

SDG-6



Water is essential requirement of life. If 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.

DIT University Event Report

Sewage Treatment Plant Specifications

Sewage Treatment Plant

Treatment capacity - 500kld

Manufacturer - Ion Exchange India Ltd

Year of commissioning - April 2019

Technology - MBBR

Average treatment – 500 cubic metre per day

Operation & Maintenance with - Mentor Water Experts

Record - Daily Log Book

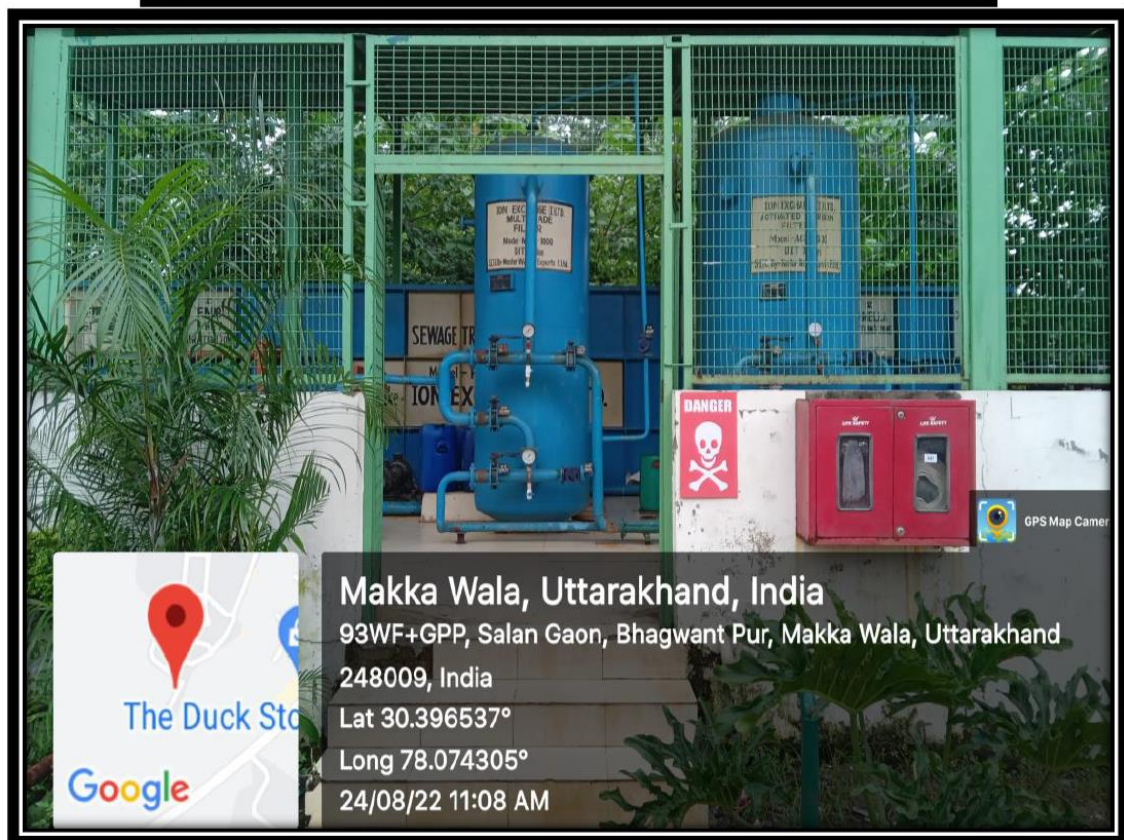
Intake water quantity & processed water quantity record, chemicals record used in process

Daily testing parameters testing's –pH (6.5 to 8.5), TDS (less than 2000ppm, mlls - 10to 35%, chlorine level 5 to 10ppm, color-colorless & odor –odorless

