



# Vivekanand Education Society's Institute of Technology

(Affiliated to University of Mumbai, Approved by AICTE & Recognized by Govt. of Maharashtra)

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### 7.1.3.A\_ Relevant documents of agreements for degradable & non-degradable waste by approved agencies

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# Vivekanand Education Society's Institute of Technology

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## Composting pit document

1. (SELF-DECLARATION FORM IN RESPECT OF INSTALLING COMPOSIT PIT/COMPOSING MACHINE/BIO-METHANISATION SYSTEM FOR PROCESSING OF WET WASTE GENERATED AT SITE)

**(TO BE FILLED BY BUILDER/DEVELOPER)**

From: Vivekanand Education Society,  
Chembur.

SUB. : Installation of COMPOSTING PIT/COMPOSING MACHINE/BIO-METHANISATION SYSTEM/any scientific method for wet waste processing at project site. Vermicultural Bin for extension Building No.1 for College Of Architecture and VES I.T. at Plot CTS No.2(pt.), 495(pt.), & 497 (pt.) of Village Wadhavli behind Collector's Colony, Chembur.

With reference to above subject, I, the undersigned Shri Asrani Amarlal .T , Hon.Secretary Of VES.

The Education Trust having office at Plot CTS No.128 A of Village Chembur and declare hereon solemn oath for installation of Composing Pit scientific method which converts wet organic compost for processing as wet waste generated at the above stated project site now as well as after it is occupied.

I state that -

1.	The brief description of the project is : Proposed extension to existing building No.1 of VES I.T. and construction of College of Architecture.	
2.	The details of the building constructed at site are as follows:	
a.	Address with CTS No.	2(pt.), 495(pt.) & 497(pt.) of Village Wadhavli.
b.	No.of Buildings constructed on site:	1 No. with 2 nos. extension wings.
c.	No.of Flats [household]	Each wing: Stilt + 7 upper floors.
d.	No. of Commercial establishment::	Nil.
e.	Total Plot Area :	19667.7 <sup>M<sup>2</sup></sup>

3. As per the conditions stated in the IOD under section C, General Conditions to be complied before OC, about the wet waste processing system , I, hereby undertake to construct/install and operate forever vermin composting pit organic waste converter or any scientific treatment method which converts wet organic waste generated by the occupier/successor into organic compost.
4. The space/plot measuring 2.0 M.x 1.0 M. x 0.9 M.x 2 nos.(one for each wing) is reserved for wet waste processing system at above project site.
5. The space/plot allotted for construction/installation of wet waste processing as per details below:
- |    |                    |   |                            |
|----|--------------------|---|----------------------------|
| a. | Composit pit       | : | Size 2.0 x 1.0 M. x 0.9 M. |
| b. | Compost machine    | : | Make : N.A.                |
|    |                    | : | Capacity : N.A.            |
| c. | Bio gas processing | : | Make : N.A.                |
|    |                    | : | Capacity : N.A.            |



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## STP Document



Avion Environment  
Pvt. Ltd.

### CERTIFICATE

Ref. No.: AEPL/VES/001/2019

#### TO WHOMSOEVER IT MAY CONCERN

This is to certify that the Sewage Treatment Plant (STP) in the project of M/s. Vivekananda Education Society's located at RC Marg, Sindhi Society, Chembur East, Mumbai is completed in all respects. The STP comprising of advance technologies like Moving Bed Bioreactor (MBBR) followed by Secondary Settler with Tertiary Filtration system is commissioned & ready for operation. The STP capacity is of 200 m<sup>3</sup>/day for the above mentioned buildings which is sufficient for entire input quantity. The treated sewage water can now be reused for all secondary purpose or disposed off suitably.

M/s Avion Environment Pvt. Ltd.

