तमिलनाडुकेन्द्रीयविश्वविद्यालय
(संसदद्वारापारितअधिनियम 2009 केअंतर्गतस्थापित)
CENTRAL UNIVERSITY OF TAMIL NADU
(Established by an Act of Parliament, 2009)
नीलक्कुड़ीपरिसर/Neelakudi
Campus,कंगलान्चेरी/Kangalancherry,तिरुवारूर/Thiruvarur- 610 005
Estate Section
estate@cutn.ac.in 04366 277 466

CUTN/Estate/CVL/Tender/2022-23/05 **12.07.2022**

Name of work	:	Repair and renovation works at 150 KLD (2 Nos) and 100 KLD (1 No) Capacity Sewage Treatment Plants (STP's), Central University of Tamil Nadu, Thiruvarur.
Tender Ref No	:	CUTN/ENGG/CVL/Tender/2022-23/05
Pre-Bid meeting date	:	04.07.2022
Value of Work	:	Rs. 11,05,370/-

Minutes recorded at the Pre bid meeting for "Repair and renovation works at 150 KLD (2 Nos) and 100 KLD (1 No) Capacity Sewage Treatment Plants (STP's), Central University of Tamil Nadu, Thiruvarur" held on 04.07.2022 at Admin Block, CUTN, Thiruvarur.

Sl. No.	Queries/Clarifications/Doubts Sought by bidders	Response from CUTN
1	Whether specification for Electro mechanical equipments will be provided.	
	Page No: 37 of 38, SL. No.5.3	**1. <u>Raw sewage collection & Pumping pump</u>** Type : Vertical, Nonclog submersible cutter version pump. MOC : Cast Iron Power rating : 1 HP, 3phase @ 415 Volts Capacity : 4.2m3/hour @ 10 metrs. head Make : Gruolfos (or) equivalent ISI mark
	Page No: 37 of 38, SL. No.5.4	**<u>2. Air blowers</u>** Type : Roots, Twin lobe MOC : Cast Iron Pressure : 0.4 kg/cm2 Capacity : 100 m3/hr Make : Everest (or) equivalent ISI mark **<u>Capacity: 5 HP</u>**
	Page No: 38 of 38, SL. No.5.5	**<u>3. Filter feed pumps</u>** Type : Horizontal, Centrifugal, Nonclog, Monoblock pumps. MOC : Cast Iron Power rating : 1 HP, 3phase @ 415 Volts Capacity : 4.2m3/hour @ 30 metrs. head Make : Kirloskar (or) equivalent ISI mark

12/07/2022
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	Page No: 38 of 38, SL. No.5.6	**4. Sludge pump** Type : Horizontal, Centrifugal, Non clog, Self priming. MOC : Cast Iron Power rating : 1 HP, 3phase @ 415 Volts Capacity : 2.0m3/hr @ 10 m. head Make : Kirloskar (or) equivalent ISI mark Solid Handling : 40 mm
	Page No: 38 of 38, SL. No.5.7	**5. Electrical panel board** Type : Wall Mounting Incomer : 250 Amps four pole MCCB 50 KKA 63 A TPN MCCB 25 KA Make : Power controls (or) Equivalent ISI make Panel : L&T / ABB Electrical Cables: Industrial Armord cable Cable make: Finolex (or) equivalent ISI mark
	Page No: 38 of 38, SL. No.5.8	**6. Activated carbon filter** Type : Vertical, Cylindrical downstream. Capacity : 4.2 m3/hr Make : ISI mark Size: 600mm dia x 1.8m (HOS) Design pressure: 5kg/cm2, working pressure: 3.0kg/cm2 Service flow rate: 4.2m3/hr Back wash flow rate: 8.4m3/hr Internal: Top & Bottom internal water collection distribution system. Vessel shell thick: 6mm Vessel dish thick: 8mm Filter media: Graded pebbles, silex, filter sand and activated carbon. Valves: Diaphragm type, l valves. Accessories: Frontal piping, Valves, Two pressure gauges
	Page No: 38 of 38, SL. No.5.9	**7. Pressure sand filter** Type : Vertical, Cylindrical downstream. Capacity : 4.2 m3/hr Make : ISI mark Size: 600mm dia x 1.5m (HOS) Design pressure: 5kg/cm2, working pressure: 3.0kg/cm2 Service flow rate: 4.2m3/hr Back wash flow rate: 8.4m3/hr Internal: Top & Bottom internal water collection distribution system. Vessel : The filter vessel is made of high grade FRP with stamped top and bottom dished ends welded onto it.
	Page No: 38 of 38, SL. No.5.10	**8. Grit Chamber** Flow: 100 m3/day Peak factor: 4 Peak flow: 16.67 m3/hr Peak design flow: 16.67/3600 0.0046 m3/s. Chamber size: 1m x 0.8m x 1m (TD)

