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INDEX

7.1.3. Describe the facilities in the Institution for the management of the following types of degradable and non-degradable waste (2022-23)

- 1. Solid waste management-Yes
- 2. Liquid waste management Yes
- 3. E-waste management Yes
- 4. Waste recycling system Yes
- 5. Hazardous chemicals and radioactive waste management Yes

Sr. No.	Contents	
1	Solid waste management: Installation of Compost pit document	
2	Annual report of SoRT activities 2022-23 (Waste Management Activities)	
3	Liquid waste management and recycling: Sewage Treatment Plant installation document	
4	E-waste management: E-scrap details (2022-2023)	
5	Hazardous chemicals and radioactive waste management -Fume Hood installation document s and photographs	36



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Dr. (Mrs.) J. M. Nair M. Tech., Ph.D. (IIT-B) Principal

Ref. No.: VESIT/ JMN 1325 2023-24

Date: 26/10/2023

TO WHOM SO IT MAY CONCERN

I, Dr. (Mrs.) Jayalekshmi M Nair, Principal (HOI), Vivekanand Education Society's Institute of Technology, do hereby state that the documents uploaded on NAAC portal are duly signed by Principal (HOI).

The additional documents uploaded on Institute's website (<u>https://vesit.ves.ac.in/</u>) are also authentic and does not need any extra validation.

Dayaliks

Dr. (Mrs) Jayalekshmi M Nair Principal Vivekanand Education Society's Institute of Technology Hashu Advani Memorial Complex, Collector's Colony Chembur, Mumbai, Maharashtra 400074





1.

Vivekanand Education Society's Institute of Technology

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(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 co	instructed 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.		
с.	No.of Flats [Household]	Each wing: Stilt + 7 upper floors.		
d.	No. of Commercial establishments:	Nil.		
e.	Total Plot Area :	19667.7 ^{M2}		

- 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.
- 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.
- 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.
с.	Bio gas processing	:	Make	:	N.A.
		:	Capacity	:	N.A.





Figure- Compost pit installation at VESIT



Figure- Compost pit installation at VESIT (Front view)



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• SoRT activity report related to Waste Management (2022-23):



Report on

Cleanrific-Plastic Donation Drive

"The Plastic of today Can become the habitat of tomorrow"

Organized By

Social Responsibility Team (SoRT) - VESIT

In Association with

Point To be Addressed	Description		
Academic Year	2022-23		
Date(s) of the Event	15/09/2022 and 16/09/2022		
Duration Of the Event (Number Of hours)	10 hours		
Name and details of the Speaker			



About The Program	From 15th September to 16th September 2022 a social awareness activity, the Cleanrific-Plastic donation drive was organized. It was a two-day event.
Program Type:	Workshop
Program Theme: IPR/R&D and Innovation/Entrepreneurship/Startup/Desig n thinking and critical thinking/Incubation and pre Incubation (Choose One)	Donation and charity work
Objective Of The Program	The objective is to spread awareness among the students about the harmful effects of plastic on the environment, as well as to collect plastic and send it for recycling.
Outcomes of the event	We received a hugely positive response. Many staff members, faculties, and students donated plastic. A huge amount of plastic was collected which was further sent to recycling centers.
Total participation :-	a. Number of Student Participants=256 b. Number of Faculty Participants=8
No of external participants (if any)	
Expenditure Amount (if any)	
Promotion in Social Media	Links For Social Media Twitter: Facebook: Instagram:https://www.instagram.com/p/ CiiHfxRv_vs/?igshid=YmMyMTA2M2Y=
YouTube URL (For full video or 5 minutes video on YouTube)	



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Poster for the Event/Activity



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Detailed Report

From 15th September to 16th September 2022 a social awareness activity, the Cleanrific-Plastic donation drive was organized. It was a two-day event.

It started in the morning at around 10 am on both days. Announcements were done a day or two before the event.

We received a hugely positive response. Many staff members, faculties, and students donated plastic. A huge amount of plastic was collected which was further sent to recycling centers. On the last day, the Music council did a band performance which exhilarated the spirits of the students. A lot of thanks to them too. We are glad for the support and participation received from everyone!

Cheers to this grand successful activity which was possible only because of the support and love.

Geotagged Photographs



Prepared By: Aniket Ratha SoRT faculty incharges Mrs. Manisha Joshi Mrs. Manisha Tiwary



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Report on

<u>Beach cleanup drive</u>

Organized By

Social Responsibility Team (SoRT) - VESIT In Association with

Point To be Addressed	Description	
Academic Year	2022-23	
Date(s) of the Event	25/02/2023	
Duration Of the Event	3 hours	
Name and details of the Speaker		
About The Program	The students of VESIT were invited for a beach cleanup program at Dadar chowpatty.	
Program Type: Workshop/Leadership talk/Motivational Speech/Field visit/Seminar or case study/Exhibition or Demo day/Contest/FDP/Conference/Techfest on Innovation (Choose One)	workshop	



Program Theme: IPR/R&D and Innovation/Entrepreneurship/Startup/Desig n thinking and critical thinking/Incubation and pre Incubation (Choose One)	Spreading awareness and social work		
Objective Of The Program	The main objective of the program was to spread awareness amongst the people to keep the beaches clean and also do the part of cleaning the beaches as much as possible.		
Outcomes of the event (In terms of learning /Skill / Knowledge obtained)	Students and faculties came in large numbers with groups to join the SORT VESIT in this noble work and for a noble cause		
Total participation :-	a. Number of Student Participants=60 b. Number of Faculty Participants=03		
No of external participants (if any)			
Expenditure Amount (if any)			
Promotion in Social Media	Links For Social Media Twitter: Facebook: Instagram:https://www.instagram.com/ree I/CpHon8Tg9uB/?igshid=YmMyMTA2M2 Y=		
YouTube URL (For full video or 5 minutes video on YouTube)			



