

Manipal University Jaipur Wastewater Treatment

Manipal University Jaipur has implemented wastewater treatment processes in pursuit of sustainability and responsible resource management. Manipal University Jaipur has developed and integrated wastewater treatment systems into its operations, turning wastewater into a valuable resource. Wastewater from various campus activities can contain contaminants that can harm the environment if it is not treated properly. These contaminants include organic materials, chemicals, and pathogens. The treatment of wastewater before discharge helps safeguard local ecosystems and water bodies, preventing pollution and a negative impact on aquatic life. The wastewater that has been treated can be utilized for non-potable purposes, such as irrigation, cooling systems, or flushing toilets, thereby reducing the demand for freshwater resources.

Wastewater Treatment Processes

Manipal University Jaipur employs a range of wastewater treatment processes.

Primary Treatment

This initial stage involves physical processes like screening and settling to remove large particles and solids from the wastewater.

Secondary Treatment

Here, biological processes are employed to break down organic matter and remove nutrients like nitrogen and phosphorus. Activated sludge and aerobic digestion are commonly used methods.

Tertiary Treatment

In this advanced stage, additional filtration or chemical processes further purify the water, making it suitable for reuse in non-potable applications.

Disinfection

Before discharge or reuse, wastewater is often disinfected to eliminate harmful pathogens. Chlorination, ultraviolet (UV) treatment, or ozonation are common disinfection methods.

Manipal University Jaipur has the necessary infrastructure, including treatment plants, pipelines, and storage facilities, tailored to the institutions size and needs. Manipal University Jaipur investigates innovative technologies, such as membrane bioreactors and water recycling systems, in order to improve treatment efficiency and water quality. The treated wastewater is used for various purposes, including landscape irrigation, cooling towers, and even toilet flushing. The implementation of dual plumbing systems for the distribution of treated water is a prevalent practice. Implementing wastewater treatment

processes offers numerous sustainability benefits to the university. By reusing treated wastewater, Manipal University Jaipur reduces its dependence on freshwater sources, thereby aiding in water conservation efforts. Proper wastewater treatment reduces the release of harmful pollutants into the environment, which helps maintain ecological balance. Wastewater treatment is an essential component of a university's commitment to sustainability and environmental responsibility. It is an essential component of a university's commitment to sustainability.



Water Quality Parameter Testing Equipments available in the Lab

1. Multiparameter – HANNA’s HI98194 meter

The HANNA HI98194 multiparameter meter is a versatile tool that measures key water quality parameters, making it ideal for environmental and field applications. It provides readings for pH, indicating the water's acidity or alkalinity; dissolved oxygen (DO), conductivity (EC), and total dissolved solids (TDS) along with ORP, salinity, and temperature. Together, these measurements provide a comprehensive view of water quality, crucial for environmental monitoring and research.



2. Multiparameter Photometer – HANNA’s - HI97115 Model

Alkalinity, Ammonia, Calcium, Magnesium, Nitrate, Nitrite, and Phosphate were measured using HANNA’s Marine Master waterproof wireless meter kit (HI97115).



3. HR Fluoride portable photometer kit- HANNA's - HI93739-01 Model

Fluoride levels were evaluated with HANNA's HR Fluoride portable photometer kit (HI93739-01).





4. Water Analyzer- for field visits

It provides readings for pH, dissolved oxygen (DO), conductivity (EC), and total dissolved solids (TDS) along with salinity and temperature.



5. Microprocessor-based flame photometer (ESICO, model-1385/1382)

Sodium and potassium concentrations were typically determined using a microprocessor-based flame photometer (ESICO, model-1385/1382).





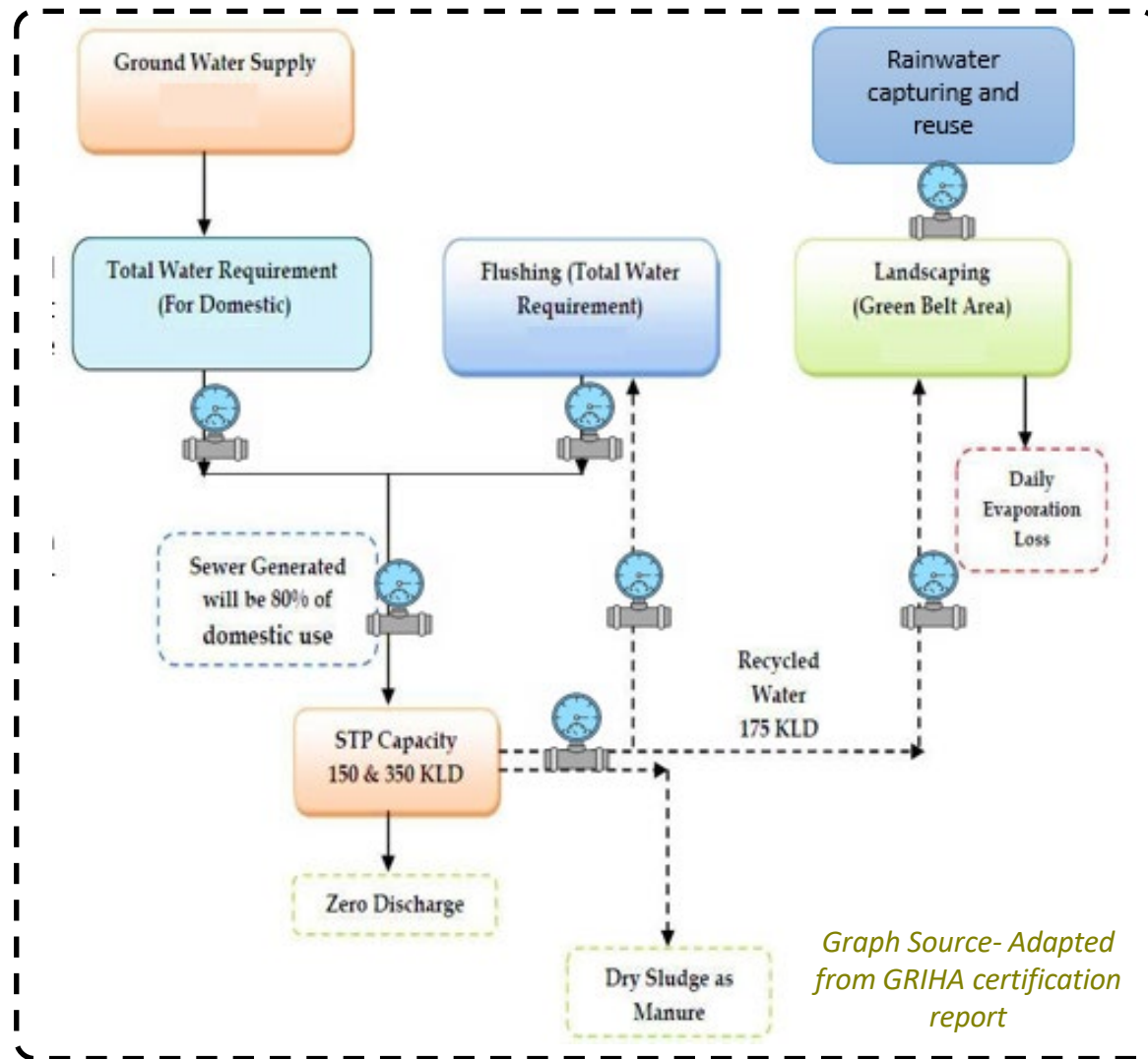
Water Consumption and Treatment 2022-2023

Criteria- Water



Water Source and Distribution in MUJ Campus

Manipal university has an Integrated Water management strategies that are designed & implemented for the campus mainly focusing on triple bottom line benefits i.e., social, economic and environmental benefits. This created a flexible, resilient water infrastructure which helped MUJ progress towards water neutrality.



OBSERVATIONS:

The groundwater supply meets the water demand for MUJ University, designed at 220 liters per capita per day (LKD). This total water requirement is divided into domestic use, flushing, and landscape irrigation. Groundwater is used to meet domestic needs, while treated water from the Sewage Treatment Plant (STP) supplies water for flushing and landscaping. Additionally, rainwater from Rainwater Harvesting (RWH) tanks is utilized for irrigation. Dry sludge from the STP is converted into manure for on-site landscaping.



RECOMMENDATIONS

Water meters to be installed at all water sources/distribution lines at every building in the campus to monitor water consumption



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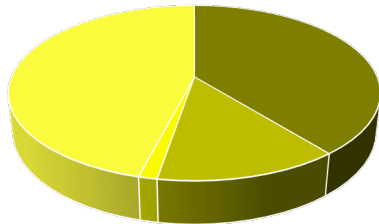
Criteria- Water



Water Consumption

- MUJ consumes 59965 kL/year of water annually for the university blocks & 53873 kL/year for hostel blocks
- Total water consumption is 113,838 kL/year
- 100% wastewater is treated on site and used for flushing and landscape purposes within the campus

Water Consumption 2022-23



■ 200 KLD (MUJ)
 ■ 80 KLD (Housing)
 ■ 150KLD
 ■ 350KLD



University (Administrative + Academic Blocks) data for domestic and flushing comes is shared by MUJ

To reduce the water usage, all the building toilets in MUJ are equipped with automatic, low flow fixtures and low flush fixtures. These fixtures when compared with conventional fixtures can save significant amount of water.