*J. Blumer*

Authorized Signatory

Place: Mumbai

Date: 30/01/2019

CIN No. : U74120MH2012PTC232958

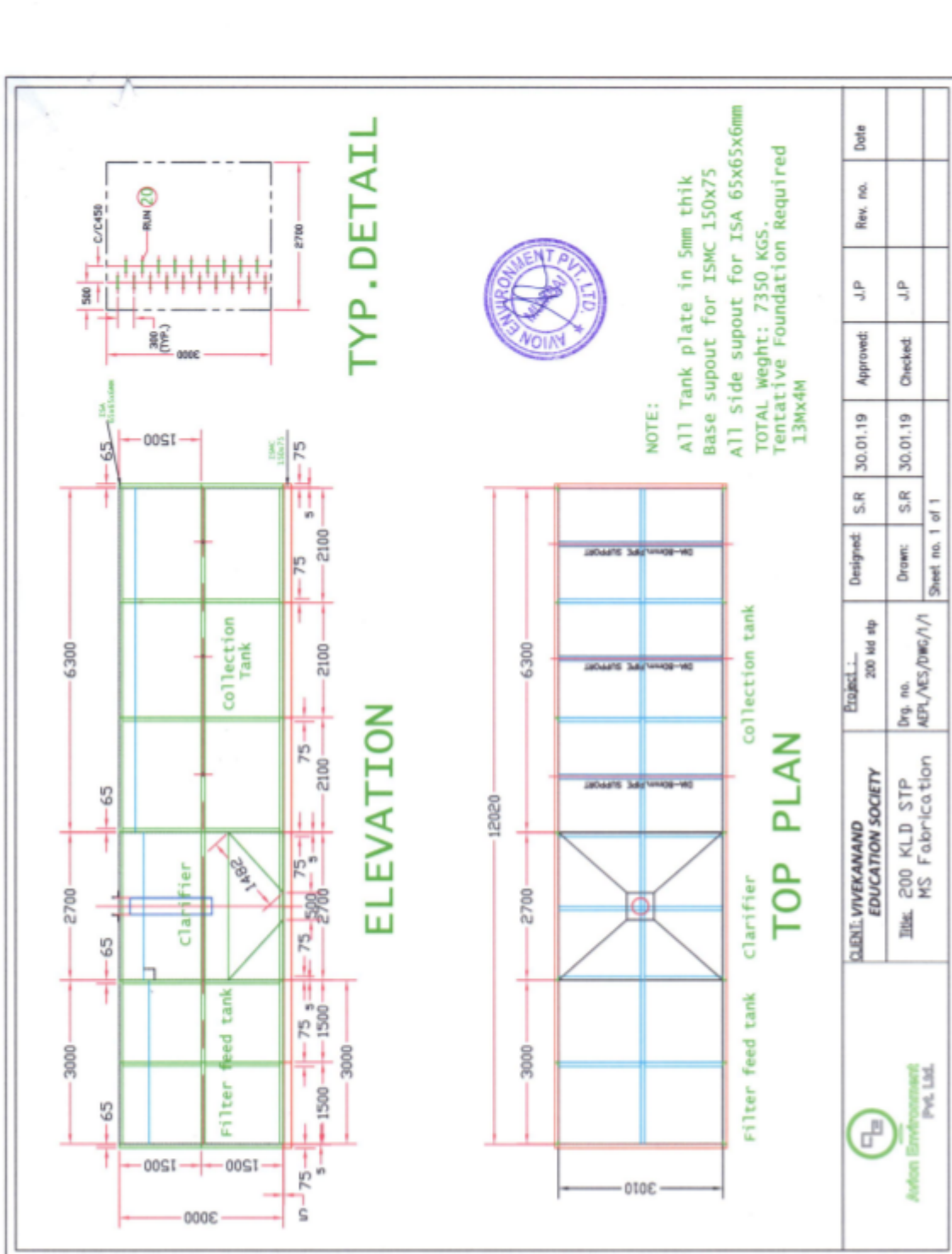
Gala No. 36, Shanta Industrial Estate, I. B. Patel Road, Goregaon (East), Mumbai - 400 063, India.

T : 022-6522 1100 / 8800, 022-2686 8885 / 6 | W : www.avionrosystems.com | E : info@avionrosystems.com 33



