

SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

SreeSainath Nagar, Tirupati - 517 102

## **Environmental Consciousness and Sustainability**

# 7.1.4 Water Conservation Facilities

### **Environmental Consciousness and Sustainability**

### 7.1.4. Water conservation facilities available in the Institution:

- 1. Rain water harvesting
- 2. Borewell /Open well recharge
- 3. Construction of tanks and bunds
- 4. Waste water recycling
- 5. Maintenance of water bodies and distribution system in the campus

#### **Options:**

- A. Any 4 or all of the above
- B. Any 3 of the above
- C. Any 2 of the above
- D. Any 1of the above
- E. None of the above

### **Upload:**

- Geotagged photographs / videos of the facilities
- Any other relevant information
- Campus is sufficiently equipped with sustainable rain water harvesting systems.
- Soak pits, trench pits, ponds and sumps are well constructed at appropriate locations and maintained to store rainwater above the ground and recharge groundwater through a well-connected drainage network designed for collecting rainwater runoff from roof tops and open areas, at the time of downpour within the campus.
- > The stored rainwater is mainly used for gardening and construction.
- Further, most of the internal pavements and open spaces are laid with porous/permeable concrete paver tiles separated by joints and rainwater is allowed to infiltrate.
- Landscape is maintained such that each and every drop of rainwater is collected and drained into rainwater harvesting systems.
- > Existing open wells in the campus are well utilized to harvest rainwater.
- Well conceived stormwater drainage system is in place in the campus to manage storm water.
- > Drains are always kept clean.

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- Bunds were constructed at appropriate places in the campus to store rainwater and facilitate it to infiltrate into the ground and thereby to recharge groundwater to the maximum extent. This has lead to the development and sustenance of greenery in the campus.
- Kerb stones were used in the form of low level fencing to retain rain water runoff for infiltration at locations wherever it is appropriate.
- Wastewater is generated from wash rooms, toilets of all buildings, canteen and messes is collected and transported by means of well conceived sewerage system to three sewage treatment plants of 150 KLD, 200 KLD and 250 KLD. An extended type of activated sludge process principle is provided in the working of these sewage treatment plants. The wastewater generated is 100% domestic origin. The treated water is used for the gardening the lawns on campus.
- Well conceived plumb line system is in place in the campus for conveying water and wastewater in the campus.
- The groundwater is pumped to overhead tanks located on the terrace of different buildings in the campus and then distributed through a well designed distribution system for different applications.
- There are six overhead tanks on the terrace of various buildings and one underground tank in the campus. The total water storage capacity of all tanks is 576000 litres. The present water demand is about 310000 litres. The present storage capacity of tanks is sufficient for storing and distribution.
- The groundwater available in the campus contains hardness beyond the drinking water standards. The institute installed five Reverse Osmosis (RO) systems of capacities 500 Litres per hour, 1000 Liters per hour, 2000 Liters per hour (2 No.) and 3000 Liters per hour at appropriate locations as per the requirement. These RO systems are usually operated during morning (4 am to 9 am) and evening (6 pm to 10 pm).
- Manual alert system is provided to check overflow of water tanks. The water works man always keep track on the water tanks.
- > Water tanks are cleaned periodically.

- Drinking water quality standards are well maintained through periodic water quality tests.
- Pipelines, taps and other sources of water discharge are well maintained without any leakages.

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PRINCIPAL PRINCIPAL SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS) Sree Salnath Nagar, A. RANGAMPET Chittoor (Dist.) - 517 102, A.P., INDIA.



### SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS)

SreeSainath Nagar, A. Rangampet – 517 102

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### Verified and found correct

PRINCIPAL PRINCIPAL SREE VIDYANIKETHAN ENGINEERING COLLEGE (AUTONOMOUS) Sree Sainath Nagar, A. RANGAMPET Chittoor (Dist.) - 517 102, A.P., INDIA,

# RAIN WATER HARVESTING STRUCTURES



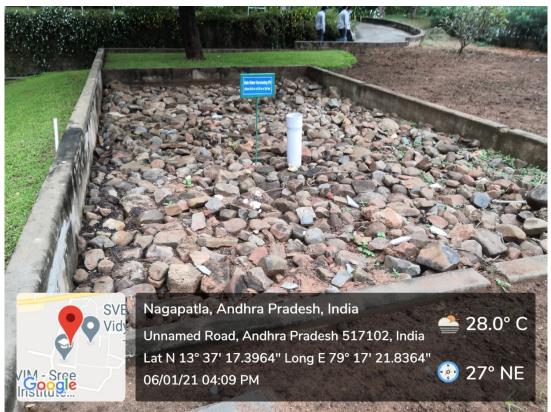
### Rain Water Harvesting Pond at Main Gate (Size: 14.5 m Diameter X 1.5 m Depth)



Rainwater Harvesting Pitat New Canteen (Size: 5.25 m x 5.0 m x 3.6 m)



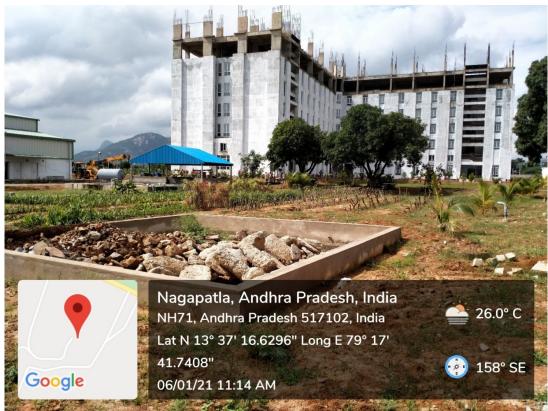
Rainwater Harvesting Pit beside MNS Block (Size: 5.25 m x 5.0 m x 3.6 m)



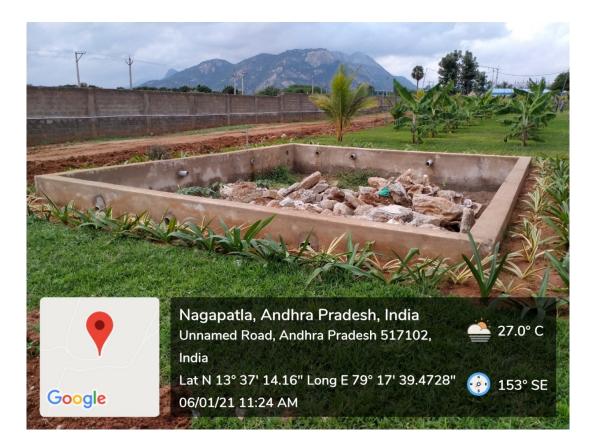
Rainwater Harvesting Pit in front of MNS Block (Size: 9.0 m x 5.0 m x 3.6 m)