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Detailed Report

On 25th february 2023, Saturday the students and faculties of VESIT were given a chance to be a part of a noble work with SORT VESIT to clean the beach of Dadar chowpatty which is getting polluted day by day and is a growing concern for the people living nearby and also harm for the aquatic life. The students and faculties were called at chowpatty at 8:00 am sharp. The cleanup started at 8:30am and was conducted till 11:30 am. Faculties of VESIT too joined the cleanup, the faculties present there were - Mrs.Manisha tiwari, Mrs.Pooja Kundu, Mr.Ajinkya Valanjoo. The students and faculties were provided with breakfast after the cleanup.



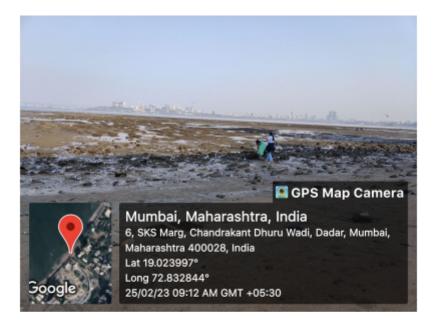
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Geotagged Photographs



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Attendance

Total participants : 60 Total faculty participants : 03

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Vivekanand Education Society's Institute of Technology, Chembur



Unnat Bharat Abhiyan (2022-23)

Bio Toilet: An Ecological Initiative

VESIT got a grant of Rs.50,000 for "Bio Toilet: An Ecological Initiative " in October 2022 for village (5505), The Location for this project is given by the village. The model is designed. Installation of the project will be completed by July 2023.



Cite selection of E-toilet

Objective of project proposal

- The aim of the design is to convert human waste (urine and faces) into solid fertilizer and soil conditioner that can be used by village people for agricultural purposes or sold to companies for an additional source of revenue.
- The aim of the design is to recycle water for flush.
- This should also be implemented in a cost effective, reliable, efficient and safe manner.



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- The size of the toilet should be moderate and should be easy to install at public places.
- The maintenance of the toilet should be cheap and easily doable by everyone. Steps to be taken to complete project:
 - Design of e-toilet on paper is completed.
 - Purchasing of components is completed.
 - Filter designing is completed.
 - Cite location is finalized.
- For reference, proof of the received grant is attached.

https://drive.google.com/file/d/15b4ihiZnPXSJurR32F29IDrfwR8_4wc4/view?usp=shari ng

Faculty incharges:

- 1. Dr. Manoj Sabnis,
- 2. Mr.Shobhit K.

UBA Co-ordinator:

<u>Mrs Manisha</u> Joshi

Students involved:

- 1. Amay Parab
- Teias Khedkar
- Aadarsh Dubey
- 4. Swannika Singh
- 5. Pranav Sukali
- Shobhit Baiguru,
- 7. Aniket Batha
- 8. Siddhesh Shirshivkar
- Yash Banne
- Workdone till now:
 - 1. Design is ready.
 - 2. Components are purchased.
 - 3. Location of project is finalized.
 - 4. Installation is going on.



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Avion Environment

CERTIFICATE

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

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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 m3/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.

Blurmen

Authorized Signatory

Place: Mumbai

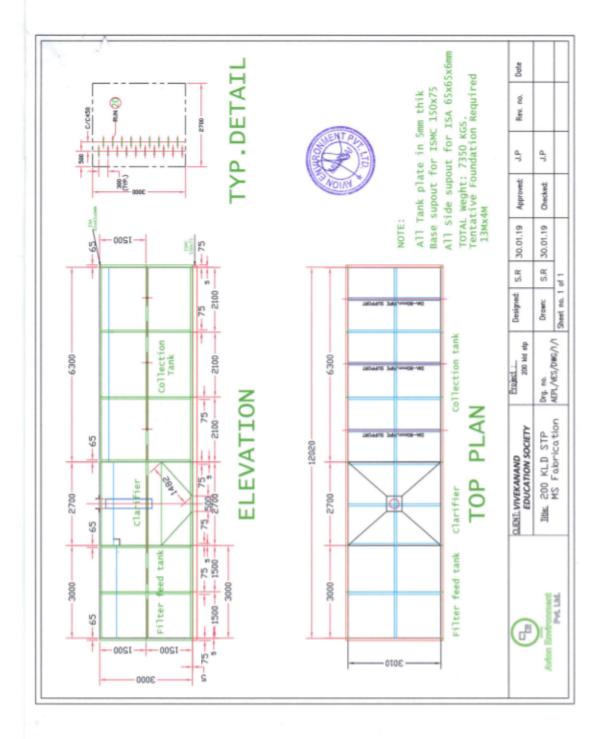
Date: 30/01/2019

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 I W : www.avionrosystems.com I E : info@avionrosystems.com 33

