

HEAT PUMPS - REPLACED WITH SOLAR WATER HEATERS



HEAT PUMPS are the latest in the field of Hot Water Generation which works on the principle of reverse of Refrigeration. It absorbs the coolness of water and lets out thereby making the water hot. 2 x 90 KW Heat Pumps caters the Hot Water needs of the Hostels (Boys and Girls). A 20 KL Calorifier Tank Stores the generated Hot Water and supplies through the Ring Main System to the Hostels. Since Hot Water being used in the early hours of a day, it necessitates energizing of Heating Coil, in the case of Solar Water Heater which amounts to large consumption of Electrical Energy. Heat Pumps actually consumes quarter of Energy compared to the Back Up Heater of a Solar Water Heater.


SOLAR ENERGY PANELS - BILLS

Our Management has give approval for establishing a Roof-top Solar Power Generation System. Following this we have obtained Techno-commercial Offer from 3 Agencies who are pioneers in this field, ever since Solar Power Projects started to flourish in leaps and bounds in the recent past.

We are in the process of engaging a Consultant before finalizing the Techno-commercial aspects of this project. This will be set for Generation from June 2020.

- | | |
|----------------------|------------|
| 1. TATA | 1003.2 KW |
| 2. ICRA (Thermax) | 718.7 KW |
| 3. Micro Enterprises | 720 KWp KW |

On 1003.2 KW Capacity feasibility grounds, we will be able to generate **1489700 units per annum**


PRINCIPAL
CHETTINAD DENTAL COLLEGE &
RESEARCH INSTITUTE
RAJIV GANDHI SALAI
KELAMBAKKAM - 603 103.



Raghavan & Muralidharan

Chartered Accountants
New No.397, Old No.280
SRM Towers, First Floor
MKN Road, Alandur
Chennai-600016.
Off: (044) 2232 2066 / 2232 2069 / 4272 9357
Email: anet@accountants.net.in

The Superintending Engineer
TANGEDCO
Udumalpet EDC
Udumalpet

AUDITORS CERTIFICATE

This is to certify that Eight Nos 230 KW Wind Electric Generator ENERCON Make having wind farm service Nos 204, 205 & 206, Udumalpet Electricity Distribution Circle belong to Rajah Muthiah Chettiar Charitable & Educational Trust, Rani Seethai Hall Building, 5th Floor, 603, Anna Salai, Chennai – 600 006.

Certified further that the energy generated from the above said WEG is 100 % ownership of Rajah Muthiah Chettiar Charitable & Educational Trust and the energy generated is utilised through their Industrial HT SC No 513, Chengalputtu Electricity Distribution Circle, Chengalputtu.

For Raghavan & Muralidharan
Chartered Accountants

K B Muralidharan
Partner

Membership No. : 205490

Place: Chennai
Date: 10.05.2017

PRINCIPAL
CHETTINAD DENTAL COLLEGE &
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KELAMBAKKAM - 603 103.



Raghavan & Muralidharan

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Chennai-600016.

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Email: anet@accountants.net.in

The Chief Engineer
NCS
TANGEDCO
Chennai – 600 002

AUDITOR'S CERTIFICATE

As per the information and explanation given to us and the records produced to us, we certify that one No. of 1250 KW Suzlon make Wind Energy Generator having Wind Farm HT Service No. 807, Location No. S107 at Sankaneri Site, Irrukandurai Village, Radhapuram Taluk in Tirunelveli District, Tamil Nadu is in the name of M/s. Rajah Muthiah Chettiar Charitable and Educational Trust, No. 43, Old Mahabalipuram Road, Padur Village, Post, Pin – 603 103 and the energy generated from the above said WEG is 100% Ownership of the Hospital Consumption under M/s. Rajah Muthiah Chettiar Charitable and Educational Trust and the energy generated is utilized through HTSC No. 513 of Chengleput Electricity Distribution Circle.

For Raghavan & Muralidharan
Chartered Accountants
Firm No.0071105

K B Muralidharan
Partner
Membership No.205490

Place : Chennai
Date : 06/08/2018

PRINCIPAL
CHETTINAD DENTAL COLLEGE &
RESEARCH INSTITUTE
RAJIV GANDHI SALAI
KELAMBAKKAM - 603 103.