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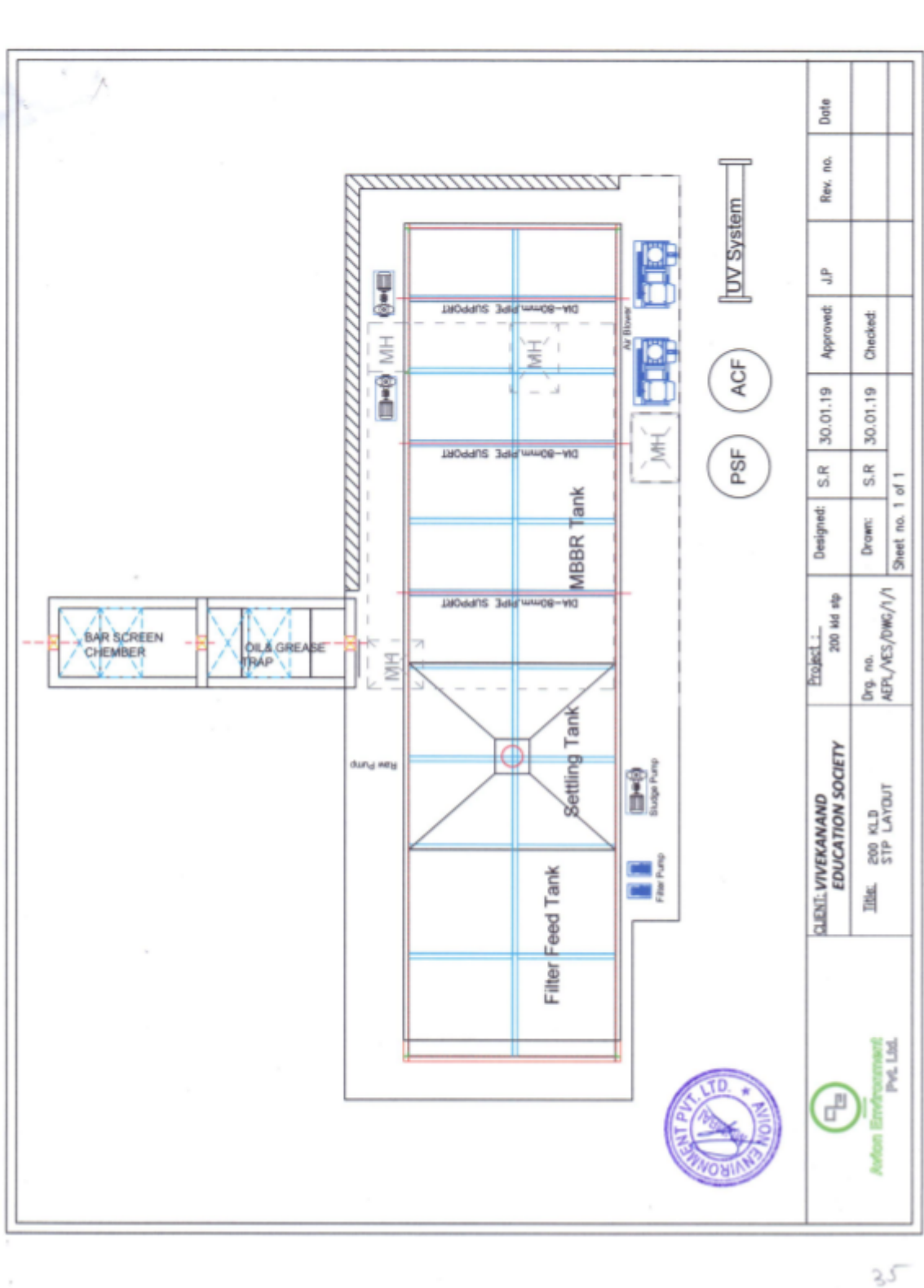
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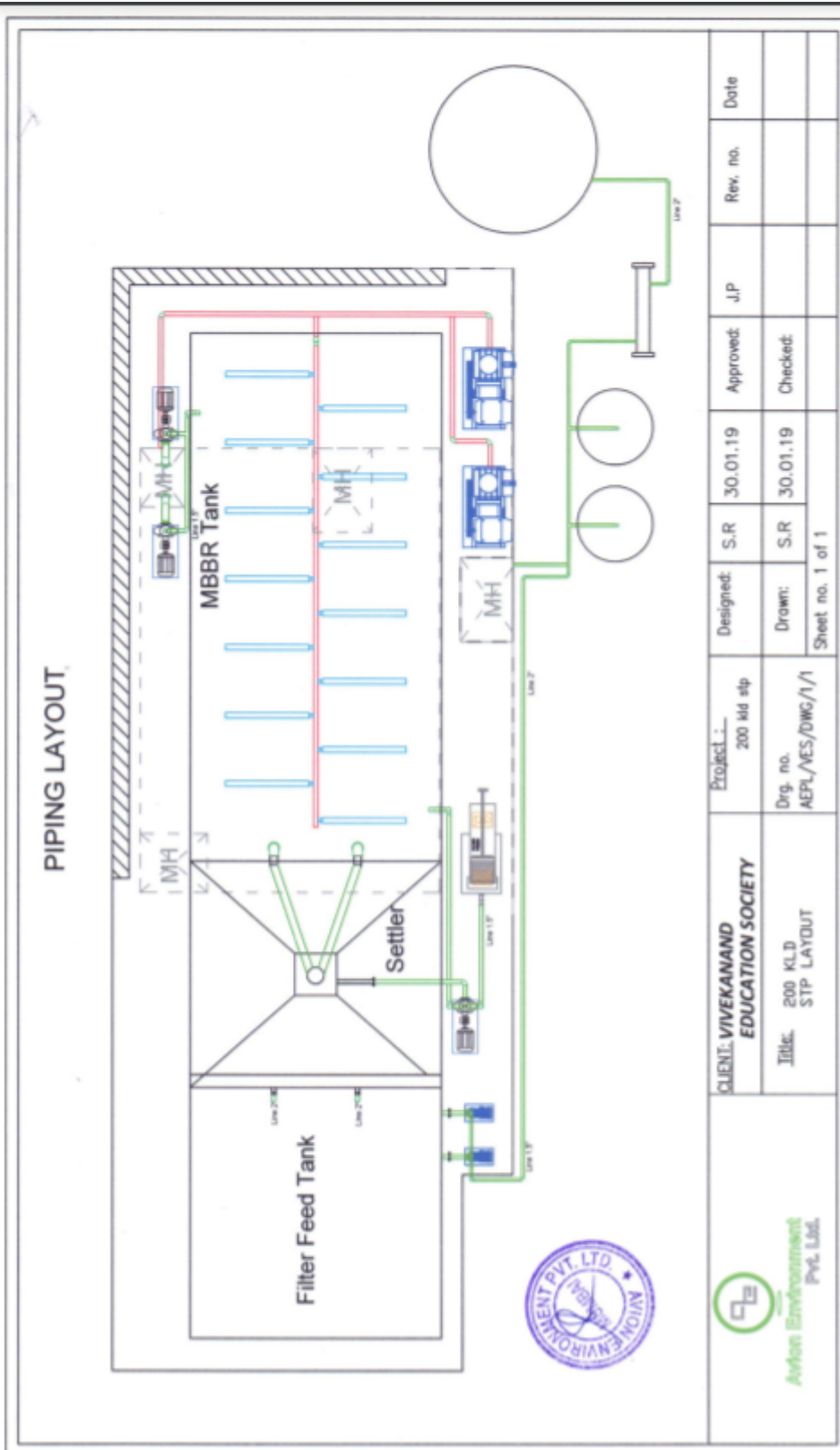


