



# PAAVAI ENGINEERING COLLEGE

(Autonomous Institution)

(Approved by AICTE and Affiliated to Anna University)

(Accredited by National Board of Accreditation, New Delhi & NAAC (UGC) with 'A' Grade)

Paavai Nagar, NH - 7, PACHAL, NAMAKKAL - 637 018. Tamil Nadu

☎ 04286-243038, 58,88 & 98 Fax: 04286-243068 Email: pecprincipal@paavai.edu.in website: <http://pec.paavai.edu.in>

## Waste Water Recycling:

A Waste Water Treatment plant is located at the back side of men's hostel of Paavai Engineering College. It is to treat a total volume of waste water generated 4,50,000 lit/day. Treated water is used for gardening purpose for our Institutions & some agricultural lands of our neighbouring areas. Sludge produced from this treatment plant is used as manure.




Waste water recycling plant



Waste water recycling plant



  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist



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The following are the components of Waste Water Recycling plant:

1. Bar screen chamber
2. Grit chamber
3. Collection tank
4. Aeration tank
5. Treated sewage collection tank
6. Roots blowers & Diffusers
7. Raw sewage transfer pump
8. Bio-mass recirculation pump.
9. Sludge drying pump
10. Pressure sand filter & Activated Carbon Filter
11. Filter feed pump

Bar Screen chamber => It is used for the Removal of floating materials. The size of the Screen Chamber is length = 2m, width = 1m and Depth = 1.5m.

Grit Chamber => It is used for the removal of Grid particles or Inorganic particles such as Sand Gravel, Slit and glass materials .The size of Grid Chamber is 2.0m length, 2.0m width, 2.0m depth.

Equalization tank => It is used for Neutralizing the characteristics of waste water. The size of Equalization tank is 15m length, 3.5m width, 3m liquid depth.


Activate Sludge Process => It can be used for the Removal of BOD from waste water. Hydraulic detention time is 20 hrs. Size of the tank is 15m length, 15m width and 3m liquid depth.

Sludge drying beds is used for dewatering of sludge with the help of sunlight. Size of the sludge drying beds is 3m x 2m x1.5m.

## Benefits of Water Recycling:

1. It mainly helps in reducing water scarcity around the campus.
2. It can be used for creating or enhancing wetlands.
3. During this process, electricity and soil amendmets are generated.
4. The recycled water can be mainly applied to agricultural and domestic purposes etc.
5. It reduces waste water discharges by reducing and preventing pollution of water.



  
PRINCIPAL  
PAAVAI ENGINEERING COLLEGE  
NH-7, PACHAL Post, NAMAKKAL Dist

## Waste Water Recycling Bills:

### Sewage Treatment Plant Civil Work Order

FROM : STATION, CHN

PRY NO : 1844 4390885

DATE : 25.05.10



**Marujyu Technology India Pvt Ltd**  
Regd. Office :  
186/20, Jewar Colony,  
4th Avenue, Anna Nagar West,  
Chennai - 600 040.  
E-Mail : madm@satimail.in

**Marujyu Technology**

Admin. Office :  
No. 3/6, Aalethamman Kall Street,  
V.O. Panwar Nagar, Madhavaram,  
Chennai - 600 037.  
TEL : (91) 44-42695133

FAX NUMBER - 04286-243068

28/05/10

To  
The Chairman,  
Pavai Engineering College,  
Nammakkal.


Dear Sir,

Sub: Authorization of - Mr.K.Murugan Civil Engineer.


We are here by authorizing Mr.K.Murugan Civil Engineer S/O.Mr.V.Karupiah to look after all the STP Plant civil work at Pavai Engineering College.

Thanking you,  
Yours faithfully,

For Marujyu Technology India Pvt Ltd,

  
Authorized Signatory,



  
PRINCIPAL  
PAVAI ENGINEERING COLLEGE  
VILLAGE PACHAL Post, Madhavaram, Dist.