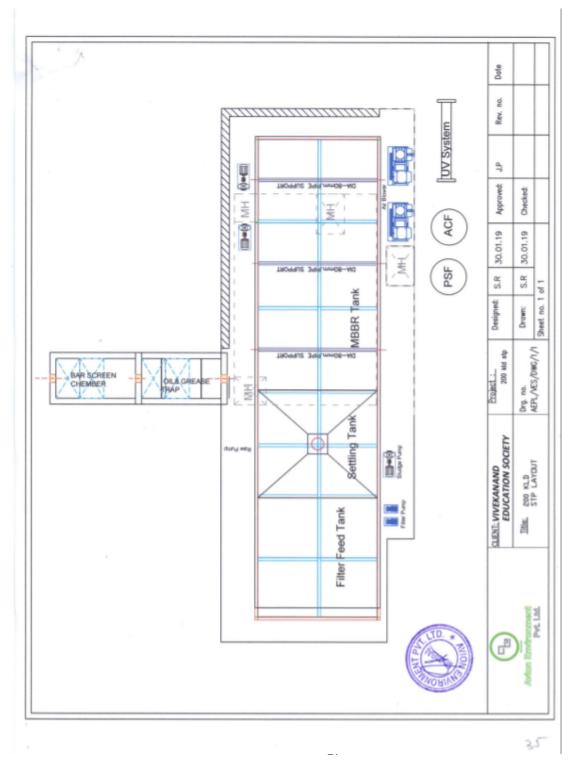


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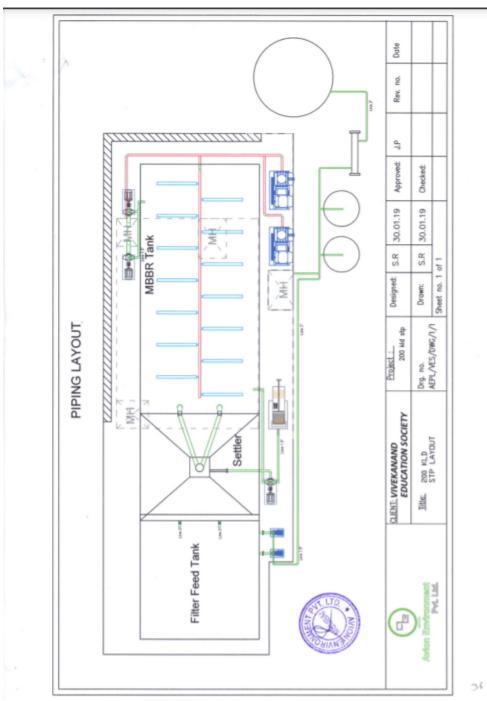


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Swach

Sand Carbon & Micron Filters
 Micron Filters



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

Gala No. 36, Shanta Industrial Estate, I. B. Patel, Road, Goregaon (East) Mumbai - 400 063. India T.: 022-26868885 / 06, Web www.avionrosystems.com E-mail: <u>lavesh@avionrosystems.com</u>



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Swach'

Sand Carbon & Micros Filters
 Solver size AL Martine
 Solver size AL Martine
 Utra Filteration & R. O. Plonts
 Utra Filteration & R. O. Plonts
 Utra Filteration & R. Weiner Mittaire Recycling
 Whiter Consenser
 When Constraint Project
 U-Y Purifiers
 Service Contract (O & M, ANC)



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Secondary settler sizing7
Collection tank sizing
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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)

Loganoive For Avion Environment Pvt. Ltd Prepared by Checked by Authorized Signa

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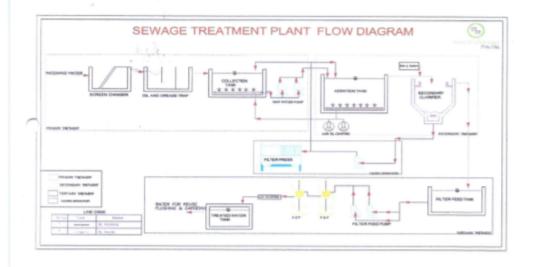
Capacity of STP required = 200 KLD

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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swach

Sand Carbon & Micron Filters
 Schurd Ravestring Pool Treatment
 Schurd Ravestring
 Utra Filteration & R. O. Plants
 Utra Filteration & R. O. Plants
 Utra Filteration & R. O. Plants
 Utra Filteration
 Schurd Ravestring
 User Constant (0 & M, AMC)
 Schurd Ravestring Schurd Ravestring



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 NaOCI 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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swach

Sand Carbon & Mitcran Filters
 Solvensing Pool Treatment
 Selven 2.0.14 Plants
 Rain Rarwading
 Uhra Filterandon & R. P. O. Plants
 Wather Oresenter
 Wather Oresenter
 Wather Oresenter
 Service Contract(0.6.31, AMC)



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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Swach	Softner & D. H. Plants	Rers # Swinning Pool Traitment # Rain Horwening: # ETP / STP Water Recycling # Mieeral Water Project # Service Contract (0 & M, ANC)		ion Enviro P Purest water for	vt. Ltd.
BOD Load BOD load	= (Inlet	BOD-Outlet BOD) X flow	· · ·		
		1000			
	(300-10) 200				
	1000				
= 5	58 Kg/Day				
Oxygen req	uirement				
KG BOD Load X	1 = kgO2 required	= 58 Kg O2			
Correction fact	or formula				
0 2 /hrs =	O2 req	Cs $\Theta^{(T-20)}$			
	α (β	Cw-Co) Hrs (ope)			
Where					
O2 Reg = Kg O2	2 required = 58 KgO	2/ day			
Cs = Saturation	of O2 in ppm = (9.	02 ppm)			
⊖ = (temperatu	ure correction facto	or) (1.024)			
T = ambient Te	mp of water (30 de	gree C)			
α = correction	factor for oxygen t	ransfer (0.85)			
β = salinity – su	urface tension facto	or (0.95)			
Cw= waste wat	ter saturation conn	ection (7.44 ppm)			
Co = optimum	concentration (2 p	pm)			
Hrs (ope) = Aer	ration system opera	ation time per day (24 hrs)			
= 58 X 9.02 x 1	.024 ⁽³⁰⁻²⁰⁾				
0.85 (0.95 x 7.	44-2) 24				
= 4.82 kg/hrs o	xygen requiremen	t for BOD reduction			