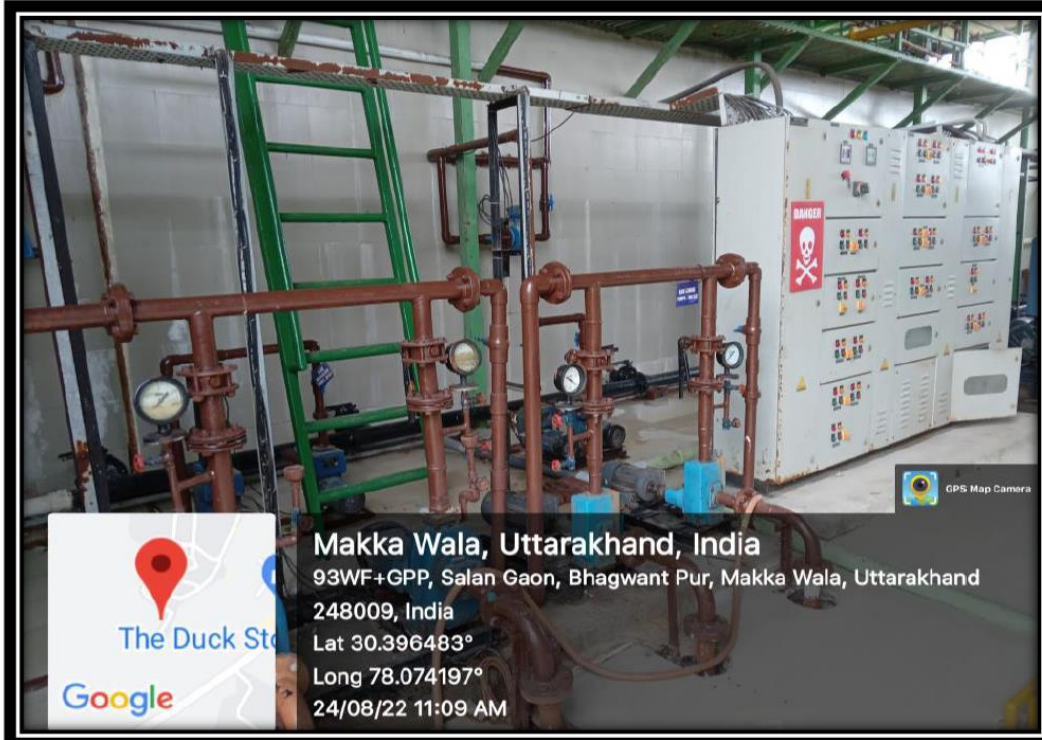
Treated water testing - quarterly

NABL Accredited analytical parameters

Waste Water Recycle - STP Plant



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Mentor Water Experts Pvt. Ltd. Sewage Treatment Plant 500 KLD Logbook											
Site: DIT University											
Check Point	0.00	8.00	16.00	24.00	32.00	40.00	48.00	56.00	64.00	72.00	80.00
Primary Treatment	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Secondary Treatment	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
DO Level	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
STP 265 KLD											
Inlet Flow	m ³ /hr	5.2	6.1	7.2	7.4	8.4	8.4	7.9	8.4	7.0	8.0
Anoxic chamber	On/NoK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Agitator	Run/ Stop	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run
FMR	On/NoK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lamella	On/NoK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Sludge recirculation	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Sludge Drained	Min	-	-	-	-	-	-	-	-	-	-
Chlorine Dosing	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Blower Pressure	kg/cm ²	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Filter Diff. pressure	< 1.5 kg/cm ²	-	-	-	-	-	-	-	-	-	-
FMR 300											
Inlet Flow	m ³ /hr	7.1	7.3	5.1	5.3	5.2	5.8	5.9	9.1	9.2	8.8
Anoxic chamber	On/NoK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Agitator	Run/ Stop	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run
FMR	On/NoK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lamella	On/NoK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Sludge recirculation	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Sludge Drained	Min	-	-	-	-	-	-	-	-	-	-
Chlorine Dosing	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Blower Pressure	kg/cm ²	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
FMR 200											
Inlet Flow	m ³ /hr	-	-	-	-	-	-	-	-	-	-
Anoxic chamber	On/NoK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Agitator	Run/ Stop	Run	Run	Run	Run	Run	Run	Run	Run	Run	Run
FMR	On/NoK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Lamella	On/NoK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Sludge recirculation	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Sludge Drained	Min	-	-	-	-	-	-	-	-	-	-
Chlorine Dosing	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Blower Pressure	kg/cm ²	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Tertiary Treatment											
BWT Level	in %	70.1	60.1	70.1	80.1	70.1	70.1	80.1	70.1	60.1	80.1
Filter Diff. pressure	< 1.5 kg/cm ²	1.5	1.4	1.2	1.3	1.2	0.4	1.2	1.2	0.4	1.2
Outlet flow	m ³ /hr	Stop	Stop	2.2	2.5	2.7	0.4	2.0	0.4	0.4	0.4
Backwash Pressure	kg/cm ²	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
UV System	On/Off	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
TWT Level	in %	80.1	70.1	70.1	80.1	80.1	80.1	70.1	70.1	80.1	80.1
TWP Pressure	kg/cm ²	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4
Filter Press	Run/ Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop	Stop
SHT Level	in %	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1	40.1
UF Treatment											
Inlet Pressure	< 2.0 kg/cm ²	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
Permitt Pressure	< 1.0 kg/cm ²	1.4	1.5	1.4	1.5	1.4	1.5	1.4	1.5	1.4	1.5
Permitt Flow	> 2 m ³ /hr	0.4	0.2	0.1	0.1	0.2	0.5	2.4	2.5	2.4	0.4
Reject Pressure	< 1.0 kg/cm ²	0.2	0.1	0.2	0.3	0.2	0.4	0.5	0.4	0.4	0.4
Reject Flow	< 1.5 m ³ /hr	1.1	1.2	1.1	1.2	1.3	1.1	1.2	1.1	1.1	0.4
Backwash Pressure	< 3.0 m ³ /hr	2.4	2.3	0.4	0.4	0.4	2.5	2.5	2.4	2.5	0.4
Chemical Tank Level	> 25%	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
UF Water Tank Level	%	80.1	70.1	80.1	70.1	80.1	70.1	80.1	70.1	80.1	70.1
Flushing Tank Level	%	70.1	80.1	70.1	80.1	70.1	80.1	70.1	80.1	70.1	80.1
Inlet 300 KLD	KL										
Inlet 200 KLD	KL										
265 KLD	KL										
Total											
Outlet 500	KL										
UF Outlet											
265 KLD											
Total											
53080											
53087											
53090											
Day Total	KL										
Parameter	Limit	Result	Shift	Name	Sign.	Engineers Remark:					
PH	6.5 to 8.5	7.1	G								
TDS	< 2000ppm	5.2 ppm	A	NADPPL							
MLSS	10 to 35%	2.5 %	B	Kundan							
Chlorine Level	5 to 10 ppm	5.1 ppm	C	Shankar							
Colour	Colourless	0.1	G	HARU							
Odor	Odorless	0.2	G	Checked By: Pankaj							

Water Log Book at STP

DIT University Event Report