# Bill for Sewage Treatment Plant Construction

FROM : STARJET 001

DATE: 16-SEP-10



**Marujiyu Technology India Pvt Ltd**

Regd. Office :  
168/20, Jawahar Colony,  
4th Avenue, Anna Nagar West,  
Chennai - 600 040  
E-Mail : madm n@airtelmail.in

**Marujiyu Technology**

Admin. Office :  
No. 3/6, Asalaishmmen Koll Street,  
V.G. Pinner Nagar, Mugappair West,  
Chennai - 600 037  
TEL : (91) 44-42855133

16-Sep-10

To

The Chairman

Pavai Engineering College

Namakkal

Dear Sirs,

Sub : Erection of Sewage Treatment Plant

Kindly refer to your talk with Mr. Xavier.

We request you to kindly release the payment against the supply of Mech equipments as sought to enable us to depute our personal for the erection and commissioning of the Plant.

We will complete the erection of the plant within 15 days of the commencement.

Kindly do the needful

Thank you

Yours truly

For Marujiyu Technology India Pvt Ltd



Principal  
Pavai Engineering College  
Namakkal

ADOPT POLLUTION STANDARDS.....SAVE ENVIRONMENT.

CHECKED / ISSUED	
RS. 2,00,000/-	678930
DATE 30.09.10	00090001

Total Value of Contract No. 7,40,000  
(Exempt vat 4%)  
6,00,000  
Advance given  
Balance Rs. 6,40,000

Approx. Value of Machinery brought to site } Rs. 3,00,000  
Less } Rs. 1,00,000  
Balance Rs. 2,00,000/-  
Recommended for Rs. 2,00,000/-  
(Rupees Two Lakhs)  
U. Subbarao  
20/9/10

# Bills for Sewage Treatment Plant Accessories



**Marujyu Technology**

**Marujyu Technology India Pvt. Ltd.**  
Admin Office  
No. 3/6, Asatathamman Koil Street,  
V.G. Planners Nagar, Mogappair West,  
Chennai - 600 037.  
Tel : (91) 44 - 42665133  
E-mail : marujyu@satelmail.in

## TAX INVOICE

Invoice No : 154  
Invoice Date : 1 Mar 2012  
Page : 2  
CST No : 864704 dt 26/03/2005  
TIN NO : 33791024365

To : Paval Engineering College,  
64-C, Rotary Nagar,  
Nammakal Road,  
Rasipuram

637 400

The Chairman

Qty	Description	Unit	Price	Amount
1	Electrical Panel Contactor with relay	Set	Rs. 5,500.00	Rs. 5,500.00
2	Air Blower Oil seal	Set	Rs. 1,850.00	Rs. 3,700.00
4	Johnson pump coupling set	No	Rs. 900.00	Rs. 3,600.00
2	Johnson Pump Stop valve	No	Rs. 550.00	Rs. 1,100.00
2	Pressure gauge range 0 - 7 bar/dm open	No	Rs. 689.00	Rs. 1,378.00

VAT 1455

For Marujyu Technology India  
P. Ramani  
Authorized Signatory



Net Total	Rs. 15,270.00
Tax Total	Rs. 2,214.15
Total Due	Rs. 17,484.15

Regd. Office : 109/20, Jawahar Colony, 4th Avenue, Anna Nagar West, Chennai - 600 040.

