



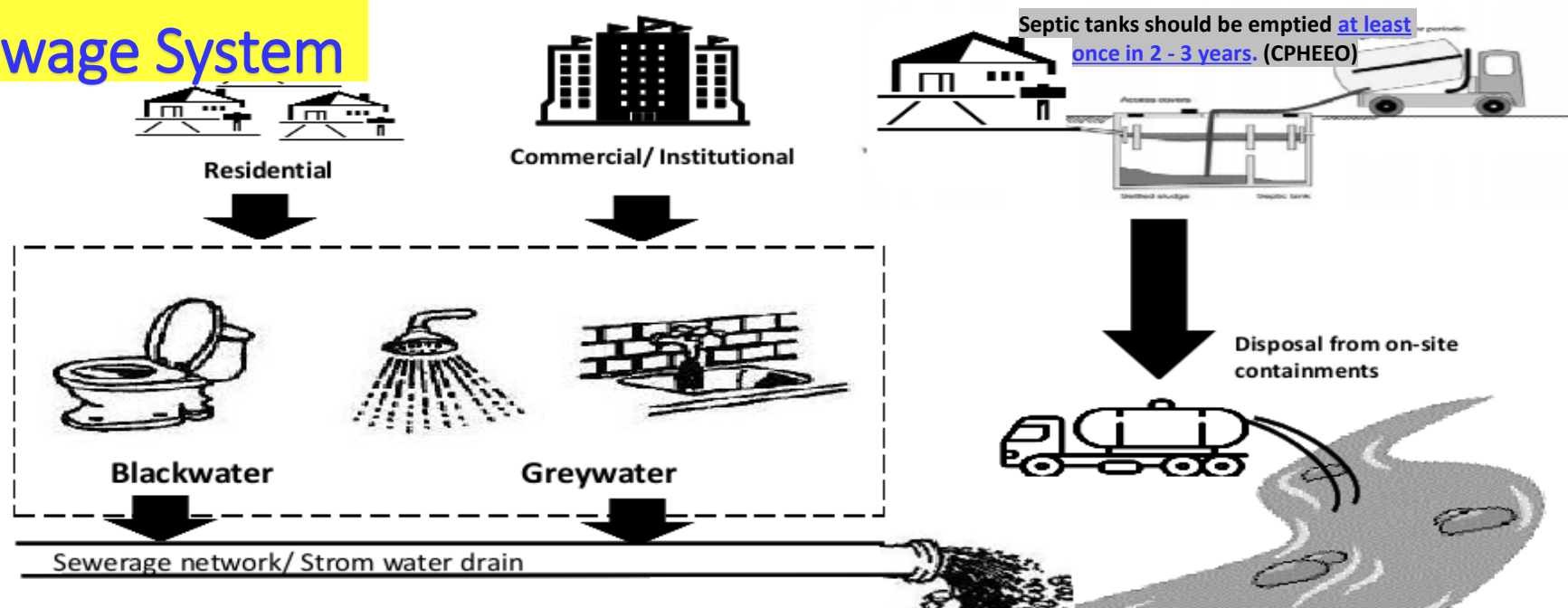
PILOT PROJECT FAECAL SLUDGE TREATMENT PLANT (FSTP) – 75 KLD

NALGONDA MUNICIPALITY

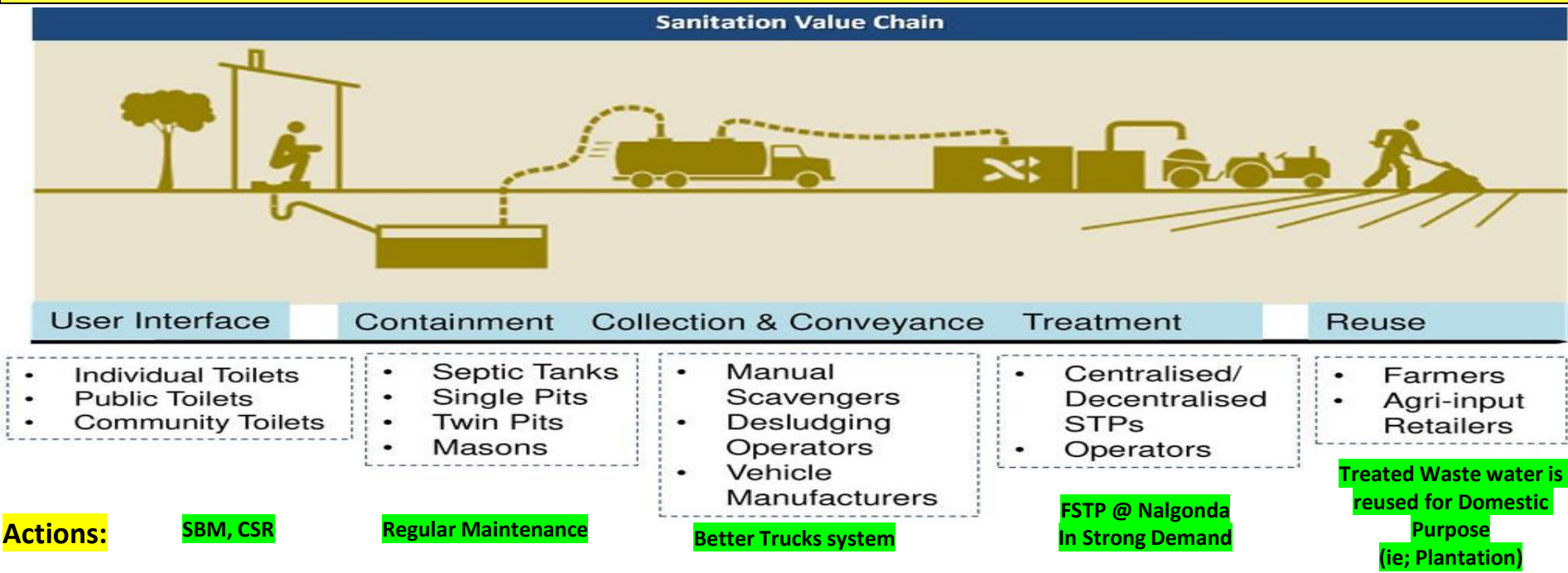
Nalgonda District

**B. Sharath Chandra
Municipal Commissioner**

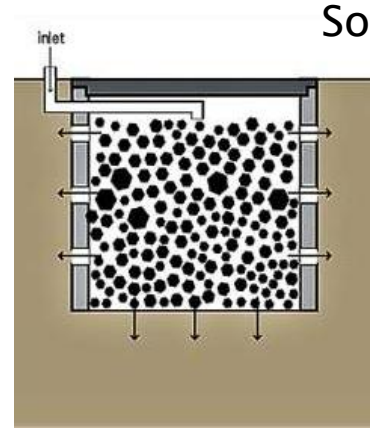
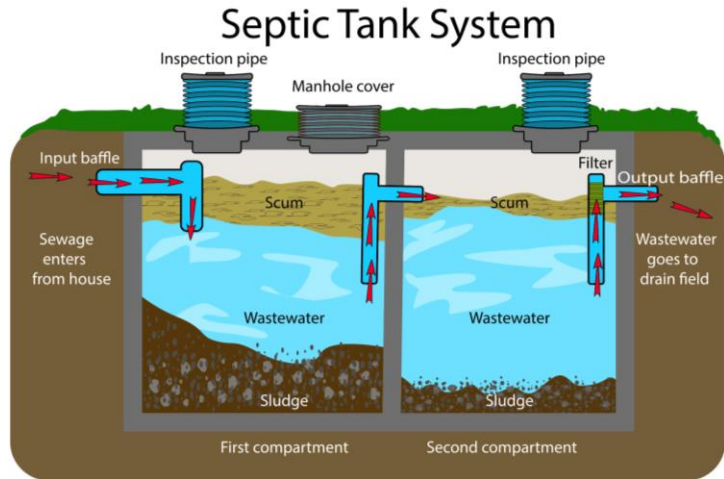
Sewage System



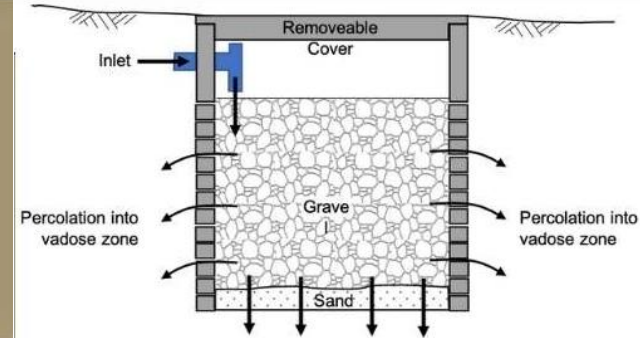
Sanitation is not just about **toilets** but about the **Whole Value chain**.



On-site Sanitation Systems



Soak Pit System



- ✓ Septic tanks should be emptied at least once in 2 - 3 years. (CPHEEO Manual on Sewerage and Sewage Treatment Systems Part A Engineering in Chapter 9)
- ✓ Emptying is best done by using a Motorized Emptying (Septic Tanker), but Manual Emptying is haphazard because sludge from a septic tank includes fresh sludge and presents a risk of transmission of diseases of faecal origin.
- ✓ The faecal sludge needs to be dehydrated and further treated in septic tanks.
- ✓ Regular de-sludging activities require well-organized community or public/private service provider (Desludging Operators).