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Sand Carbon & Micron Filters	Swimming Pool Treatment		
§ Softner & D. M. Plants	Rain Harvesting		Avion Environment
Ultra Fiteration & R. O. Plants	1 ETP / STP Water Recycling		Pvt. Ltd.
Water Ozonater	Mineral Water Project		
	Service Contract (O & M, ABC)		Purest water for healthy life
	Softner & D. M. Plants Utra Fitanation & R. O. Plants Woter Capitaler	Ultra Filteration & R. O. Plants ETP / STP Water Recycling Writer Occurater Mineral Water Project	EstTrer & D. M. Plants Enain Harvesting Utros Fitovation & R. O. Plants ETP / STP Water Recycling Writer Ozseater Mineral Water Project

Sizing of the tank (Design Basis)

Aeration tank sizing

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

We provider volume of MBBR tank as 5 x 3.5 x 3 = 52.5 m³

Secondary settler sizing

Design on 28 m²/m³/day of overflow rate

We provider Surface area 2.7 x 2.7 = 7.29 m2 (Equal to 200/30= 7.14 m²)

Collection tank sizing

Design on 6-8 hrs of RT

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

Filter Feed Tank

Design on 2-4 hrs of RT

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

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	1 Softner & D. M. Plants	buitening Pool Treatment Rain Harvesting b ETP / STP Water Recycling blinend Water Project borvice Contract (0.6 M, AMC)	Avio	On Environment Pvt. Ltd. Purest water for healthy life
Sizing of the	e tank (Design B	asis)		
Aeration tank	sizing			
QD	= 20	0 KLD		
BOD L	ad For MBBR = 5.8	Kg/ m ³		
Actual	BOD = 30	0 g/m ³		
Tank d	epth = 3m			
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Figure- Sewage Treatment Plan (Image 1)



Figure- Sewage Treatment Plan (Image 2)



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• E-waste scrap details: (2022-2023)

Since 1992	V.E.S. INSTITUTE OF TEC Hashu Advani Memorial Complex, Collector Colony, R. C. Marg, A960 No. No. Lot - 1 No. Sufiyan Chaudhary	, Chembur, Mun	OGY 1 ^{15ai - 400 074. 2418)202.2}
of M/sE	CO Star Recycling		
with the foll	owing Goods / Equipments, which is RETURNABLE / NON-RETURNABLE / NON-RETURNA	QTY.	REMARK
1) C.PU 2) Lapto 1) - Flat S	p erver		
oods / Equir marks nature of th horised by_	Receiver's Signatur		Activa



V.E.S. INSTITUTE OF TECH Hashu Advani Memorial Complex, Collector Colony, R. C. Marg, CH GATE PASS No. 1962 LoT-2 Please allow the bearer Mr. / Mrs. Subyon Chaudbany of M/8. ECO Star Recycling	Date : 25	
with the following Goods / Equipments, which is RETURNABLE / NON-RETURNABLE	RNABLE.	REMARK
PARTICULARS	QIY.	REMARK
1) LCD, Greatener copier, Sharp Zerox machine, 2)HP 1020 Printers, EPON printer, Canon Xerox, 3)OHP, CRO, function Generator, Power supply, Voltage stabilizer, HP colour Printer, 4)	as per attatch 121	
Com D		
Goods / Equipments are being removed / sent on account of		
Remarks_Scrap	hature Gyan	audharofosettin



