Water	**Sampling Date**	: 19.04.2024
Sampling Location	: Archemides Hostel	**Sampling Method**	: As per APHA Method
Source	: -	**Sample Quantity**	: 2 Ltr.
Sample Collected by	: Sampler	**LSRF/Sample ID**	: CEFT|GEN|2404200120

TEST RESULT

S. No.	Parameter	Result	Unit	Limit of IS: 10500-2012 (Reaffirmed - 2018)		Test-Method
				Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source (Max.)	
Physical Parameters						
1	pH (at 25 °C)	7.99	-	6.5 to 8.5	No Relaxation	IS: 3025 (Part-11)
2	Total Dissolved Solids, (Max.)	388	mg/l	500	2000	IS: 3025 (Part-16)
General Parameters						
3	Total Hardness as $CaCO_3$, (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 $CaCO_3$, (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_3, (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_4,(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)
Microbiological Parameters						
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**

Checked by
Mr. Rahul

Authorized Signatory
Mr. Nadeem

Authorized Signatory
Mrs. Puja

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5. The Court Jurisdiction will be Delhi.
6. Customer complaint register is available at the laboratory.

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NABL Accredited, FSSAI and MoEF Recognised Testing Laboratory

TC-6145

TEST REPORT

ULR No. : TC-614524000000529F

Party Name	: M/s Chitkara University Chandigarh - Patiala National Highway Village jhansla, Rajpura, Dist. Patiala, Punjab	**Report No.**	: CEFT|121
		Format No.	: 7.8 F-01G
		Reporting Date	: 25.04.2024
		Analysis Completion date	: 20.04.2024 to 25.04.2024
		Receipt Date	: 20.04.2024
Sample Description	: Drinking Water	**Sampling Date**	: 19.04.2024
Sampling Location	: Aristotle hostel	**Sampling Method**	: As per APHA Method
Source	: -	**Sample Quantity**	: 2 Ltr.
Sample Collected by	: Sampler	**LSRF/Sample ID**	: CEFT|GEN|2404200121

TEST RESULT

S. No.	Parameter	Result	Unit	Limit of IS: 10500-2012 (Reaffirmed - 2018)		Test-Method
				Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source (Max.)	
Physical Parameters						
1	pH (at 25 °C)	7.65	-	6.5 to 8.5	No Relaxation	IS: 3025 (Part-11)
2	Total Dissolved Solids, (Max.)	370	mg/l	500	2000	IS: 3025 (Part-16)
General Parameters						
3	Total Hardness as $CaCO_3$, (Max.)	112.0	mg/l	200	600	IS: 3025 (Part-21)
4	Calcium as Ca, (Max.)	28.6	mg/l	75	200	IS: 3025 (Part-40)
5	Alkalinity as $CaCO_3$, (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_3, (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_4,(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)
Microbiological Parameters						
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**

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TC-6145

TEST REPORT

ULR No. : TC-614524000000530F

Party Name	: M/s Chitkara University Chandigarh - Patiala National Highway Village jhansla, Rajpura, Dist. Patiala, Punjab	**Report No.**	: CEFT|122
		Format No.	: 7.8 F-01G
		Reporting Date	: 25.04.2024
		Analysis Completion date	: 20.04.2024 to 25.04.2024
		Receipt Date	: 20.04.2024
Sample Description	: Drinking Water	**Sampling Date**	: 19.04.2024
Sampling Location	: Franklin Hostel	**Sampling Method**	: As per APHA Method
Source	: -	**Sample Quantity**	: 2 Ltr.
Sample Collected by	: Sampler	**LSRF/Sample ID**	: CEFT|GEN|2404200122

TEST RESULT

S. No.	Parameter	Result	Unit	Limit of IS: 10500-2012 (Reaffirmed - 2018)		Test-Method
				Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source (Max.)	
Physical Parameters						
1	pH (at 25 °C)	7.77	-	6.5 to 8.5	No Relaxation	IS: 3025 (Part-11)
2	Total Dissolved Solids, (Max.)	374	mg/l	500	2000	IS: 3025 (Part-16)
General Parameters						
3	Total Hardness as $CaCO_3$, (Max.)	110.0	mg/l	200	600	IS: 3025 (Part-21)
4	Calcium as Ca, (Max.)	28.2	mg/l	75	200	IS: 3025 (Part-40)
5	Alkalinity as $CaCO_3$, (Max.)	76.5	mg/l	200	600	IS: 3025 (Part-23)
6	Chloride as Cl, (Max.)	54.9	mg/l	250	1000	IS: 3025 (Part-32)
7	Nitrate as NO_3, (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_4,(Max.)	14.2	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-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)
Microbiological Parameters						
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**

Checked by
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TC-6145

TEST REPORT

ULR No. : TC-614524000000538F

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

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

Report No. : CEFT|123
Format No. : 7.8 F-01G
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 APHA Method
Sample Quantity : 2 Ltr.
LSRF/Sample ID : CEFT|GEN|2404200123