What is the current practice of Faecal Sludge Disposal?



Farm lands



- ✓ Heavy concentration of nutrients – **Affects plant growth**
- ✓ High risk of Faecal oral contamination – **Households living near farmlands**
- ✓ Transmission through **surface runoff**
- ✓ No single point source for disposal – **Regulatory difficulties**

Water bodies



- ✓ High Risk hazard – **Faecal oral contamination**
- ✓ Out break of **diseases across population**
- ✓ Eutrophication of water bodies – **Impact of flora and fauna and usage of water**
- ✓ Frothing of water bodies – **unpleasant smell and visual**



If Feacal Sludge is treated.....

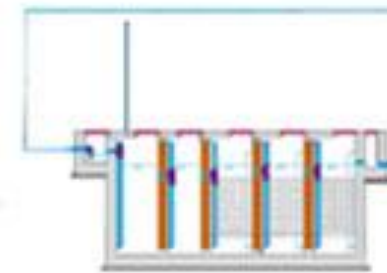
Mechanical Emptying & Transportation

Screening Chamber

Stabilization Reactor

Un-planted Drying-bed

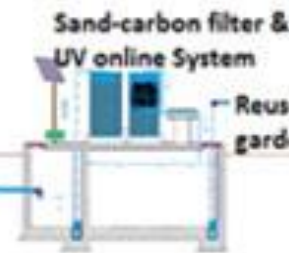
Sludge Pasteurization Unit



Integrated Anaerobic Baffle Reactor with Filter Chambers



Planted Gravel Filter



Collection Tank

Reuse for gardening



Sludge Storage Room

FSTP-75 KLD @ NALGONDA



- ✓ People's needs and preference (socio-cultural),
- ✓ Reduce Smell and Visually displeasing outputs,
- ✓ Zero sludge to reduce health and environmental risks,
- ✓ Dedicated place for disposal – easy to regulate,
- ✓ Economic viability -Revenue generating end products.

PROJECT OBJECTIVES

1

To establish an independent Faecal Sludge Treatment Plant as Pilot project

2

To ensure good O&M of sanitation infrastructure which leads to reduction of risks to public health and environment

3

To treat the septage to prescribed reuse standards

4

To produce a hygienic and safe by-products for reuse

5

To achieve the vision of making urban areas ODF+, ODF++ & GFC 3 Star Rating

6

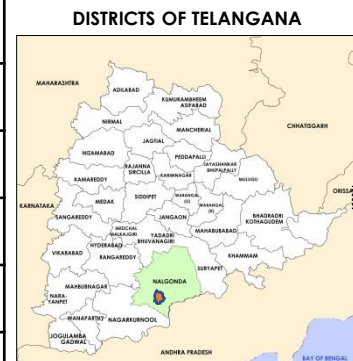
To achieve the strategy of Telangana State G.O. MS. 176: FSSM Policy – CDMA, TS

NALGONDA, TELANGANA

Location	Nalgonda, 90 Km SE to Hyderabad
Civic Status	Special Grade Municipality (2018), AMRUT City
Population	1,65,328 (2011), 198453 (Present)
Area	105 Sq Kms
Wards	48
Toilets	41,482 (100% with Tanks/Pits), ODF free
Water & Sanitation status	Water Supply Coverage = 100% & UGD Scheme under UIDSSMT: 1. STP (WSP) = 17.16 MLD = Core Area Completed 2. STP (MBBR) = 2.55 MLD = Not Grounded
Solid Waste	100% Collection & Transportation, 65% Processing

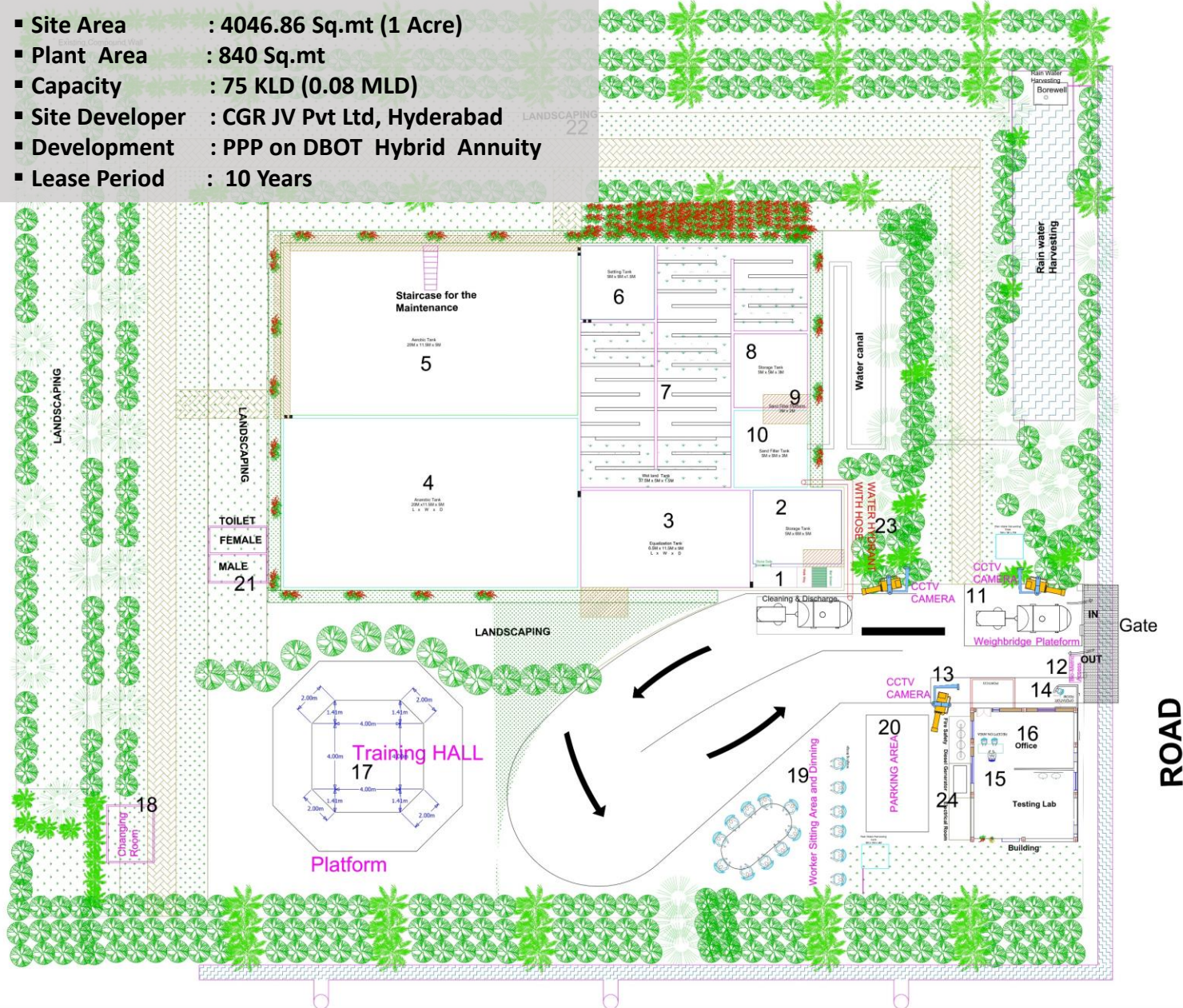
SELECTION CRITERIA

- Quality and Quantity of Faecal Sludge
- Land Availability / Location
- Affordable O&M cost
- Reasonable Capital Cost & Construction Area Requirements
- Reuse Standards of its By-products
- Discharge Standards for safe disposal
- Climatic conditions



FSTP 75 KLD LAYOUT PLAN

- Site Area : 4046.86 Sq.mt (1 Acre)
- Plant Area : 840 Sq.mt
- Capacity : 75 KLD (0.08 MLD)
- Site Developer : CGR JV Pvt Ltd, Hyderabad
- Development : PPP on DBOT Hybrid Annuity
- Lease Period : 10 Years



Name of the Work: FAECAL SLUDGE TREATMENT PLANT (PACKAGE -7) 75 KLD-NALGONDA

1	BAR SCREEN
2	STORAGE TANK
3	EQUALIZATION TANK
4	ANAEROBIC TANK
5	AEROBIC TANK
6	SETTLING TANK
7	WET LAND TANK
8	SAND FILTER STORAGE TANK
9	SAND FILTER PLATFORM
10	DISINFECTION TANK
11	WEIGHBRIDGE PLATFORM
12	BIOMETRIC ACCESS
13	CCTV CAMERAS
14	OPERATOR ROOM
15	ENV. LABORATORY
16	OFFICE
17	TRAINING HALL
18	CHANGING ROOM
19	SITTING AREA AND DINNING
20	PARKING AREA
21	TOILETS (MALE & FEMALE)
22	LANDSCAPING
23	WATER HYDRANT WITH HOSE FOR CLEANING THE TRUCKS
24	FIRE SAFETY / GENERATOR / ELECTRICAL ROOM

