

## 7.4.2 a University as a body promote a public pledge toward 100% renewable energy beyond the university (Invited Talk, Workshop, National level Seminar)



Invited talk —Smart Energy System for Renewable Energyll, Dr. K. Balaraman, Director General, NIWE, Government of India, Date: 30.07.2019



Interaction and discussion with Director ESPAC, Dean & Faculty members



Visit to Solar Plant



Visit to Crescent Innovation and Incubation Council





Book on Extra-Mural R & D Projects of Govt. of India, released by Dr. K. Balaraman, DG, NIWE and our Vice Chancellor, Registrar of BSARCIST.



## Workshop on Renewable Energy adopting smart technologies 01st October 2019

Dr. SUKUMAR MISHRA, Professor, Department of Electrical Engineering, IIT Delhi, New Delhi



National Level seminar on "Research potential in Solar Energy & Storage Technologies" – 11th March 2020

Dr.J.Gaayathri, Assistant Professor (S.G.),CO2 research & green energy technologies center, VIT, Vellore





One day training programme on "Operation and Maintenance of Roof Top Solar PV Practices" – 10th February 2020 In association with Estate office / BSACIST

Mr. Lokabhiraman, Sr. DGM, Ex-BHEL & Mr. Pradeep Chavan, Sr. Executive Ex-

BHEL Arbutus Consultants PVT LTD., Pune, Maharashtra



## GREEN & CLEAN ENERGY-SAKSHAM 2021 on 9th February 2021

Resource person: Mr. S Ramalingam, President, ENFUSE





Awareness programme on "Energy, Oil & Gas Conservation" (Saksham 2020) – 31st January 2020

Prof S. Ramalingam, National President, Energy & Fuel Users Association of India







Ramkumar M <ramkumar@crescent.education>

EO CIIC <ceociic@crescent.education></ceociic@crescent.education>	Sat, Jul 14, 2018 at 1:08 PI
Control Construction Sector Control	
Dear Professor	
Please find attached brochure on the details on Zero Carbon Challenge - Green Business Idea Competition or	ganised by IIT Madras.
Please pass on this information & encourage our students, early stage start-ups to apply this challenge.	
The winning team will get seed fund of Rs.5 Lacs, mentor-ship by technical & business experts, e certification etc.	ntrepreneurship training and
If you the students need any help, please advice them to contact CIIC office. We are glad to support.	
Thanks	
With Best Regards Parvez Alam.M	
CEO - CRESCENT INNOVATION & INCUBATION CENTRE (CIIC)	
BSA Crescent Institute of Science & Technology (Deemed to be University u/s 3 of UGC Act, 1956)	
City Office : 3rd Floor   Seethakathi Business Centre   689 Anna Salai   Chennai - 600006	
Campus Office: Seethakathi Estate   GST Road   Vandalur   Chennai - 600048	
Mobile:- +91 95510 76617	
E-mail : ceociic@crescent.education	
Website : http://crescent.education/	
Skype ID : parvez.engineer	
https://www.linkedin.com/in/m-parvez-alam-be-mba-pmp-acp-cssbb-mcts-149a727/	
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YEARS OF

ALL INDIA Energy & Environment Innovation Contest.pdf

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## **ALTERNATE ENERGY INITIATIVES**

# 7.1.3 Percentage of annual power requirement of the institution met by the renewable energy sources

- The Sanctioned Demand from Tamil Nadu Generation and Distribution Corporation (TANGEDCO) is 1100 KW
- The capacity of 3 roof top solar power plant installed at the campus is 550  $KW_p$
- The installed capacity of Biogas plant is 50 m<sup>3</sup>
- Therefore the annual power requirement of the Institution met by the renewable energy sources is greater than 50%

## LIST OF DOCUMENTS

- The Sanctioned Demand from Tamil Nadu Generation and Distribution Corporation (TANGEDCO): 1100 KW
- Invoices of Three Roof top solar power plants of total capacity of 550 KWp and Biogas plant
- Green Audit Report
- Invoices of Annual Maintenance of solar power plants
- Sample documental evidences for renewable energy sources



