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

ENERGY SOURCES: RECEIPTS





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 Superitending Engineer TANGEDCO Udumalpet EDC Udumalpet

Place: Chennai Date: 10.05.2017

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

ENERGY SOURCES: RECEIPTS





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 Chief Engineer NCES TANGEDCO Chennal – 600 002

Place : Chennai

Date: 06/08/2018

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 Suzion 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.007110S

K B Muralidharan

Partner

Membership No.205490





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 935

Email: anet@accountants.net.in

The Superitending Engineer TANGEDCO Tirupur EDC Tirupur

Place: Chennai

Date: 10.05.2017

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

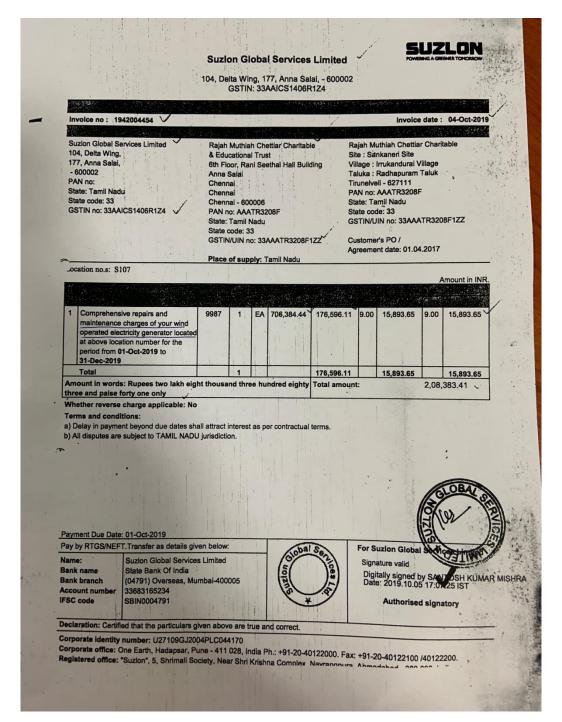
K B Muralidharan

Partner

Membership No.: 205490

ENERGY SOURCES: RECEIPTS





ENERGY SOURCES: RECEIPTS Chettinad Dental College & Research Institute

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.

SENSOR BASED ENERGY CONSUMPTION - BILLS DOOR SENSORS

PERCENTAGE OF ENERGY EFFICIENT APPLIANCES

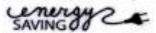






LEDs of 100 W have been replaced with 400 W Metal Halide Lamps for the Street Lights of the This accounts to reduction in Energy Consumption by 1/4. Similarly Newly Built Halis are installed with LEDs and the areas Conventional Lights fixed in areas where light illumination tasts for longer period of 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:



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

Location	tins	TB.
discontinue of the state of the	66	300
CONTRACTOR OF THE PARTY OF THE	108	51:R
es agricultural	BO	196.1
TOTAL TOTAL	263	537.9

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

AUTOMATED HANDWASH









and
STORM WATER
COLLECTION PIT

DIFFRENTIAL 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 9125/30AM

Goods Received Note

Received From

ELECTRO - TECH ENGINEEERS

FIRST FLOOR, 7A THIRUVALLUVAR STREET. RAMAKRISHNA RAJUNAGAR, MADIPAKKAM.

CHENNAI, 600 091, CHENNAI, 600091

Vendor Phone No: 9843139062

Vendor Invoice Date: 29.05.2017

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

09/06/2017 Date GRN000000635 Receipt No 1 DVN000000636 DCNo PO No PO0000000494 Department: International School

DUPLICATE

SI.No	Item Code	Description	GRIN QTY	UOM	Expiry Date	Unit Cost	Extended P	rice
2	Ga (2) 400	LED, Panel fitting / 24W/size/ 2x2/White LED 11 Watts Down light Fitting /	24	NOS NOS		3,523		
Inv No	1 15021		White 20		etTotal	838.	101,333.	
Inv Da	te: 09/06/	2017						

Tax Amount 5,066.65 Discount Amt 0.00

> Total Amount 106,400.00

Same of the Street Charles Charles

red & Recieved By KBASHYAM & Sey Bong

Authorized By 6/6/18

MANAGER - CMS

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