ADOPT POLLUTION STANDARDS..... SAVE ENVIRONMENT

## Bill for Amount spend to Civil Labour (Sewage Treatment Plant)

*Sewage Treatment plant (STP)*

Paval Engineering College Statement					
Date	Am't Received	Details	By	For Civil labour through Marujyu	For Mech
20-May-10	20000	CBS/657/CL6	Mr. Harasam	100000	100000
29-May-10	20000	Cash	Mr. Murugan	20000	
7-Jun-10	75000	Cash	Mr. Murugan	75000	
12-Jun-10	25000	Cash	Mr. Murugan	25000	
16-Jun-10	25000	Cash	Mr. Murugan	25000	
19-Jun-10	25000	Cash	Mr. Murugan	25000	
26-Jun-10	75000	Cash	Mr. Murugan	75000	
2-Jul-10	25000	Cash	Mr. Murugan	25000	
10-Jul-10	50000	Cash	Mr. Murugan	50000	
17-Jul-10	25000	Cash	Mr. Murugan	25000	
31-Jul-10	40000	Cash	Mr. Murugan	40000	
7-Aug-10	35000	Cash	Mr. Murugan	25000	
16-Aug-10	50000	Cash	Mr. Murugan	50000	
21-Aug-10	50000	Cash	Mr. Murugan	50000	
28-Aug-10	25000	Cash	Mr. Murugan	25000	
4-Sep-10	50000	Cash	Mr. Murugan	50000	
17-Sep-10	40000	Cash	Mr. Nandha Kumar	40000	
23-Oct-10	25000	Cash	Mr. Shankar	25000	
4-Oct-10	200000	CLG/CR/Nammakal	Mr. Nandha Kumar	200000	
3-Nov-10	200000	CLG/CR/Nammakal	Mr. Nandha Kumar	200000	
Total Received	1250000			3936500	750000
				Civil Total	Mech Total
				800000	769600
Amount Due	419600			Civil Due	Mechanical Due
				180000	239600

1,10,695.00  
2,80,295.50

1,69,600.00

P. Ramani

2,80,295.50



# OM SAI BLOWER ENGINEERING

C-160, Sector-10 NOIDA - 201 301 (U.P.)

Mob : 9953913509, 8285632192, E-mail : omsalrootsblower@yahoo.in

SERVICE INVOICE				
<b>OM SAI BLOWER ENGINEERING</b>		Supplier's Ref	Dated	
C-160, Sector-10, Noida		OSBE-20131119	19 Nov-2013	
Distt. Gautam Budh Nagar		Mode/Terms of Payment		
Tin No. 09865715687C, Pan No. CMZPS0844M		100% Advance		
Uttar Pradesh - 201301		Buyer's Ref		
Contact : 09953913509, 8285632192		K/a: DR.E.PAPPAN JI		
E-Mail : omsalrootsblower@yahoo.in		Despatch through	Destination	
		AT YOUR WORK	Paavai Engg. College Salem	
Invoice to		Terms of Delivery : By Couriers		
Paavai Institutions				
Nh-7, Pachal, Namakkal-637018				
Tamil Nadu, India				
K/a: K/a: DR.E.PAPPAN JI				
Mob. No: 09965543688				
Sl No.	Description of Goods	Quantity	Rate	Amount
1	SERVICE CHARGES FOR AIR BLOWER	01 NO	6000.00	6000.00
2	CONVEYANCE CHARGES	01 NO.	2000.00	2000.00
NOTE: THIS IS A COMPUTER GENERATED INVOICE NOT NEED ANY SIGNATURE		Total Amount		₹8000.00
<b>TERMS &amp; CONDITIONS</b>				E & O.E
Payment : 100% Advance				
Our Bank Details: Bank of India				
Branch: E-52b, Sector-9 Noida				
IFSC CODE: BKID 0007114				
Ac No: 711420110000844				
Validity 15 Days				
Company's VAT TIN 09865715687C				
We Assure you of our Best Services at all times.				
<div style="border: 1px solid black; padding: 5px; display: inline-block;">CASH PAID</div> V40990 22/11/13				For Om Sai Blower Engineering
				Authorized Signatory
SUBJECT TO NOIDA JURISDICTION				

**Manufacturer of Twin Lobe Love Blowers & Centrifugal Fans**  
**Specialist in Overhauling (Swam/Glory/Pneutech) Blower & Fabricators**

RSS  
Amp  
to  
19/11/13

Received by

DR. E. PAPPAN JI

13/11/2013

PRINCIPAL  
**PAAVAI ENGINEERING COLLEGE**  
 NH-7, PACHAL Post, NAMAKKAL Dist

# Bill for Sewage Treatment Plant Accessories

**OSBE**

## OM SAI BLOWER ENGINEERING

C-160, Sector-10 NOIDA - 201 301 (U.P.)

Mob : 9953913509, 8285632192, E-mail : omsalrootsblower@yahoo.in

### QUOTATION

#### OM SAI BLOWER ENGINEERING

C-160, Sector-10, Noida  
Distt: GautamBudh Nagar  
Tin No.09865715687C, Pan No.CMZPS0844M  
Uttar Pradesh - 201301  
Contact : 09953913509, 8285632192  
E-Mail : omsalrootsblower@yahoo.in

Supplier's Ref.