		LIST OF EQUIPMENT TO								
1	liten	n and it's brief description	Qty	VESIT Date of purchase	GRR.No.	Ur	hit Price	Scrap Totally obsole equipm beyon	te . ent	Total Amount
	۱.	L P4 DesMop PC 256MB RAM,			4051	+	32,700.00	repai	4	2,28,900.00
1	1.0	CO HOU	.7/	15/02/2003		+	26,000.00	-	-+	2,60,000.00
2	A	SEMDIED IGS RAM, 160GB HDD	10/	26/12/2006	4496-A&E	· · · ·	20,254.00		-	4,40,508.00
3	S H R	cl. Desktop PC, Processor C2D, CL. Desktop PC, Processor C2D, AM DDR2 1GB, IDE HDD-160GB, Inschaard 946, 15" Monitor.	106	26/12/2007	4647	+	25,300.00	1		26,81,800.00
5		enovo P4 PC, Processor Pentium- /, 1GB RAM, 150GB HDD	10	- 09/03/2009	4859	+	26,750.00	~		2,67,500.00
	H	// 10D Romer PC, Processor C2D, ICL Desktop PC, Processor C2D, AM DDR3 4GB, SATA HDD-320GB, Asherboard G41, 18.5" Monitor.	322	28/04/2010	4981		23,518.00			75,72,796.00
1		ICL Desktop PC, Processor C2D, AM DDR3 4GB, SATA HDD-320GB, Motherboard G41, 18.5" Monitor,	96	05/04/2011	FN034		21,025.00	-		20,18,400.00
1		HCL Desktop PC, Processor C2D, RAM DDR3 4GB, SATA HDD-320GB Motherboard G41, 18.5" Monitor.	24	05/04/201	FN03	5	21,025.00	-	,	5,04,600.00
T	-	Creative SB 230 Speakers	1	13/3/2005	4285		550.00		-	550.00
1	0	IOMEGA CD Writer USB 2.0	1	31/12/200	5 4342		3,846.00	- v	 	3,846.00
	11	IBM SERVER X346, Xeon 3.2GHz, 5GB SD RAM DDR-2, 73GB SCSI HDD. Sr.No. 99AVKGA (MCA dept)	1	10/02/200	6 437	2	1,34,000.0	•	/	1,34,000.00
	12	Anslog Signal Sampling and Reconstruction trainer kit DCL-001 Unitech	_	19/04/20	03 4084	/В	7,800.0	0	~	15,600.0
	13	PSK Modulation and Demodulation Trainer Kit COM116N Sigma	1	2 31/03/20	06 440	7/1	11,250.0	00	1	22,500.0
L	14	OCL-02 PAM TDM/DEMUX, Trainer Kit (Falcon) sr no:-0903097		1 31/03/20	09 4894	/F/2	11,433.	00	1	11,433.0
	15	DCL-007 DELTA/SIGMA/ADAPTIV DELTA KIT (Falcon)	E	1 31/03/20	4894	/G/2	11,433.	00	× .	11,433.0
	16	DCL-05 DATA CONDITINING MOD KIT Falcon Make). 	3 31/03/20	009 4894/1	1,2,3	11,433	.00	1	34,299.0
	17	DCL-06 DATA CONDITINING DE MOD, KIT Falcon Make		3 31/03/2	009 4894/	0 1,2,3	11,433	.00	1	34,299.0
	18	DCL-01 Analog Signal sampling an reconstruction Akademika		1 31/03/2	009 489	4/B,2	11,433	00.	1	11,433.
	19	ADCL-02 QPSK/DQPSK KITMC (Falcon)	- I	1 31/03/2	009 48	94/Q	11,433	3.00	1	. 11,433.
	20	ADCL-03 QPSK/DQPSK KITMC (Falcon)	D	1 31/03/2	2009 48	94/R	11,43	3.00	1	11,433



5MHZFG EZ MOD, F.G 7005C Sr. No.:- 3012107, 2101493	2	17/05/2003	4111	24,500.00	~	49,000.00
Digital Multimeter, Micro Mastech, M92A	1	09/05/2005	4284	1,650.00	1	1,650,00
Classic Digital Multimeter Model - 999N	5	30/08/2006	4450/A	1,188.00	×.	5,940.00
EM8085 Emulation Module for 8085, model - 007/06A	1	15/12/2001	3814	22,600.00	~	22,600.00
EM31 Set EM8085/52 & EM8751 &	1	15/12/2001	3815	66,565.00	1	66,565.00
OSCILLOSOCOPEPM206 PHILIPS- 15MHZ	2	14/11/87	117/02	16,380.00	~	32,760.00
APLAB 3305 20MHZ DUAL TRACE	4	3/2/1999	022/03	18,700.00	~	74,800.00
1 OSCILLOSOCOPE µ TEK DUAL 18 TRACE	1	13/02/2001	070/02	19,000.00	1	19,000.00
OSCILLOSOCOPEEZ5020 DUAL	2	13/3/2002	014/04	19,885.00	1	39,770.00
OSCILLOSOCOPEEZ5020 DUAL TRACE 20MHZ	2	10/2/2003	4058	20,500.00	× .	41,000.00
FUNCTION GENERATORAPLAB 3MHZ	2	23/02/2004	4157	13,950.00	~	27,900.00
PRINTER EPSON LQ 1150	1	7/2/2003	4055	14,600.00	1	14,600.00
DMM MICROSOFT 3404	2	31/12/1993	199/01/A	3,488.00	~	6,976.00
DMM M690F MASTECH M890F	3	29/9/1995	050/04F	1,800.00	~	5,400.00
DMM M890F MASTECH M890F	1	7/9/1999	031/02	1,450.00	~	1,450.00
DMM CLASIC333	3	22/03/2002	015/05	3,055.00	~	9,165.00
VOLTAGE STABILIZERIKVA SERVOVOLTAGE	4	8/3/2000	014/4	2,930.00	~	11,720.00
LUX METER DIGITAL	2	28/11/1998	015/05	1,800.00	~	3,600.00
STROBOSCOPETACHOMETER LUTRON DT 2339A	2	28/11/1998	015/05	9,200.00	~	18,400.00
POWER SUPPLY0-30 V 8201 ANALOG	1	9/11/1985	024/04	2,184.00	~	2,184.00
POWER SUPPLY0-30 V APLAB 7112	.4	18/9/1990	084/16	2,754.00		11,016.00
POWER SUPPLY0-15V APLAB 7101	3	2/2/1995	296/02/A	4,405.00	~	13,215.00
DUAL POWRE SUPPLY0-30V ELNOVA 2A	3	7/12/1995	069/01	5,625.00		16,875.00
DUAL POWRE SUPPLY0-15V ELNOVA IA	2	7/12/1995	68/09/C	4,600.00	1	9,200.00
CD Monitor 18.5"	11	28/04/2010	4981	23,518.00	~	2,58,698.00
SPEEDCONTROL OF MOTOR	2	28/02/1996	077/07/C	4,600.00	1	9,200.00