Plant	840 Sq. mt
Green Belt	2161.7 Sq. mt
Road	978 Sq. mt
Building	67.16 Sq. mt

Total Area - 55 X 74 = 4046.86 Sq mt

Drawn:	Chand	Kishor
Check by:	Mr Anand Kumar	Kishor
Finalise by:	Mr Anand Kumar	

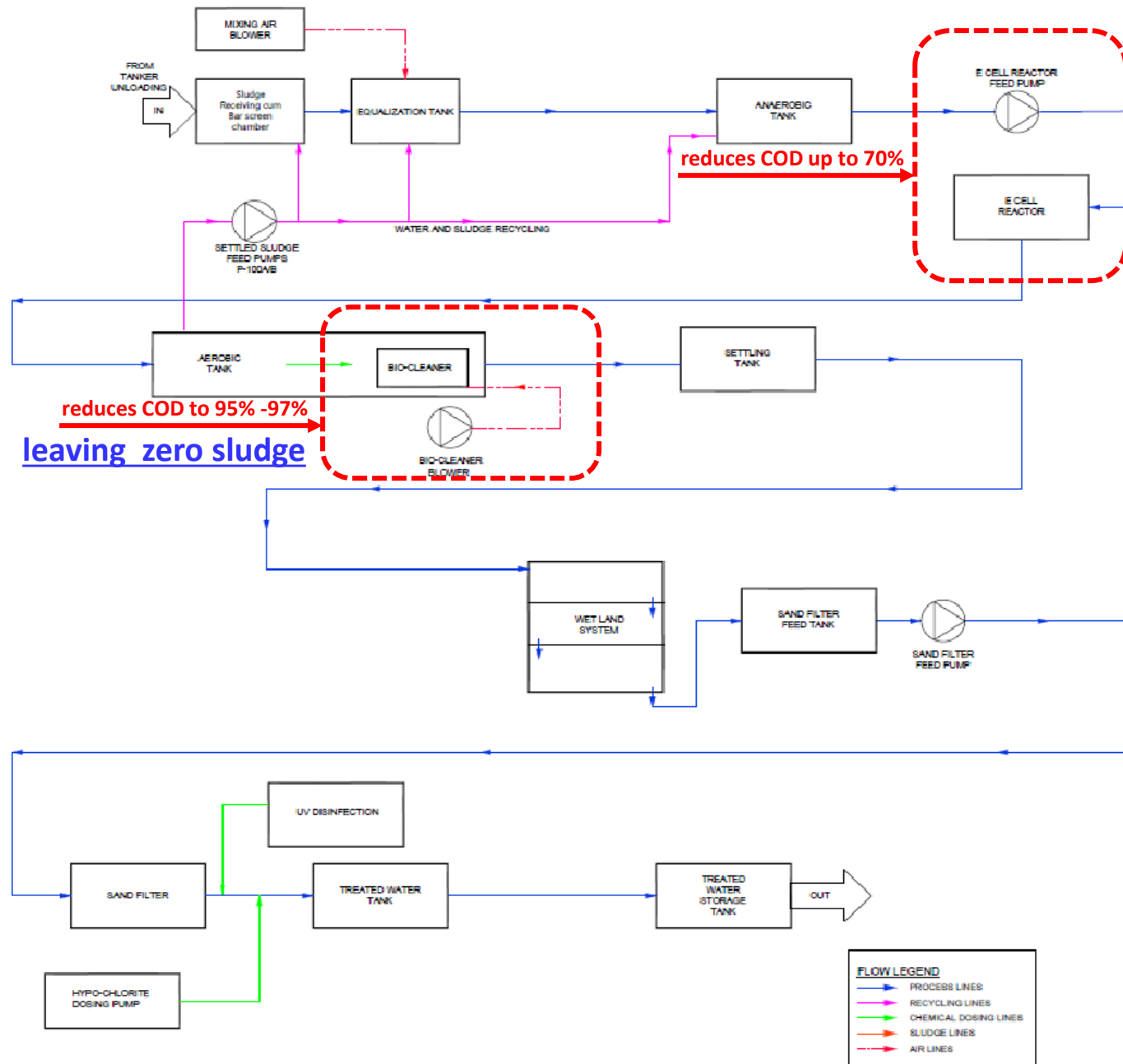
Project - Developers:

CGR JV Pvt Ltd
6-3-855/10/5A, Sampathi Apartments,
Saadat Manzil Colony, Ameerpet,
Hyderabad-500016, Telangana.
Phone: 9701111901

Site Address:
SITE COORDINATES :
Longitude 17°04'52.8"N
Latitude 79°19'28.5"E

MUNICIPAL COUNCIL NALGONDA
VILLAGE:-RESOURCE PARK, CHANDANAPALLI-508205
MANDAL- NALGONDA, DISTRICT- NALGONDA.

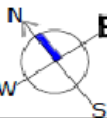
Treatment Technology - PROCESS FLOW CHART



Name of the Work: FAECAL SLUDGE TREATMENT PLANT (PACKAGE -7) 75 KLD-NALGONDA

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Project - Developers:

CGR JV Pvt Ltd
6-3-855/10/5A, Sampathi Apartments,
Saudat Manzil Colony, Ammerpet,
Hyderabad-500016, Telangana.
Phone: 9701111901

Site Address:

SITE COORDINATES :

Longitude 17°04'52.9"N
Latitude 79°19'28.5"E

MUNICIPAL COUNCIL NALGONDA
VILLAGE:- RESURCE PARK, CHANDANAPALLI-508205
MANDAL:- NALGONDA, DISTRICT:- NALGONDA.

TREATMENT – APPROACH

1 Bar screens - Separation of solids

2 Equalization tank - homogenization of contaminated flows

3 Anaerobic digestion - destroys pathogens & reduced COD upto 70%

4 E Cell Reactors - Electrolytic Degradation Process

5 Aerobic system - Bio-Cleaner Machine

6 Tube Settler Systems for Clarification

7 Horizontal Constructed Wet Land System

8 Pressure Sand Filter (FSP)

9 Disinfection & Discharge

Bio Cleaning Machine:
Installation of advanced **BIO**
REMEDIAL SYSTEM employing
IMMOBILIZED MICROBES
MEDIA, 95% -97% of COD is
removed, leaving **Zero Sludge**

TIMING AND OPERATIONAL HOURS OF EACH TREATMENT MODULES

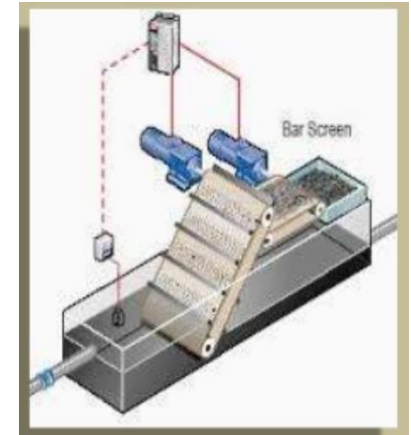
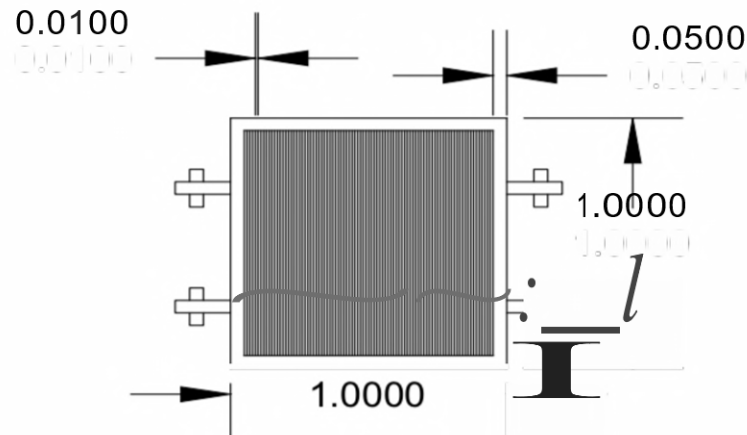
S. No	Treatment Module	Operational Hour	Unit	HRT
1	Screen Chamber	1	hour	1 hours
2	Equalization tank	24	hours	3.5 days
3	Anaerobic tank	24	hours	12 days
4	E Cell Reactor	10	hours	20 min.
5	Aerobic tank	24	hours	12 days
6	Tube settling	24	hours	12 Hrs
7	Horizontal Wet land system	24	hours	2.5 days
8	Sand filter	20	hours	-
9	Disinfection	20	hours	-
10	Discharge	20	hours	-