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## GOVERNMENT OF TAMILNADU ELECTRICAL INSPECTORATE

From The Electrical Inspector Chenalpattu Division 59/ 32A, RV street. Alagasen Nagar, Chengalpet

3

M/s. All India Islamic Foundation, Seethakathi Estate, GST Road., Vandalur, Chennai- 600 048 Chengalpattu TK., Kancheepuram DT.,

Letter No. KPM 199/ EI/CGL/SC/2017 dated 27.06.2017

- Sir, SUB Electricity- Electrical Installations of voltage exceeding 650 volts and upto 33 KV at the premises of M/s, All India Islamic Foundation, Seethakathi Estate, CST Road., Vandalur, Chennai - 600 048, Chengalpattu TK., Kancheepuram DT- Inspection under Regulations 43 central Electricity Authority (Measures relating to Safety and Electric Supply ) Regulations, 2010 on 23.06.2017 - Approval - Accorded.
  - Ref: 1. This office drawing approval letter KPM 199/EI/CGL/DA/2017 dated 20.06.2017. 2. Your letter received along with completion report on 23.06.17
    - 3. This office Letter no. KPM199 /EI/CGL/ R 43/2017 dated 23.06.2017.
    - 4. Your letter No. Nil dated 27.06.2017

Approval is hereby accorded under Regulations 43(4) Central Electricity Authority (Measures relating to safety and Electric Supply) Regulations 2010 to commission the Electrical installations inspected on 23.06.2017 at the above premises as detailed in Annexure enclosed herewith subject to complying with the terms and conditions of the supplier.

The date of energization of the installation should be intimated to this office. The equipments permitted should be commissioned within six months from the date of issue of this letter failing which fresh permission should be obtained.

Under Regulation 46 (7) of Central Electricity Authority (Measures relating to safety and Electric Supply) Regulations 2010, the owner of the installation shall maintain and operate the installations in a condition free from danger and as recommended by the manufacturer or by the relavant codes of practice of the Bureau of Indian Standards.

Electrical Inspector

Chengalpattu Division

Encl: Annexure containing list of Electrical Equipments Copy to M/s. RJ Enterprises, Chennai-78.

Copy to: The Superintending Engineer/ TANGEDCO Ltd, /CEDC/Chengalpattu (with annexure) Copy submitted to : The Chief Electrical Inspector to Govt, Chennai -32 (with annexure)

1

	TamilNadu Generation and I Chengalpattu - High Tension Bill (F TANGEDCO CIN No:U40109TN2009SGC073746 HSN : 27160000 **** Electrical Energy & Distributio To <mark>B.S. ABDUR RAHMAN UNIVERSITY</mark>	Provisional) f	or the Month of GST No:33 e exempted unde	AADCT4784E1ZC SAC : 996912
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RTGS Payment should be made for the exact Bill Amount. Any Part/Excess/Short This Bill is subject to the Audit, Outcome of the Court Cases, etc., if any,

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E & OE

(Rambumer)

Dr. A.K. KALILUTHIN Deputy Director

TRIK GENE

ACCOUNTS OFFICER / REVENUE



FOURTH PARTNER ENERGY PRIVATE LIMITED

Reg Office :704, Krishna Appartments,Tilak Road,Abids,Hyderabad- 500001, India Factory: 4-7-19/45,Raghavendra Nagar,Nacharam, hyderabad- 5000076 T : +91-40-64631123 l info@fourthpartner.co l website : www.fourthpartner.co CIN NO : U40108AP2010PTC070806

#### DELIVERY CHALLAN CUM TAX INVOICE

		Invoice No:	IN/4PEL/05	5092014/008	
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BS Abd	ur Rahman University				
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		Destination:		Chenna	
All figu	res in INR				
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	CST @ 5%	7	5%	59,639	
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## **GREEN AUDIT REPORT**