Ļ	3 PHASE RECTIFIERUSING	1	27/02/1996	108/06/A	8,500.00	1	8,500.00
	3 PHASE RECTINENT KIT SCREXPERIMENT KIT	2	26/3/1999	025/10	2,300.00	1	
48	STUDY OF LINERGAR	2	26/3/1999	025/10	2,200.00	1	4,600.00
49	DODUASESHIFT OSCILLOTTON		26/3/1999	025/10	2,500.00	~	4,400.00
1	STREET SING SCR	2		025/10	2,400.00	~	5,000.00
50	UCHT DIMMER	2	26/3/1999				4,800.00
51	OF PARVICE	2	26/3/1999	025/10	4,500.00		9,000.00
52	STUDY OF TEMP CONTROLLER	2	26/3/1999	025/10	8,200.00		18,400.00
53	KIT OF DC COUPPLED	2	20/4/1999	026/04	2,200.00		4,400.00
1 54	1110LF	2	20/4/1999	026/04	2,200.00	1	4,400.00
	IN A REPEARED INCOMENT	2	20/4/1999	026/04	2,600.00	1	5,200.00
5.56	STUDY OF UNIVERSIT	2	20/4/1999	026/04	3,600.00	1	7,200.0
57	STUDY OF DC MOTOR CONTROL	2	20/4/1999	026/04	2,500.00	~	5,000.0
58	STUDY OF EMERGENCY LIGHT KIT	2	20/4/1999	026/04	3,000.00	1	6,000.0
59		2	17/5/2003	4110/E	4,100.00	1	8,200.0
60				4110/G	4,800.00	1	4,800.0
61		1	17/5/2003		4,100.00		8,200.0
62		2	17/5/2003	4110/F			
63	3 PHASE FULLWAVE RECTIFIER	1	17/5/2003	4110/G	4,800.00	· ·	4,800.00
5 64	UJT RELAXATION OSCILLATOR KIT	2	17/5/2003	4110/H	2,800.00		5,600.00
65	LOR OPERATOR RELAY	2	17/5/2003	4110/1	2,800.00	1	5,600.00
66	SCRCHARACT KIT	2	17/5/2003	4110/J	2,800.00	1	5,600.00
67	PHOTO TRANSISTORCHARACT KIT	2	17/5/2003	4110/K	2,600.00	~	5,600.00
68	PHOTO DIODE CHARACT KIT	-2	17/5/2003	4110/L	2,800.00	1	5,600.00
69	TRAIC CHARACT KIT	2	17/5/2003	4110/M	2,800.00	1.	5,600.00
70	PUT RELAXATION OSCILLATOR	2	17/5/2003	4110/N	2,600.00	1	5,600.00
71	OP - TO COUPPLERTRANER KIT	2 .	17/5/2003	4110/O	2,800.00	1	5,600.00
72	HP Laserjet Colour Printer Model HP CLJ 1025 Sr. No. CNCH12070	1	31/03/2012	FN155	14,250.00	1	14,250.00



l		cientech Color TV Trainer kit Model	1	39170				
	Isi	cientech Color IV	1		4554/A	24,750.00	1	24,750.00
13	N	cientech Coler TV Trainer kit Model Io. ST-2651 Cientech BW V ST-2055 WHITE PATTERN		39170	4554/B	20,250.00	1	20,250.00
5	7 10	to. Standel NO. PG-30	1	34971	050/04/C	4,200.00	~	4,200.00
L	75	SIGNET COLOUR PL No. S-1044, Sr.	2	37555	025/01	22,795.00	~	45,590.00
	76	No2E001b No2E001b 8085 Bated advanced 8085 Bated advanced 8085 Bated advanced 140 roi:-ESA-85-2.	1	24/02/2007	4521/H	6,175.00	1	6,175.00
I	77	040107025. advanced 040107025. Based advanced 5085 Based advanced score FSA-85-2.	1	24/02/2007	4521/H	6,175.00	1	6,175.00
	78	100107031. Moved 040107031. Movenced 1005 Based advanced 1005 Based advanced 1005 ESA-85-2.	1	24/02/2007	4521 <i>/</i> H	6,175.00	1	6,175.00
	79	ends Based advanceer kit, Sr. no.	1	24/02/2007	4521/H	6,175.00	1	6,175.00
THE OW	80	60C196KC Bases Microconno. Model	1	24/02/2007	4521/B	11,614.00	1	11,614.00
	81	toiner ML no:-SSA-196. Stedpast Cross-Cut Shredder-CC001	1	29/01/2013	FN243	29,000.00	~	29,000.00
	82	EPSON WF-7511 - Colour Printer	1	30/01/2014	FN352	22,000.00	1	22,000.00
1	83	tation Transmitter Kit	2	17/05/2010	4990/A	10,471.00	1	20,942.00
	84	Falcon - Moder Halion Receiver Kit	2	17/05/2010	4990/B	10,471.00	1	20,942.00
	85	Falcon - Moder Help	1	17/05/2010	4990/F	10,472.00	1	10,472.00
	87	OPSAK/DOPSK/DEPSK Demodulation Kit Falcon Model No.	1	17/05/2010	4990/G	10,472.00	1	10,472.00
6	7 88	ADCI-03	1	17/05/2010	4990/1	10,472.00	1	10,472.00
	89	OSMIDOAM Demodulation Kit Falcon	1	17/05/2010	4990/J	10,472.00	~	10,472.00
	90	QAWDQAM Modulation/Demodulation Kit Falcon	1	17/05/2010	4990/K	10,472.00	1	10,472.00
	91	Model No. ADCL07 SHARP DIGITAL PHOTOCOPIER	1	28/03/2014	FN395	66,000.00	1	66,000.00
	92	Cannon Xerox Machine model:-	1	28/11/2006	4490	58,500.00	. 1	58,500.00
	93	iR2016J	1	31/12/1990	and the second second	4,72,000.00		4,72,000.00
	94		3		erred from ok	d building	1	
	95		1	Transf	erred from ol	d building	1	
	96	Taperecorder	4	Transf	erred from ol	d building	1	-