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<b>CLIENT: VIVEKANAND EDUCATION SOCIETY</b>  <b>Title: 200 KLD STP LAYOUT</b>	<b>Project:</b> 200 kld stp	<b>Designed:</b> S.R	<b>S.R</b>	<b>30.01.19</b>	<b>Approved:</b> J.P	<b>Rev. no.</b>	<b>Date</b>
	<b>Drng. no.</b> AEPL/VES/DWG/1/1	<b>Drawn:</b> S.R	<b>S.R</b>	<b>30.01.19</b>	<b>Checked:</b>		
Sheet no. 1 of 1							



**Ardon Environment  
Pvt. Ltd.**



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- Sand Carbon & Micron Filters
- Softner & D. M. Plants
- Ultra Filtration & R. O. Plants
- Water Cooler
- U-V Purifiers
- Swimming Pool Treatment
- Rain Harvesting
- ETP / STP Water Recycling
- Mineral Water Project
- Service Contract (D & M, AMC)



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## STANDARD DESIGN DOCUMENT (SDD) FOR SEWAGE TREATMENT PLANT (STP) Capacity: - 200 KLD

Client

*M/s Vivekananda Education Society's  
At -Chembur*

By

**Avion Environment Pvt. Ltd.**

**Office Address and Contact Details**

Gala No. 36, Shanta Industrial Estate, I. B. Patel Road, Goregaon (E), Mumbai - 4000 63, India

Tel: +91-22-26868885 / 6 Mobile: +91-8655126600 / 8800

E-mail: [jayesh@avionrosystems.com](mailto:jayesh@avionrosystems.com)



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- Sand Carbon & Micron Filters
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- Mineral Water Project
- Service Contract (O & M, AMC)



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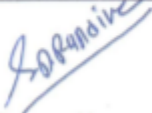


The Standard Design Document (SDD) is prepared for

M/s. Vivekananda Education Society.

