

SARANATHAN COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai-25)

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CRITERION: 7.1.2

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1	Biogas plant details - Quotation, purchase order, bills, Audit report, cost achieved through biogas plant	2

NAAC Criteria 7.1.2

The Institution has facilities for alternate sources of energy and energy conservation measures

Ladies Hostel - Alandhur campus

<u>1. Bio gas plant Details</u>

Type : 30 cubic meter cow dung/ Food waste based Bio -gas plant

* Installed at Ladies Hostel, Alandhur campus For cooking purpose.

* Month and year of Installation : May 2016

* Total Cost : Rs. 6,00,000/- (Rupees six lakhs only)

(A) Quotation

-RESOURCE MANAGEMENT SOLUTIONS.

203/62, PAARAI VATTAM, ALAGAPURAM, SALEM- 636 016. TIN no- 33202845913 CST no-1116941

web-greenconnect.in

Mail-greenconnectindia@gmall.com;

AN ISO 9001:2008 CERTIFIED ORGANIZATION

Ref no- GC-QU-20150818-08-25 cum FRP

Date- 30th October, 2015



То

The director, Saranathan college of engineering, Trichy - 12. Dear Sir,

Sub- Revised quotation for installing 30 cubic meter biogas plant- reg.

Further to our previous quotation dated 18th august, 2015, I am offering you the revised quote as per our discussions on 30th October, 2015. Kindly accept this as our final offer and release the favorable purchase order along with advance.

Thanking you.

(B) Purchase Order

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RAVINDRAN			
SECRETARY			03-11-2015
SCE/ALANDUR	/BIOGAS/GC-1		
то			
THE CEO,			
GREEN CONNEG	T		
203/62, PAARA	The second second		
ALAGAPURAM,	114-1170/1001201/100/170		
SALEM -636016			
SALLIN USUUIU	•		
Sir,			
	Purchase order fo	e cumplu and installation of	20 mbis motos seus duras (Frandrussta
		int at Alandur Campus	30 cubic metre cow dung /Food waste
		ation GC-QU-20150818-08-2	25 aum FBB da 20 10 2015
Net. 1	our revised quot	ation 6C-Q0-20150818-08-7	25 cum FRP dt 50-10-2015
Wea	re glad to place t	he nurchase order on you	for the supply and installation of 30 cubic
			for the supply and instantion of 50 cubic priming to the following specifications, at
		r Education, Alandur Cam	
<u>50 cum</u>	uay biometh	anation plant-(FRP po	ortable water jacket Model)
PART 1- GREEN	CONNECT BIO-MI	THANATION PLANT	
ITEMS INCLUDED)	DESCRIPTION	COSTS (INR)
Green Connect I plant	Bio-methanation	Supply and install	4,73,000
Slurry pump		Supply and install	18,000
		Total	4,91,000

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COLLEGE OFFICE : VENKATESWARA NAGAR, PANJAPPUR, TIRUCHIRAPALLI - 620 012.

© Off:0431-2473686

Fax: 0431 - 2473684 E-mail: secretary@saranathan.ac.in

	COSTS (INR)	
Supply and install	8,000 13,500 18,000	
Supply and install		
ouppi)	45,000	
	DESCRIPTION Supply and install Supply and install Supply and install Supply and install	Supply and install5,500Supply and install8,000Supply and install13,500Supply and install18,000

DART 3. FOOD/DUNG PULPER:

FARTS TOOD FO	DESCRIPTION	COSTS (INR)		
ITEMS INCLUDED		64,000		
Waste pulper	Supply and install			
Total	64,00	64,000		

GRAND TOTAL	6,00,000 INR Nett
GRAND TOTAL	Total Value of this Purchase Order Rupees Six Lakhs Nett)

Terms and Conditions:

- The above price is inclusive of all taxes and duties
- Transportation cost will be paid separately by us
- · Power supply cabling for crusher, Booster and slurry pump will be under our scope. However the required panels, controls for these will be supplied by you
- Piping- 15 Kgf PVC, Nylon Breaded Hose, Flexible hose.
- Fabrication/Construction of the biogas plant- 30-35 working days.
- Piping connections- 3 working days.
- Total time duration for completion 40-45 days from the receipt of purchase order
- Payment terms:-
- Stage 1- 25% advance along with work order(Rs. 1.5 Lakhs)
- Stage 2- 50% on receipt of all the materials at our campus (Rs.3 Lakhs)
- Stage 3- 10% after installation ,commissioning and put in to operation (Rs. 0.6 Lakhs)
- Stage 4- 15% after successful operation of 2.5 months from the date of installation (Rs.0.9 Lakhs)
- Food, accommodation will be borne by us for five of your staff members for 5 days approx during the last part of field work at our campus
- Bio gas sample from the outlet has to be analyzed for CH₄,H₂S,CO₂,etc percentage composition

Kindly execute this order within the stipulated duration without compromise on quality of materials and workmanship. Expecting your good services and best performance of your plant for continued association with us.

212	1
S.Ravindran	
(Secretary)	

Encl: DD No.dated.....for Rs.1.5 Lakhs

2

saranathan Trichy.	college of engineering,		INVOICE NUMBER INVOICE DATE OUR TIN NO- OUR CST NO- 1116941	-04
			SALES PERSON CHYTHENYEN N SHIPPED VIA ROAD PAN NO AUNPC1900C	IК
ITEM	MATERIAL/DESCRIPTION	ORDER QNTY UOM	PRICE PER UNIT NET VALUE INR	4
1	30 CUBIC METER/DAY FRP PORTABLE BIO-METHNATION PLANT	1550	1 1.00 4,00,000	
	VAT 5%			20.000.00
2	INSTALLATION CHARGES		1.40.000	
3	COMMISSIONING CHARGES			40,00
	TRANSPORTATION CHARGES			6,400.00
Rupees "TH	OUSAND NINE HUNDRED ONLY		Total net Value	6,06,400
For GR	EEN CONNECT Bhyttonys 20/5/15		- Le Cust	Rol
L	- raginator		Nett Billy - R.	0,0

(D) Geotagged Photographs





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Principal

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Saranathan College of Engineering Department of EEE Cost saving achieved through solar energy NACC 7.1.2

S.No	Academic year	Utility electricity units consumption	Gross utility bill amount/annu m in Rupees	Electricity units produced through solar PV plant	Cost of solar units produced in Rupees	Annual saving achieved through renewable energy in Rupees	Reduction of emission of CO₂ in tons
1	2015 june)- 2016(May)	368461.8	3991256	9091.5	60640.31	60640.305	9.0915
2	2016(June)- 2017(May)	604720.8	6358504.2	15463	103138.2	103138.21	15.463
3	2017(June)- 2018(May)	573730.4	6122661	26444.8	197594.7	197594.686	26.444
4	2018(June)- 2019(May)	628490.4	6369951	33491	262182.8	262182.8	33.491
5	2019 (June)- 2020 (May)	548362.6	5850462	26818	214132.8	214132.84	26.818
Total	2015(june) To 2020(May)	2723766	28692834.2	111308.3	837688.8	837688.841	111.3075

Solar PV plant commissioned date: September 2017(20.16kW)& November 2013(10kW) Capital cost of the plant: (20.16kW)Rs. 14,40,000/- + (10kW) Rs.10,50,000 =Rs. 24,90,000/-Installed capacity of the plant: 20.16kW + 10 kW

Cost saving achieved through BIO GAS energy

S.No	Year	Total Bio-gas produced in cubic meter	Total Number of LPG cylinder equally conserved	Cost of LPG saved in Rupees	
1	from 2016 (May)- to 2020(June)	4889.43	129 Numbers(com mercial cylinder -19 kg)	1,78,020	

Bio- gas plant commissioned date: May 2016 Capital cost of the plant: Rs. 6,00,000/capacity of the plant: 30 Cubic Meter Brown

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