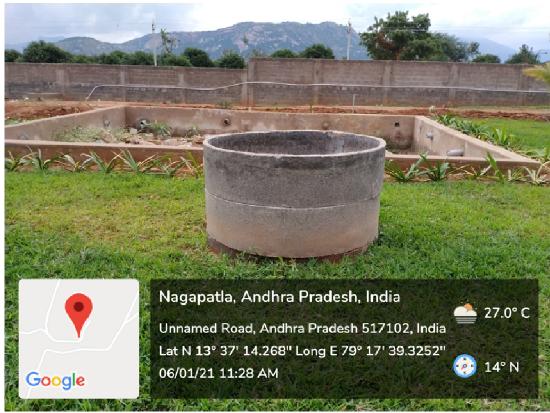


Rainwater Harvesting Pit at PAT Office (Size: 4.0 m x 4.0 m x 3.6 m)

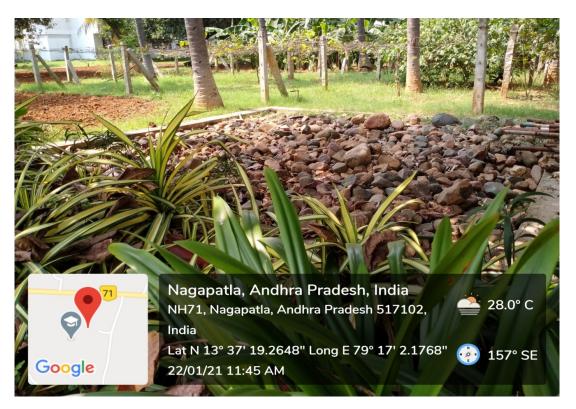


Rainwater Harvesting Pit at East of V Block (Size: 8.8 m x 7.8 m x 3.6 m)

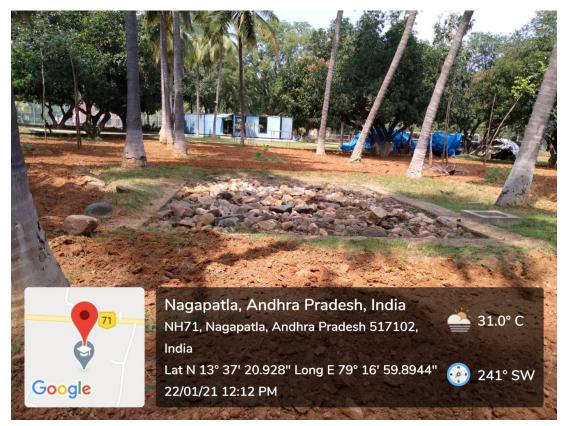




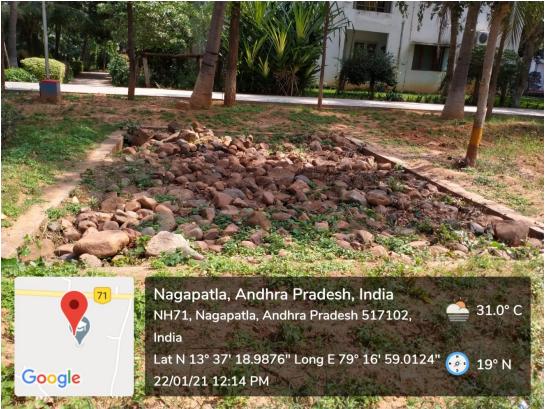
Rainwater Harvesting Pit at South of V Block (Size: 7.5 m x 6.0 m x 3.6 m)



Rainwater Harvesting Pit-1 at Girls Hostel Premises (Size: 5.5 m x 5.52 m x 3.6 m)



Rainwater Harvesting Pit-2 at Girls Hostel Premises (Size: 7.48 m x 4.74 m x 3.6 m)



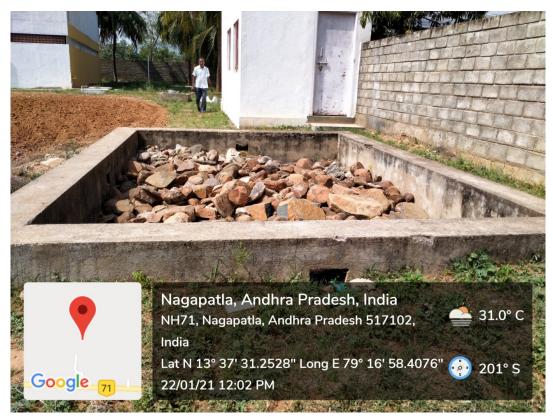
Rainwater Harvesting Pit-3 at Girls Hostel Premises (Size: 6.37 m x 4.25 m x 3.6 m)



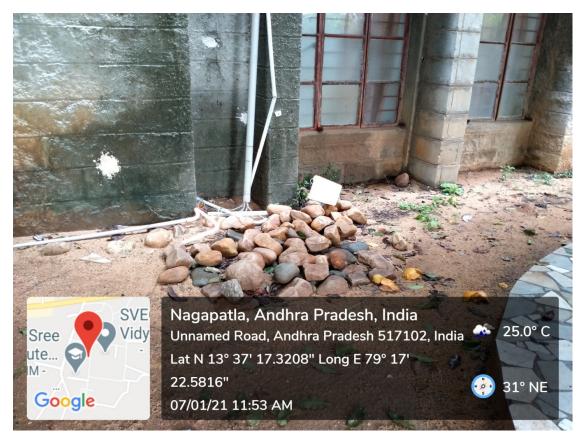
Rainwater Harvesting Pit-4 at Girls Hostel Premises (Size: 5.42 m x 5.39 m x 3.6 m)

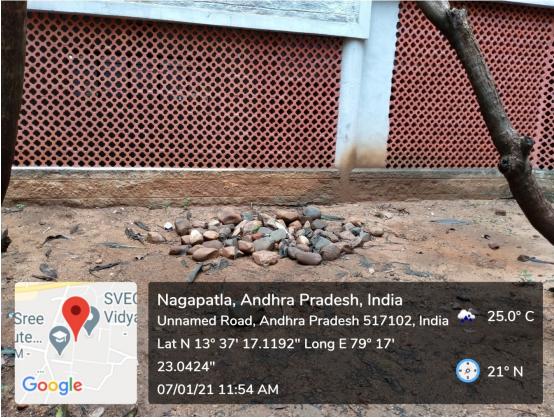


Rainwater Harvesting Pit-1 at Boys Hostel Premises (Size: 7.29 m x 4.13 m x 3.6 m)

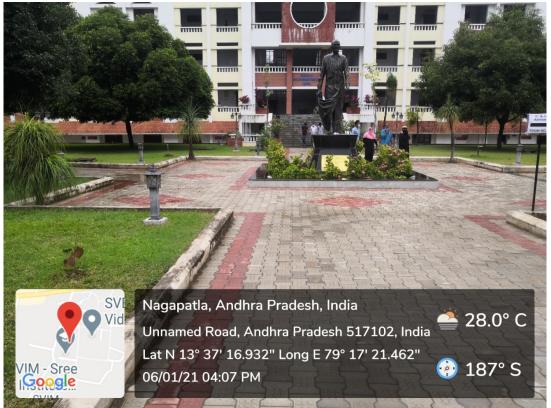


Rainwater Harvesting Pit-1 at Boys Hostel Premises (Size: 4.89 m x 3.36 m x 3.6 m)

