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SDG-6

DIT University Event Report 2022-23







When the other aspect, polluted water is pure it can sustain lifeforms on the other aspect, polluted water is the cause of disaster. UN SDG 6 promotes 'Clean Water and Sanitation' ensuring access to water and sanitation for all. All stakeholders of society are having the fundamental rights to access this resource in easily accessible and clean form. Also the society must ensure the water as resource must not be polluted by human activities. Wastage must be eradicated. At present, it is becoming very difficult to obtain sufficient quantity and good quality water. All this is due to unscientific usage. Also the resource is continuously diminishing at various sources and going out of access to certain sections of society. So it is our duty to ensure the sustainability of water through pollution mitigation, judicious usage and environmental awareness. DIT University promotes this objective through its policy of sustainable water usage, reuse of waste water, conservation principle and promoting same through research and outreach activities.



Reuse of Water Across University

DIT University complies with zero discharge policy of the Central and State Pollution Control Board. No water is discharged to the surrounding environment. All the used water is treated in STP and reused for Horticulture & Flushing of Toilets. Records are maintained in University STP

Reference: University water policy





Pumps installed in STP to make treated water available for reuse in campus







2022-23

	Mentor Water Experts Pvt. Ltd. Sewage Treatment Plant 500 KLD Logbook Site:- DIT University											Date:-01-02-2023 Day:- Wednisday			
Sr	Check Point	Status	6.00	8.00		12.00	14.00	16.00	18.00	20.00	22.00	24.00	2.00	4.00	
	Primary Trea	tment									-				
1		Clean	clean	clean	clean	clean	dean	clean	Chan	cha.	Clean.	Club	CICON	Clean	
3	OGT EQT Level	Clean	clean	clean	cleno	clean	clean	Chan	clean	clean	cha.	Clon	CICON	Cicon	
3	STP 265 I	in%	7.07	7.04	70%	20%	70%	Be-1.	80.1.	701	70.1.	80.1.	70.1	70-1-	
1	Inlet Flow	m3/Hr	-		-	-			1			1		11000	
2	Anoxic chamber	Ok/Nok	ok	ok	ok	ok	No	or.	011	ok.	•	*	ek	ok	
3	Agitator	Run/ Stop	OFF	STop	STOP	STOP	STOP	Stof	Step	Ster	Star	OK STOP	STOP	STOP	
4	FMR	Ok/Nok	ok	ok	OK	ok	ok	OK	OK	OIL	OIL	ole	OK	oK	
5	Lamella	Ok/Nok	ok	ok	ok	ðk.	010	OK	ore	OLL	OK	ok	OK	ok	
6	Sludge recirculation Sludge Drained	On/Off Min	OFF	OFF	DEE	OFF	440	040	off	OFF	·A	0FF	OFF	off	
8	Chlorine Dosing	On/Off	OFF	OFF	OFF	OFF	OLL	-	OFP-	-	- OF		= FP	· FP	
9	Blower Pressure	kg/cm2	OFF	OFF	OFF	OFF	OFF	eff.	qq	CAL CAL	014	o FF off	= FF	Off	
10	Filter Diff. pressure	< 1.5 kg/cm2	-	-	-	-	-	-11	-11	-11	-17	OFF	- 11	-11	
	FMR 30	T													
1	Inlet Flow	m3/Hr	4.7	5-1	6.2	6.3	OFF	672	5:8	5:5	5:4	5.2	4 9 •K	5.0	
2	Anoxic chamber	Ok/Nok	ok Run	DK	OK CL	ok	ok	OF	ex_	ere	ore	OK		OH	