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2	Whether drawing will be provided.	Drawing attached (Annexure- Z)
3	Whether Electrical panel drawing is provided.	Not provided.
4	Brief explanation about Sl.No. 3.1 & 4.1 in the financial bid.	3.1. Epoxy coating will be done in prefabricated outer side of steel tanks (like FBBR, secondary claritube settler tank, Filter feed tank etc.) 4.1. APP layer will be done in inside of prefabricated outer side of steel tanks (like FBBR, secondary claritube settler tank, Filter feed tank etc.)

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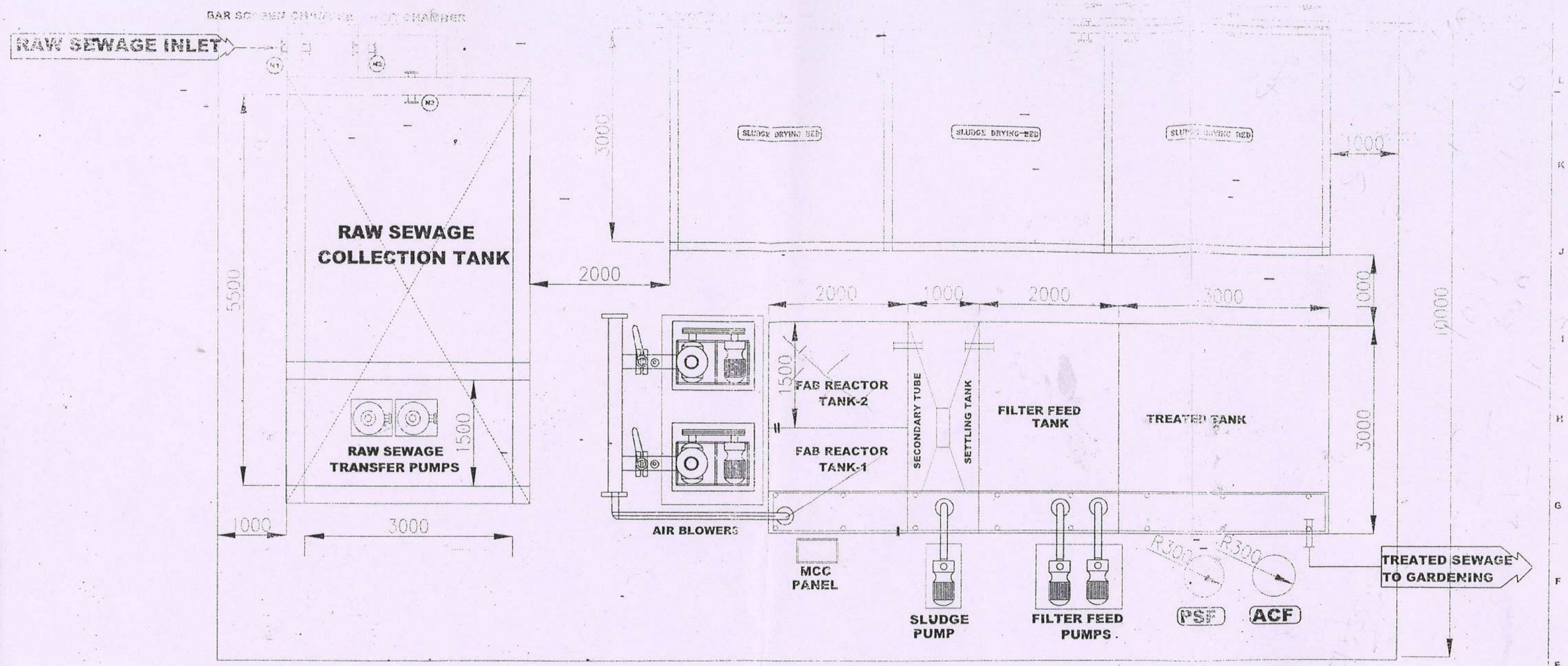
Annexure - Z