Chembur

The Sewage Treatment Plant is designed by M/s Avion Environment Pvt. Ltd,

Gala No. 36, Shanta Industrial Estate, I. B. Patel, Road, Goregaon (East)

 Prepared by	 Checked by	For Avion Environment Pvt. Ltd  Authorized Signatory
----------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------





# Vivekanand Education Society's Institute of Technology

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- Sand Carbon & Micron Filters
- Swimming Pool Treatment
- Softner & D. M. Plants
- Rain Harvesting
- Ultra Filtration & R. O. Plants
- ETP / STP Water Recycling
- Water Ozonator
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- Service Contract (O & M, AMC)



## Calculation of capacity Sewage treatment plant.

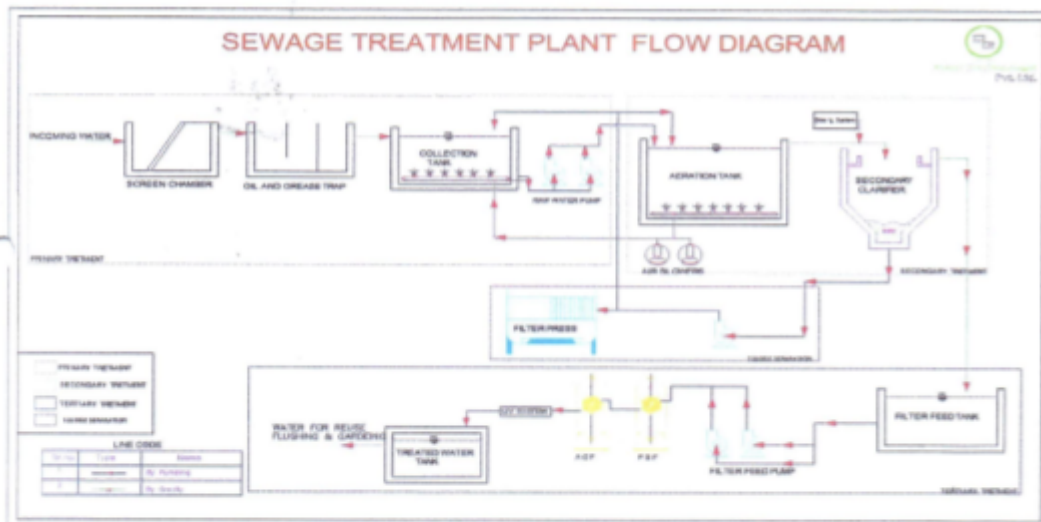
Capacity of STP required = 200 KLD

## Redesign of STP

### Design Parameters

Parameters	Inlet	Outlet
pH	6-7.5	6-7.5
COD	550-600 ppm	Less Than 50 ppm
BOD	300 ppm	30 ppm
TSS	250-300 ppm	Less than 10 ppm
TDS	200-250 ppm	200-250 ppm

### Process flow:





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## Treatment Scheme

The sewage shall be treated in three stages:

### Primary treatment:

Sewage is received in Bar Screen chamber where coarse screen is placed to prevent inorganic coarse solids and debris from entering the tank and prevent clogging of pipes and equipment. Solids like Plastic bags, bottles, Bottle Cap etc. are trapped and removed manually. Bar screen chamber Overflow to Oil & Grease Trap where oil removed manually. O&G trap overflow to the collection cum Equalization Tank. Coarse bubble diffuser will be provided for Equalization tanks to mix the wastewater. The sewage from the equalization Tank will be submersible pumped to MBBR Tank.

### Secondary treatment:

The MBBR tank has a combination of suspended and attached growth biological mass. Random floating media is used to facilitate the attached growth. The biomass degrades the dissolved organic matter (BOD/ COD) using aerobic process. The mixing and Oxygen transfer in the bio reactor is provided through fine bubble diffusers using air blower. The MLSS from the MBBR tank overflows to the Hopper bottom Secondary settling tank provided to tube media increase the surface loading rate. Here the bio-solids settles down and gets separated from the sewage. The settled biomass will be recycled back to the MBBR Tank for maintaining the MLVSS concentration. Excess biomass shall be taken to Sludge collection tank. The clear supernatant of the Settling Tank shall overflow to an Intermediate Tank for tertiary treatment.

### Tertiary treatment:

This biologically treated sewage from intermediate tank shall be pumped through a pressure sand filter (PSF) for removing any fine solids escaping the secondary settling tank & then through Activated Carbon filter for removal of odor & color. An inline dose of NaOCl shall be given for disinfection. The final treated water shall be collected in the final treated water tank.

Treated water from the final tank shall be partly used for filter backwash and major quantity may be used for gardening or floor washing/ flushing purpose or overflow to drainage / disposal system.