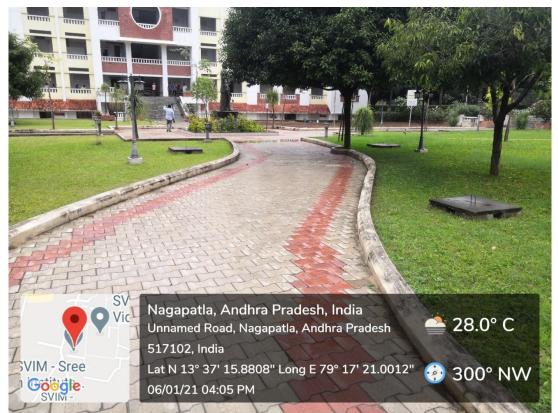




**Soak Pits** 



Porous/Permeable Concrete Paver Tiles Separated by Joints at MNS Block to Infiltrate Rainwater



Porous/Permeable Concrete Paver Tiles Separated by Joints at MNS Block to Infiltrate Rainwater



Porous/Permeable Concrete Paver Tiles Separated by Joints in Front of Mechanical Engineering Block to Infiltrate Rainwater



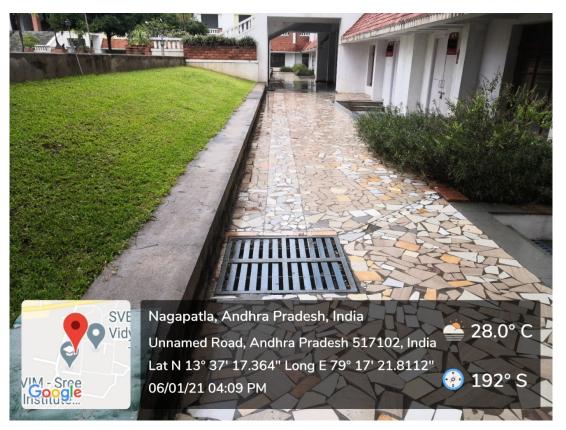
Porous/Permeable Concrete Paver Tiles Separated by Joints in Front of Civil Engineering Block to Infiltrate Rainwater



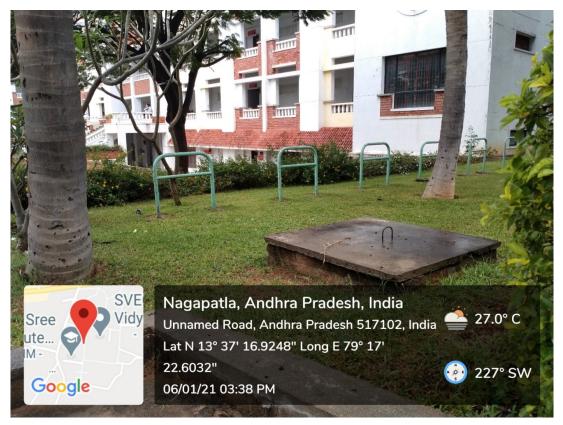
**Rain Water Collection and Conveyance System in Front of M-Block** 



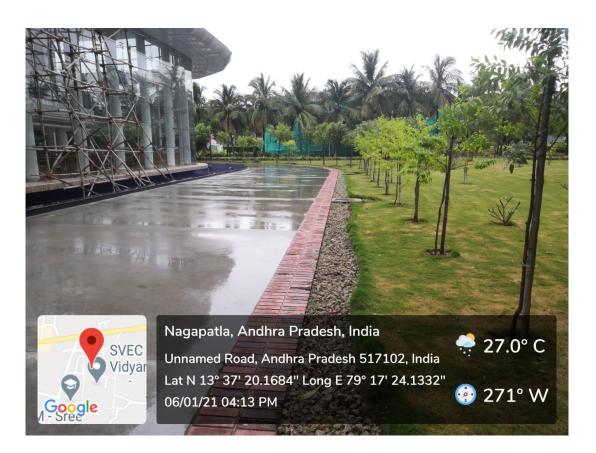
**Rain Water Collection and Conveyance System beside M-Block** 

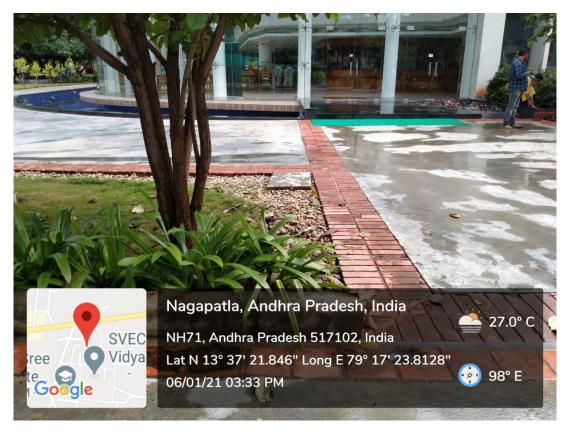


### **Rain Water Collection and Conveyance System at MNS-Block**

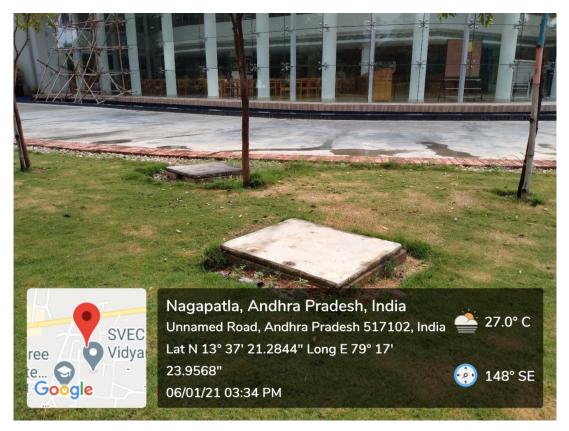


Rain Water Collection and Conveyance System at MNS-Block





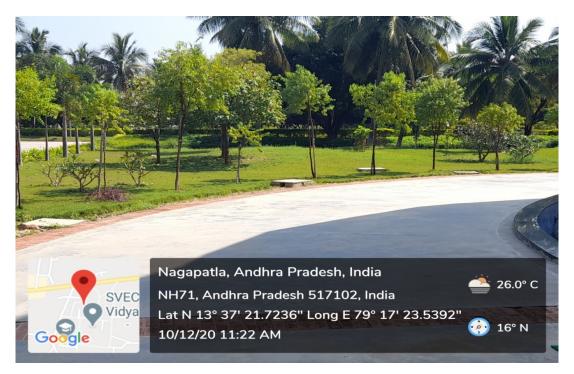
**Rain Water Collection and Conveyance System at Central Library** 



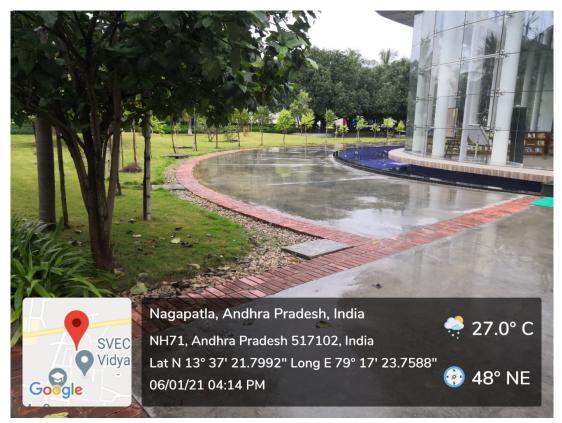
### **Rain Water Collection and Conveyance System at Central Library**