FSTP 75 KLD – PHOTOGRAPHS



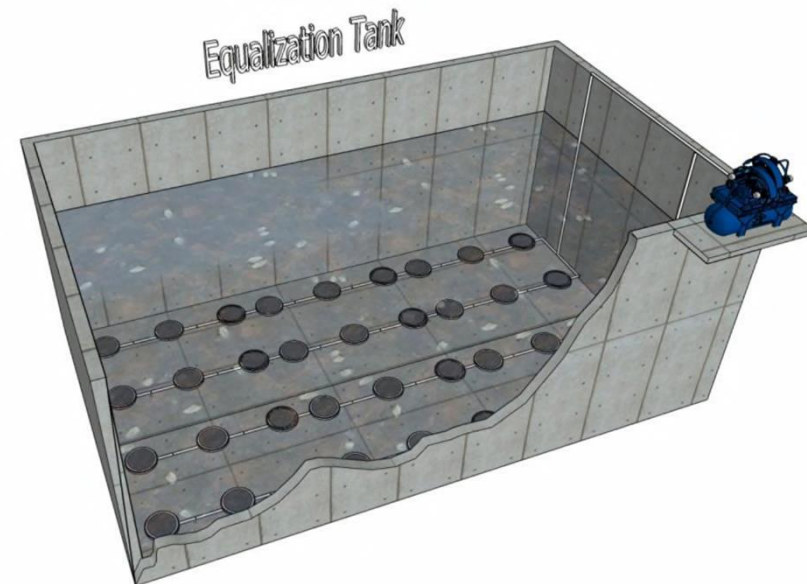
SCREENS

A bar screen is a mechanical filter used to remove large objects, such as rags and plastics, from wastewater. It is part of the primary filtration flow and typically is the first, or preliminary, level of filtration, being installed at the influent to a wastewater treatment plant



EQUALIZATION TANK

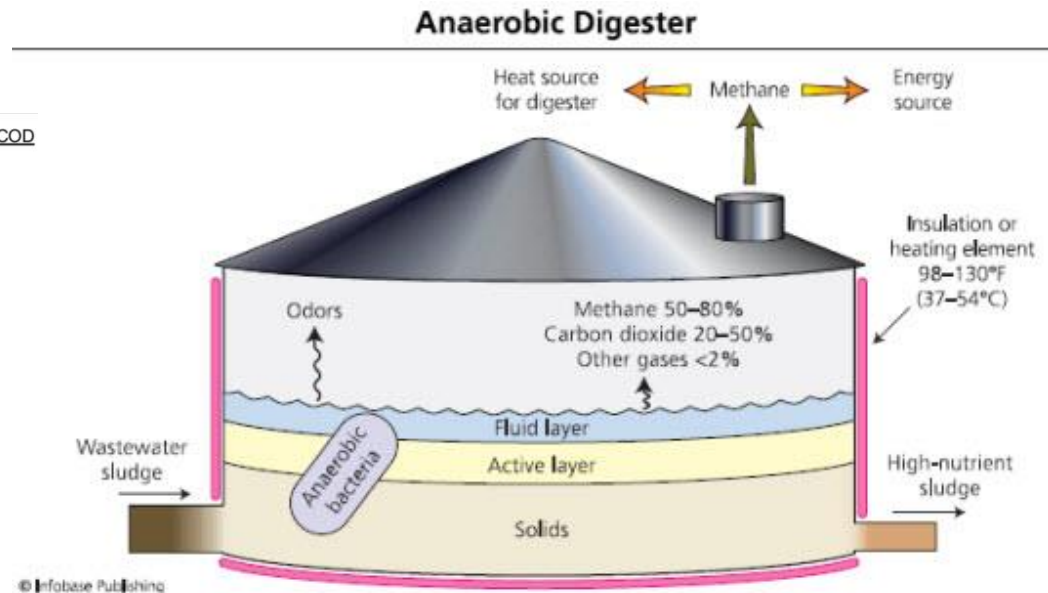
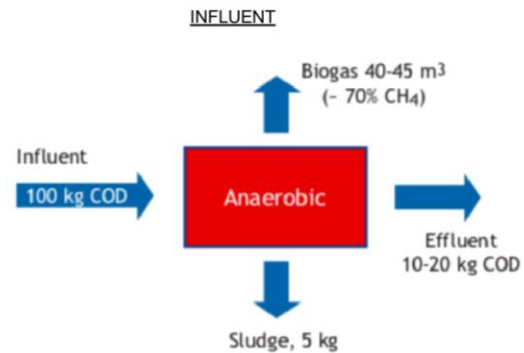
- The equalization tank has two main objectives: flow control (equalization) and/or homogenization of contaminated flows.
- Coarse diffusers will be installed at the bottom of the tank, blower will be installed on the surface to provide air at the bottom of the tank, this agitation homogenizes the contaminants
- During the peak hours, Septage comes at a high rate. The equalization tank stores this Septage, and lets it out during the non-peak time when there is no/little incoming sewage



ANAEROBIC CHAMBER

Anaerobic digestion is a collection of processes by which microorganisms break down biodegradable material in the absence of oxygen. process in which organic solids are decomposed into stable substances. Digestion reduces the total mass of solids, destroys pathogens, reduced COD up to 70%

ILLUSTRATION OF THE PROCESS AND THE RESULTANT OUTCOME WITH AN EXAMPLE OF 100KG COD



E CELL REACTOR

Electrolytic degradation process for destruction of organics in the waste water and removal of the same as suspended impurity through the combined process of electrolysis and electro coagulation



AEROBIC TANK

The Aeration tank is at the [heart of the treatment system](#) the bulk of the treatment is provided here, employing microbes/bacteria for the process.

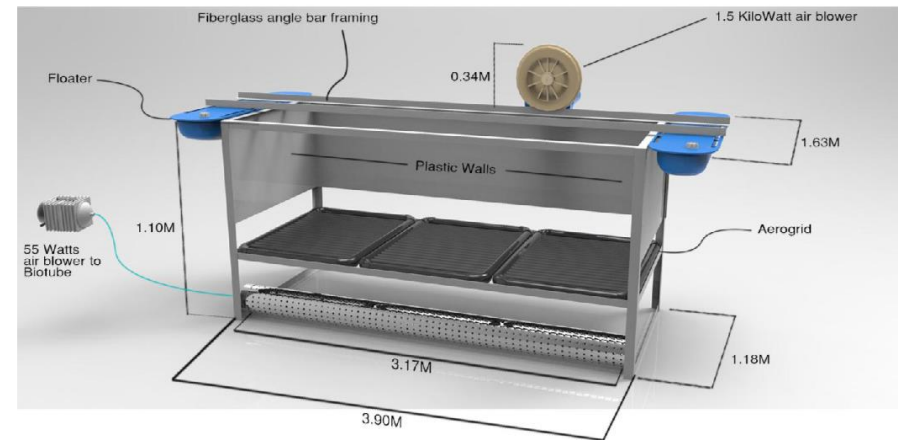
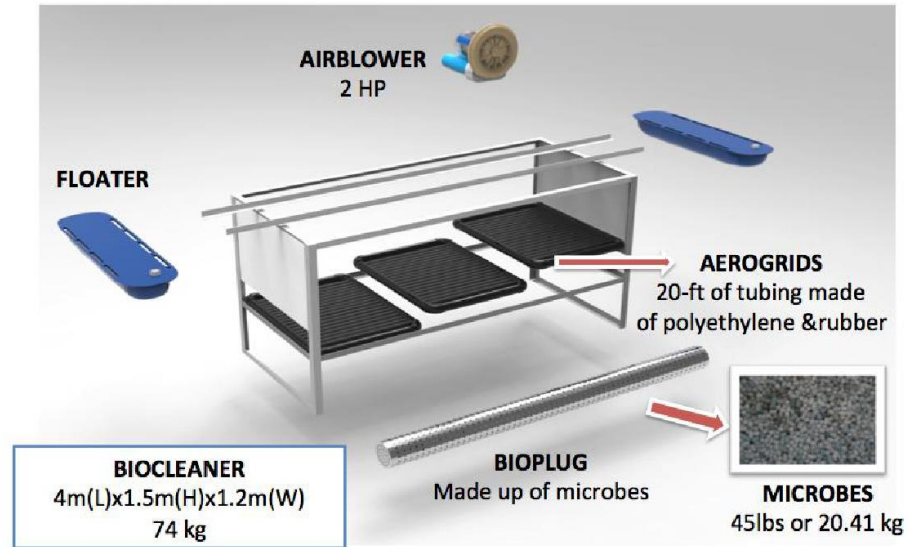
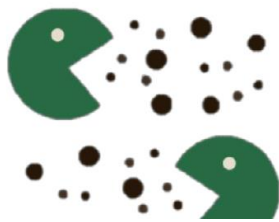
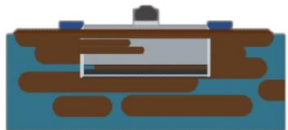
This process is advanced [Bioremediation/Biological system, with immobilized microbes media](#). Media gets activated in the presence of oxygen and wastewater. 95% -97% of COD is removed during this process, [leaving zero sludge](#).

