

NAAC CRITERION- 7

7.1.2 The Institution has facilities for alternate sources of energy and energy conservation Measures

(a). ALTERNATE SOURCES OF ENERGY AND ENERGY CONSERVATION MEASURES

ALTERNATE SOURCES OF ENERGY – SOLAR PANEL

- Three Solar Panels have been installed in the B block for alternate power source for Renewable Energy Laboratory in Department of Electrical and Electronics Engineering.




Fig. 1. Solar Panels at B-block



Dr. D. Senthil Kumar
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S.CHENNIMALAI GOUNDER CHARITABLE TRUST
SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY,
Palani Road, Sindalagundu Post,
Dindigul Dist. - 624 002

PURCHASE ORDER

To:

V3NM Gem Solar Solutions,
Electrical Liaison & Installation,
No:14, Mahima Homes-Sri Hari Garden,
Koundampalayam,
Coimbatore-641 030.
Ph-99449 48211, 79042 09310.
Email-anbarasuar1964@gmail.com

No. : SSMIET /60/23-24
Date: 07.12.2023.

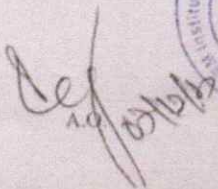
With reference to your quotation No: V3NM/SOL/ONGS-10KW-27, dated 01.12.2023, we have pleasure in placing our order for supply of the following materials as per terms & conditions.


S.No	Description	Quantity/ Nos	Rate/ Unit Rs.	Discount Rs.	Total Rs.
1.	10KW Roof Top Plants. Sl.No 1&2-Mono-Crystallin Half Cut 545watts panel-545wp*20 Nos = 10.9KW with 10 KW on Grip 3-Phase Inverter- 1 Nos (Gst-12%)	1 Set	407110.00	----	407110.00
2.	Sl.No-3 to 25 as per mentioned materials in the previous Table (Gst-18%) (As per the list enclosed)	1 Set	112890.00	----	112890.00
					48853.20
					20320.20
					0.40
	Net Amount				5,89,173.00

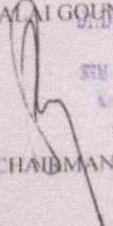
[Signature]
Dr. D. SENTHIL KUMARAN
M.E., Ph.D., (MOS), MSTE, MNSU, FIE, FIE (M)
PRINCIPAL
SSM Institute of Engineering and Technology
Dindigul - Palani Highway, Dindigul - 624 002

Gst@12%
Gst@18%
Rounded off (-)

<p>Delivery: Solar panel Dispatch immediately and other items Dispatch within 10-20 days.</p> <p>ED/VAT: Inclusive of all Taxes.</p> <p>Dispatch: Our College premises</p>	<p>Payment Terms: 50% payment against Purchase order, 40% against delivery and balance 10% after commissioning.</p> <p>Special terms: Company will support in maintenance of site for 1 year.</p> <p>Warranty: 10 years warranty for Materials&processing, 25years warranty for linear power, 7 years Product warranty.</p>
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HOD


PRINCIPAL


CHAIRMAN & MANAGING TRUSTEE

For S.CHENNIMALAI GOUNDER CHARITABLE TRUST
[Signature]
Dr.D.SENTHIL KUMARAN, M.E., Ph.D., (MOS)
Principal
SSM Institute of Engineering and Technology
Kuttathupatti Village, Sindalagundu (Po),
Palani Road, Dindigul - 624 002.

Fig. 2. Purchase Order of 10 kW Roof Top Solar Plant from V3NM Gem Solar Solutions

Goodsun Industries Private Ltd
 P.O. Kuttapattur Village
 K. Kuttapattur, Ammanur Road
 Dindigul-624 002
 Phone: 0451-2448800
 Email: goodsun@vsnl.net

TAX INVOICE - CASH/CREDIT

Invoice No: 147
 Delivery Note: 323, 324
 Supplier's Ref: 9442
 Buyer's Order No: 9442
 Despatch Document No: 9442
 Despatched through: 21-Sep-2016, 21-Sep-2016
 Destination: Dindigul

Date: 21-Sep-2016
 Mode/Terms of Payment: 18-Aug-2016
 Other Reference(s): 21-Sep-2016, 21-Sep-2016

Terms of Delivery
 1. Our responsibility ceases ex-works.
 2. We are not responsible for breakage or shortage.
 3. Any claims in respect of this invoice must be made within 15 days of receipt of goods.
 4. Sales under invoice is subject to Combators.
 5. Subject to Combators Court only.
 6. All payment should be settled before dispatch.
 7. Price quoted and charged are strictly ex-works.
 8. Goods once sold cannot be taken back.