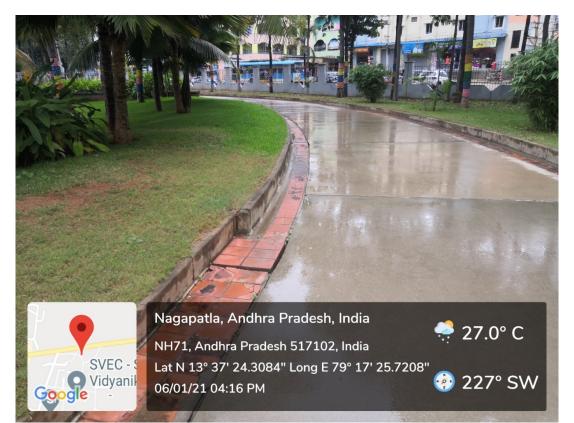
**Rain Water Collection and Conveyance System at PAT Office** 



### Rain Water Collection and Conveyance System in Front of Central Library



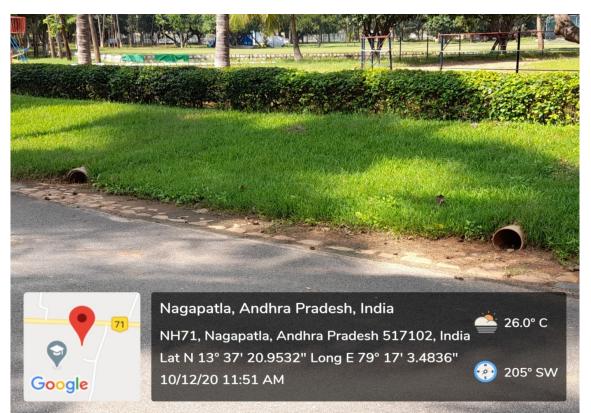
**Rain Water Collection Point at Central Library** 



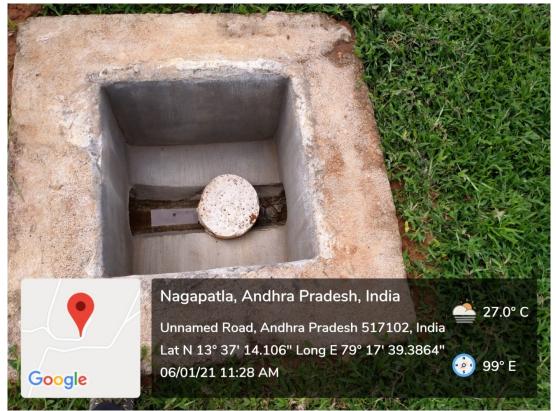
Rain Water Collection and Conveyance System on the Way to Canteen



**Rain Water Collection and Conveyance System at the Canteen** 



Rain Water Collection and Conveyance System on the Way to Hostels



**Rain Water Collection Point at V Block** 

# BORE WELL /OPEN WELL RECHARGE



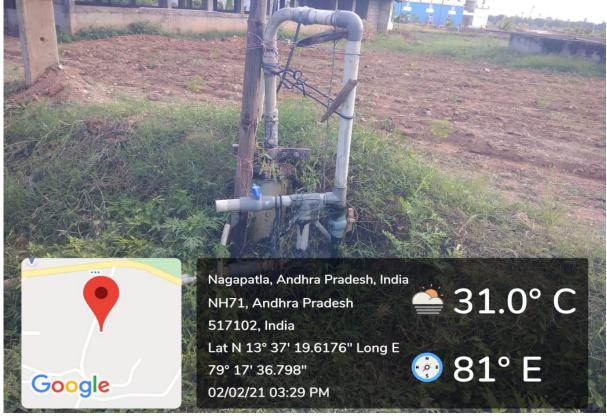


Open Well near Main Gate (Size: 4.3 m Diameter x 20 m Depth) with Bore (6.5" Diameter)





Open Well near V Block (Size: 5.13 m Diameter x 18 m Depth) with Bore (6.5" Diameter)



Bore Well near V Block (6.5" Diameter)



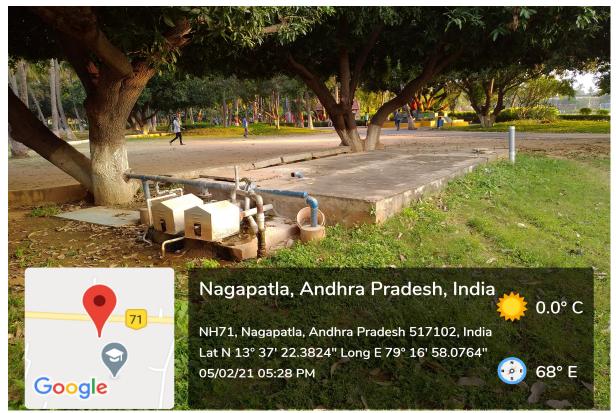
Open Well near the V Block Main Gate (Size: 6.3 m Diameter x 27 m Depth)



Bore Well near the V Block Main Gate (6.5" Diameter)



Bore Well near Indoor Stadium (6.5" Diameter)



Bore Well-1 at Girls Hostel (8" Diameter)



Bore Well-2 at Girls Hostel (8" Diameter)

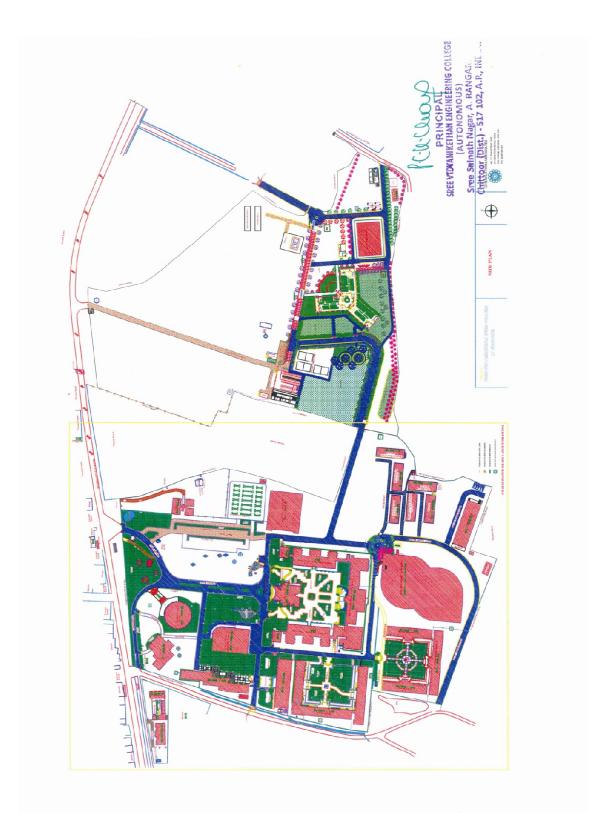


Bore Well-1 at Boys Hostel (8" Diameter)