Effluent of aerobic tank channelized to tube settling tank. Returns are provided to Equalization Tank and Anaerobic Tank to provide partial treatment during the process. These microorganisms are [facultative](#) and they can survive in both presence and absence of oxygen

Facultative – can be anaerobic or aerobic. The microbes will remain dormant until they are activated with the presence of oxygen and nutrients – in the form of the waste

Saprobic – they acquire nourishment from non-living or decaying organic matters such as the shells of bacteria that becomes sludge as it accumulates through time

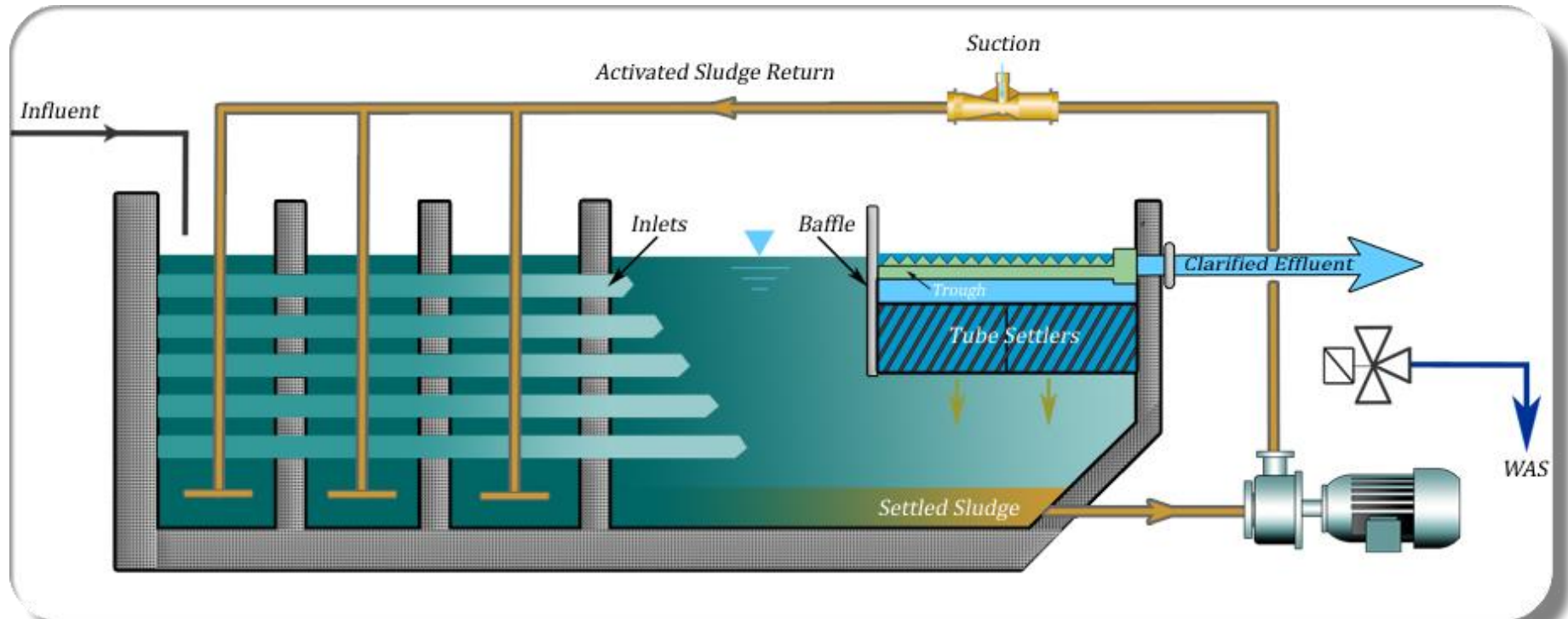
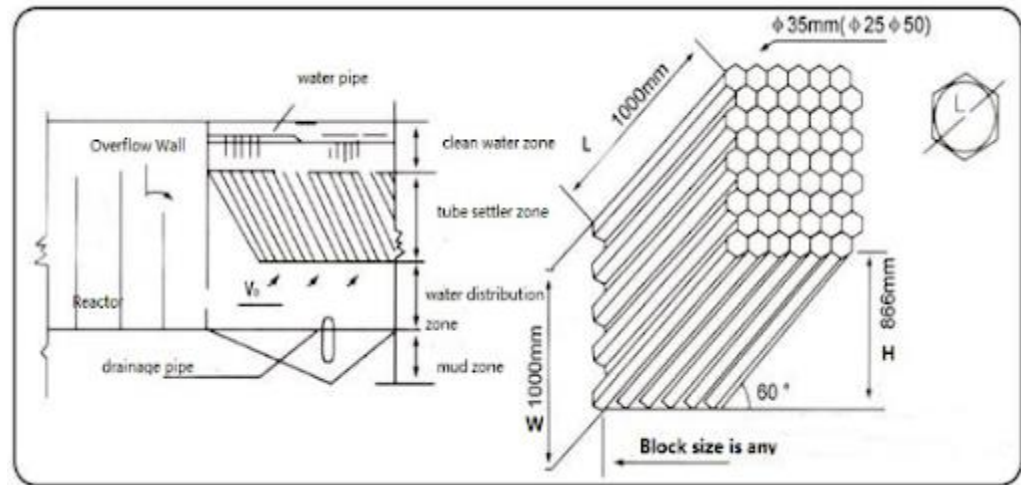
Rock microbes – Biosafety level 1 meaning if a healthy human ingests it will not do any harm. The microbes are all - natural and are not genetically modified.



SETTLING TANK

- The settling tank has a tube settler, which helps in reducing the suspended solids available in the treated water. Separates automatically solid from liquids,
- There is one-inlet channel to the unit, Lamella packs are installed at the both sides of the inlet channel.
- Automatic air pipes are provided at the bottom of the tube settler tank.
- At the bottom, there will be a sludge/grit sedimentation chamber is provided.
- Outlet is provided on the other side of the inlet

TUBE SETTLER DIAGRAM



HORIZONTAL CONSTRUCTED WET LAND SYSTEM

Horizontal subsurface flow (HSSF) constructed wetland (below fig) is a large gravel and sand-filled basin that is planted with wetland vegetation; fishes and snails are also introduced into the wetland system for final polishing by filter feeding action.

Specifications:

1. 5-10 days HRT is provided in order to do the further treatment, fishes and snails are introduced into the wetland for final polishing by filter feeding mechanism and to remove pathogens from the waste water.
2. Various sizes of rubbles, pebbles and mud is used for the filtration and also acts as a bio-bed
3. Under the HSSB, sub systems are constructed with stone pitching.
4. Each sub system is of 1m(L) x 3m(W) x 2m(Depth)
5. Multiple sub system are constructed
6. Wetland systems are Autotrophic System.
7. Low maintenance.
8. No chemicals are require.
9. Eco friendly system
10. All plants and fish, which will be used for the treatment, are from local to the site.

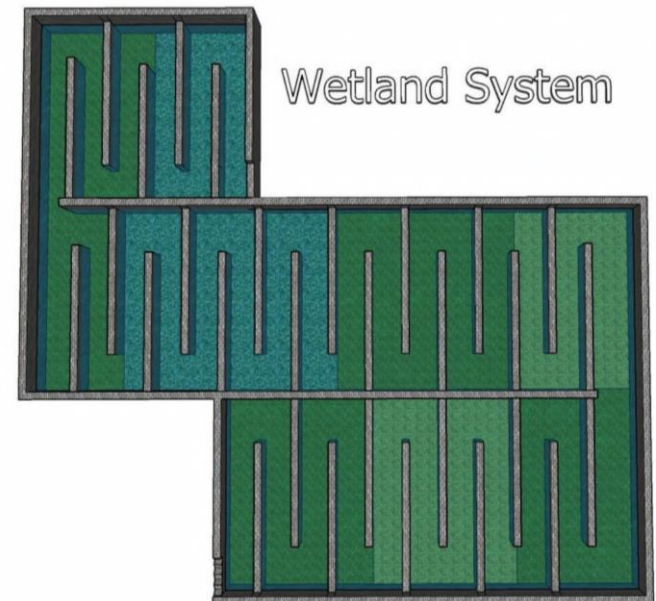
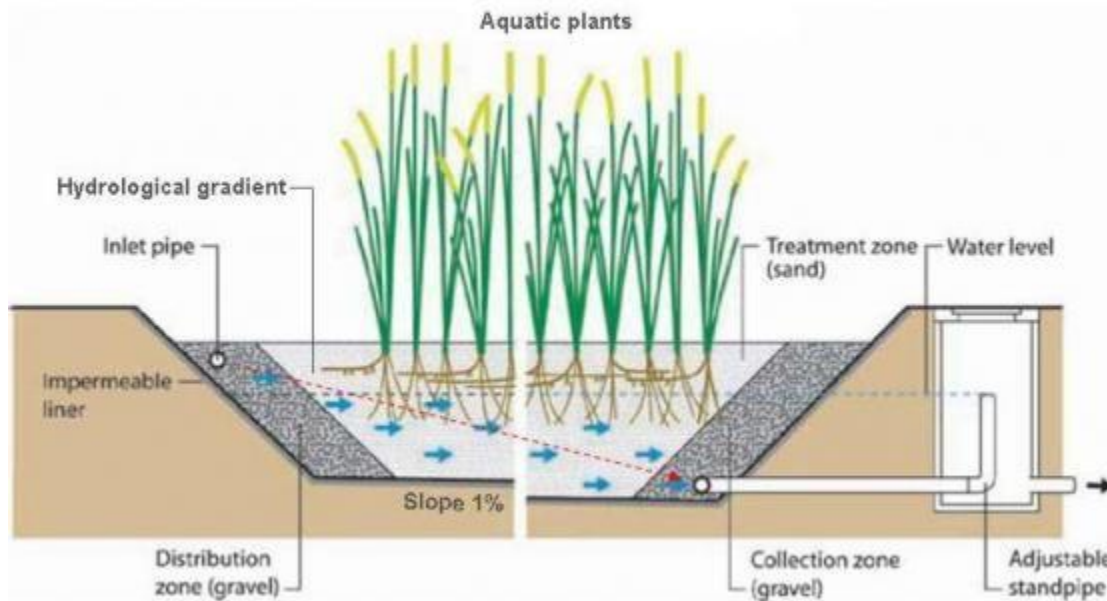