TEST RESULT

S. No.	Parameter	Result	Unit	Limit of IS: 10500-2012 (Reaffirmed - 2018)		Test-Method
				Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source (Max.)	
Physical Parameters						
1	pH (at 25 °C)	7.44	-	6.5 to 8.5	No Relaxation	IS: 3025 (Part-11)
2	Total Dissolved Solids, (Max.)	362	mg/l	500	2000	IS: 3025 (Part-16)
General Parameters						
3	Total Hardness as $CaCO_3$, (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 $CaCO_3$, (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 NO_3, (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 3500-Mg (B)
10	Sulphate as SO_4,(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 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)
Microbiological Parameters						
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****

Checked by
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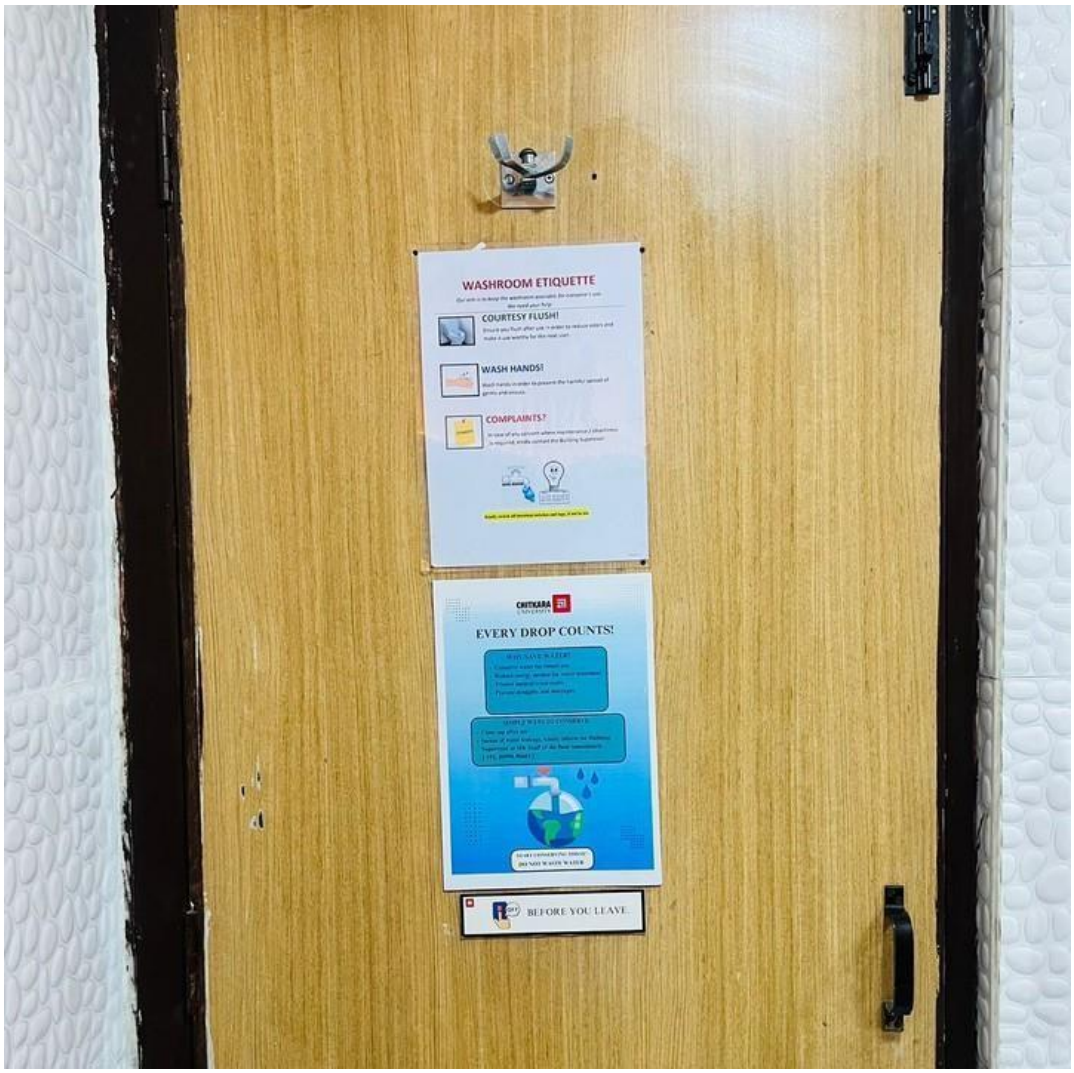
Awareness Posters for Staff & Students



CHITKARA UNIVERSITY

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
- Incase 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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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)

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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:

- 11.3.1 Reduction in water consumption by 25%. (1 point) - Mandatory
- 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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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)	**Water Closets (Flush Valves)** 51093, 1093, 1093SQ, 1095, 1095SQ, 1093DFP, 1095DFP, 1015	4.0	G
		Water Closets (Flush Valves Dual Flow) 1085, 1085SQ, 1085DFP, 1089, 1089SQ, 1089DFP	4.0 / 2.0	G
02.	Kitchen Faucets	**Single Lever Sink Mixers** 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
		Sink Mixers 6309, 7309, 5309N, 5309ND, 5319NB, 23309, 23309B, 23321B, 309KN, 309KNB, 319KN, 319KNB, 321KNB, 3309, 3319	3.8 1.3	GD GE
		Sink Cocks 6347, 6357, 6359, 7347, 5347N, 5347ND, 5357N, 5357ND, 5359N, 23347, 347KN, 349KN, 357KN, 359KN, 3357		
		Products fitted with Permix Size 18x1 / 20x1		
		38165, 38309, 39165, 39309, 40165, 37309, 81165, 35179FB, 29165, 7319B, 6165, 6319B, 5165, 5179B, 35179B, 35179FB 19309, 6309SE 38347, 39347, 37347 19347, 6347SE	6.0 8.0 3.8	GA GB GD

(Contd .....4)

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03.	**Lavatory Faucets**	**Pillar Cocks / Basin Taps** 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
		Bib Cocks / 2-Way Bib Cocks 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
		Central Hole / 3-Hole Basin Mixers 35167FB, 35169FB, 7167B, 7169B, 7189, 7191, 7171, 7173, 5167NB, 5169NB 23167B, 23169B, 167KNB, 169KNB, 3169B, 3171B, 3181B		
		Single Lever Basin Mixers 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		
		Sensors Basin Mixer 51011, 51021, 51021A, 51027, 51071		
		Conc. Stop Cocks with Basin Spout 37433, 37441K, 10433PM, 10441KPM, 15441KPM		
		Wall Mixers / Bath & Shower Mixers 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		

(Contd .....5)

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		Bath Tub Spouts, Bath Tub Mixer & Bath Fillers 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
		Products fitted with Permix Size 18x1 / 20x1		
		Pillar Cocks / Basin Tap 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
		Bib Cocks, 2-Way Bib Cocks 37037, 37041, 38037, 38041, 39037, 39041, 40037, 40041, 81037, 81041, 5043, 49037, 49041, 85037, 85041, 35037PM, 35041PM 6041SE, 6047SE, 19041, 19047		
		Single Lever Basin Mixers 5025B, 81005B, 81011B, 81051B, 49009B, 49011B, 49009J, 49011J, 35025B, 85005B, 85011B, 35005BPM, 35011BPM, 35051BPM		
		Central Hole / 3-Hole Basin Mixers 6189, 6191, 5189N, 5191N, 6167B, 6169 6167BSE, 6169SEB, 19167B, 19169B		
		Concealed Stop Cocks with Basin Spout 38433, 38441, 39433, 39441, 40433, 40441, 81433, 81441, 35433F, 35441F, 29433, 29441, 6433, 6441, 5433N, 5441N, 35433PM, 35441KPM		
		Single Lever Basin Mixer Wall Mounted (Kit) 37233K, 38233K, 39233K, 40233K, 81233K, 35233FK, 29233K, 6233K, 5233K, 3233K, 49233K, 49233JK, 33233K, 19233K, 85233K, 10233KPM, 35233KPM		
		Basin Spout 5443, 5447		

(Contd .....6)

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Website: www.jaquar.com

04.	**Urinals**	077, 51077, 51083, 51087, 51097	1.5	G
05.	**Showers**	**Over Head Showers** 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 **Hand Showers** 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)

AWARDS AND RECOGNITIONS

CII-TRIVENI WATER INSTITUTE

CII
Confederation of Indian Industry

CII National Award for
Excellence in Water Management 2022

This is to certify that

Chitkara University
Chandigarh, Punjab

has been rated as "The Winner" in
"Within the Fence" Category.
This has been based on evaluation by the Jury at the
National Competition for Excellence in Water Management 2022.

Nikhil Sawhney
Chairman
CII-Triveni Water Institute

Dr. Anil Kakodkar
Chairman of the Jury
CII National Award for
Excellence in Water Management

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Creating Innovative Solutions for a Sustainable Future

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Government of India
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Department of Water Resources,
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Presented to

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Mr Anshuman
Director - Water Resources
The Energy and Resources Institute
New Delhi

Mr Sanjay Seth
Senior Director
Sustainable Infrastructure Programme
The Energy and Resources Institute
New Delhi

Dr S K Sarkar
Distinguished Fellow
The Energy and Resources Institute
New Delhi

Dr Vibha Dhawan
Director General
The Energy and Resources Institute
New Delhi