FIXTURE TYPE	CONVENTION AL FLOW/ FLUSH FIXTURE FLOW RATE LPF/LPM	FIXTURE FLOW RATES INSTALLED IN MUJ LPF/LPM	Estimated Water Savings (%)
WC Flush	≤ 6 LPF	3 & ≤6 LPF	50%
Sensor Urinals	≤ 3.8 LPF	≤ 0.5 LPF	86%
Restroom Faucets	≤ 9.4 LPM	≤ 2.75 LPM	70%
Pillar cock	≤ 9.4 LPM	≤ 2.75 LPM	70%
Health faucet	≤ 9.4 LPM	≤ 6.4 LPM	32%
Kitchen Faucet	≤ 9.4 LPM	≤ 7.5 LPM	20%



OBSERVATIONS:

The total water consumption in the campus is segregated for domestic and flushing purposes. 80% of waste-water from domestic and flushing purpose is treated and this recycled water is used for landscape irrigation and the dry sludge generated in the sewage treatment plant is used as manure for landscape



RECOMMENDATIONS

Regular monitoring of water use at the building level and regular maintenance checks for leaks will ensure additional water savings



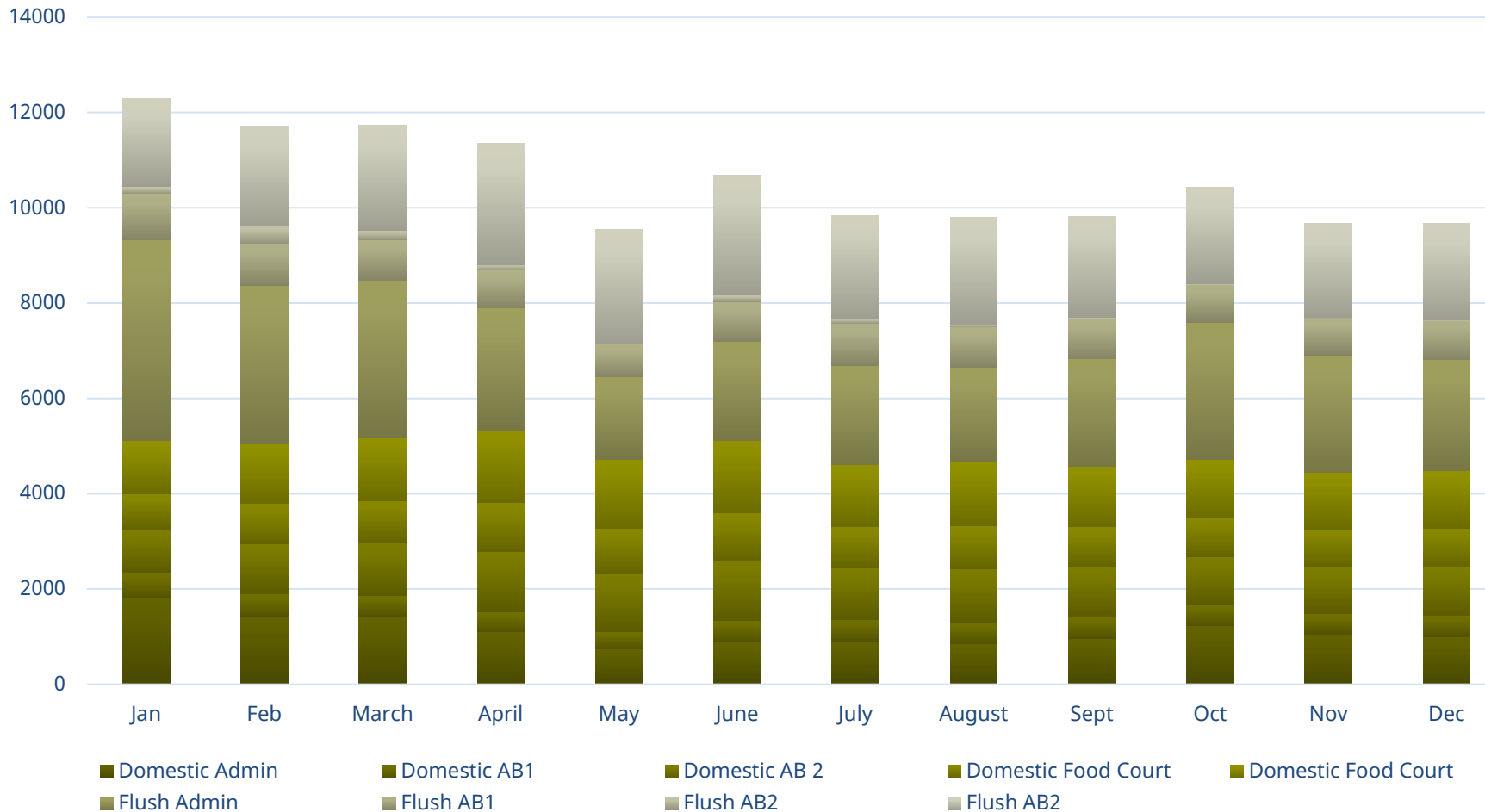
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Criteria- Water



Monthly Water Consumption Admin, AB-1 and AB-2, Hostels January 2023 to December 2023



OBSERVATIONS:

- Seasonal Trends and Efficiency: Although there are minor fluctuations, summer months (May to August) see slightly reduced consumption. This might be due to reduced campus activity or more efficient water usage during this period.
- Consistent Distribution Across Categories: Each category, whether domestic or flushing, maintains a similar volume of water use each month, indicating that water distribution patterns across the campus are predictable and well-regulated.



RECOMMENDATIONS

The chart highlights a well-managed water system with minimal variation in monthly consumption, which could imply that water-saving measures or consistent practices are in place.



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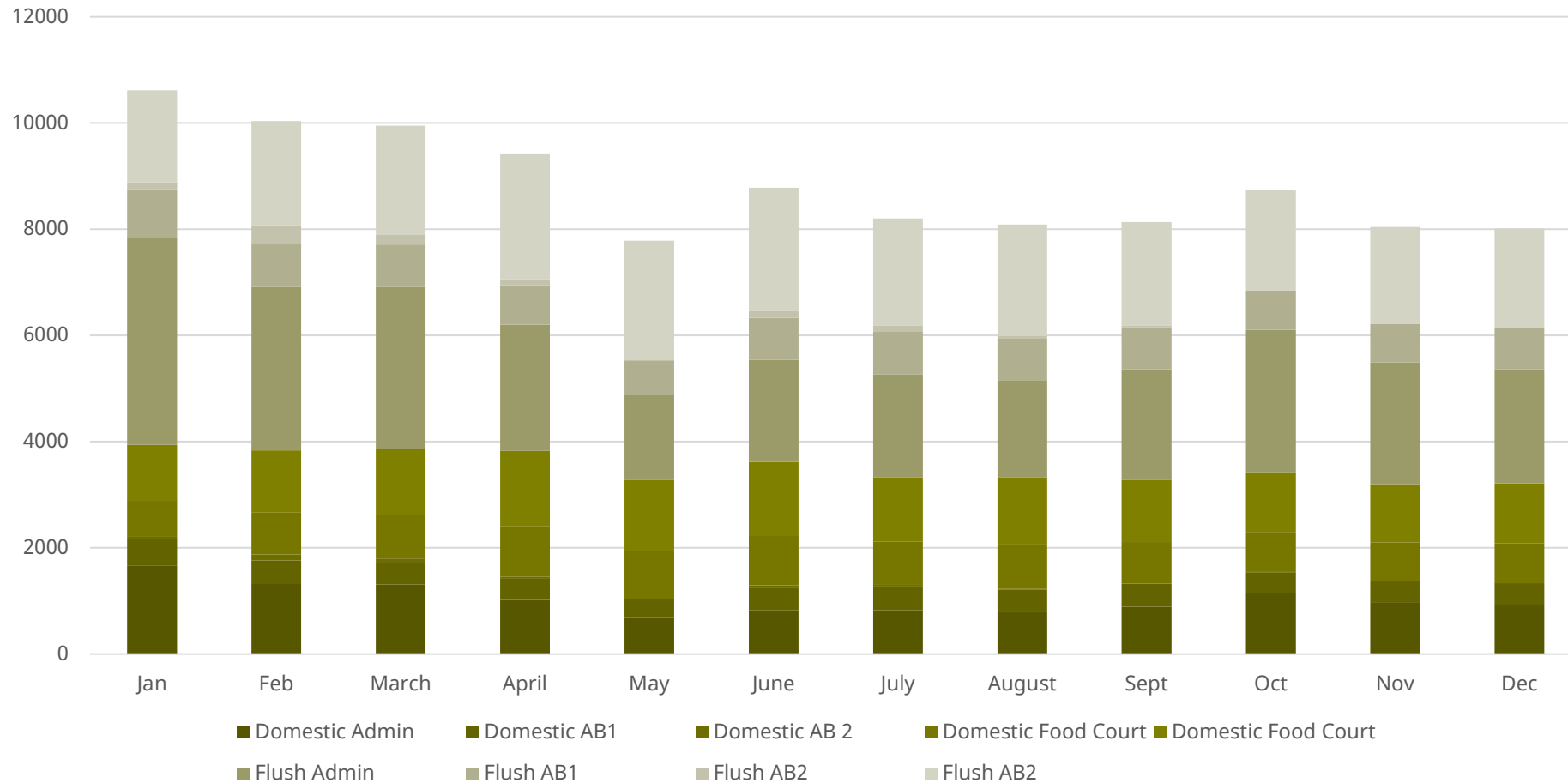
"Being the solution for environment concerns"

Criteria- Water



Monthly Water Consumption Admin, AB-1 and AB-2, Hostels January 2022 to December 2022

Chart Title



OBSERVATIONS:

- Consistent Usage: Water usage appears to be relatively stable across the months, with only slight fluctuations. This indicates a steady demand throughout the year.
- Highest Consumption in Jan and April: The highest total water usage is seen in January and April, slightly exceeding other months, which could correspond to seasonal factors or increased campus activities.