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#### Pressure Sand Filter & Activated Carbon Filter:

The clarified and collected water will be feed through pressure sand filter and activated carbon filter with the help of pump. Pressure sand filter will remove suspended solids and activated carbon filter will remove color and odour from sewage water.

#### UV System:

Filtered water will feed / mix / introduce with UV for the disinfection of the treated sewage water. UV light is generated by the UV tube system.

#### Sludge separation process

The excess / surplus bio-sludge from secondary settler will be taken into sludge will feed to filter press for the filtration.

#### Filter Press

The filter press will separate the sludge (into the tray under periodic cleaning) and lechate will recycle back to collection tank.



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## BOD Load

$$\begin{aligned} \text{BOD load} &= \frac{(\text{Inlet BOD} - \text{Outlet BOD}) \times \text{flow}}{1000} \\ &= \frac{(300 - 10) \times 200}{1000} \\ &= 58 \text{ Kg/Day} \end{aligned}$$

## Oxygen requirement

KG BOD Load X 1 = kgO<sub>2</sub> required = 58 Kg O<sub>2</sub>

Correction factor formula

$$\text{O}_2 \text{ /hrs} = \frac{\text{O}_2 \text{ req} \times \text{Cs} \times \Theta^{(T-20)}}{\alpha (\beta \text{Cw} - \text{Co}) \text{ Hrs (ope)}}$$

Where

O<sub>2</sub> Reg = Kg O<sub>2</sub> required = 58 KgO<sub>2</sub>/ day

C<sub>s</sub> = Saturation of O<sub>2</sub> in ppm = (9.02 ppm)

Θ = (temperature correction factor) (1.024)

T = ambient Temp of water (30 degree C)

α = correction factor for oxygen transfer ( 0.85)

β = salinity – surface tension factor (0.95)

C<sub>w</sub> = waste water saturation connection (7.44 ppm )

C<sub>o</sub> = optimum concentration (2 ppm)

Hrs (ope) = Aeration system operation time per day (24 hrs)

$$= 58 \times 9.02 \times 1.024^{(30-20)}$$

$$0.85 ( 0.95 \times 7.44 - 2) \times 24$$

**= 4.82 kg/hrs oxygen requirement for BOD reduction**



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## Sizing of the tank (Design Basis)

### Aeration tank sizing

QD = 200 KLD  
BOD Load For MBBR =  $5.8 \text{ Kg/m}^3$   
Actual BOD =  $300 \text{ g/m}^3$   
Tank depth = 3m  
RT = 6 hrs/ day (Assume)

We provide volume of MBBR tank as  $5 \times 3.5 \times 3 = 52.5 \text{ m}^3$

### Secondary settler sizing

Design on  $28 \text{ m}^2/\text{m}^3$  /day of overflow rate

We provide Surface area  $2.7 \times 2.7 = 7.29 \text{ m}^2$  (Equal to  $200/30 = 7.14 \text{ m}^2$ )

### Collection tank sizing

Design on 6-8 hrs of RT

We provide volume of Collection tank as  $6.7 \times 3 \times 2.5 = 50.25 \text{ m}^3$  (more than  $200/24 \times 6 = 49.98 \text{ m}^3$ )

### Filter Feed Tank

Design on 2-4 hrs of RT

We provide volume of Filter feed tank as  $3 \times 2.5 \times 2.5 = 18.75 \text{ m}^3$  (more than  $200/24 \times 2 = 16.66 \text{ m}^3$ )



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## Fume hood (PO & Invoice)

Sr.No.	Description of Item & Specification / Marks	Opening Stock	Quantity	Rate (Rs.)	Amount (Value) Approx.	Required Delivery / Schedule of Delivery	Remarks / Suppliers to be Contacted
1	FUME HOODS ALONG WITH SCRUBBING SYSTEM	0.00	1.00 NOS	0.00	0.00		FOR CHEMBSTREY LAB 503  <i>Received</i>

Department : GENERAL DEPARTMENT Lab : GEN503	INDENT REQUIREMENTS FIXED ASSET / CONSUMEABLES / MISC	Ref. No : GEN/18024 Date : 29/09/2018	Signature and Name of Indentor <i>[Signature]</i> SWATI NAIK	(Sanctioning Authority) <i>[Signature]</i> Received by Purchase Officer & Date
-------------------------------------------------	----------------------------------------------------------	------------------------------------------	--------------------------------------------------------------------	--------------------------------------------------------------------------------------