ENERGY SOURCES: RECEIPTS



Chettinad
Dental College & Research Institute



Raghavan & Muralidharan

Chartered Accountants
New No.397, Old No.280
SRM Towers, First Floor
MKN Road, Alandur
Chennai-600016.
Off: (044) 2232 2066 / 2232 2069 / 4272 934
Email: anet@accountants.net.in

The Superintending Engineer
TANGEDCO
Tirupur EDC
Tirupur

AUDITORS CERTIFICATE

This is to certify that Nine Nos 225 KW Wind Electric Generator NEPC Make having wind farm service No 66 & 69, Tirupur Electricity Distribution Circle belong to Rajah Muthiah Chettiar Charitable & Educational Trust, Rani Seethai Hall Building, 5th Floor. 603, Anna Salai, Chennai – 600 006.

Certified further that the energy generated from the above said WEG is 100 % ownership of Rajah Muthiah Chettiar Charitable & Educational Trust and the energy generated is utilised through their Industrial HT SC No 513, Chengalputtu Electricity Distribution Circle, Chengalputtu.

For Raghavan & Muralidharan
Chartered Accountants

K B Muralidharan
Partner

Membership No. : 205490

Place: Chennai
Date: 10.05.2017

PRINCIPAL
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KELAMBAKKAM - 603 103.

ENERGY SOURCES: RECEIPTS

Suzlon Global Services Limited

104, Delta Wing, 177, Anna Salai, - 600002
GSTIN: 33AAICS1406R1Z4

SUZLON
POWERING A GREENER TOMORROW

Invoice no : 1942004454

Invoice date : 04-Oct-2019

Suzlon Global Services Limited
104, Delta Wing,
177, Anna Salai,
- 600002
PAN no:
State: Tamil Nadu
State code: 33
GSTIN no: 33AAICS1406R1Z4

Rajah Muthiah Chettiar Charitable
& Educational Trust
6th Floor, Rani Seethai Hall Building
Anna Salai
Chennai
Chennai
Chennai - 600006
PAN no: AAATR3208F
State: Tamil Nadu
State code: 33
GSTIN/UIN no: 33AAATR3208F1ZZ

Rajah Muthiah Chettiar Charitable
Site : Sankneri Site
Village : Irukandurai Village
Taluka : Radhapuram Taluk
Tirunelveli - 627111
PAN no: AAATR3208F
State: Tamil Nadu
State code: 33
GSTIN/UIN no: 33AAATR3208F1ZZ

Customer's PO /
Agreement date: 01.04.2017

Place of supply: Tamil Nadu

Location no.s: S107

Amount in INR

| | | 9987 | 1 | EA | 706,384.44 | 176,596.11 | 9.00 | 15,893.65 | 9.00 | 15,893.65 |
|---|---|------|---|----|------------|---------------|------|-------------|------|-----------|
| 1 | Comprehensive repairs and maintenance charges of your wind operated electricity generator located at above location number for the period from 01-Oct-2019 to 31-Dec-2019 | | | | | | | | | |
| Total | | | 1 | | | 176,596.11 | | 15,893.65 | | 15,893.65 |
| Amount in words: Rupees two lakh eight thousand three hundred eighty three and paise forty one only | | | | | | Total amount: | | 2,08,383.41 | | |

Whether reverse charge applicable: No

Terms and conditions:

- Delay in payment beyond due dates shall attract interest as per contractual terms.
- All disputes are subject to TAMIL NADU jurisdiction.

Payment Due Date: 01-Oct-2019

Pay by RTGS/NEFT. Transfer as details given below:

Name: Suzlon Global Services Limited
Bank name: State Bank Of India
Bank branch: (04791) Overseas, Mumbai-400005
Account number: 33683165234
IFSC code: SBIN0004791




For Suzlon Global Services Limited
Signature valid
Digitally signed by SANJESH KUMAR MISHRA
Date: 2019.10.05 17:04:25 IST
Authorised signatory

Declaration: Certified that the particulars given above are true and correct.

Corporate Identity number: U27109GJ2004PLC044170

Corporate office: One Earth, Hadapsar, Pune - 411 028, India Ph.: +91-20-40122000. Fax: +91-20-40122100 /40122200.