RECOMMENDATIONS

Regular monitoring of water use at the building level and regular maintenance checks for leaks will ensure additional water savings



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Criteria- Water

Sewage Treatment plant

Manipal University Jaipur has zero discharge waste-water policy. Hence 100% of the wastewater generated on site is treated to tertiary standards and reused within the campus for various purposes like Flushing, **cooling tower makeup**, Horticulture etc.

MUJ has two Sewage treatment plants with 150kLd and 350 kLd respectively. Membrane Bioreactor(MBR) type Sewage Treatment plant with total capacity of 500 kLd is commissioned at MUJ university campus considering the future developments & excess wastewater from hostels.

A standalone 350 kLd Sewage Treatment plant is commissioned to serve only the Hostel blocks, excess wastewater is sent to University STP. Wastewater treated on site will have projected water quality standards meeting central pollution control board (CPCB) norms.



OBSERVATIONS:

- Consistent Usage: Water usage appears to be relatively stable across the months, with only slight fluctuations. This indicates a steady demand throughout the year.
- Highest Consumption in Jan and April: The highest total water usage is seen in January and April, slightly exceeding other months, which could correspond to seasonal factors or increased campus activities.



RECOMMENDATIONS

HYPOTHESIS-

If the treated water used for landscape can be reduced by 10- 15% then this water can be used for flushing purpose as the 2019 water consumption was flushing is not 100% catered by treated water



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Criteria- Water

USAGE OF RECYCLE WATER



Key Points

- Zero Water Discharge Campus (Water Recycling)
- Sludge From STP Used As Manure For Landscaping. Reusing the debris waste for the pathways and road areas base compaction
- Vehicle Washing
- Gardening and Horticulture

HYPOTHESIS-

If the treated water used for landscape can be reduced by 10- 15% then this water can be used for flushing purpose as the 2019 water consumption was flushing is not 100% catered by treated water



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Criteria- Water

WATER EFFICIENT APPLIANCES



Water Aerator Installed in all Taps for handwash



Sensor Based Urinals



Storm water drain and Drip Irrigation



BENEFITS

- **Reduced Water Bills:** By using less water, these appliances lower monthly utility costs.
- **Environmental Conservation:** Lower water consumption reduces strain on local water resources and supports environmental sustainability.
- **Energy Savings:** Many water-efficient appliances also use less energy, especially those involved in heating water, such as washing machines, further decreasing energy bills and carbon footprints.



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Criteria- Water

WATER USE REDUCTION WITH WATER EFFICIENT FIXTURES:

Some of the key highlights of sustainable water management at MUJ:

- Potable water use reduction by using water efficient fixtures
- Recycling 100% of waste water generated on site and reuse on site.
- Use of treated water for non-potable water requirement
- Reduction in landscape water use by choosing right species of plants which are regional and adaptable to local conditions & reduction of turf areas
- Use of Highly efficient Irrigation equipment like micro drips for landscape needs
- A well-developed stormwater management infrastructure to capture and use rainwater for both building and landscape needs

FIXTURE TYPE	CONVENTIONAL FLOW/FLUSH FIXTURE(base case) FLOW RATE LPF/LPM	FIXTURE FLOW RATES INSTALLED IN MUJ (design case) LPF/LPM
WC Flush	≤ 6 LPF	3 & ≤6 LPF
Sensor Urinals	≤ 3.8 LPF	≤ 0.5 LPF
Restroom Faucets	≤ 9.4 LPM	≤ 2.75 LPM
Pillar cock	≤ 9.4 LPM	≤ 2.75 LPM
Health faucet	≤ 9.4 LPM	≤ 6.4 LPM
Kitchen Faucet	≤ 9.4 LPM	≤ 7.5 LPM



BENEFITS

- **Reduced Water Bills:** By using less water, these appliances lower monthly utility costs.
- **Environmental Conservation:** Lower water consumption reduces strain on local water resources and supports environmental sustainability.
- **Energy Savings:** Many water-efficient appliances also use less energy, especially those involved in heating water, such as washing machines, further decreasing energy bills and carbon footprints.



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Weekly O&M Review Report

25th Sep 23 – 30th Sep 23

2 STP + 2 WTP

Manipal University Jaipur, Jaipur

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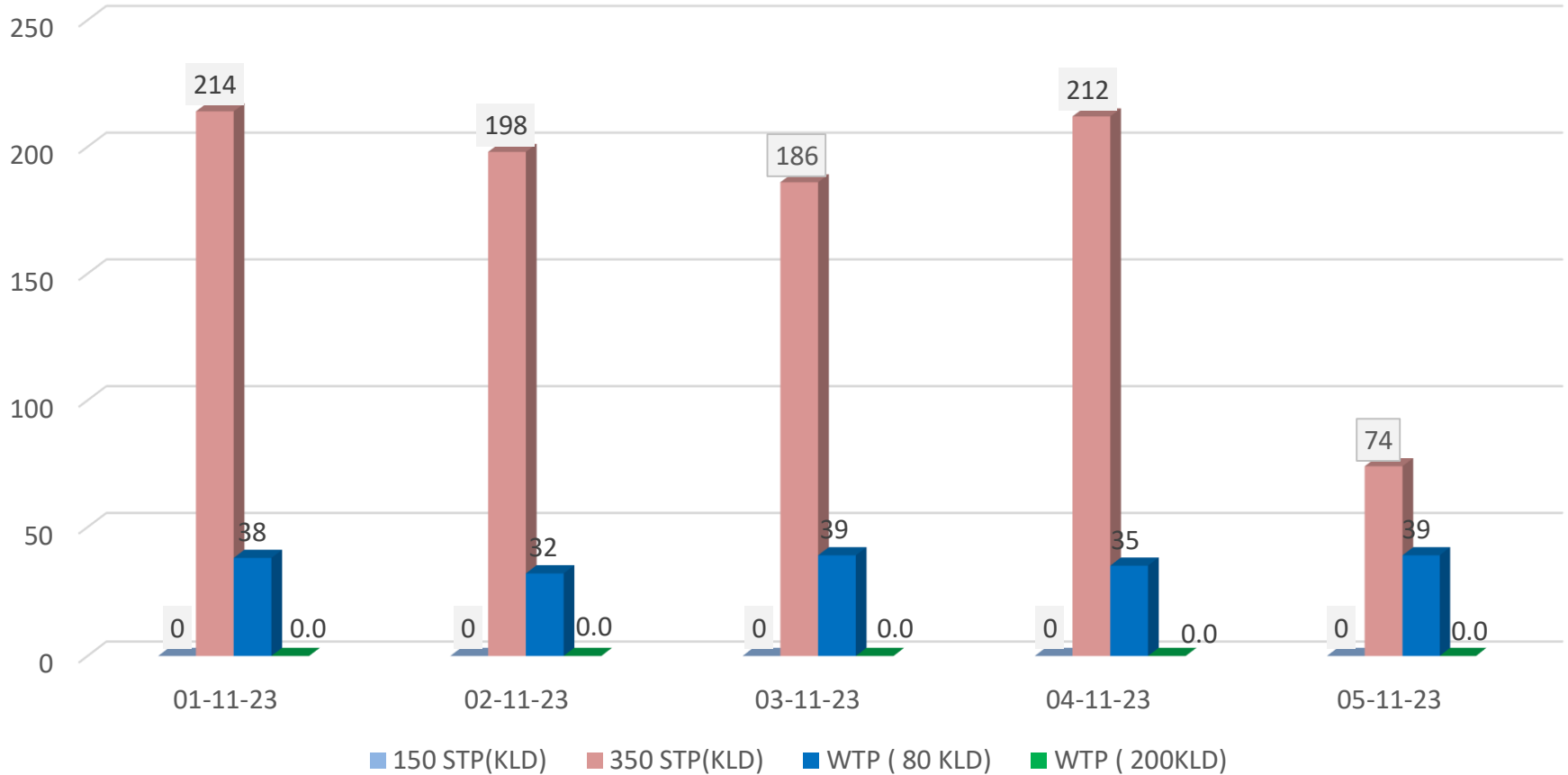
- Production summary & trend
- Quality parameters of treated water
- Equipment maintenance
- Operational difficulties & status of
Action taken

Production Summary :

Quantity of treated water in STP & WTP

Date	150 STP (KLD)	350 STP(KLD)	GH UGR (80 KLD)	MUJ WTP (240 KLD)
01-11-23	-	214	38	-
02-11-23	-	198	32	-
03-11-23	-	186	39	-
04-11-23	-	212	35	-
05-11-23	-	74	39	-

Production Trend: Quantity of treated water in STP & WTP



Quality parameters of Treated water: Sewage Treatment Plant:

	150 KLD STP			350 KLD STP		
Date	pH	TDS (ppm)	TURDIDITY (ppm)	pH	TDS (ppm)	TURDIDITY (ppm)
01-11-23	-	-	-	7.8	781	-
02-11-23	-	-	-	7.7	787	-
03-11-23	-	-	-	7.6	766	-
04-11-23	-	-	-	7.8	768	-
05-11-23	-	-	-	7.9	806	-

Quality parameters of treated water:

Water Treatment plant:

	MUJ UGR					GH UGR				
Date	pH	TDS (ppm)	Hardness (ppm)	Turbidity (ppm)	FRC (ppm)	pH	TDS (ppm)	Hardness (ppm)	FRC (ppm)	Turbidity (ppm)
01-11-23	-	-	-	-	-	7.6	678	14	0.2	-
02-11-23	-	-	-	-	-	7.4	669	28	0.2	-
03-11-23	-	-	-	-	-	7.3	780	40	0.2	-
04-11-23	-	-	-	-	-	7.6	700	60	0.2	-
05-11-23	-	-	-	-	-	7.6	697	70	0.2	-

Thank you...!!!