Bore Well-2 at Boys Hostel (6.5" Diameter)

# **STROMWATER MANAGEMENT**



Stromwater Drainage System Layout

# **CONSTRUCTION OF BUNDS**





**Bunds at Appropriate Locations in the Campus** 



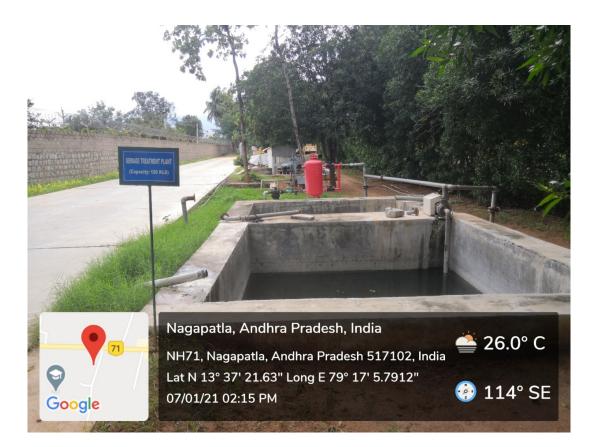


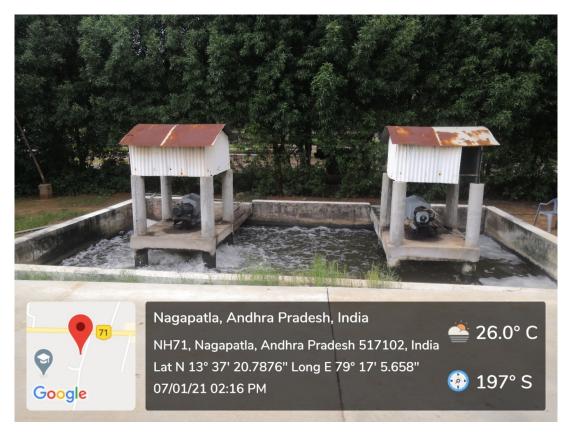
**Bunds at Appropriate Locations in the Campus** 



Bunds at Appropriate Locations in the Campus

### WASTEWATER RECYCLING





Sewage Treatment Plant of 150 KLD Capacity at Girls Hostels



Sewage Treatment Plant of 200 KLD Capacity at Boys Hostels



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 Unnamed Road, Andhra Pradesh 517102, India
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Sewage Treatment Plant of 250 KLD Capacity at V Block

# BILLS RELATED TO SEWAGE TREATMENT PLANT

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	hat all articulars ar true and correct & "No Credit of ipecial Additional Duty Levied under section3(5)	1d	Da	te imil	0	10	
4	of the customs Tariff Act 1975 shall be Admissible."	j/s	Balu	120/5/-	2. Janjed Signatory		
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## MAINTENANCE OF WATER BODIES AND DISTRIBUTION SYSTEM IN THE CAMPUS

## PLUMB LINE SYSTEM FOR WATER AND WASTEWATER CONVEYANCE



Plumb Line System for Water and Wastewater Conveyance

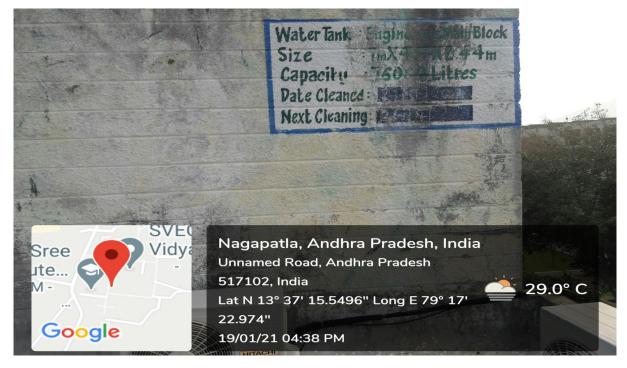
### WATER STORAGE TANKS

### LIST OF WATER STORAGE TANKS

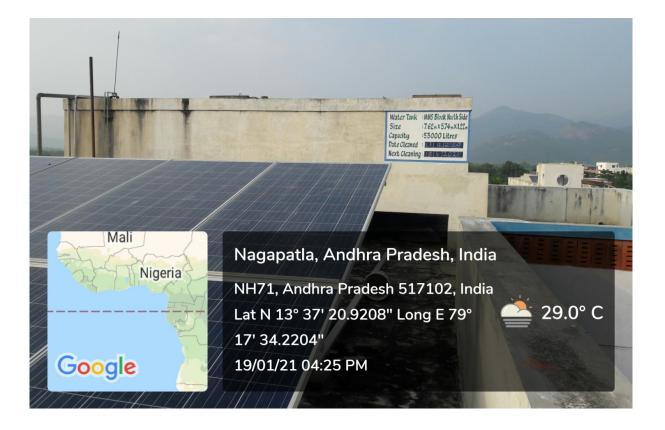
S. No.	Description of Water Storage Tank	Water Tank Size	Storage Capacity (Litres)
1	Overhead Tank at Engineering Main Block	23′ x 15′ x 8′ (7 m x 4.57 m x 2.44 m)	76000
2	Overhead Tank at MNS Block North Side	25′ x 18′10″ x 4′ (7.62 m x 5.74 m x 1.22 m)	53000
3	Overhead Tank at MNS Block South Side	26' x 19' x 4'6" (7.92 m x 5.79 m x 1.37 m)	62000
4	Overhead Tank (Fourth Floor) at Civil Engineering Block South Side	24′6″ x 12′ x 5′6″ (7.47 m x 3.65 m x 1.67 m)	45000
5	Overhead Tank (Terrace) at Civil Engineering Block South Side	24′6″ x 12′ x 3′6″ (7.47 m x 3.65 m x 1.07 m)	28000
6	Overhead Tank at Central Library	11' x 6'9" x 5'9" (3.35 m x 2.05 m x 1.75 m)	12000
7.	Underground Tank at PAT Office	23' x 13'1" x 8'2" (7 m x 4 m x 2.5 m)	70000
8.	Underground Tank at Academic Block	30′6″ x 17′9″ x 10′ 9.3 m x 5.4 m x 3 m	150000
9.	Underground Tank at V Block	32'10" x 31'2" x 9'10" (10 m x 9.5 m x 3 m)	300000
10.	Overhead Tank at Girls Hostels	30'7" Dia. x 13'7" Height (9.3 m Dia. x 4 m Height)	271000
11.	Underground Tank at Girls Hostels	28'10" x 10'6" x 11'10" (8.8 m x 3.2 m x 3.6 m)	101,000
12.	Underground Tank at SS1 Block, Boys Hostels	7'10" x 4'11" x 9'10" (2.4 m x 1.5 m x 3 m)	10000
13.	Overhead Tank at SS1 Block, Boys Hostels	11′6″ x 4′11″ x 5′3″ (3.5 m x 1.5 m x 1.6 m)	8000