## 2018 – 19





## **GREEN CAMPUS INITIATIVES- AUDIT REPORT**

- Roof-top Solar Power Plant I of 150kWp capacity commissioned in June 2014 at a cost of 1.32Cr.
- Roof-top Solar Power Plant II of 100kWp capacity commissioned in October 2014 at a cost of 62Lacs.
- New Roof-top Solar Power Plant III of 300kWp capacity commissioned in October 2018 at a cost of 1.20Cr.
- Avoided emission of greenhouse gases to the equivalent of 1105624kg CO<sub>2</sub>
  due to generation of renewable energy by Solar PV power plants.
- LED fixtures of around 33KW capacity has been installed in our campus in the past 5 years.
- Air-conditioning split units of 5-star BEE rating is installed in various departments in the campus for a total of 203TR.
- All the 203 split AC units are free from ozone-depleting CFC.
- Solar Water heaters in Hostels and staff quarters installed capacity 42,500 litres. This is equivalent to 240 electric geysers of various capacities. The power saving is estimated to be around 17Lacs per annum.
- Sewage Treatment Plant (STP) 500KLD of water is treated and utilized for Landscaping and flushing purpose in the University and Hostels. One plant of 250KLD capacity for Men's Hostel and another 250KLD capacity plant for University are in operation.



- New Bio-gas plant of 50m<sup>3</sup> capacity for Ladies Hostel is commissioned in June 2017. The gas generated is utilized in Ladies Hostel Mess Kitchen.
- All existing buildings are registered with Indian Green Building Council (IGBC) for green building certification under IGBC EB rating
- All New buildings constructed over the last six years and those under construction are registered with GBCI EDGE and USGBC LEED for green building certification for Gold rating.
- GBCI-EDGE Green building certification received for New Ladies Hostel & New staff quarters on 23.04.2018.
- New Crescent School of Architecture block is conceived as a Net Zero Energy building and registered under USGBC-LEED for Gold rating certification.
- Campus Solid Waste Management program is implemented to segregate and recycle organic waste, paper, cartons, paper cups, soft drink tins, plastic, pet bottles, e-waste, bio-waste, etc.
- Use of eco-friendly cleaning chemicals are mandatory in the campus
- Retreading of vehicle tyres to extend the life of each tyre is being implemented with an MOU with TVS Retread
- MOU with ITC-WOW is in place for recycling of waste paper
- To reduce pollution inside campus, 55 Nos bicycles have been provided for students to commute between Men's Hostel, Ladies Hostel and College Main gate. Battery Car and Electric Bike provided for staff.



- Sanitary napkin incinerator with wet scrubber (for pollution control) is installed for disposing the napkins. Wet scrubber is attached at the outlet of burner fumes where the fumes gets scrubbed in water and gets filtered to remove the harmful emissions.
- 15 Nos new AC buses, which are BS-IV compliant vehicles, have been provided for induction into the student transport fleet from July 2018.
- 33% of Carbon foot print is offset by the above environment friendly measures in campus.