V.E.S. INSTITUTE OF TECHNOLOGY  
Hachhu Advani Memorial Complex, collector Colony, B.C. Marg, Chembur, Mumbai-400074



# Vivekanand Education Society's Institute of Technology

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**V.E.S. INSTITUTE OF TECHNOLOGY**  
Hashu Advani Memorial Complex, collector Colony, R.C. Marg, chembur, Mumbai-400074

P.O No. PO/3611/18-19 Date 28/02/2019  
Indent No. GEN/18024  
To, CITIZEN INDUSTRIES  
57, G.I.D.C Estate,  
Ph. II,  
Naroda,  
Ahmedabad 382330  
Attn : / (O)+91-22-28540824/26/28/29/31 / (M)+91-9099933108  
Sub : Fume Hood with Blower System for Chemistry Lab 503 - General Dept. (GST No. 27AAATV2239C1ZP)  
Sirs,

WITH REFERENCE AS PER ATTACHED & SUBSEQUENT DISCUSSION WITH THE UNDERSIGNED, WE ARE PLEASED TO PLACE OUR PURCHASE ORDER FOR THE FOLLOWING ITEMS AS PER TERMS & CONDITIONS MENTIONED HEREWITH.

SrNo	Description	Quantity	Rate	Amount
01	Const. Bypass type Bench Fume Hood (Size:1200 X D915 X H2300mm) Consisting of Following: Fume Hood Superstructure, Fume Hood Worktop, Service Valves, Electrical Fittings, Fume Hood Understructure, Fume Hood Under-Cabinet & Accessories	1.00 NOS	121,790.00	121,790.00 ✓
02	Exhaust Fan (315mm Dia) - 01 fan for 01nos Fume Hood - Single piece molded UV treated chemical resistant SISW direct driven centrifugal fan in PP construction with suitable stand in MS powder coated construction, CFM 480 to 500. Contd...	1.00 NOS	53,210.00	53,210.00 ✓
03	- Corrosive resistant PP Impeller with extra strength,high efficiency,properties which produces lower noise & power consumption. - Drive -0.75 HP,1400RPM,415V,50Hz.,TEFC Class B insulation induction motor with IP55 enclosure,in Non-FLP const. Contd...	1.00 NOS	0.00	0.00
04	- 16A, 3Ph MCB for Fan - Legrand or eq. Make - DOL Starter for Motor	1.00 NOS	0.00	0.00
TAX : (+) 31,500.00				
Total :				206,500.00

Total value of the order Rs. TWO LAKHS SIX THOUSAND FIVE HUNDRED ONLY

*[Signatures]*





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**V.E.S. INSTITUTE OF TECHNOLOGY**  
Hasbu Advani Memorial Complex, collector Colony, R.c. Marg, chembur, Mumbai-400074

Date : 28/02/2019

P.O No. PO0611/18-19  
Indent No. GEN/18024  
To, CITIZEN INDUSTRIES  
57, G.I.D.C Estate,  
PS. II,  
Naroda, 382330  
Ahmedabad

Attn : /(O)+91-22-28540824/26/28/29/31 / (M)+91-9099933108

Sub : Fume Hood with Blower System for Chemistry Lab 503 - General Dept. (GST No. 27AAATV2229C1ZD)

Sirs,

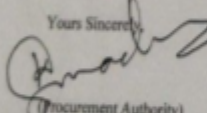
WITH REFERENCE AS PER ATTACHED & SUBSEQUENT DISCUSSION WITH THE UNDERSIGNED, WE ARE PLEASED TO PLACE OUR PURCHASE ORDER FOR THE FOLLOWING ITEMS AS PER TERMS & CONDITIONS MENTIONED HEREWITH.

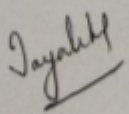
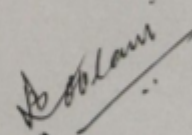
SlNo	Description	Quantity	Rate	Amount
------	-------------	----------	------	--------

**Terms and Conditions :**

1. Taxes : : GST 18% Calculated as above
2. Discount : : Negotiated
3. Delivery : : Immediate
4. Packing & Forwarding : : Inclusive
5. Freight & Transportation : : Inclusive
6. Dispatch : : To deliver at our Institute premises
7. Warranty : : 1yr from the date of delivery / installation
8. Payment : : By cheque, 10% advance, 50% against proforma invoice & 40% after installation, Training Free
9. Validity : : Days from the date of the purchase order
10. Jurisdiction : : All Transaction are subject to Mumbai court only
11. Note1 : : As per attached indent and quotation
12. Note2 : : Supply of exhaust ducting in PP/FRP (Round Shape) construction (100x200) complete with necessary bends, reducers, T-Connections, supports, flanges, gaskets, nutsbolts etc. (Rs.3000 per sqmtr) & Installation (Rs.500 per sqmtr) at actual & 18% GST extra.