Figure: Schematic diagram of Horizontal Flow Subsurface constructed wetland

PRESSURE SAND FILTER (FSP)

- ✓ The Pressure Sand Filter consists of a multiple layer of sand with a variety in size and specific gravity. These Filters are designed to remove turbidity and suspended particles present in the feed water with minimum pressure drop

Vertical Pressure Sand Filter

- ▶ FRP Vessel Size: 24 x 72
- ▶ Make: Aventura/Pentariilter
- ▶ Feed Pump Make: Kirloskar
- ▶ Model: KOS 335
- ▶ Flow: 12000 LPH
- ▶ Head: 30 Meters
- ▶ Sand Media
- ▶ Multipart Valve
- ▶ Air Breaker
- ▶ Pressure Gauges
- ▶ Pipes & Fittings



1. Sand
2. Gravels & Pebbles
3. Strainer Plate
4. Strainers
5. Hand hole
6. Service Inlet
7. Service Outlet
8. Air vent
9. Davit Arm
10. Backwash Inlet
11. Air Scoring

DISINFECTION & DISCHARGE

- ✓ Disinfection is the process designed to kill or inactivate most microorganisms in water, including essentially all pathogenic organisms
- ✓ Mild dosing of chlorination is used in order to kill all the bacteria.
- ✓ After the disinfection, discharge treated water, which can be reused for the irrigation and plantation purpose.



OPERATIONS AND MAINTANACE

Consumables:

1. Energy
2. Chlorine

Manpower:

- 1 Supervisor.
- 3 Security guards for three shifts
- 2 Electrician
- 2 housekeeping for the maintenance of green belt and cleaning the site

Power consumption:

- Installed 15KW solar power plant under net metering scheme, which will be generating 67.5KWh per day.
- Solar street lights yet be installed in order to save in power consumption

S. NO	Power Load	HP	Watts	Operational Hours	WH/Day
1	Bio-cleaner	2	1488	24	35712
2	Returns pumps	0.1	74.4	24	1785.6
3	Sand Filter	1	744	20	14880
4	Disinfection dosing pump	0.1	74.4	20	1488
5	Sludge pump	0.1	74.4	0.5	37.2
6	Equalization Pump	0.1	74.4	20	1488
7	LED Lighting and phone charger loads		200	8	1600
8	Fans in the control room		180	16	2880
9	Diffusers load in Equalization tank	0.5	372	20	7440
			3281.6		67310.8

List of Maintenance works @ FSTP

1. Periodically cleaning the diffusers of bio-cleaner unit (Once in a month)
2. Periodically cleaning the diffusers installed in equalization tank (Once in a month)
3. Filling chlorine power in the dosing drum periodically (Once in 15 days)
4. Regular maintenance of motors, screens, lamella etc. (Once in 15 days)
5. Taking care of fish and plantation in the horizontal wetland system (Every day)
6. Monitoring the parameters of both input sludge / waste water and treated water.
7. Maintaining record of the received load on a daily and vehicle basis
8. Sampling collection and sending it to the centrally located lab.
9. Circulation of the test reports and load details on the daily basis.
10. Maintaining green belt within the premises.

PARAMETERS OF SEPTAGE TO BE TREATED

THE PHYSICAL AND CHEMICAL CHARACTERITICS OF SEPTAGE TO BE TREATED				
S.No	CONSTITUENTS (all units but for pH are in mg/ ltr)	UOM	AVERAGE	RANGE
1	BOD	mg/ ltr	6480	440-25000
2	COD	mg/ ltr	31900	1500-40000
3	Total Solid	mg/ ltr	34106	1132-85000
4	Total Volatile		23100	353-68000
5	Total Suspended Solids	mg/ ltr	12862	310-80000
6	Total Nitrogen	mg/ ltr	588	66-800
7	Ammonia	mg/ ltr	97	3-116
8	Total Phosphorus	mg/ ltr	210	20-710
9	FOG	mg/ ltr	5600	208-15000
10	pH		1.5-12.6	1.5-12.6

TESTING SAMPLES OF TREATED WATER



Regn. No.20DQGN85



Vista Labs

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An ISO/IEC 17025:2005 NABL Accredited
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TEST REPORT

Page 1 of 1

Name & Address Of Customer:

M/s. CGR JV Pvt.Ltd.

H.No.42-293/A, Maruthi Nagar Extn,
Dr.A.S.Rao Nagar, Hyderabad, Telangana.

Sample Description: STP Outlet water

Quantity Received : 1Ltr X 2 No's

Lab Ref No: VIS/3825/1/2021

Reporting Date: 02/04/2021

Sample Received On: 30/03/2021

Your Ref No: Verbal

Sample Condition: Found OK

Analysis Started On: 30/03/2021

Analysis Completed On: 02/04/2021

Sample Drawn By: Customer

TEST RESULTS

Sl.No.	Characteristic	Test method	Results	Limits As per CPCB
1.	P ^H Value at 25°C	IS:3025(Part -11)-1983,RA 2017	7.53	6.50 - 9.00
2.	Total solids, mg/l	IS:3025(Part -15)-1984,RA 2017	992	N.A
3.	Total Dissolved solids, mg/l	IS:3025(Part -16)-1984,RA 2017	968	< 2100
4.	Total suspended Solids, mg/l	IS:3025(Part -17)-1984,RA 2017	24	< 100
5.	Sulphate as SO ₄ mg/l	IS:3025(Part -24)-1986,RA 2014	110.6	<1000
6.	Chloride as Cl mg/l	IS:3025(Part -32)-1988,RA 2014	90.0	<1000
7.	Chemical Oxygen Demand (COD), mg/l	IS:3025 (Part 58) 2006, RA 2017	26.9	< 250
8.	Bio chemical Oxygen demand(BOD), 3days@27°C mg/l	IS:3025(Part -44)1993,RA 2014	9.5	< 30
9.	Oil & Grease mg/l	IS:3025(Part -39)1991,RA 2014	2.40	< 10

Note:

1. This report is valid for the tested sample(s) only.
2. Test report shall not be reproduced except in full & with written approval of VISTALABS.
3. This report should not be used for advertisement / judicial purpose.
4. Total Number Of Test(s) NOTED Only
5. Lab will maintain unused portion of samples for 15 days after the report has been issued.

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



Checked By



Authorized Signatory

VIS/LAB/F/047

4-9-6, Flat No. 103 & 104, Surya Towers, Adj. ANR Gardens, HMT Nagar, Nacharam, Hyderabad-500 076.
Ph : 040-27173815, 42210081, E-mail : vistalabs@yahoo.co.in, vistalabs2004@gmail.com



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H.No.13-261, Bhanathpuri Colony, Medipally, Peerzediguda Municipality,
Medchal - Malkajgiri Dist, Hyderabad - 500088, Telangana

7207041212, 9963991212, 99634141212, 9959823529

Email : info@vijayeenvironmentlabs.com, service@vijayeenvironmentlabs.com

www.vijayeenvironmentlabs.com



Test Certificate

Issued to	In House Batch No	VEL/CNRL/W/996/SEP/2020
M/S.CGR JV PRIVATE LIMITED,	Sample Details	Septic tank water
H.No.42-293/A, Maruthi Nagar Ext.	Sample Received Date	19/09/2020
Dr.A.S.Rao Nagar,ECIL Post,	Analysis Starting Date	19/09/2020
Medchal-Malkajgiri Dist	Analysis Completion Date	22/09/2020
(HYDERABAD),	Date of Report issued	23/09/2020
ELANGANA-500062.		

TEST RESULTS

S.No	Parameters	Test Method	Units	Result
Physical Parameters				
01	pH	APHA-4500-B	-	6.97
Chemical Parameters				
02	Total Solids	APHA-2540-C	mg/l	1675
03	Total Volatile Solids	APHA-2540-C	mg/l	569
04	Total Suspended Solids	APHA-2540-C	mg/l	412
05	Volatile Suspended Solids	APHA-2540-C	mg/l	165
06	Total Kjeldahl Nitrogen	APHA 4500-NH ₃ -B	mg/l	87
07	Ammonical Nitrogen	APHA 4500-NH ₃ -C	mg/l	05
08	Total Phosphorus	APHA 4500-P-D	mg/l	27
09	Alkalinity	APHA 2320-B	mg/l	800
10	Oil & Grease	APHA-5520-B	mg/l	210
11	Chemical Oxygen Demand	APHA 5220-B	mg/l	1630
12	Biochemical Oxygen Demand (3days@27°C)	APHA 5210-B	mg/l	540

*APHA: American Public Health Association

* IS Indian Standard



Authorized Signatory

Compressed air validation, Breathing air validation, Instrument air validation, Nitrogen gas validation,
Pure Steam, Clean Room Validation, Indoor air quality monitoring, Environmental & Analytical services