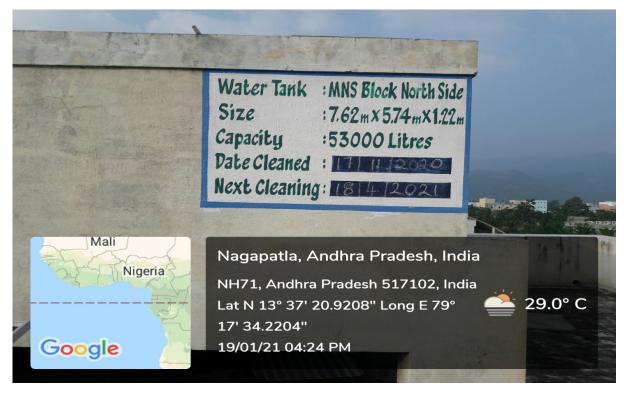
S. No.	Description of Water Storage Tank	Water Tank Size	Storage Capacity (Litres)
14.	Underground Tank at SS2 Block, Boys Hostel Block	12′8″ x 8′11″ x 7′10″ (3.85 m x 2.71 m x 2.4 m)	25000
15.	Overhead Tank at SS2 Block, Boys Hostels	27'3" x 11'6" x 3'3" (8.3 m x 3.5 m x 1 m)	29000
16.	Overhead Tank at SS3 Block, Boys Hostels	20′8″ x 13′9″ x 7′7″ (6.3 m x 4.2 m x 2.3 m)	60000
17.	Overhead Tank-1 at Dining Hall, Boys Hostels	40′4″ x 9′10″ x 3′3″ (12.3 m x 3 m x 1 m	37000
18.	Overhead Tank-2 at Dining Hall, Boys Hostels	40'4" x 9'10" x 3'3" (12.3 m x 3 m x 1 m	37000
19.	Overhead Tanks at Parents Guest House	2 No 2000 Litres Capacity Each	4000
20.	Surface Tank at Guest House	15′9″ x 10′2″ x 10′ 6″ (4.8 m x 3.1 m x 3.2 m)	47000





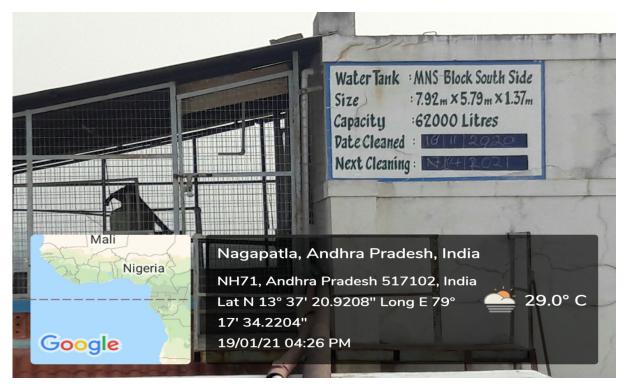
Overhead Tank at Overhead Tank at Engineering Main Block of Size: 7 m x 4.57 m x 2.44 m and Capacity: 76000 Litres



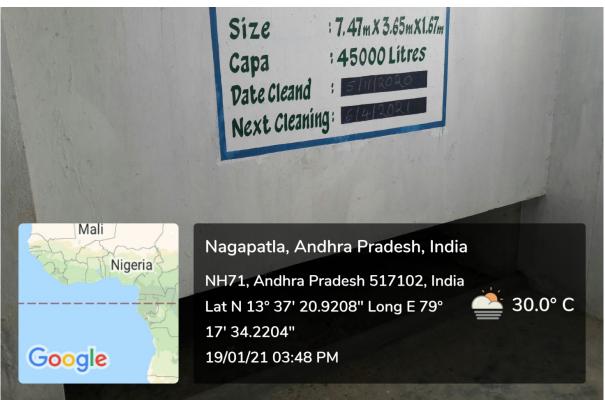


Overhead Tank at MNS Block North Side of Size: 7.62 m x 5.74 m x 1.22 m and Capacity: 53000 Litres





Overhead Tank at MNS Block South Side of Size: 7.92 m x 5.79 m x 1.37 m and Capacity: 62000 Litres



Overhead Tank (Fourth Floor) at Civil Engineering Block South of Size: 7.47 m x 3.65 m x 1.67 m and Capacity: 45000 Litres



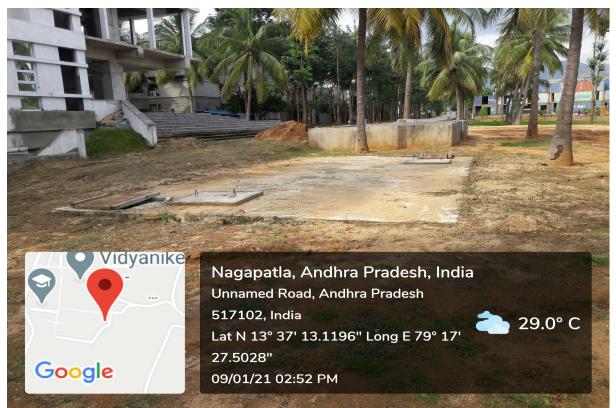
Overhead Tank (Terrace) at Civil Engineering Block South of Size: 7.47 m x 3.65 m x 1.07 m and Capacity: 28000 Litres



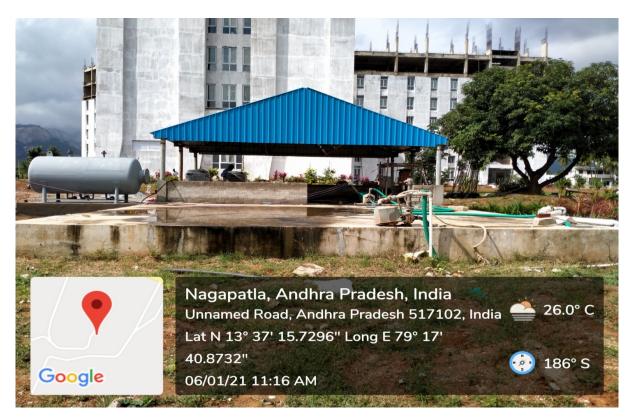
Overhead Tank at Central Library of Size: 3.35 m x 2.05 m x 1.75 m and Capacity: 12000 Litres



Underground Tank at PAT Office of Size: 7 m x 4 m x 2.5 m and Capacity: 70, 000 Litres



Underground Tank at Academic Block of Size: 9.3 m x 5.4 m x 3 m and Capacity: 150000 Litres



Underground Water Storage Tank at V Block of Size: 10 m x 9.5 m x 3 m and Capacity: 300000 Litres



Overhead Tank at Girls Hostels of Size: 9.3 m Diameter x 4 m Height and Capacity: 271000 Litres



Underground Tank at Girls Hostels of Size: 8.8 m x 3.2 m x 3.6 m and Capacity: 101,000 Litres