Kindly make immediate arrangement to supply the above material. Please enclose a copy of this P.O. along with Invoice & Delivery Challan for prompt processing of the same.

Thanking You,  
Yours Sincerely,  
  
(Procurement Authority)

Authorised By-  
  




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**TAX INVOICE** (ORIGINAL FOR RECIPIENT)  
(As per section 31(1) of CGST Act 2017 & Rule 46 of CGST Rules)

<b>Industries</b> S.T. Phase - II, Estate, Naroda, Road-382330  UIN: 24AAVPM5024D1ZB State: Gujarat, Code: 24 Sales@citizenindia.com Name / Shipped To <b>Institute of Technology</b> Advani Memorial Complex, Collector R.C Marg, Chembur (East), Mumbai - 400 074. TIN/UIN : 27AAATV2239C1ZP State Name : Maharashtra, Code : 27 Billed To (if other than consignee) <b>Institute of Technology</b> Advani Memorial Complex, Collector R.C Marg, Chembur (East), Mumbai - 400 074. TIN/UIN : 27AAATV2239C1ZP State Name : Maharashtra, Code : 27 Mode of Supply : Maharashtra	Invoice No. <b>M/009/19-20</b> Dated <b>15-Apr-2019</b> Delivery Note <b>M/009/19-20</b> Delivery Note Date <b>15-Apr-2019</b> Supplier's Ref. <b>PO/3611/18-19</b> Remarks <b>JOB NO. 5105</b> Buyer's Order No. <b>28-Feb-2019</b> Despatched through <b>RAHUL CARGO MOVERS</b> E Way Bill No. <b>671695695116</b> Bill of Lading / LR - RR No. <b>918</b> Bill of Lading / LR - RR Date <b>15-04-2019</b> Vehicle No. <b>GJ-23-AT-1145</b> Packing Type <b>Loose in SKD Condition Packed in Plastic Corrugated Roll &amp; Boxes.</b>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
1. Ventilating / Recirculation Hood Fume Hoods Constant Speed Type Bench/Fume Hood Size: L 1200 X D 915 X H 2300mm	8414	1.00 No.	1,21,790.00	No.	1,21,790.00
2. Exhaust Fads for Fume Hood Exhaust Fan (315mm Dia) Capacity: 480 - 500 CFM	8414	1.00 No.	53,210.00	No.	53,210.00
<b>IGST Output @ 18%</b>					<b>1,75,000.00</b>
<b>Total</b>					<b>2,06,500.00</b>

*Chemistry Lab*  
**VESIT**  
 G R R. No. **FN/1112/1A-B**  
 G R N. No. **1611**  
*Received by M.B. Wani & Date: 02/5/19.*

**Total** **2,06,500.00**  
 Indian Rupees Two Lakh Six Thousand Five Hundred Only  
 Payment Terms : 10% Advance, 50% Against Proforma, 40% Inst.

HSN/SAC	Taxable Value	Rate	Integrated Tax Amount	Total Tax Amount
8414	1,75,000.00	18%	31,500.00	31,500.00
<b>Total</b>			<b>31,500.00</b>	<b>31,500.00</b>

**Tax Amount (in words) : Indian Rupees Thirty One Thousand Five Hundred Only**

Company's PAN : <b>AAVPM5024D</b>	Date & Time : <b>15-Apr-2019 at 14:36</b>
Declaration We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.	
Terms & Condition : Issued @ 18% will be charged on unpaid balance after due date.	
Customer's Seal and Signature	Company's Bank Details Bank Name : <b>Kotak Mahindra Bank</b> A/c No. : <b>5411814888</b> Branch & IFS Code : <b>Chandan House, Ahmedabad &amp; BKSK0000612</b>

SUBJECT TO AHMEDABAD JURISDICTION  
This is a Computer Generated Invoice

*Received*  
*M.B. Wani*  
*20/4/19.*

Works: 57, Phase II, G.I.D.C. Estate, Naroda, Ahmedabad - 382 330. (India). Phone: +91-79-2281 3130, 2280 2673 Fax: +91-79-2280 2672  
 Email: unit2@citizenindia.com • www.citizenindia.com