7	Viciyn	4	Transfer	red from old	building	1	
8	Olatonet	4	Transfer	red from old	building	~	
99	Sitat	4	Transfer	red from old	building	1	
100	Taanputa	3	Transfer	red from old	building		
101	Guilar	4		red from old			
102	APC SU 300UXI UPS 21EARS	1	20/6/2006	4428	48,557,00	~	48,557.0
103	Godies	3	Transfe	rred from old	building		
100	HCL L74 Intel HMS5 Cole 15, 208,	\odot	17/03/2011	FN023	28,969.00	~	3,18,659,
105	HP LAPTOP CORE 15, 200 DOR	0	26/12/2012	FN233	27,000.00	~	27,000
106	Gigabyte Laptop Inter Content	(\mathbf{i})	Transfer	rred from old	building	~	
107	Del Laptop Vastro-1400 Intel Core to	(2)	30/3/2009	4897	35,576.00	~	71,152
103	HCL P4 Laptop	4	Transfe	rred from old	building	~	
100	HP Printer 1020	18	Transfe	rred from old	building .		
1 110	External HardDisk 1TB	1.	13/11/2014	FN484	5,150.00	1	5,150
111	Dell DCS Server sr no. OT757	1	Transfe	rred from old	building		
112	Apisb 20MHz Dual Trace Osciloscope Model 3702	9	17/02/2010	4949	16,000.00	~	1,44,000
113	FUNCTIN GENERATOR CADDO	2	14/02/2008	4683	27,500.00	~	55,000
114	FUNCTIN GENERATOR	10	17/02/2010	4948/A	8,500.00	~	85,000
115	Power INVERTER solid state	2	20/03/2002	014/02	3,200.00	1	6,400
116	30-600V/2A Model:- APLAB CBPS(600/2)	2	06/01/1997	131/07	33,245.00	1	66,490
117	HIGH VOLTAGE D.C. REGULATED	1	17/03/2003	4096	19,400.00	1	19,400
118	Aplab DC POWERSUPPLY	4	16/10/1993	183/04/B	5,045.00	1	20,180
119	Domestic Inverter BATTERY	2	11/03/2002	014/06	11,000.00	~	22,000
120	Calestific Oscillaneese COMUL-	4	27/02/2006	103(OLD)	18,000.00	1	72,000
121	EDKITS	1	15/11/1994	272/04	1,300.00	~	1,300
122	CI COTO O TE OLI EL INO DE OLI O	1	17/06/1986	43/03	5,300.00	-	5,300



3 SCR CHCRACTERISTICS	1	28/08/1989	062/02	2,800.00	1	2,800.0
CONTROLLER	1	02/12/1985	024/19	2,600.00	-	2.600.00
mascope Model:-3030	1	11/09/1985	278	5,887.00		5,867.0
5 Aplab Oslidover 26 POWERTEK Madel:-4032	1	21/08/1985	011/08	1,992.00		1,992.0
	1	09/10/1985	019/02	3,085.00		3.085.0
27 FET VOM 322	2	03/04/1986	037/23	147.00		294.0
ANALOG METER UA	12	17/05/2003	4110	600.00		7,200.0
ANALOG METER A	22	07/11/1985	023/1-22	205.00		4,510.0
130	29	07/11/1985				5,945.0
131 ANALOG METER V	41		023/1-29	205.00		
ANALOG METER MA	8	17/05/2004	4110	205.00		8,405.0
133 ANALOG METER mV		07/08/1984	014	500.00		4,000.0
134 POTENTIAL METER LAB INDIA	3	21/02/2003	4067	520,00		1,560.0
135 70WER SUPPLY 0-30V/2A 1032	1	27/09/1985	017/17	1,995.00		1,995.0
135 Poutr supply	1	15/01/1994	272/04	1,900.00		1,900.0
137 Roeostat	1	23/09/2004	2509	7,200.00		7,200.0
138 Power supply	1	10/10/1985	019/07	3,000.00	1	3,000.0
139 UNT WETER	.1	22/03/2002	015/03	1,940.00	1	1,940.0
140 (Flat server IT-113 (IT dept)	1	Transfe	rred from old	building	1	·
Terra Lost Monitor	11	15/02/2003	4061	-	1	-
Wotas Split AC 2Ton 142	24	11/07/2008	-	23,200.00	1	5,56,800.0
Window AC 1.5Ton	5	Transferre	d from MCA of building)	lept. (MMS	1	
144 Seninar Hall Light and Light Fittings	7		Metal scrap		1	-
145 Fire Hose Reel Drum	2		Metal scrap		~	-
145 Fire Extinguisher	9		Metal scrap		1	-
147 Classic 333 Meter	2	Transfe	rred from old	building	~	-
148 Maslech M590F	-2	Transfe	rred from old	building	~	
149 Aplab model 9601 meter	1	Transfe	rred from old	building	1	-