EQUIPMENT SCHEDULE

Sl.No.	NAME OF THE UNIT	SIZES
1.	BAR SCREEN CHAMBER	0.8m x 0.6m x 0.8 m (TD)
2.	RAW SEWAGE COLLECTION TANK	5.5m x 3.0m x 3.5 m (TD)
3.	BIO REACTOR TANK	2 X 2.0 m x 1.5mx 3.1m(LD)+0.5m(FB)
4..	SECONDARY TUBE SETTLING TANK	3.0 m x 1.0 m x 1.8 m (SWD) + 0.3m(FB)
5.	SLUDGE DRYING BED(3NOS)	3.0m X 1.2m X0.8m (TD)
6.	FILTER FEED TANK	3.0 m x 2.0 m x 3.0 m (LD) + 0.3m (FB)
7.	TREATED WATER TANK	3.0 m x 3.0 m x 3.0 m (LB) + 0.3m (FB)
8.	PRESSURE SAND FILTER	0.6m x1.5m(HOS)
9.	ACTIVATED CARBON FILTER	0.6m x1.8m(HOS)

NOTE :

ALL THE DIMENSIONS ARE IN MM

PROJECT	SEWAGE TREATMENT PLANT 100KLD FLUIDISED BED BIO REACTOR TECHNOLOGY(FBBR)
CLIENT	CENTRAL UNIVERCITY,CPWD THIRUVARUR.

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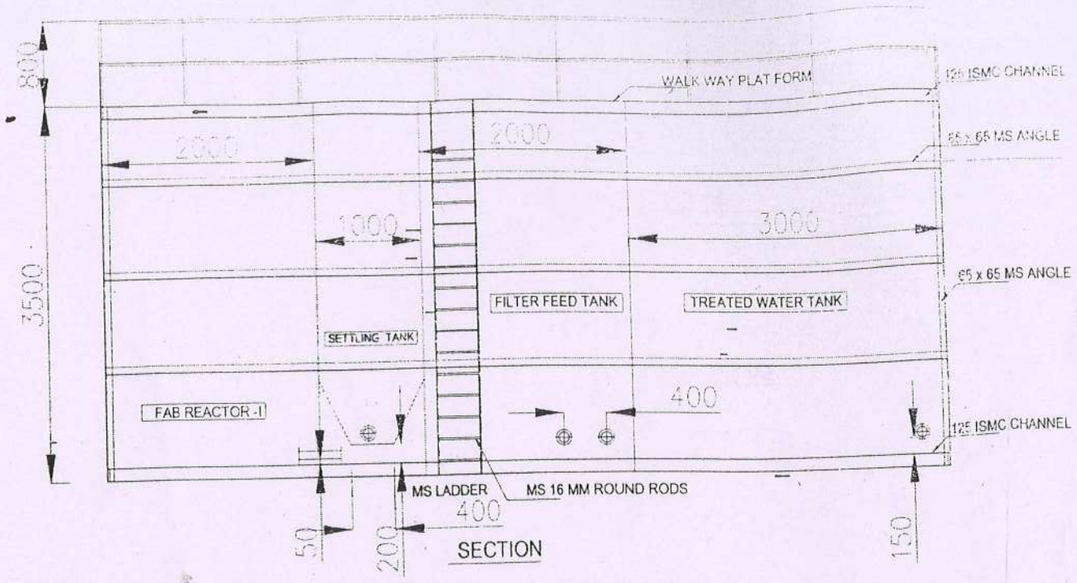