4	Agitator	Run/Stop Ok/Nok	ok	Run	Run	Run	Run	Run	Run	Run	Run	Ren	Run	Run	
5	Lamella	Ok/Nok	ok	ok	ok	ok	ok	OK	OK	PK	PIC	OK	o K	OK	
6	Sludge recirculation	On/Off	OFF	OFF	OFF	OFF	ON	off	OFF	OFF	OFF	off	OFF	off	
7	Sludge Drained	Min	+			-	4					-			
8	Chlorine Dosing Blower Pressure	On/Off	ON	ON	ON	ON	ON	on	on	en	on	04	ON	ON	
9	FMR 20	kg/cm2	04	04	04	ou	04	04	04	OH	04	04	04	011	
1	Inlet Flow	m3/Hr	4.2	u.9	DEE	5.1	4.3	4:38	4:22	4:18	4:13	95	4.8	5-1	
2	Anoxic chamber	Ok/Nok	DK	OK	ok	ok	ok	OK.	OK	02	OK	OK	ok 4 s	0K	
3	Agitator	Run/ Stop	Run	Run	Run	Run	Run	Run	Run	Run	Run	pin	Run	Run	
4	FMR	Ok/Nok	OK	ok	ak	ok	ok	OK	are	or	OK	OK	ok	ok	
5	Lamella	Ok/Nok	OFF	ok DFF	ok	off	OFF	OFF	ou	10 Le	Ole	OR	OK	Ok	
6	Sludge recirculation Sludge Drained	On/Off Min	047	OFF	ON	OFF	OFF	1067	99-	014	off	OFF	off	off	
8	Chlorine Dosing	On/Off	ON	ON	ON	140	ON	011	611	04	en	ON	ON	NO	
9	Blower Pressure	kg/cm2	04	ou	04	04	04	04	04	04	04	ou	0 11	ou	
	Tertiary Trea	tment													
1	BWT Level	in %	BOY.	80%	20%	70%	60%	70%	704	60%	50%	701	601	60-1	
2	Filter Diff. pressure Outlet flow	< 1.5 kg/cm2 m3/Hr	OFF	1.5	211	OFF	OFF	04.	1-2	1.2	0/4	1-5	1.5	OFE	
4	Backwash Pressure	kg/cm2	DFF	OFT	OFF	2	OFF	CH.		2.5	OF	off	off	OFF	
5	UV System	On/Off	OFF	ON	ON	OFF	OFF	64	011	on	04	GN	ON	OFF	
6	TWT Level	in %	20%	20%	80%	90%	80%	70.1.	70%	Bey.	201	80 1	90-1-	30 41	
7	TWP Pressure	kg/cm2	OFF	06	06	OFF	off	04.	off	OH:	04	aff	OFF	OFF	
8	Filter Press	Run/Stop	STOP 40%	Stop You	STOP Uo%	310P 40%	STOP 40%	Stal	Staf	Stel	Art	STOP		STOP	
9	SHT Level	in %	40%	40%	40%	407.	907.	401	404	401	404	40+	40-1-	40-1-	
L	UF Treatm UF Feed Tank Level	ent	80%	9 0%	Qay.	70%	70%	-Fo.1.	7071.	80.1-	80.1.	Col		50 -1	
	Inlet Pressure	< 2.0 kg/cm2	1.4	1.5	1.3	1.4	1.5	12	1. L	1:2	0 4	50+ 1-S	604	1.6	
ų.	Permit Pressure	< 1.0 kg/cm2	0.6	10.7	0.6	0.0	0.6	0.6	0.6	0.5	att	0.6	0.4	2:0	
	Permit Flow	na/hr	2.4	2-5	1.5	-	-		2.2	2.2	-	2.2	21	2.5	
	Reject Provine	<1.0 m3/hr	0:4	0.3	0.4	0.5	0.4	0.5	0.6	1.2	10 AT	0.9		0.1	
	Backwash Pressure	< 1.5 kg/cm2 <3.0 m3/hr	2:3	2.0	1.2	2.5	2.3	2.3	1.2	2:2	Off	23	-	ty.	
	Chemical Tank Level	<3.0 m3/hr >25%	2.0%	2.0%	20%	20%	2.=1/	20%	2011	40.7.	201/1	20-1		204	
	UF Water Tank Level		90%	80%	90%	80%	90%		Bort.	90%	90%	80 -	Se -1	30.4	
	Inlet 300 KLD	KL	Inlet 2		KL	265 KLD	Total		let 500	KL	UF	Outlet	265 KLD	Total	
1	00.000		0101	1.2					-	-	-	-	-		
3	002382		8627					12	181	-	-				
c	009402		86315 Day Total				216KL	172 173 1731 Day	60					2548	
	Day Total	TOUKE			112 11				Total		Day	Total	1		
	Parameter	Limit	Res		Shift	Nat	ne	Sign. Jonicesh					Carl	~1	
1	рН	6.5 to 8.5	3.19	-	G	Frakas							Apr	To	
2	TDS	TDS <2000ppm は日のPPM MLSS 10 to 35% えてゾ.		A	forma	atal	Pr-L	Tric				-272			
4	Chlorine Level	10 to 35% 5 to 10 ppm	OK		C	Daw'l		Cum D24	Client Remark-						
	Colour	Colourless			G	Deepa	R						-		
6	Odor	Odorless	ok		Checked I										