Weekly O&M Review Report

06th Nov 23 – 12th Nov 23

2 STP + 2 WTP

Manipal University Jaipur, Jaipur

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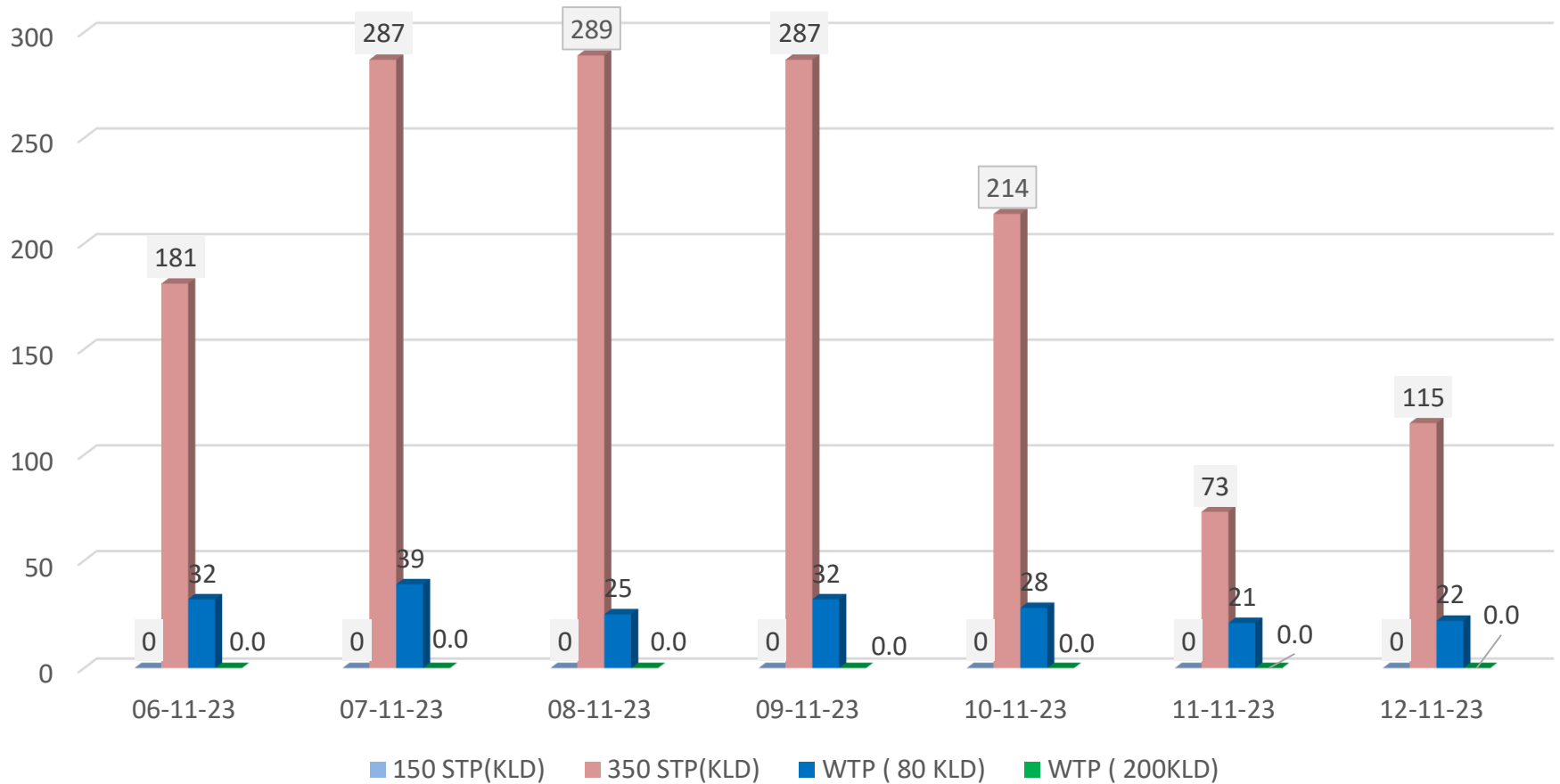
- Production summary & trend
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- Equipment maintenance
- Operational difficulties & status of
Action taken

Production Summary :

Quantity of treated water in STP & WTP

Date	150 STP (KLD)	350 STP(KLD)	GH UGR (80 KLD)	MUJ WTP (240 KLD)
06-11-23	-	181	32	-
07-11-23	-	287	39	-
08-11-23	-	289	25	-
09-11-23	-	287	32	-
10-11-23	-	214	28	-
11-11-23	-	73	21	-
12-11-23	-	115	22	-

Production Trend: Quantity of treated water in STP & WTP



Quality parameters of Treated water: Sewage Treatment Plant:

	150 KLD STP			350 KLD STP		
Date	pH	TDS (ppm)	TURDIDITY (ppm)	pH	TDS (ppm)	TURDIDITY (ppm)
06-11-23	-	-	-	7.7	804	-
07-11-23	-	-	-	7.6	790	-
08-11-23	-	-	-	7.8	814	-
09-11-23	-	-	-	7.8	828	-
10-11-23	-	-	-	8.0	793	-
11-11-23	-	-	-	7.9	821	-
12-11-23	-	-	-	8.0	812	-

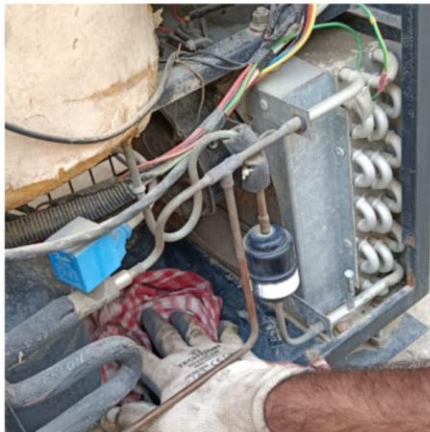
Quality parameters of treated water:

Water Treatment plant:

	MUJ UGR					GH UGR				
Date	pH	TDS (ppm)	Hardness (ppm)	Turbidity (ppm)	FRC (ppm)	pH	TDS (ppm)	Hardness (ppm)	FRC (ppm)	Turbidity (ppm)
06-11-23	-	-	-	-	-	7.5	691	6	0.2	-
07-11-23	-	-	-	-	-	7.6	703	8	0.2	-
08-11-23	-	-	-	-	-	7.4	708	18	0.2	-
09-11-23	-	-	-	-	-	7.6	724	30	0.2	-
10-11-23	-	-	-	-	-	7.4	721	50	0.2	-
11-11-23	-	-	-	-	-	7.6	709	75	0.2	-
12-11-23	-	-	-	-	-	7.6	711	75	0.2	-

Equipment Maintenance/Improvements :

- 1. 350 KLD Compressor Oil Changed.
- 2. 350 KLD M- Cleaning pump PM Done.



Thank you...!!!

Weekly O&M Review Report

13th Nov 23 – 19th Nov 23

2 STP + 2 WTP

Manipal University Jaipur, Jaipur

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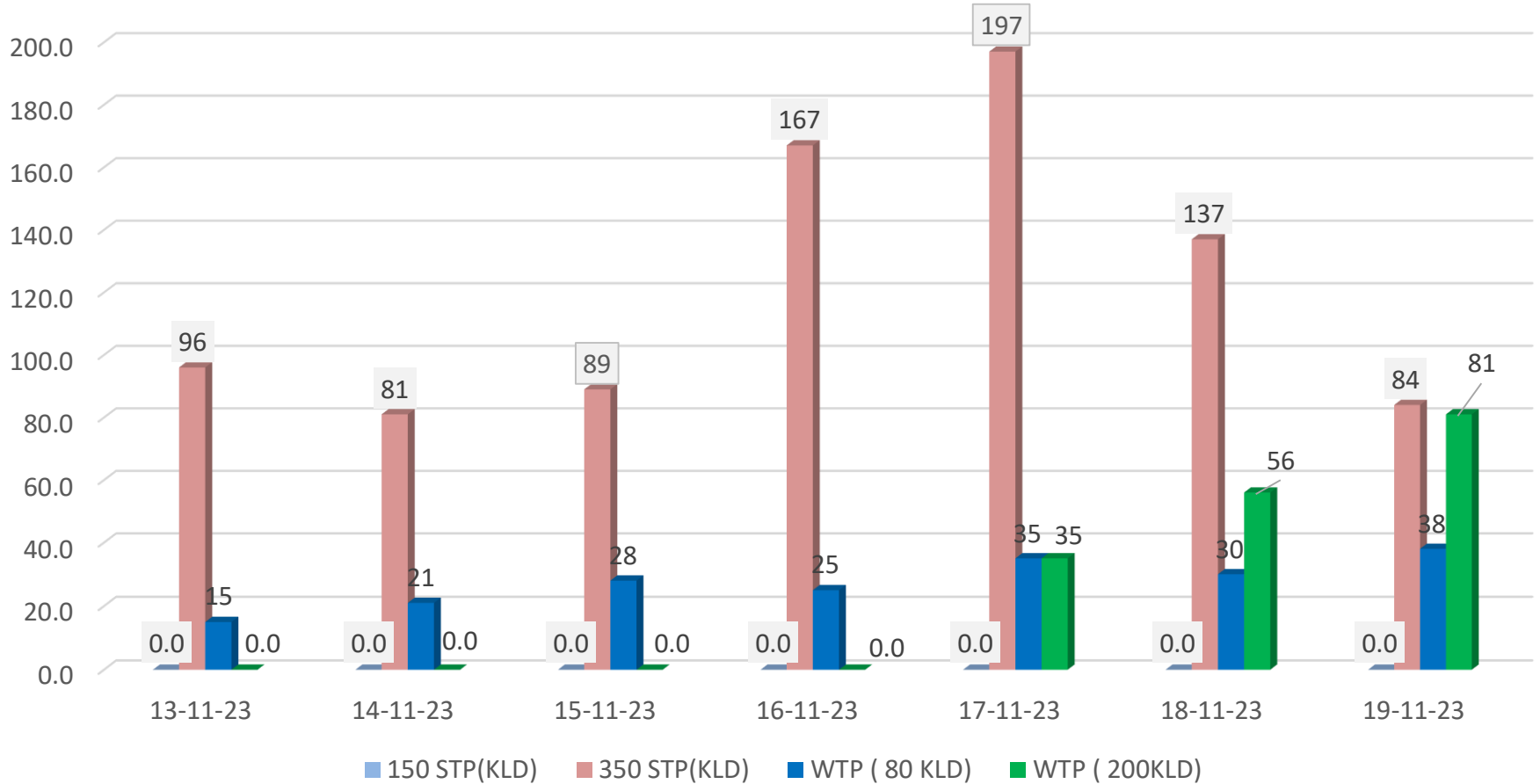
- Production summary & trend
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- Equipment maintenance
- Operational difficulties & status of
Action taken