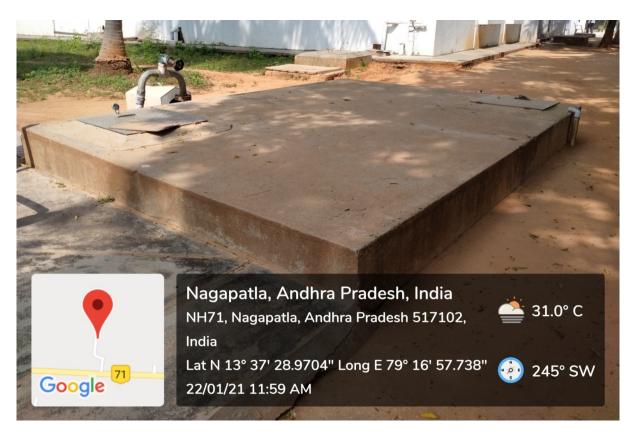
#### Underground Tank at SS1 Block, Boys Hostels of Size: 2.4 m x 1.5 m x 3 m and Capacity: 10000 Litres



Overhead Tank at SS1 Block, Boys Hostels of Size: 3.5 m x 1.5 m x 1.6 m and Capacity: 8000 Litres



Overhead Tank at SS2 Block, Boys Hostels of Size: 8.3 m x 3.5 m x 1 m and Capacity: 29000 Litres



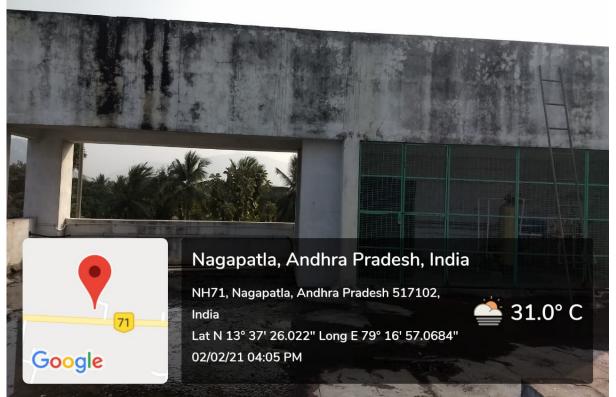
Underground Tank at SS2 Block, Boys Hostels of Size: 3.85 m x 2.71 m x 2.4 m and Capacity: 25000 Litres



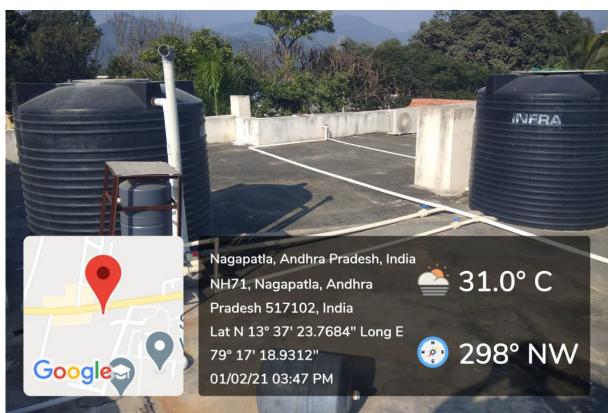
#### Overhead Tank at SS3 Block, Boys Hostels of Size: 6.3 m x 4.2 m x 2.3 m and Capacity: 60000 Litres



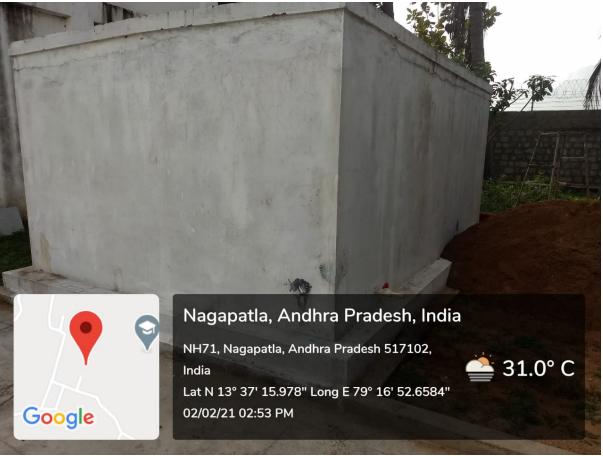
Overhead Tank-1 at Dining Hall, Boys Hostels of Size: 12.3 m x 3 m x 1 m and Capacity: 37000 Litres



Overhead Tank-2 at Dining Hall, Boys Hostels of Size: 12.3 m x 3 m x 1 m and Capacity: 37000 Litres



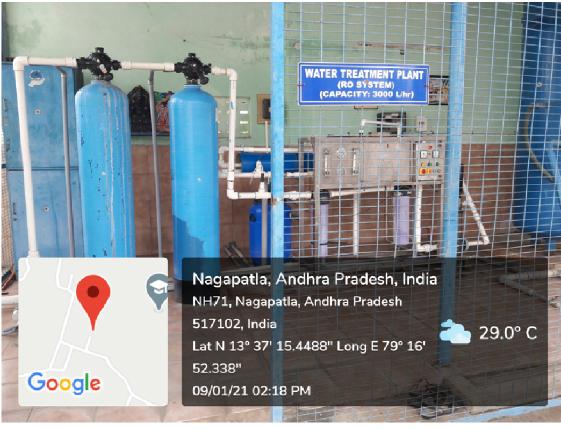
Overhead Tanks at Parents Guest House of 4000 Litres Capacity (2 Nos. - 2000 Litres Each)



Surface Tank at Guest House of Size: 4.8 m x 3.1 m x 3.2 m and Capacity: 47,000 Litres

### **RO SYSTEMS**





Reverse Osmosis (RO) System (3000 Liters per Hour Capacity) at Girls Hostel Premises

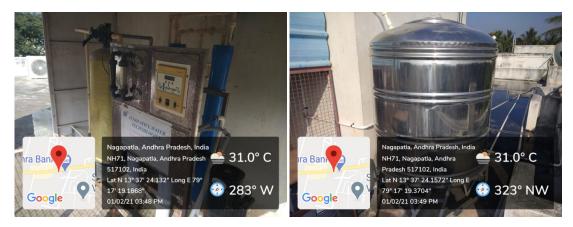




Two Reverse Osmosis (RO) Systems (1000 and 2000 Liters per Hour Capacity) at College Premises

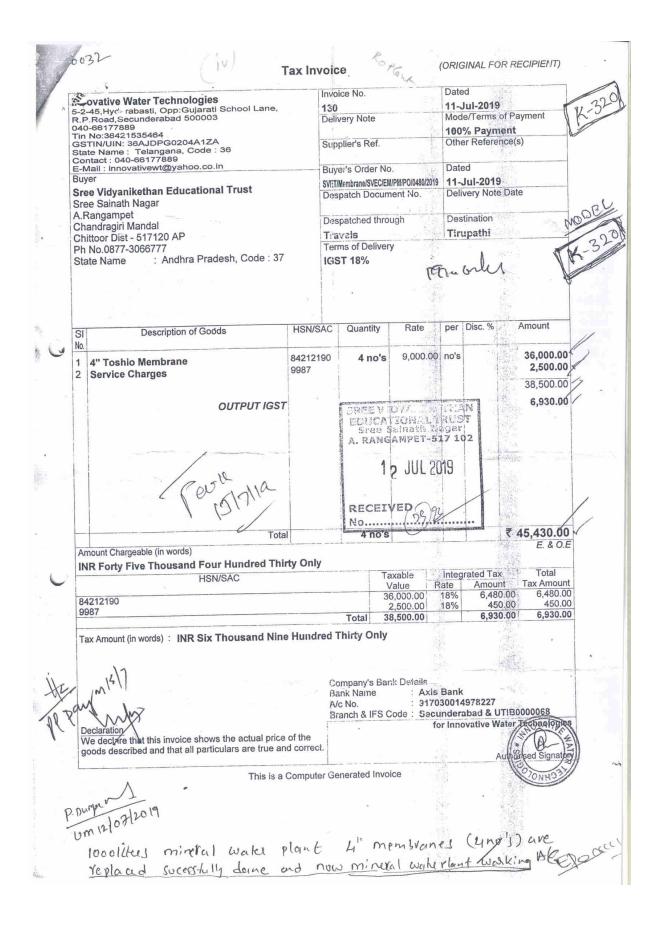


Reverse Osmosis (RO) System (2000 Liters per Hour Capacity) at College Premises



Reverse Osmosis (RO) System (500 Liters per Hour Capacity) at Parents Guest House