SI No	Description of Goods	Quantity	Rate	per	Amount
1	1000LPD Goodsun Solar Water Heater Scale Nil Mdl Tank No: Collector No: Note: Read the User Manual Carefully And Install the As Per the Guideline	1.0000 No's	3,04,200.00	No's	3,04,200.00
	Out Put Vat 5%			5 %	15,210.00
	Total	1.0000 No's			₹ 3,19,410.00 E & OE

Amount Chargeable (in words)
 INR Three Lakh Nineteen Thousand Four Hundred Ten Only

Company's VAT TIN: 33661824153
 Company's CST No: 292938
 Buyer's VAT TIN: Direct sales
 Company's PAN: AACCG 5387 P

Declaration
 We declare that this invoice shows the actual price of the goods described that all particulars are true and correct.
 Prepared By: _____ Checked By: _____
 This is a Computer Generated Invoice

for Goodsun Industries Private Ltd
 [Signature]
 Authorised Signatory

Customer Signature: _____

Fig. 3. Solar Water Heater from Goodsun Industries Pvt Ltd, Coimbatore



Customer Scope:-

1. The Water Heater will be assembled by our Technician/Engineer at your site and all the necessary repair assistance should be provided by the end user.
2. Civil Works: Client should carry out all civil works as directed by our Engineers at site.
3. Boarding & Lodging should be provided by the customer.

Terms and Conditions of Contract

1. Purchase Order: We can accept Purchase Order in your formats or in our format for this project.
2. Payment: 50% advance, 50% against Proforma Invoice.
3. Transportation: Extra at actuals.
4. Erection : Extra (3% of the Invoice value)
5. Plumbing work: Client should carry out all plumbing work such as inlet and outlet piping. Insulation work in outlet (hot water pipeline) will be done by the company wherever necessary depending on the distribution of extra cost.
6. Site clearance: Plain shadow free place should be provided for the projects.
7. Warranty: One year warranty for systems if any manufacture defect (Except Glass & Heating Element)
8. After sales services:
PER CALL BASIS: can avail services per call basis where spare parts and services charges are to be given by the client against our estimation.
9. Delivery: Within four weeks time.
10. Mode of Despatch: By Tempo or Truck depending on the volume of unit.
11. Despatch Date: Against readiness of the site and confirmed instruction from the buyer.
12. Validity of offer: 30 days from the date of this offer.

The Note:

- (A) The rated output is variable and ultimately depends on the particular day's sunshine only.
- (B) We can manufacture systems with higher capacity as per specific requirements.
- (C) All plumbing work connected to outward or inward to distribution will have to be carried out by the end user as per the suggestion of our technician to get uninterrupted supply of hot water.

We trust this offer is in line with your expectation and for any clarification in respect of technical/commercial, please feel free to call us at any time.

Thanking you and looking forward for your valuable orders which, we assure you will receive our best and prompt attention always, we remain,

Yours Faithfully,
For GOODSUN INDUSTRIES (P) LTD.,

R.VELUSWAMY
MOB: 98422 43043

Goodsun Industries Pvt Ltd.,

S.F. 206 Parks campus, Behind VGM Hospital, Singaperumal, Coimbatore - 64
Ph: 0422 2592171, 2592158
S.F. - 6/42, Kallapalayam Village, Near Kanachanur Kovil, Kallapalayam
Coimbatore - 641 201 Ph: 98422 66434
Email: goodsun@rediffmail.com Web: goodsun.coim

Fig.4. Solar Water Heater from Goodsun Industries Pvt Ltd, Coimbatore

COST STUDY

S.NO	COST DETAILS	ELECTRICAL HEATER	SOLAR HEATER
1	Hot Water / Day	1000 Lit / Day	1000 Lit / Day
2	Temperature	70°C	70°C
3	Heater Capacity	25 Lit x 20 Nos	1000 Lit x 1 No
4	Electricity Cost at Rs.5 / Unit * Domestic Rs.7 / Unit- Commercial	23000 units x 5 = 1,15,000/- 23000 units x 7 = 1,61,000/-	Nil
5	Initial Cost	7500 x 20 = 1,15,000/-	2,50,000/-
6	Interest Cost / Year	at 12% / year	at 12% / year
7	Maintenance Cost / Year	500 x 20 = 10,000/-	10000/-
8	Depreciation Cost / Year	10%	10%
9	Inflation Cost / Year	10%	10%
10	Risk Cost / Year	500 x 20 = 10,000/-	Nil
11	Operating Time Cost / Year	500 x 20 = 10,000/-	Nil
12	Total Cost in the 1st year	Rs. 1,45,000/-	Rs 10,000/-
13	Cost in 5th Years	Rs 7,25,000/-	Rs 50,000/-
14	Cost in 10th Years	Rs 14,50,000/-	Rs 1,00,000/-
15	Cost in 15th Years	Rs. 21,75,000/-	Rs 1,50,000/-
16	Cost in 20th Years	Rs.29,00,000/-	Rs 2,00,000/-

Based on Datas mentioned under:-

- Number of days used / year - 330
- Rise in Temperature - 50°C
- Average Power Consumption / day - 7 Units
- Electrical geyser efficiency - 80%
- Capital Cost in for standard stainless steel heaters
- Capital Cost is for standard stainless steel heaters (304) and DLX HR (316 SS) 1000 LPD

GOODSUN Solar Water Heater.

- Inflation Cost on Electricity is not included which may push the running cost of the electrical geyser up by 100% over a period of ten years

Goodsun Industries Pvt Ltd.,

S.F. 206 Perks campus, Behind VGM Hospital, Singanallur, Coimbatore - 05.
Ph : 0422 2592171, 2592158
S.F. - 6/42, Kallapalayam Village, Near Komachiamman Kovil, Kallapalayam,
Coimbatore - 641 201 Ph. 98422 66434
Email - goodsun@vsnl.net, Web - goodsunindia.com

Fig.5.Solar Water Heater from Goodsun Industries Pvt Ltd, Coimbatore