Production Summary :

Quantity of treated water in STP & WTP

Date	150 STP (KLD)	350 STP(KLD)	GH UGR (80 KLD)	MUJ WTP (240 KLD)
13-11-23	-	96	15	-
14-11-23	-	81	21	-
15-11-23	-	89	28	-
16-11-23	-	167	25	-
17-11-23	-	197	35	35
18-11-23	-	137	30	56
19-11-23	-	84	38	81

Production Trend: Quantity of treated water in STP & WTP



Quality parameters of Treated water: Sewage Treatment Plant:

	150 KLD STP			350 KLD STP		
Date	pH	TDS (ppm)	TURDIDITY (ppm)	pH	TDS (ppm)	TURDIDITY (ppm)
13-11-23	-	-	-	8.1	810	-
14-11-23	-	-	-	7.9	827	-
15-11-23	-	-	-	7.8	820	-
16-11-23	-	-	-	7.9	804	-
17-11-23	-	-	-	8.1	704	-
18-11-23	-	-	-	7.9	686	-
19-11-23	-	-	-	8.0	678	-

Quality parameters of treated water:

Water Treatment plant:

	MUJ UGR					GH UGR				
Date	pH	TDS (ppm)	Hardness (ppm)	Turbidity (ppm)	FRC (ppm)	pH	TDS (ppm)	Hardness (ppm)	FRC (ppm)	Turbidity (ppm)
13-11-23	-	-	-	-	-	7.6	697	6	0.2	-
14-11-23	-	-	-	-	-	7.5	699	8	0.2	-
15-11-23	-	-	-	-	-	7.4	694	14	0.2	-
16-11-23	-	-	-	-	-	7.5	714	20	0.2	-
17-11-23	7.9	739	30	-	0.2	7.4	678	34	0.2	-
18-11-23	7.8	721	50	-	0.2	7.5	699	50	0.2	-
19-11-23	7.5	724	70	-	0.2	7.6	696	75	0.2	-

Thank you...!!!

Weekly O&M Review Report

20th Nov 23 – 26th Nov 23

2 STP + 2 WTP

Manipal University Jaipur, Jaipur

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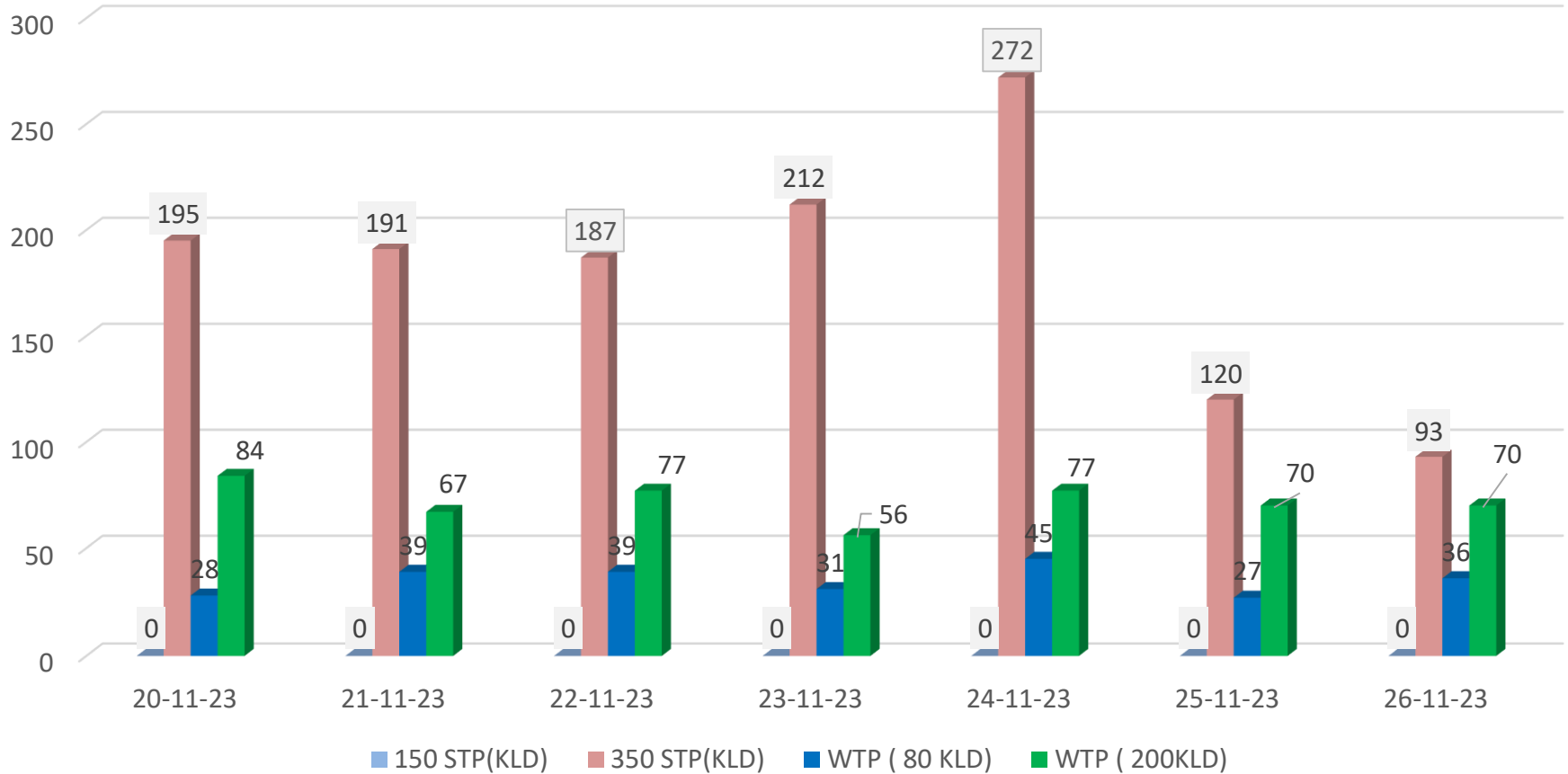
- Production summary & trend
- Quality parameters of treated water
- Equipment maintenance
- Operational difficulties & status of
Action taken

Production Summary :

Quantity of treated water in STP & WTP

Date	150 STP (KLD)	350 STP(KLD)	GH UGR (80 KLD)	MUJ WTP (240 KLD)
20-11-23	-	195	28	84
21-11-23	-	191	39	67
22-11-23	-	187	39	77
23-11-23	-	212	31	56
24-11-23	-	272	45	77
25-11-23	-	120	27	70
26-11-23	-	93	36	70

Production Trend: Quantity of treated water in STP & WTP



Quality parameters of Treated water: Sewage Treatment Plant:

	150 KLD STP			350 KLD STP		
Date	pH	TDS (ppm)	TURDIDITY (ppm)	pH	TDS (ppm)	TURDIDITY (ppm)
20-11-23	-	-	-	7.9	702	-
21-11-23	-	-	-	8.0	681	-
22-11-23	-	-	-	7.9	697	-
23-11-23	-	-	-	8.1	769	-
24-11-23	-	-	-	8.3	779	-
25-11-23	-	-	-	8.1	770	-
26-11-23	-	-	-	8.1	779	-

Quality parameters of treated water:

Water Treatment plant:

	MUJ UGR					GH UGR				
Date	pH	TDS (ppm)	Hardness (ppm)	Turbidity (ppm)	FRC (ppm)	pH	TDS (ppm)	Hardness (ppm)	FRC (ppm)	Turbidity (ppm)
20-11-23	7.7	723	90	-	0.2	7.4	693	75	0.2	-
21-11-23	7.6	705	18	-	0.2	7.6	718	75	0.2	-
22-11-23	7.6	702	24	-	0.2	7.4	684	10	0.2	-
23-11-23	7.7	714	32	-	0.2	7.5	670	16	0.2	-
24-11-23	7.6	715	50	-	0.2	7.6	689	24	0.2	-
25-11-23	7.8	738	80	-	0.2	7.5	709	30	0.2	-
26-11-23	7.7	765	18	-	0.2	7.6	710	40	0.2	-

Thank you...!!!