### **BILLS RELATED TO RO SYSTEMS**



Rec: 30107/19 1054 (ORIGINAL FOR RECIPIENT) Tax Invoice 14 Invoice No. Dated Innovative Vater Technologies 5-2-45, Hyderabasti, Opp:Gujarati School Lane, R.P.Road, Secunderabad 500003 141 20-Jul-2019 **Delivery** Note Mode/Terms of Payment R. P. Road, Secunderabad 600003 040-66177889 Tin No:36421535464 GSTIN/UN: 36AJDPG0204A1ZA State Name : Telangana, Code : 36 Contact : 040-66177889 100% Payment Supplier's Ref. Other Reference(s) E-Mail : innovativewt@yahoo.co.in Buyer's Order No. Dated Buyer SVET/ROPLANT/SVEC/DFS/PM:PO/0488/2019 15-Jul-2019 Sree Vidyanikethan Educational Trust Despatch Document No. **Delivery Note Date** Sree Sainath Nagar A.Rangampet Despatched through Destination Chandragiri Mandal Chittoor Dist - 517120 AP Tirupati, Chandragiri Tranport Ph No.0377-3066777 Mobile No.0160999954 Terms of Delivery **IGST 18%** : Andhra Pradesh, Code: 37 State Name Description of Goods HSN/SAC Quantity Rate per Disc. % Amount SI No. 84212110 1 no's 2,55,000.00 no's 2,55,000.00 2000 Lph Ro Plant 1 92 **OUTPUT IGST** 45,900.00 SREE VIDYANIKETHAN EDUCATIONAL TRUST Sree Sainath Nagar A.RANGAMPET-517 102 30 JUL 2019 RECEIVED 4J Ne:..... ............. Total ₹ 3,00,900.00 1 no's E. & O.E Amount Chargeable (in words) 14 INR Three Lakh Nine Hundred Only Integrated Tax HSN/SAC Total Taxable Value Rate Amount Tax Amount 45,900.00 2,55,000.00 18% 45,900.00 84212110 45,900.00 45,900.00 Total 2,55,000.00 Tax Amount (in words) : INR Forty Five Thousand Nine Hundred Only Company's Bank Details : Axis Bank Bank Name 917030014978227 A/c No. Branch & IFS Code : Secunderabad & UTIB0000068 for Innovative Water Technologies Declaration We declare that this invoice shows the actual price of the goods desc: "bed and that all particulars are true and correct. thorised Sigj This is a Computer Generated Invoice P. Durger 1 5 Um 29/07/2019 on saturday (27/07/2019) we successfully installed and changing 2000/ts new Ro wake plant and wasking in good condition

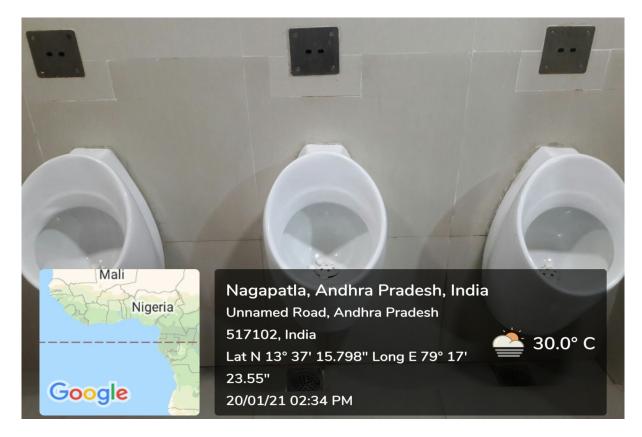
TIN: 37AERPL9257P1ZA OFFICE Cell: 99859 380 Cell: 99859 38883 STIN: 37AERPL9257P1ZA Drinking Water Coolers, U.V. Water Purifiers, Softners R.D. Systems and All Industrial Water Purifiers 18-4-5, Railway Colony, TIRUPATHI. 442 11/2019 Date ; 12 No: Details of Consignee / Shipped to : Details of Receiver / Billed to : once vidyamiteThom Transporation Mode : Mineral we Name Educotional Tomot, Address Vehicle No. : Plant Date & Time of Supply : State Place of Supply : Rongampehe GSTIN No. : HSN SI. DISCRIPTION OF GOODS **Total Amount** Qty. Rate Code No. 28,000 Menhang ang 14000 4"  $(\mathbf{I})$ 2000 2 PONO: - SVET ROPLONA UN PO 007(C 00/9, EUSCATIONAL TRUST EUSCATIONAL TRUST Sree Sainath Nagar A.RANGAMPET-517 102 P. Durg 0.5 NOV 2019 **Total Amount** 30.000 Bill Value (in Words) ECETYED, Certified that the Particulars gives above at the Electronic Reference Number : Ale A. F. horis connect For SAI SONALIKA AQUA TECHNOLOGIES YOUR TERM & CONDITION OF SALE Proprietor Signature Not Eligible for input Tax Credit Authorised Signatory 1. Goods once sold will not be taken back or exchange Interest will be charged @ 24% if the payment in not made as or before due date. Name : Designation : 3. Subject to Tirupati juridictions only

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		5upplier's	Ref.	Other Reference	e(s) .	
STIN No.: 36AALFP3957E1ZZ 5 mail peacock.eng@gmail.com	State Code: 36	Buyer's Or		Dated		
UYER			00548/2019	10.12.2019 Delivery Note D	ate	
ree Vidyanikethan Educational Trust ree Sainath Nagar,			LR No. 5262		Delivery Note Date	
A. Rangampet		Despatche			Destination	
Trupathi, Chittur Dist Andhra Pradesh State		V. No. HR7	Terms of Delivery Through Ru		Tirupathi, A. Rangampet unway Integrated Logistics	
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1 SKLD Reverse Osmosis Plant equi	pment	8421 1 Set	208800	0	208,800.00	
	FOTAL				246,384.00	
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Email :peacock.eng@gmail.com	m			00547/2019	10.12.2019		
BUYER Sree Vidyanikethan Educati	onal Trust		Despatched De		Delivery Note Date		
Sree Sainath Nagar,			LR No. 535		Destination		1
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### SENSOR BASED WATER CONSERVATION SYSTEM





Sensor Based Water Conservation System for Urinals