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

• Fume hood installation documents:

	i alternation and a state of the state of th					Ref. No. :	Ref. No. : GEN/18024
Lab:	GEN503 FIXED	ASET / CONS	FIXED ASSET / CONSUMEABLES / MISC	ISC		Date :	\$102/60/62
Sr.No. Descr	Description of Item & Specifiction / Maks	Opening Stock	Quantity	Rate (Ra)	Amount (Value) Approx.	Required Delivery / Schedule of	Remarks Likely Suppliers to be Contacted
A VIATURE A	SYSTEM	800	1 00 NOS	88	000		roa cremanting 1 was



P.0	Hashu Advani Memorial Complex,collector Cole			
	No. PO/3611/18-19 nt No. ,GEN/18024		Date :	18/02/2019
To,	CITIZEN INDUSTRIES			
	57, G.I.D.C Estate, Ph. II,			
	Naroda, Ahmedabad 382330			
Atta	L: /(O)+91-22-28540824/26/28/29/31/(M)+91-9099		10 -1 100	7 N/c
Sub. Sirs.		ry Lab 503 - Ger	eral Dept. (GS	INg.
WE	H REFERENCE AS PER ATTACHED & SUBSEQUEN ARE PLEASED TO PLACE OUR PURCHASE ORDER MS & CONDITIONS MENTIONED HEREWITH.	T DISCUSSION FOR THE FOLL	WITH THE UN OWING ITEMS	DERSIGNEL AS PER
SrNe	Description	Quantity	Rate	Amount
01	Const. Bypass type Bench Fume Hood (Size:L1200 X D915 X H2300mm) Consisting of Pollowing: Fume Hood Superstructure, Fume Hood Worklop, Service Valves, Electrical Fittings, Fume Hood Understructure, Fume Hood Under-Cabrue & Accessories	1.00 NOS	121,790.00	121,790.00
02	Exhaust Fan (315mm Dia) - 01 fan for 01nos Fune Hood - Single piece molded UV treated chemical resistant SISW direct driven centrifugal fan in PP construction with suitables stand in MS powder costed construction, CFM 480 to 500. Contd	1.00 NOS	53,210.00	53,210.00
03	 Corrosive resistant PP Impeller with extra strength,high efficency, 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. 	1.00 NOS	0.00	0.00
04	Contd - 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 :	21.217.217		206,500.00
Total	value of the order Rs. TWO LAKHS SIX THOUSAND	FIVE HUNDRI	ED ONLY	
			•	
	1 -			>
P	al toma		No	
0	to pola	/	1	
	P/.	'		
		Barajal	agala	trace
	Dayall			



1	10	Hashu Advani Memor	rial Complex, collect	C OF TECH		
					Date	:28/02/2019
	P.O No.	PO/3611/18-19		-		
10000	Indent No To,	GEN19024 CITIZEN INDUST	TRIES			
		ST. GID C Enter.				
		Ph II,				
		Naroda, Ahmedabad	382330			
	Atta. :		4/26/28/29/31 / (M)+91	9099933108	and Dent. (GS	T No.
	Sab. :	Fume Hood with Blo 27AAATV2239C1ZJ	ower System for Chi P)	mistry Lab 503 - Gene	THE PAPER A	
	NIS,			IENT DISCUSSION W	TTH THE UN	DERSIGNED,
				ER FOR THE FOLLO	WING ITEMS	1763 TEA
	TERMS & C	CONDITIONS MENTIO	NED HEREWITH.		Rate	Amount
	SrNo Descri	ption .		Quantity	Kate	
	Terms and Co					
	1. Taxes :		18% Calculated as	above		
	2. Discount					
	3. Delivery	: : Immed Forwarding : : Inc				
	5. Freight &	Transportation : :	Inclusive			
	 Dispatch : Warranty : 	: To de	liver at our Inst	itute premises elivery / installat	tion	
	I. Payment :	: By ch	eque, 10% advance	, Se% against profe	orma invoice	8 48%
	fter installa Validity :	tion, Training Free		the purchase order		
	8. Jurisdictio			ject to Mumbai cou	et only	
	e. seraperter					
11	1. Notel :	: As per	attached indent	and quotation		
11 12 00	1. Notel : 2. Note2 : nstruction (3)	: As per : Supply nm+2mm) complete wit	of exhaust duction the necessary bend	and quotation ng in PP/FRP (Roun s, reducers, T-Com	d Shape) nections, su	poorts,
11 12 00 f1	1. Notel : 2. Note2 : nstruction (3) anges, gaskets	: As per : Supply nm+2mm) complete wit s, nutbolts etc. (Rs	of exhaust duction the necessary bend	and quotation ng in PP/FRP (Roun s, reducers, T-Com	d Shape) nections, su	upports, amtr) at
11 12 co fL act Kin	1. Notel : 2. Note2 : nstruction (3) anges, gaskets tual & 18% GST udly make immed	: As per : Supply m+2mm) complete with s, nutbolts etc. (Rs f extra. flate arrangement to sup	of exhaust ducts th necessary bend s.3000 per sqmtr)	and quotation ng in PP/FRP (Roun s, reducers, T-Com & Installation (R M. Please enclose a com	d Shape) nections, su s.500 per so	petr) at
11 12 co fL act Kin	1. Notel : 2. Note2 : nstruction (3) anges, gaskets tual & 18% GST udly make immed	: As per : Supply nm+2mm) complete wit s, nutbolts etc. (Rs	of exhaust ducts th necessary bend s.3000 per sqmtr)	and quotation ng in PP/FRP (Roun s, reducers, T-Com & Installation (R M. Please enclose a com	d Shape) nections, su s.500 per so	petr) at
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Fig. Exhaust of Fume hood installed in VESIT Chemistry Lab



Fig. Fume hood installed in Chemistry lab 503