Weekly O&M Review Report

27th Nov 23 – 30th Nov 23

2 STP + 2 WTP

Manipal University Jaipur, Jaipur

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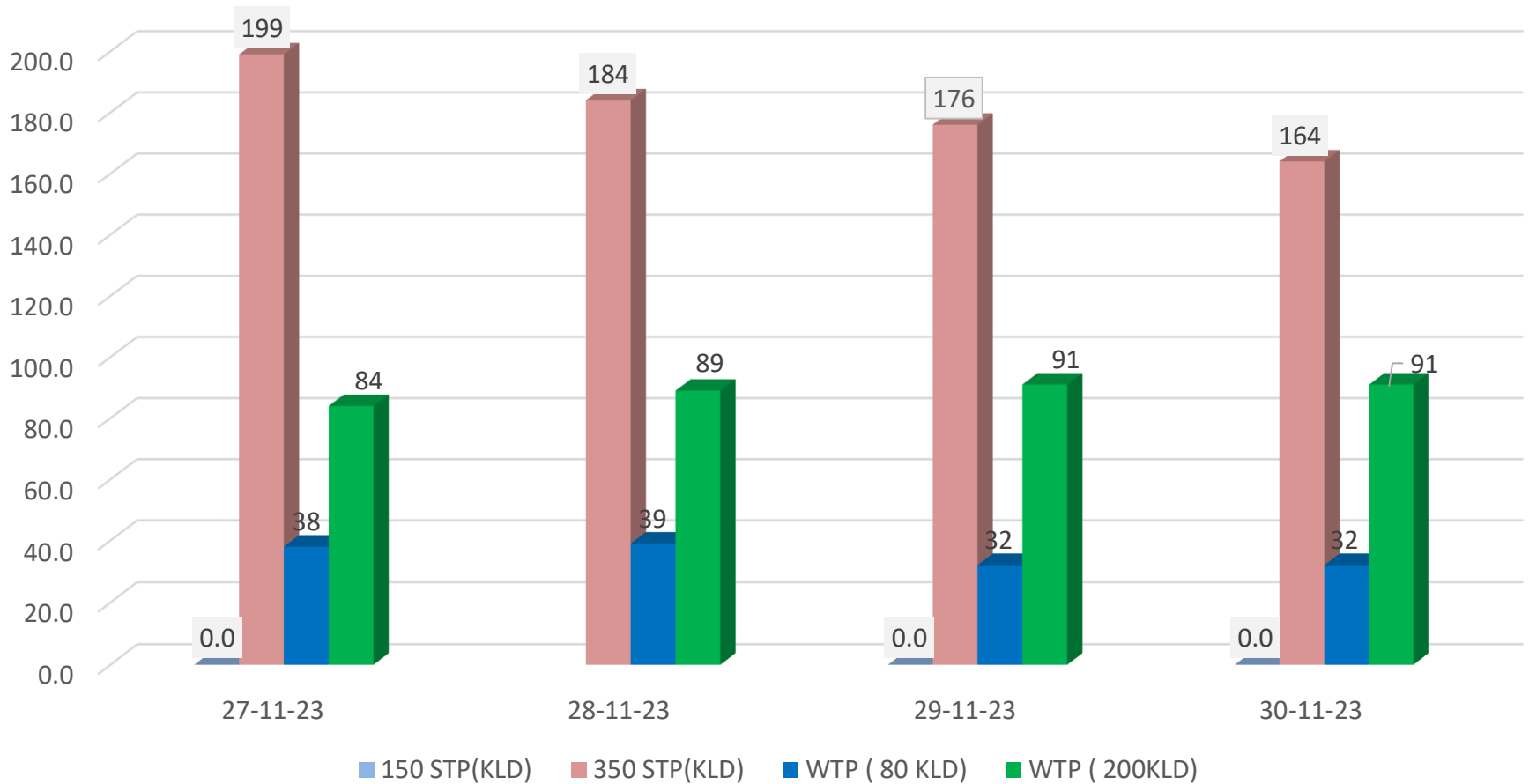
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Production Summary :

Quantity of treated water in STP & WTP

Date	150 STP (KLD)	350 STP(KLD)	GH UGR (80 KLD)	MUJ WTP (240 KLD)
27-11-23	-	199	38	84
28-11-23	-	184	39	89
29-11-23	-	176	32	91
30-11-23	-	164	32	91

Production Trend: Quantity of treated water in STP & WTP



Quality parameters of Treated water: Sewage Treatment Plant:

	150 KLD STP			350 KLD STP		
Date	pH	TDS (ppm)	TURDIDITY (ppm)	pH	TDS (ppm)	TURDIDITY (ppm)
27-11-23	-	-	-	7.5	904	-
28-11-23	-	-	-	7.4	945	-
29-11-23	-	-	-	7.4	924	-
30-11-23						

Quality parameters of treated water:

Water Treatment plant:

	MUJ UGR					GH UGR				
Date	pH	TDS (ppm)	Hardness (ppm)	Turbidity (ppm)	FRC (ppm)	pH	TDS (ppm)	Hardness (ppm)	FRC (ppm)	Turbidity (ppm)
27-11-23	7.4	751	30	-	0.2	7.6	702	50	0.2	-
28-11-23	7.6	743	50	-	0.2	7.6	691	75	0.2	-
29-11-23	7.6	742	80	-	0.2	7.3	706	100	0.2	-
30-11-23	7.5	738	100	-	0.2	7.5	681	6	0.2	-

Thank you...!!!



**MANIPAL UNIVERSITY
JAIPUR**

(University under Section 2(f) of the UGC Act)



NAAC A+ GRADE WITH 3.28 SCORE

LIQUID WASTE MANAGEMENT-INHOUSE- SEWAGE TREATMENT PLANT

MUJ is equipped with **4 STP** Plants with different capacity 1000 KLD, 350 KLD(two) and 150 KLD **IN TOTAL 1850 KLD**. Sewage treatment removes contaminants from wastewater, which includes physical, chemical, and biological processes to remove these contaminants and produce environmentally safer treated water (it has been used for flushing and gardening). In normalcy are producing 1850KL treated water per day.





**MANIPAL UNIVERSITY
JAIPUR**

(University under Section 2(f) of the UGC Act)



NAAC A+ GRADE WITH 3.28 SCORE

LIQUID WASTE MANAGEMENT-INHOUSE- SEWAGE TREATMENT PLANT

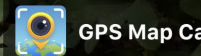




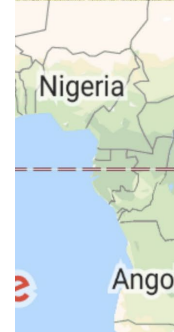
LIQUID WASTE MANAGEMENT-INHOUSE- SEWAGE TREATMENT PLANT



Rainwater harvesting- water canals in campus

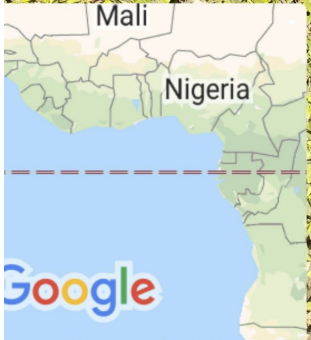


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17/12/21 02:53 PM



Dahmi Kalan, Rajasthan, India
RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India
Lat 26.842735°
Long 75.564334°
17/12/21 02:21 PM

More than 14 KM of Water Canals in University for water harvesting



Dahmi Kalan, Rajasthan, India
RHV7+2QH, Dahmi Kalan, Rajasthan 303007
Lat 26.842735°
Long 75.564334°
17/12/21 02:59 PM



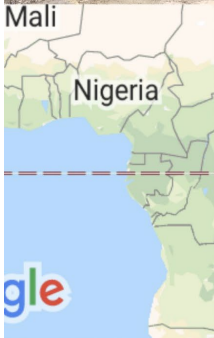
Dahmi Kalan, Rajasthan, India
RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India
Lat 26.842735°
Long 75.564334°
17/12/21 02:58 PM



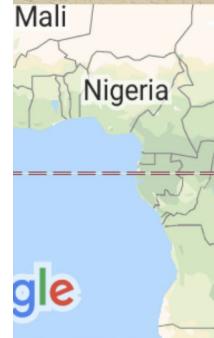
Poen well recharges through Ponds



Construction of Ponds



Dahmi Kalan, Rajasthan, India
RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India
Lat 26.842735°
Long 75.564334°
17/12/21 03:05 PM



Dahmi Kalan, Rajasthan, India
RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India
Lat 26.842735°
Long 75.564334°
17/12/21 04:18 PM

Construction of Ponds



GPS Ma



Dahmi Kalan, Rajasthan, India
RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India
Lat 26.842735°
Long 75.564334°
17/12/21 03:06 PM