Record of Treated Water Extraction





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July 17, 2023

1. Liven

Water Conservation Policy (Revised) of DIT UNIVERSITY

PREAMBLE

The water policy of DIT University aims to follow the collection, distribution, utilization, re usage and conservation of water in a sustainable way in line with objective of the University to establish a sustainable Campus in line with the famous saying of "Every Drop Counts". The policy ensures most effective ways to ensure avoidance and no wastage and optimum utilization of water with appropriate infrastructure planning and execution at ground level with cooperation of all the stakeholders of University.

Objective

DIT University has strong water policy that ensures pollution free clean water for all stakeholders of University and use of same in most sensible and sustainable ways with the inclusion of water conservation principles.

1. Water Collection

University receives water from following sources:

- 1. Tubewell (900 cubic metre per day)
- 2. Uttarakhand 's Jal Sansthan (4 water supply lines, which provide total 250 cubic metre per day)

Tubewell water source near University is taken from artesian well which do not require any pumping to be done extra to extract from groundwater. Hence there is no additional pressure on existing groundwater table in process of extraction. Only, the accumulated water is pumped to water storage.

Uttarakhand Jal Sansthan further extract water from nearby river resources which are precipitation fed small tributaries, natural springs and tubewells as per the Government policy.

2. Water Storage

University has water storage capacity of total 700 cum which is constantly being used and filled up whenever required. The storage is fitted with prevention of water overflow to stop water wastage.

3. Water Distribution System

University is having layout of water supply lines scientifically designed with corrosion free and durable materials that maximize leak proof water supply and prevent contamination from outside sources. Both water supply and sewer lines are running apart having reasonable six feet distance longitudinally & vertically. Periodical

Established vide Uttarakhand Act No. 10 of 2013 Recognized by UGC under Section 2 (f) of the UGC Act, 1956

DITUNIVERSITY, EDU. IN

maintenances are conducted for both the lines to prevent any mechanical failure and leakage in pipelines. University also takes care of any further water accumulation near the lines during precipitation to stop contamination.

4. Water Treatment Facilities

University has advanced water treatment facility consisting of three types of filters for which is combined with storage facility to provide additional treated water after water collection from sources: Multi Graded Filter (MGF), Activated Carbon Filters (ACF), Water Softener.

MGF is used to remove suspended solids, dust and dirt present in the water. ACFs are used in the process of removing organic compounds. Water softener is deployed for keeping water hardness within permissible limit.

5. Water Usage

Per day water consumption is 600 cubic metre with full capacity of 6000 Students that include 2000 hostlers and 4000 day scholars, 600 number staff and 100 number of visitors.

6. Water Distribution Policy

DIT University believes everyone is having fundamental right to get potable water without any conditions and constraints in society. Therefore, University shares and distributes its water resources free for all its stakeholders and outside guests. There is no financial charge attributed on anyone for water usage. However, University promotes and encourages all for sustainable use of this resources.