75KLD FSTP AT NALGONDA - LOG OF SEPTAGE RECEIVED AT THE SITE

S. No.	Date	Vehicle Number	Driver Name	Contact Number	TIME		WEIGHT/Ltrs			in KLD
					IN	OUT	Gross	Tare	Net	
118	01.03.2021	AP27T6588	Nagaiah	9849867154	12:40PM	12:55PM	9812	8711	1101	1.10
119	02.03.2021	AP27T6588	Nagaiah	9849867154	03:10PM	03:25PM	6541	5121	1420	1.42
120	03.03.2021	AP27V5482	Subash	9346339450	11:10AM	11:20AM	10187	8874	1313	1.31
121	04.03.2021	AP25V2004	Vinod	9618310064	09:30AM	09:50AM	9751	7841	1910	1.91
122	05.03.2021	AP25V2004	Vinod	9618310064	11:06AM	11:28AM	8892	7811	1081	1.08
123	06.03.2021	AP27V5482	Subash	9346339450	09:20AM	09:37AM	7861	5172	2689	2.69
124	07.03.2021	AP25V2004	Vinod	9618310064	12:20PM	12:47PM	9870	8712	1158	1.16
125	08.03.2021	AP05V0946	Mugaiah	7730019438	09:10AM	9.30AM	7262	4689	2573	2.57
126	08.03.2021	AP05V0946	Mugaiah	7730019438	11.05AM	11.22AM	7761	4872	2889	2.89
127	09.03.2021	AP27V5482	Subash	9346339450	10.10AM	10.23AM	7042	4891	2151	2.15
128	10.03.2021	AP05V0946	Mugaiah	7730019438	3.40AM	3.55PM	7184	4989	2195	2.20
129	11.03.2021	AP25V2004	Vinod	9618310064	11.20AM	11.33AM	6841	4726	2115	2.12
130	11.03.2021	AP25V2004	Vinod	9618310064	2.20PM	2.35PM	7101	4012	3089	3.09
131	12.03.2021	AP27V5482	Subash	9346339450	8.00AM	8.17AM	6294	4189	2105	2.11
132	13.03.2021	AP05V0946	Mugaiah	7730019438	10.07AM	10.20AM	7308	4610	2698	2.70
133	14.03.2021	AP25V2004	Vinod	9618310064	10.50AM	11.12AM	7121	5012	2109	2.11
134	15.03.2021	AP27V5482	Subash	9346339450	9.40AM	9.58AM	6212	5168	1044	1.04
135	15.03.2021	AP27V5482	Subash	9346339450	10.50AM	11.12AM	7121	5012	2109	2.11
136	16.03.2021	AP05V0946	Mugaiah	7730019438	2.40PM	2.58	6425	4111	2314	2.31
137	17.03.2021	AP27V5482	Subash	9346339450	2.15PM	2.35PM	7688	5396	2292	2.29
138	17.03.2021	AP27V5482	Subash	9346339450	3.14 PM	3.30PM	7552	5566	1986	1.99
139	18.03.2021	AP25V2004	Vinod	9618310064	11.03AM	11.21AM	8248	4036	4212	4.21
140	18.03.2021	AP27V5482	Subash	9346339450	12.40Pm	12.59PM	7090	4056	3034	3.03
141	19.03.2021	AP05V0946	Mugaiah	7730019438	9.20 AM	9.36AM	7262	4689	2573	2.57
142	19.03.2021	AP05V0946	Mugaiah	7730019438	10.50AM	11.08AM	7512	4458	3054	3.05
143	20.03.2021	AP05V0946	Mugaiah	7730019438	2.50PM	3.05PM	6376	4788	1588	1.59
144	21.03.2021	AP27v5482	Subash	9346339450	11.17AM	11.35AM	8002	5022	2980	2.98
145	22.03.2021	AP25V2004	Vinod	9618310064	8.50Am	9.05 AM	7884	6785	1099	1.10
146	23.03.2021	Ap27v5482	Subash	9346339450	2.10PM	2.28 PM	7688	5396	2292	2.29
147	23.03.2021	Ap27v5482	Subash	9346339450	4.05PM	4.20 PM	7703	5393	2310	2.31
148	24-03.2021	AP29T6588	Nagaiah	9849867154	11.20AM	11.35AM	6256	5318	938	0.94
149	25.03.2021	AP25V2004	Vinod	9618310064	9.20AM	9.35AM	7903	5400	2503	2.50
150	25.03.2021	AP25V2004	Vinod	9618310064	10.40AM	10.53AM	7788	5080	2708	2.71
151	26.03.2021	Ap27v5482	Subash	9346339450	8.00AM	8.17AM	8021	5120	2901	2.90
152	26.03.2021	AP29T6588	Nagaiah	9849867154	11.40AM	11.58AM	7301	4993	2308	2.31
153	26.03.2021	AP25V2004	Vinod	9618310064	4.20PM	4.38PM	7888	5022	2866	2.87
154	27.03.2021	AP29T6588	Nagaiah	9849867154	10.30AM	1049AM	7689	5345	2344	2.34
155	27.03.2021	Ap27v5482	Subash	9346339450	3.10PM	3.28PM	8004	5138	2866	2.87
156	28.03.2021	AP25V2004	Vinod	9618310064	9.50AM	10.06AM	7856	5506	2350	2.35
157	29.03.2021	AP29T6588	Nagaiah	9849867154	10.50AM	11.20AM	7628	5378	2250	2.25
158	30-03-2021	AP9V7443	Srinu	7330773816	8.10AM	8.22AM	7986	5336	2650	2.65
159	30-03-2021	AP9V7443	Srinu	7330773816	9.40AM	9.58AM	7885	5390	2495	2.50
160	31-03-2021	AP29T6588	Nagaiah	9849867154	8.50AM	9.05AM	7666	5054	2612	2.61

- Treatment Capacity = 75 KLD
- As Pilot Project, Volume of Feacal Sludge Received per day (Avg) = 4.2 KLD
- Volume of water Treated per day (Avg) = 3.8 KLD
- No Sludge Produced
- Treated water is reused for Domestic Purpose (ie; Plantation)

Step by Step Implementation

Nalgonda Town Road Map to Holistic Faecal Sludge Management

Have set-up toll-free number where Citizens can call directly and request for a desludging service.

Licensed Private Desludging Operators started dumping faecal sludge at the new FSTP facility

Implementing O & M at FS Treatment plant

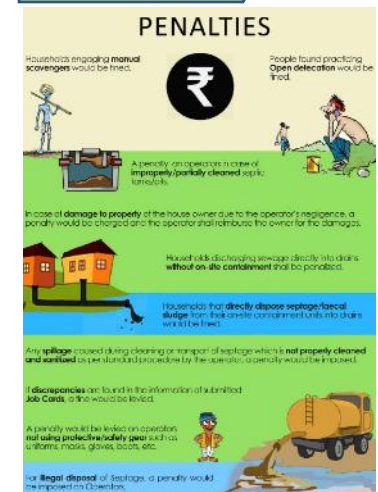
Implementing FSM Policy

- Penalties
- Monitoring

*activation and overanalyzing helpline no. 14420 and establishing Sanitation Responsible Authority (SRA)

*Both FSTP operator and truck operator are wearing the correct PPE such as gloves, mask, gumboot, apron and uniform etc

- Installed 15KW solar power plant under net metering scheme, which will be generating 67.5KWh per day.
- Solar street lights yet be installed in order to save in power consumption



Formalization Of The Private Desludging Service Providers

1. Disposal of faecal sludge in any undesignated location will be considered illegal and calls for legal action and penalty or cancellation of operations license.
2. Prior notification to the municipality has to be done in case of disposal on farm land.
3. All sludge collected is to be dumped at the new FSTP facility.
4. Private desludging service providers to be identified and summoned to register/license with Municipality, by filling in a registration form and paying licensing fee.
5. Private desludging service providers to be provided with license, which would need renewal once in 3 years.
6. Private desludging service providers to be sensitized about the disposal of FS at the FSTP.
7. Any private player not registered with Municipality, or not holding the license to desludge will not be allowed to do any desludging at household/ property level within the premises of the town council wards.
8. Any private player having not registered with Municipality will attract penalty of Amount Rs 5000 which is again subject to discretion of Municipality.
9. Upon signing the registration the private operator will be given a manifesto from which will contain details of pits/ septic tanks and owner details, which they will submit at the Municipal office at a periodic time interval and any noncompliance to this will lead to cancellation of license.

పురపాలక సంఘ కార్యాలయము : నల్లగొండ

వత్తికా ప్రకటన

తేది: 07.07.2020

జి.డి.యం.యన్ 176, తేది: 29.09.2018, మం వ్యర్థాల మరియు మరలం నిర్వహణ పాలన (తెలంగాణ ప్రభుత్వము) ని అనుసరించి, నల్లగొండ పట్టణంలో పెన్సిల్ ట్యాంక్ యొక్క వ్యర్థాల సేకరణ, దానిని సక్రమ రవాణా పద్ధతుల ద్వారా డ్రీమ్మింగ్ ఫ్లోయింగ్ చేర్చుటలో నల్లగొండ దిశగా పనిచేసే పెన్సిల్ ట్యాంక్ అవరేజీలకు సమాధి చేసుకొనుటకు వారి సుండి దరఖాస్తులను పూర్తి వివరాలతో 14.07.2020, సాయంత్రం 5.00 గ వరకు నల్లగొండ మున్సిపాలిటీ నందు సమాధి చేసుకొనగలరు. కావున ఈ దరఖాస్తును నల్లగొండ పురపాలక కార్యాలయము పారిశుధ్య విభాగము నందు కార్యాలయ పని పేర్లో పొందగలరు.