OSBE-20141121

Dated

21 Nov 2014

Mode/Terms of Payment

100% Advance Alongwith Purchase Order

Buyer's Ref.

Despatch through

AT YOUR WORK

Destination

Chennai

Terms of Delivery : By Couriers

Invoice to

PAAVAI ENGINEER COLLEGE  
CHENNAI  
K/A: MR. SRINIVASAN

No.	Description of Goods	Quantity	Rate	Amount
1	Timing Gear	01 Sets	17500.00	17500.00
2	Csr	08 Nos	1400.00	11200.00
3	Oil Seal Bush	02 No.	1100.00	2200.00
4	Oil Seal	02 No.	330.00	660.00
5	Piston Ring	32 Nos	117.00	3744.00
6	Oil Indicator	04 Nos	90.00	360.00
Taxable Amount				35664.00
UP/VAT @ 14%				4993.00
Service Charges				8000.00
Total Net Payable				48657.00

#### TERMS & CONDITIONS

Payment : 50% Advance & Balance After Completion of the work

Our Bank Details; Bank of India

Branch: E-52b, Sector-9 Noida

IFSC CODE; BKID 0007114

Ac No:-711420110000844

Validity : 15 Days

Company's VAT TIN:

We Assure you of our Best Services at all times.

09865715687C

**CASH PAID**

For Om Sai Blower Engineerin

Authorised Signato

SUBJECT TO NOIDA JURISDICTION

24/11/14 - V40541 - Rs - 24328/-

IN No. - 0985715887C

SALE INVOICE

Mob : 9953913509  
8285632192

**OM SAI BLOWER ENGINEERING**  
Manufacturer of Twin Lobe Love Blowers & Centrifugal Fans  
Specialist in Overhauling (Swam/Glory/Pneutech) Blower & Steel Fabricators  
**C-160, Sector-10 NOIDA - 201 301 (U.P.)**  
E-mail : omsairootsblower@yahoo.in

For Dup SAI Blower Engineering

Signature

Authorized Sign

Date 25/11/2014

Mrs. Pooja

Mr. Pooja

Tamil Nadu - Chennai - 657468

Sr. No. 045

Date 25/11/2014

Challan No. 918

Date 25/11/2014

PARTY TIN No.

Purchase Order No.

Date 25/11/2014

No.	PARTICULARS	QTY.	RATE	AMOUNT	R.	P.
1	Taining gear	1 Set	17500	17500		
2	CSR	8 B/c	1400	11200		
3	oil oil bar	2 B/c	1100	2200		
4	oil oil	2 B/c	330	660		
5	Carbon ring	32 B/c	117	3744		
6	oil enducator	4 B/c	90	360		

JOURNAL ENTERED  
No. : 707769  
Date : 17/12/14

PREP - STP maintenance  
part 1 Invoice 24,328  
m/s Sumit  
6/11/14

CASH PAID  
14,203.38  
V2034  
16/12/14

amount in words

Total Amount 48,656

For OM SAI BLOWER ENGINEERING

E. & O. E.

Total Amount 48,656

For OM SAI BLOWER ENGINEERING

E. & O. E.

Total Amount 48,656

For OM SAI BLOWER ENGINEERING

<b>JAY'S ELECTRICALS</b> 1 FLOOR, (J. SUBUSWAMI AIYAR BUILDINGS) 87, ARUNACHALA ASARI STREET, SALEM - 636 001.		TEL: 0427 - 236612, 2348984 TEL: 0427 - 0127 - 2302708 MOBILE: 93614 22114, 93614 37014, 93614 54094	
<b>LAPP KABEL</b> Special Cables		<b>ABB</b> LV Switchgear Motors AC DC Drives	
<b>CABLE BILL</b>		<b>Date</b>	
<b>No.</b> 20776		<b>To</b>	
<b>Qty.</b>		<b>Particulars</b>	
288: BHN FASD 2 CATAR... 280/216V... 1312.26... 2152.83... 17000/-		14847 18 2152 83 17000 00	
2152.83 17000.00		TOTAL	
2152.83 17000.00		TOTAL	