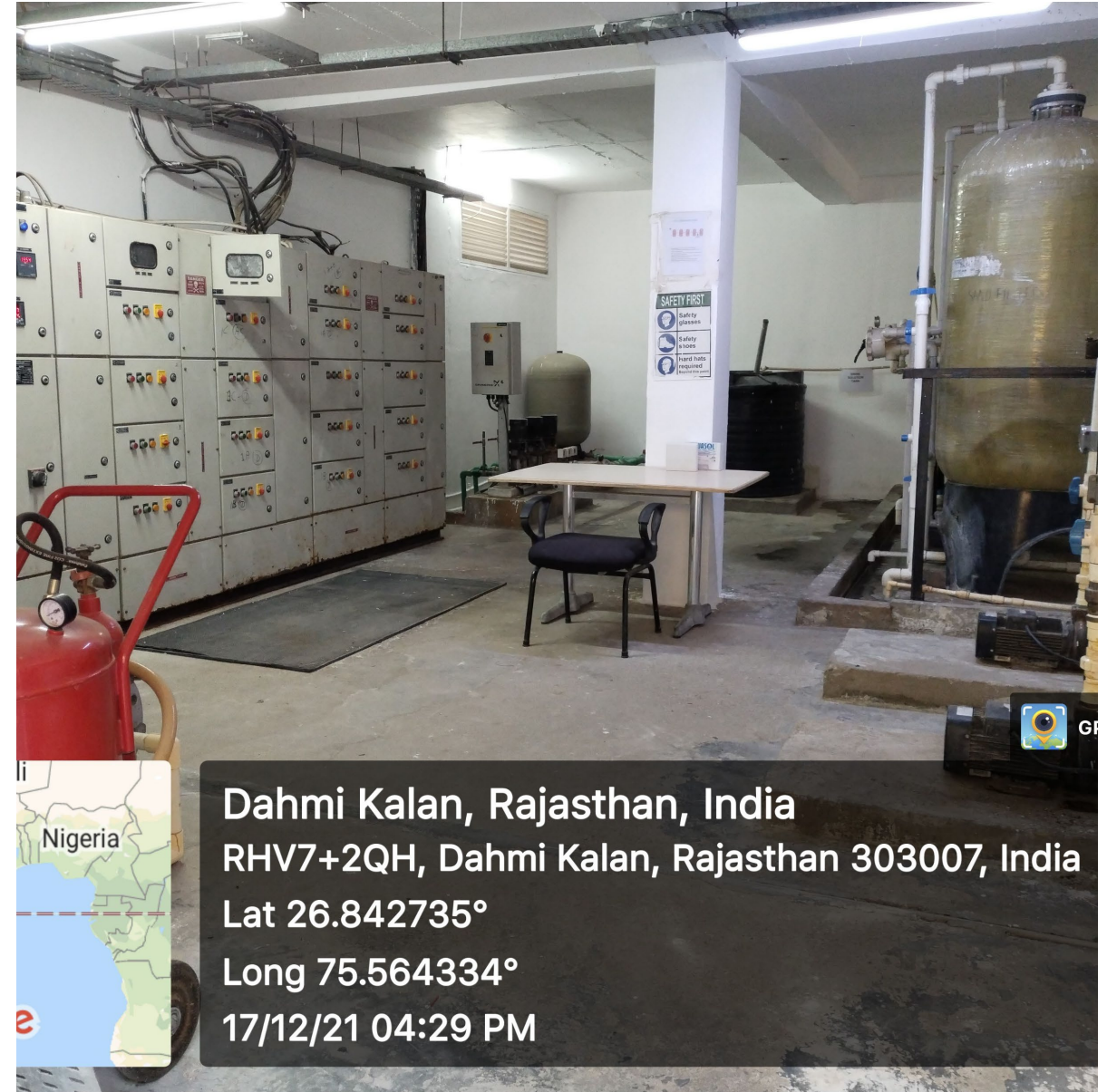


GPS Ma

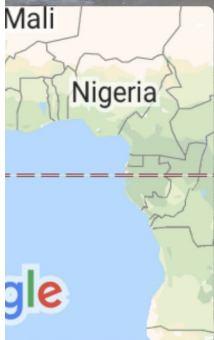


Dahmi Kalan, Rajasthan, India
RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India
Lat 26.842735°
Long 75.564334°
17/12/21 04:17 PM

Water Treatment Plants



Water Treatment Plants



Dahmi Kalan, Rajasthan, India
RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India
Lat 26.842735°
Long 75.564334°
17/12/21 04:28 PM

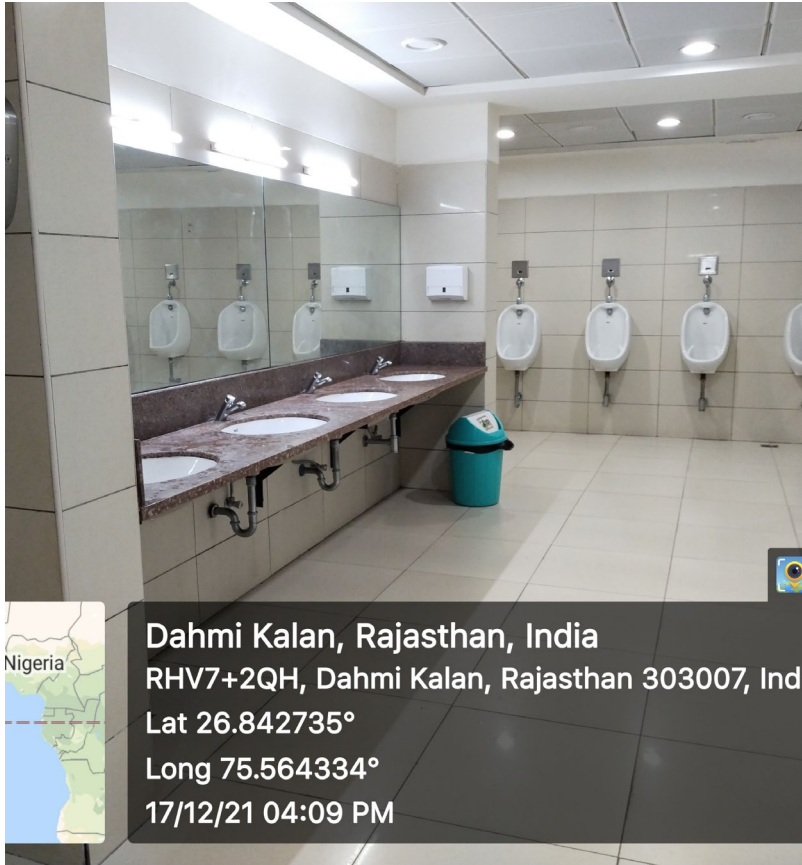


Dahmi Kalan, Rajasthan, India
RHV7+2QH, Dahmi Kalan, Rajasthan 303007, India
Lat 26.842735°
Long 75.564334°
17/12/21 04:28 PM



Water distribution System





Sensor Based Water Conservation



Water Aerator Installed in all



Drip Irrigation



TC-6960

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

Sample ID No.: SCS/WW/20231025/15	Date of Registration: 25.10.2023
Report No. SCS/MUJ/WW/20231025/15(1/2)	Date of Report: 31.10.2023

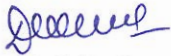
TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address of Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sample Receipt : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : STP Inlet Water (350 KLD)
Sample sent by : University Representative

RESULTS

Parameter	Results	Norms as Per EP Act	Protocol
pH	7.81	-	APHA (23rd Edition) 4500 H
Total Suspended Solids	169 Mg/L	-	APHA (23rd Edition) 2540 D
COD	520 Mg/L	-	APHA (23rd Edition) 5220 B
BOD ₃ Days at 27°C	126 Mg/L	-	IS 3025 (Part 44)
Oil & Grease	45 Mg/L	-	APHA (23rd Edition) 5520 B
Total Kjeldhal's Nitrogen as NH ₃	158 Mg/L	-	APHA (23rd Edition)4500 Norg B & C
Ammonical Nitrogen as N	61 Mg/L	-	APHA (23rd Edition)4500 NH3 B/C
Total Residual Chlorine	< 0.1 Mg/L	-	APHA (23rd Edition) 4500 Cl B
Phosphorus as P	2.5 Mg/L	-	APHA (23rd Edition) 4500 P- C

Per pro SCS Enviro Services Pvt. Ltd.,


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



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

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

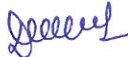
Sample ID No.: SCS/WW/20231025/15	Date of Registration: 25.10.2023
Report No. SCS/MUJ/WW/20231025/15(2/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : STP Inlet Water (350 KLD)
Sample collected by : University Representative

Parameters	Result	Protocol
Fecal Coliform	> 1600 MPN/100 ml	IS 15185

Per pro SCS Enviro Services Pvt. Ltd,


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



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MoEF&CC RECOGNIZED LABORATORY vide S.O.
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ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

Sample ID No.: SCS/WW/20231025/16	Date of Registration: 25.10.2023
Report No. SCS/MUJ/WW/20231025/16(1/2)	Date of Report: 31.10.2023

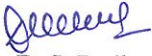
TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address of Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sample Receipt : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : STP Outlet Water (350 KLD)
Sample sent by : University Representative

RESULTS

Parameter	Results	Norms as Per EP Act	Protocol
pH	7.12	5.5 to 9.0	APHA (23rd Edition) 4500 H
Total Suspended Solids	9 Mg/L	Not to exceed 100 Mg/L	APHA (23rd Edition) 2540 D
COD	53 Mg/L	Not to exceed 250 Mg/L	APHA (23rd Edition) 5220 B
BOD ₃ Days at 27°C	10 Mg/L	Not to exceed 30 Mg/L	IS 3025 (Part 44)
Oil & Grease	< 5 Mg/L	Not to exceed 10 Mg/L	APHA (23rd Edition) 5520 B
Total Kjeldhal's Nitrogen as NH ₃	6 Mg/L	Not to exceed 100 Mg/L	APHA (23rd Edition) 4500 Norg B & C
Ammonical Nitrogen as N	5.8 Mg/L	Not to exceed 50 Mg/L	APHA (23rd Edition) 4500 NH3 B/C
Total Residual Chlorine	< 0.1 Mg/L	Not to exceed 1 Mg/L	APHA (23rd Edition) 4500 Cl B
Phosphorus as P	0.6 Mg/L	Not to exceed 1 Mg/L	APHA (23rd Edition) 4500 P- C

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

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


Sample ID No.: SCS/WW/20231025/16	Date of Registration: 25.10.2023
Report No. SCS/MUJ/WW/20231025/16(2/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : STP Outlet Water (350 KLD)
Sample collected by : University Representative