పురపాలక సంఘం, నల్లగొండ.

టూ:
 టి.ఎం.ఎం.ఎస్. 176, తేది: 29.09.2018, మం వ్యర్థాల మరియు మరలం నిర్వహణ పాలన (తెలంగాణ ప్రభుత్వము) ని అనుసరించి, నల్లగొండ పట్టణంలో పెన్సిల్ ట్యాంక్ యొక్క వ్యర్థాల సేకరణ, దానిని సక్రమ రవాణా పద్ధతుల ద్వారా డ్రీమ్మింగ్ ఫ్లోయింగ్ చేర్చుటలో నల్లగొండ దిశగా పనిచేసే పెన్సిల్ ట్యాంక్ అవరేజీలకు సమాధి చేసుకొనుటకు వారి సుండి దరఖాస్తులను పూర్తి వివరాలతో 14.07.2020, సాయంత్రం 5.00 గ వరకు నల్లగొండ మున్సిపాలిటీ నందు సమాధి చేసుకొనగలరు. కావున ఈ దరఖాస్తును నల్లగొండ పురపాలక కార్యాలయము పారిశుధ్య విభాగము నందు కార్యాలయ పని పేర్లో పొందగలరు.

దీనివ్రతి:
 శ్రీయత్ గౌరవ నైకవర్మన్, పురపాలక సంఘం, నల్లగొండ గారికి తగు సమాచార నిమిత్తము సమర్పించునైతి.

పురపాలక సంఘ కార్యాలయము: నల్లగొండ

పత్రికా ప్రకటన

తేది: 07.07.2020

జి.డి.యం.యన్.176, తేది: 29.09.2018, మం వ్యర్థాల మరియు మరలం నిర్వహణ పాలన (తెలంగాణ ప్రభుత్వము) ని అనుసరించి, నల్లగొండ పట్టణంలో పెన్సిల్ ట్యాంక్ యొక్క వ్యర్థాల సేకరణ, దానిని సక్రమ రవాణా పద్ధతుల ద్వారా డ్రీమ్మింగ్ ఫ్లోయింగ్ చేర్చుటలో నల్లగొండ దిశగా పనిచేసే పెన్సిల్ ట్యాంక్ అవరేజీలకు సమాధి చేసుకొనుటకు వారి సుండి దరఖాస్తులను పూర్తి వివరాలతో 14.07.2020, సాయంత్రం 5.00 గ వరకు నల్లగొండ మున్సిపాలిటీ నందు సమాధి చేసుకొనగలరు. కావున ఈ దరఖాస్తును నల్లగొండ పురపాలక కార్యాలయము పారిశుధ్య విభాగము నందు కార్యాలయ పని పేర్లో పొందగలరు.

సం/- కమిషనరీ, పురపాలక సంఘం, నల్లగొండ.

వార్త

Thu, 09 July 2020

<https://epaper.vaartha.com/c/53331>

LICENSED DESLUDGING OPERATOR




License No. NLC DEPT 005
 Valid Up to 12/08/2021
 Operator Name CH. SHOBHASH
 Vehicle No. AP27V5432

Commissioner
Nalgonda Municipality

TOWARDS ODF+

POSTERS OF IEC ACTIVITIES ON IMPLEMENTATION OF FSSM POLICY – BY ASCI



మామి లోపల దాగుండి.
బయటికి వచ్చి రోగాలను వ్యాపింపజేసింది ఎవరు

పేరు: మలాసురుడు

దీనివల్లగా : మలముంటున్న పీచు
పత్తి : మామి లోపల దాగి ఉంటూ పండ్లకు, పండ్లకు బయటికి వచ్చి
గాలి, నీరు, తరలించి కలుషితం చేస్తుంది మరియు రోగాలను వ్యాపింపజేస్తుంది
మీ బాధ్యత : శుభ్రమైన మలము సంహరించుటకు ఒక్కసారి సెప్టిక్ ట్యాంక్ ను పూరి చేయండి.

భూమి తయారీ, మలాసురుడు, మలాసురుడు

మలాసురుడు దీనిని
బిగ్డ్ (S-Line)

+91 XXXXXXXXXX



Faecal Sludge and Septage



SWACHH SURVEKSHAN 2019

మీకు తెలుసా
మలాసురుడు
మీ నీటిని
కలుషితం చేయగలడని ?

**ఆలస్యం కాక
ముందే వాడిని ఎలా
ఎదుర్కోవాలో తెలుసుకోండి**




పారిశుధ్య కార్మికులను గౌరవించండి.
వారి భద్రతకై శుద్ధి వహించండి.



వివరాలకు, సలహాలకు మరియు ఫిర్యాదులకు
14420 కు ఫోన్ చేయండి




సెప్టిక్ ట్యాంక్ మరియు
సీవర్జీ శుభ్రం చేసేటప్పుడు
పారిశుధ్య కార్మికులు
భద్రతా దుస్తులు
పరికరాలు వాడాలి



వివరాలకు, సలహాలకు మరియు ఫిర్యాదులకు
14420 కు ఫోన్ చేయండి



Ministry of Drinking Water and Sanitation
Government of India





నీటిని
మలాసురుడి
నుంచి
రక్షించండి

**ప్రతి 3 మూడేళ్లలో
సెప్టిక్ ట్యాంక్
తవ్వక శుభ్రం చేయించండి**

సమయానికి సెప్టిక్ ట్యాంక్
శుభ్రంచేయించకపోతే
మలం లేదా మలాసురుడు
బయటకు రావడం జరుగుతుంది

లైసెన్స్
కలిగిన ఆపరేటర్కు
ఫోన్ చేయండి
14420
శుభ్రం చేయించండి

Knowledge partner: ASO, Hyderabad

#1

మీ సెప్టిక్ ట్యాంక్
సరైనది అవునో కాదో
తెలుసుకోండి

సరైన సెప్టిక్ ట్యాంక్



#2

సెప్టిక్ ట్యాంక్
పొంగి పొర్లక ముందే
శుభ్రం చేయించండి



గుర్తుంచుకోండి

చేయవలసినవి



చేయకూడనివి



1 ఒక నీటి పీల్ గల రెండు
చేంబర్ల సెప్టిక్ ట్యాంక్
కట్టించుకోండి.

1 ఒక చేంబర్ గల
సెప్టిక్ ట్యాంక్
కట్టించుకోకండి.

2 ట్యాంక్ పైనే నగరహరితా
నియమాలకు అనుగుణంగా
ఉండాలి.

2 పెద్ద పైనే గల
ట్యాంక్లు
కట్టించుకోరాదు.

3 సెప్టిక్ ట్యాంక్ ఎల్లప్పుడూ
ఇటుకలు, రాళ్ళు, కాంక్రీట్
లేదా ప్లస్టర్ మెటీరియల్తో
కట్టించుకోవాలి.

3 గొయ్యిని త్రవ్వ
సెప్టిక్ ట్యాంక్గా
వాడకద్దు.

4 ఎల్లప్పుడూ సెప్టిక్ ట్యాంక్ని
కట్టడానికి దూరంగా
నిర్మించుకోవాలి.

4 ఇక ట్యాంక్ పైనే
మరుగుదొడ్డిని
నిర్మించరాదు.

గుర్తుంచుకోండి

1



మీ సెప్టిక్ ట్యాంక్
మున్సిపాలిటీ లైసెన్స్ కలిగిన బ్రక్ ఆపరేటర్
ద్వారా మాత్రమే శుభ్రం చేయించాలి.
ప్రతి 3 సంవత్సరాలకు.

2



శుభ్రం చేసే
వ్యక్తి సురక్షితమైన
దుస్తులు, తోడుగులు
ధరించేలా చూడండి.

3

శుభ్రం చేసే వారిని
గౌరవంతో
పలకరించండి.
అదీ చాలా
మంచివిషయం.



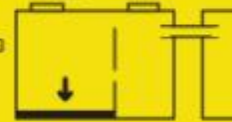
4

సెప్టిక్ ట్యాంక్లోకి
వ్యక్తులు దిగి
శుభ్రం చేయడం
చట్టవిరుద్ధం.



5

సెప్టిక్ ట్యాంక్ శుభ్రం చేసేటప్పుడు
2 ఇంచుల మల వ్యర్థం అందులోనే
ఉంచాలని
శుభ్రం చేసే
వ్యక్తికి
చెప్పండి.



6

మల వ్యర్థం
రాజాంలో
ఉన్న మల
శుద్ధి ప్లాంట్కు
తీసుకు వెళ్లేలా చూడండి.



Thank You



Website: <https://nalgondamunicipality.telangana.gov.in/>

Facebook: <https://www.facebook.com/MC.Nalgonda/>

Twitter: https://twitter.com/MC_Nalgonda/



YSR Bhavan, Municipal Office, Opp Zilla Parishad,
Nalgonda, 508001.



Commissioner - 9849905911,
Executive Engineer - 9849006790



nlgmcn2011@gmail.com