7. Strategy of Building to minimize the Water Usage

DIT University buildings are fitted with pressmatic water dispensing taps and flushing cisterns with minimum time setting to reduce water wastage. Same is also done in laboratories where sink is used.

8. Waste Water Management Facility

University has sewage treatment plant (STP) facility of capacity 500 cubic meter per day capacity to handle waste water of the University. In addition to this, another unit of 265 cubic meter per day capacity is kept on standby in case of emergency of maintenance of the primary unit or non-functioning. STP process and test results are well maintained in log book. The quality of water is periodically tested in Government approved laboratories and submitted to concerned offices.

J. L. Jase

9. Water Reuse

DIT University complies with zero discharge policy of the Central and State Pollution Control Board. No water is discharged to the surrounding environment. All the used water is treated in STP and reused for Horticulture & Flushing of Toilets.

10. Water Conservation Facilities

University has water harvesting plant where rain water of 1200 m² area is collected & discharged to ground water after passing through six stage cleaning /filtration process. The complete process is defined at site also documented. Average rain fall is approx. 1500mm (Annual), total area is 1200 m² for water harvesting pit, approx.1100 cubic meter water every year.

11. University Aims and Initiatives

11.1 Responsibilities of Stakeholders

- Proactively support of all stakeholder in execution of water sustainability measures by University
- Self-motivation among all to stop water wastage wherever the same is found.
- Judicious use of water for drinking and other purposes
- Proactively reporting and taking measures if there any leakage or mechanical failure in water supply lines.
- Enthusiastic participation in all water conservation related activities hosted by University on and off campus.
- Commitment towards, green campus policy and environmental management
- Involvement in community program for awareness campaign outside University campus

11.2 Monitoring, Maintenance and Records

- Monitor water supply records periodically with log book
- Maintenance record of water supply systems, storage and leakage
- Replacement of faulty pipelines, joints, taps, closets, Pipe appurtenances
- Use of cost effective, durable, environmental friendly materials in water and water pipelines and appurtenances
- Updation and planning of pipe network as per the requirements of new buildings to be constructed and its floor plans in the campus.
- Periodical efficiency measurement of water pipe appurtenances
- Planning of integrated water management system in campus

J. F. Jave

11.3 Water Audit and Compliance of Recommendations

- Updated documentation on water volume extraction, storage, distribution, reuse.
- Updated record of reports of maintenance need and subsequent actions taken
- Periodical internal and external audit.
- Analysis of the audit report in statutory bodies and further recommendation plan
- Vision and planning of achieving water efficient building standards

11.4 Education, research and outreach programs to promote water sustainability

- Integration of courses and programs related to environmental sustainability, water quality management, waste water treatment, rainwater harvesting
- Ensuring minimum courses to be opted by university students as core mandatory courses and increase the limit for option for free courses.
- Arranging joint collaborative workshops or conferences on environmental sustainability. Enhance the collaborative research on same with national and international agencies.
- Involvement in national and international missions to promote sustainability through panel discussions, debates, joint statements, publications
- Appropriate signages and posters on campus to promote awareness on water saving, water conservations

11.5 Promotion of University's Sustainability pledge as regular practice

- Promotion of University's Sustainability pledge as regular practice in Academic Activities, field trips, outreach activities for students and faculty members.
- Promotion of the Sustainability pledge for University staffs to get more awareness, knowledge and commitment towards sustainable practices.

11.6 Celebration of Events of Environmental Importance

DIT University regularly celebrates World Earth Day, World Environment Day, Tree Plantation Program (specifically 'Harela', 'Ek Ped Maa Ke Naam'- State & Central Government initiatives), Cleanliness Drive ('Swachh Bharat Abhiyan' - Government of India initiatives), Conservation Awareness Programs.

Students and Staffs of the University enthusiastically participate in these events and commit themselves for the Conservation of Environment. DIT University also invites participants from other Academic Institutions, Local villages and communities in these programs.