Registered office: "Suzlon", 5, Shrimall Society, Near Shri Krishna Complex Navrangpura, Ahmedabad, 380 005


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7.1.3

Wheeling to the Grid :-

A total of 18 Windmills – corresponding to 5.115 MW of Wind Energy is the only source of non-conventional energy source. These windmills are located at Vadavalli, Udumalpet and Tirunelveli belts. Generation from these windmills offsets our TNEB Consumption for 6 months in a calendar year.



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SENSOR BASED ENERGY CONSUMPTION - BILLS DOOR SENSORS

PERCENTAGE OF ENERGY EFFICIENT APPLIANCES



LEDs of 100 W have been replaced with 400 W Metal Halide Lamps for the Street Lights of the Institution. This accounts to reduction in Energy Consumption by 1/4. Similarly Newly Built Halls are installed with LEDs and the areas Conventional Lights fixed in areas where light illumination lasts for longer period of time are replaced with LEDs. In this way Conventional Lights are phased out in phased manner and as a policy replacement of lightings are being done with LEDs.


STAR RATED APPLIANCES :

energy
SAVING

Details of Split and Ductable Split Air Conditioners of our Institution (All are 3 Star Rated)

| Location | Nos | TR |
|----------------|------------|--------------|
| Operating Room | 65 | 300 |
| Medical Store | 108 | 518 |
| Medical Store | 89 | 186.1 |
| TOTAL | 263 | 537.9 |

Besides these, 80 Nos. of Refrigerators are available in our campus.


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LEVEL CONTROLLERS, SENSORS AND AUTOMATED HANDWASH



**LEVEL CONTROLLERS AT OHT
and
STORM WATER
COLLECTION PIT**

DIFFERENTIAL PRESSURE SWITCH AT STP

LEVEL CONTROLLERS IN OHTs : Cooling Tower Make-up Water that is pumped from the Softening Plant near STP and from the WTP to the OHT on the terrace of the College Bock are controlled through Level Controller and Pressure Controlled Switches respectively. Float Type switch control is used in OHT to switch OFF the pump once the water level reaches optimum.



VARIABLE FREQUENCY DRIVES VFDs incorporate sensors that record the room temperature and slows down the Blower Motor of the AHUs once the room temperature attains the set point temperature. In this way VFDs act as Energy-efficient devices that contribute to 20 - 30% of Energy Saving. Other equipments in which VFDs are fixed are the Chiller Units and

Secondary Pumps of Chilled Water Pumping Systems.



RAJAH MUTHIAH CHETTIAR CHARITABLE & EDUCATIONAL TRUST (CAPITAL

Rajiv Gandhi Salai, Kelambakkam, Kanchipuram Dist - 603103
Phone : 044 - 47411000, Fax : 044 - 47411011

09/06/2017
9:25:30AM

Goods Received Note

DUPLICATE

Received From

ELECTRO - TECH ENGINEERS
FIRST FLOOR, 7A, THIRUVALLUVAR STREET,
RAMAKRISHNA RAJUNAGAR, MADIPAKKAM,
CHENNAI. 600 091., CHENNAI, 600091

Vendor Phone No: 984339062

Date : 09/06/2017
Receipt No : GRN000000635
D C No : DVN000000636
PO No : PO0000000494
Department : International School

Vendor Invoice Date: 29.05.2017

The following goods have been received in good condition and taken into stock

| Sl.No | Item Code | Description | GRIN QTY | UOM | Expiry Date | Unit Cost | Extended Price |
|-------|-----------|---|----------|-----|-------------|-----------|----------------|
| 1 | CAP12151 | LED. Panel fitting / 24W/size/ 2x2/White | 24 | NOS | | 3,523.80 | 84,571.20 |
| | CAP12152 | LED 11 Watts Down light Fitting / White 20 | | NOS | | 838.09 | 16,761.80 |

Inv No : 15021
Inv Date : 09/06/2017

| | |
|---------------------|-------------------|
| NetTotal | 101,333.00 |
| Tax Amount | 5,066.65 |
| Discount Amt | 0.00 |
| Total Amount | 106,400.00 |

— Strength Assesd —
— Serial —

Received By KBASHYAM *[Signature]*

Authorized By *[Signature]* 16/6/17

A. MURUGAPPAN
MANAGER - CMS