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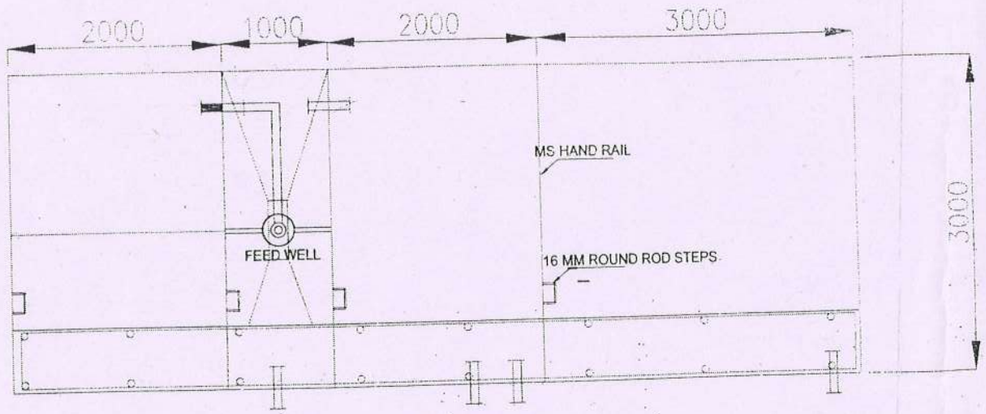
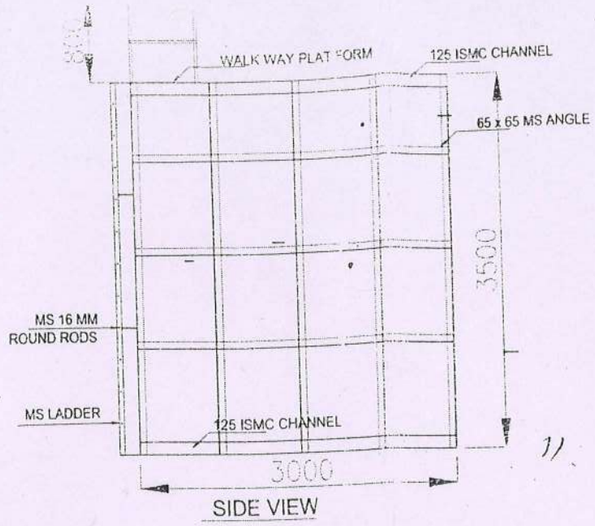


TOP VIEW



SIDE VIEW

NOTE :

ALL THE DIMENSIONS ARE IN MM
BASE PLATE THICKNESS 6MM
SIDE WALLS PLATE THICKNESS 5MM
BASE AND TOP CHANNELS 125 ISMC
STIFFNER ANGLES 65 x 65 STANDARD ANGLES

EQUIPMENT SCHEDULE

Sl.No.	NAME OF THE UNIT	SIZES
1.	BAR SCREEN CHAMBER	0.8m x 0.6m x 0.8 m (TD)
2.	RAW SEWAGE COLLECTION TANK	5.5m x 3.0m x 3.5 m (TD)
3.	BIO REACTOR TANK	2 X 2.0 m x 1.5mx 3.1m(LD)+0.5m(FB)
4.	SECONDARY TUBE SETTLING TANK	3.0 m x 1.0 m x 1.8 m (SWD) + 0.3m(FB)
5.	SLUDGE DRYING BED(3NOS)	3.0m X 1.2m X0.8m (TD)
6.	FILTER FEED TANK	3.0 m x 2.0 m x 3.0 m (LD) + 0.3m (FB)
7.	TREATED WATER TANK	3.0 m x 3.0 m x 3.0 m (LD) + 0.3m (FB)
8.	PRESSURE SAND FILTER	0.6m x1.5m(HOS)
9.	ACTIVATED CARBON FILTER	0.6m x1.6m(HOS)

PROJECT	SEWAGE TREATMENT PLANT 100KLD FLUIDISED BED BIO REACTOR TECHNOLOGY(FBBR)
CLIENT	CENTRAL UNIVERCITY,CPWD THIRUVARUR.

22/07/2022

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