Parameters	Result	Protocol
Fecal Coliform	Absent	IS 15185

Per pro SCS Enviro Services Pvt. Ltd,


Dr. D. S. Parihar
(Technical Manager)
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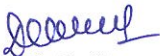
Sample ID No.: SCS/W/20231025/17	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/17(1/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : Borewell Water near 1-C
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
pH	7.75	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
Turbidity, NTU	0.18	1	5	APHA (23rd Edition) 2130
Total Dissolved Solids	731.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	28.80 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	151.95 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Fluoride as F	1.00 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 Cl B
Iron as Fe	0.03 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	14.58 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Nitrate as NO ₃	39.08 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 NO ₃ B
Sulphate as SO ₄	25.72 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	296.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	132.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

Per pro SCS Enviro Services Pvt. Ltd.,


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



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

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

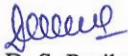
Sample ID No.: SCS/W/20231025/17	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/17(2/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : Borewell Water near 1-C
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
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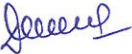
Sample ID No.: SCS/W/20231025/18	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/18(1/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : Borewell Water near Cricket Ground
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
pH	7.86	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
Turbidity, NTU	0.15	1	5	APHA (23rd Edition) 2130
Total Dissolved Solids	687.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	32.00 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	111.97 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Fluoride as F	1.02 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 Cl B
Iron as Fe	0.03 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	14.58 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Nitrate as NO ₃	50.24 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 NO ₃ B
Sulphate as SO ₄	21.80 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	304.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	140.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

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

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

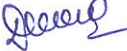
Sample ID No.: SCS/W/20231025/18	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/18(2/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : Borewell Water near Cricket Ground
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
(Technical Manager)
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TC-6960

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


Sample ID No.: SCS/W/20231025/19	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/19(1/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : 1-C Building Water Cooler
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
pH	7.96	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
Turbidity, NTU	0.11	1	5	APHA (23rd Edition) 2130
Total Dissolved Solids	290.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	6.40 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	79.98 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Fluoride as F	0.52 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 Cl B
Iron as Fe	0.02 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	2.92 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Nitrate as NO ₃	39.77 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 NO ₃ B
Sulphate as SO ₄	6.43 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	68.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	28.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

Per pro SCS Enviro Services Pvt. Ltd.,


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



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- The sample will be destroyed after 15 days from the date of issue of the test report.
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7, KESAR VIHAR, OPPOSITE KHATU SHYAMJI TEMPLE,
RAMNAGARIYA ROAD, JAGATPURA,
JAIPUR-302017, RAJASTHAN (INDIA)
CIN NO: U74140RJ2013PTC042216

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

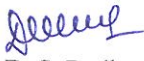
Sample ID No.: SCS/W/20231025/19	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/19(2/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : 1-C Building Water Cooler
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


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



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TC-6960

MoEF&CC RECOGNIZED LABORATORY vide S.O.
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ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

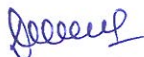
Sample ID No.: SCS/W/20231025/20	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/20(1/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : 2 AB 001 Building Water Cooler
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
pH	7.43	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
Turbidity, NTU	< 0.10	1	5	APHA (23rd Edition) 2130
Total Dissolved Solids	201.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	6.40 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	47.98 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Fluoride as F	0.27 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 Cl B
Iron as Fe	< 0.01 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	3.89 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Nitrate as NO ₃	18.70 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 NO ₃ B
Sulphate as SO ₄	< 5.00 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	68.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	32.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

Per pro SCS Enviro Services Pvt. Ltd.


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CIN NO: U74140RJ2013PTC042216

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


Sample ID No.: SCS/W/20231025/20	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/20(2/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : 2 AB 001 Building Water Cooler
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
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MoEF&CC RECOGNIZED LABORATORY vide S.O.
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ISO-14001:2015 CERTIFIED LABORATORY
ISO-45001:2018 CERTIFIED LABORATORY

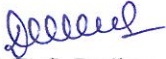
Sample ID No.: SCS/W/20231025/21	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/21(1/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : 1 AB 001 Building Water Cooler
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
pH	7.73	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
Turbidity, NTU	< 0.10	1	5	APHA (23rd Edition) 2130
Total Dissolved Solids	147.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	6.40 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	31.99 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Fluoride as F	0.12 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 Cl B
Iron as Fe	< 0.01 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	2.92 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Nitrate as NO ₃	23.56 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 NO ₃ B
Sulphate as SO ₄	< 5.00 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	44.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	28.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

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

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

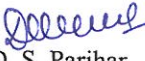
Sample ID No.: SCS/W/20231025/21	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/21(2/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : 1 AB 001 Building Water Cooler
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


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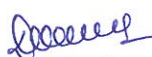
Sample ID No.: SCS/W/20231025/22	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/22(1/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : Food Court (MUJ) Water Cooler
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
pH	7.86	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
Turbidity, NTU	< 0.10	1	5	APHA (23rd Edition) 2130
Total Dissolved Solids	171.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	9.60 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	45.98 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Fluoride as F	0.23 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 Cl B
Iron as Fe	< 0.01 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	3.89 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Nitrate as NO ₃	16.95 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 NO ₃ B
Sulphate as SO ₄	< 5.00 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	52.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	40.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

Per pro SCS Enviro Services Pvt. Ltd.,


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CIN NO: U74140RJ2013PTC042216

ISO-9001:2015 CERTIFIED LABORATORY
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Sample ID No.: SCS/W/20231025/22	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/22(2/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : Food Court (MUJ) Water Cooler
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


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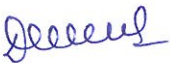
Sample ID No.: SCS/W/20231025/23	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/23(1/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : Workshop Water Cooler
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
pH	7.28	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
Turbidity, NTU	< 0.10	1	5	APHA (23rd Edition) 2130
Total Dissolved Solids	123.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	4.80 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	27.99 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl- B
Fluoride as F	0.15 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 Cl B
Iron as Fe	< 0.01 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	< 2.00 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Nitrate as NO ₃	11.99 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 NO ₃ B
Sulphate as SO ₄	< 5.00 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	40.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	20.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

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

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

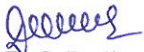
Sample ID No.: SCS/W/20231025/23	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/23(2/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : Workshop Water Cooler
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


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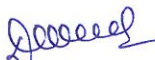
Sample ID No.: SCS/W/20231025/24	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/24(1/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : Facility House WTP Treated water
Sample collected by : SCS Representative

Parameter	Results	IS – 10500:2012		Protocol
		Requirement (Acceptable Limit)	Permissible Limit in absence of alternate source	
Table 1: Organoleptic and Physical Parameters				
pH	7.38	6.5 – 8.5	No Relaxation	APHA (23rd Edition) 4500 H
Color, Hazen Units	< 1	5	15	APHA (23rd Edition) 2120B
Odour	Agreeable	Agreeable	Agreeable	IS 3025 (Part 5)
Taste	Agreeable	Agreeable	Agreeable	IS 3025 (Part 7)
Turbidity, NTU	0.10	1	5	APHA (23rd Edition) 2130
Total Dissolved Solids	126.00 Mg / L	500 Mg / L	2,000 Mg / L	APHA (23rd Edition) 2540 C
Table 2: General Parameters Concerning Substances Undesirable in Excess Amounts				
Calcium as Ca	6.40 Mg / L	75 Mg / L	200 Mg / L	APHA (23rd Edition) 3500 Ca B
Chloride as Cl	27.99 Mg / L	250 Mg / L	1,000 Mg / L	APHA (23rd Edition) 4500 Cl B
Fluoride as F	0.15 Mg / L	1.0 Mg / L	1.5 Mg / L	APHA (23rd Edition) 4500 F D
Free Residual Chlorine	< 0.1 Mg / L	0.2 Mg / L	1.0 Mg / L	APHA (23rd Edition) 4500 Cl B
Iron as Fe	< 0.01 Mg / L	0.3 Mg / L	No Relaxation	APHA (23rd Edition) 3111B
Magnesium as Mg	2.92 Mg / L	30 Mg / L	100 Mg / L	APHA (23rd Edition) 3500 Mg B
Nitrate as NO ₃	11.82 Mg / L	45 Mg / L	No relaxation	APHA (23rd Edition) 4500 NO ₃ B
Sulphate as SO ₄	< 5.00 Mg / L	200 Mg / L	400 Mg / L	APHA (23rd Edition) 4500 E
Total Alkalinity as CaCO ₃	44.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2320
Total Hardness as CaCO ₃	28.00 Mg / L	200 Mg / L	600 Mg / L	APHA (23rd Edition) 2340 C

Per pro SCS Enviro Services Pvt. Ltd.,


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



- The results refer only to the tested sample and applicable parameters.
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- This report cannot be reproduced without the written permission of the director.
- The sample will be destroyed after 15 days from the date of issue of the test report.
- The liability of the laboratory is limited to the invoiced amount.
- All disputes are subjected to Jaipur jurisdiction.

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

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

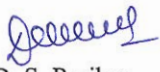
Sample ID No.: SCS/W/20231025/24	Date of Registration: 25.10.2023
Report No. SCS/MUJ/W/20231025/24 (2/2)	Date of Report: 31.10.2023

TEST REPORT

Name of Client : M/s. Manipal University Jaipur,
Address Client : VPO: Dehmi Kalan, Tehsil: Sanganer, Off Jaipur-Ajmer Expressway, Jaipur
Date of Sampling : 25.10.2023
Date of start of testing : 26.10.2023
Date of end of testing : 31.10.2023
Details of Sample : Facility House WTP Treated water
Sample collected by : SCS Representative

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

Per pro SCS Enviro Services Pvt. Ltd.,


Dr. D. S. Parihar
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