and the second s	VIKRAM	SOLAR L	TD.		Fax Phone	:03174222647	13	
ENERGY ar	Toba Kolka	baco House kata - 700 001 Vest Bengal India			Phone Email Web Our VAT Our CST CIN No. PAN No. Our GSTI	No : 19471839268 :U18100W82005PT0 : AABCI5168D	n	
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<b>1</b> 3.2	50 KW					Basic V	Value			97,500.00
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<b>☆ vikramsolar</b>	VIKRAM SOLAR I Specal Economic Zone (S 743504, West Bengal	SEZ) Falta-	Fax : Phone Email : Web : VAT No. :	: 03174-222643 : 03174-222647 : pvsales@vikramsolar.com : www.vikramsolar.com : 19471839074		Bring	
			CST No. :	: 19471839268		M	
and the second	1	o forma Inv	voice				
Sold to Party :	Customer's Ship to	o Party :		P.O No.	BASU/EL/MAIN	J/P.O-2018/984	
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Rahman University	PAN Reg. No. :	Vandalur	Chennai	Doc. Curr		: INR	
Vandalur Chennai	CST Reg. No. : T	amil Nadu	PIN-6-00048	Cust. PO		N.A	
Tamil Nadu PIN-6-00048	VAT Reg. No. :	India		Date		05.10.2018	
india				Weight-Volu	me (kg)		
No Material Materia	l Description	Price	Price /Wp	Unit Price	Quantity	Value	
1 20380 Eldora VSP.72.AAA.0		INR	30.00	9,750.00	10.00	97,500.00	
			Total Module Price			97,500.00	
			GST -	5%			
			Gross Value			4,875.00	
			Net Value	-		1,02,375.00	
			. vet value			1,04,07 5.00	
	Allahabad Bank Industrial Finance Branch, 17, R.N Mukherjee Road, Ko	olkata-700001					
Performance Warrantee Freight Pavment Tax Delivery Schedule artial Shipment: opecial Remarks 1. All disputes are subject to Kolkata Court's 2. Payment by 'A/c Payee Cheque' or Bank D	Industrial Finance Branch, <u>17, R.N Mukherjee Road, Ko</u> Account No. 50036344041 IFS CODE: ALLA0211501. 10 years Limited Warranty on products Warranty on 90% power outpu : CIF Chennai : GST - 5% Extra : 2 weeks after receiving PO : Not Applicable : Unloding will be taken care by Jurisdiction Only. braft or Bank Transfer only.	s and Workman 11.25 Years limit y consignee.	ted warranty on 80% power out	put			
	Industrial Finance Branch, <u>17, R.N Mukherjee Road, Ko</u> Account No. 50036344041 IFS CODE: ALLA0211501. 10 years Limited Warranty on products Warranty on 90% power outpu : CIF Chennai : GST - 5% Extra : 2 weeks after receiving PO : Not Applicable : Unloding will be taken care by Jurisdiction Only. braft or Bank Transfer only.	s and Workman 11.25 Years limit y consignee.	ed warranty on 80% power out ) will be charged For V	E COR			

Original for Recipient



### Tax Invoice

#### FOURTH PARTNER ENERGY PRIVATE LIMITED

Reg Office :704, Krishna Appartments, Tilak Road, Abids, Hyderabad- 500001, India Factory: Fourth Partner House, Plot No.N46, H.No.4-9-10, HMT Nagar, Hyderabad- 5000076 T : +91-40-64631123 | Email : info@fourthpartner.co | website : www.fourthpartner.co C I N NO: U40108AP2010PTC070806

GSTIN Number: **36AABCF6092M1Z8** Tax is Payable on Reverse Charge: **No** Invoice Seriol No.: **TSI/07-18/099** Invoice Date<u>: 31-07-2018</u> **Supplier Code: 36** PO No.: BSAU/Maint/EL/PO/2014/96

Bill To:

Dt.30-05-2014

#### M/s. B S Abdur Rahman Institute of Science & Technology A Muslim Minority Institution (Formerly B.S.Abdur Rahman Crescent Engg. College) Seethakathi Estate, G.S.T. Road, Vandalur CHENNAI - 600 048.

State Code: 33 GSTIN Number: Un Registered Transportation Mode: LR No./Docket No.: Transporter: Vehicle No.: -Date of Supply: Oct16 to Oct17 Place of Supply : Chennai

#### Site Location

M/s. B S Abdur Rahman Institute of Science & Technology A Muslim Minority Institution (Formerly B.S. Abdur Rahman Crescent Engg, College) Seethakathi Estate, G.S.T. Road, Vandalur CHENNAI - 600 048.

State Code: 33 GSTIN Number: Un Registered

Sl.No.	Description of Goods	HSN Code	Quantity	UOM	Unit Rate	Taxable Value
1	AMC for 100 KWp SPV Plant Installed at BSA University, Chennai	998719	1	Year	63,559	63,559
			-			

IGST CGST SGST

10000 1000 p Solar glens 3rd Reen

AME Cost 1.6097

Invoice Value (in words) : Rupees Seventy Five Thousand Only

Bank Details: Name of the Bank: RBL Bank Limited Name of the Branch: Ameerpet Branch, Hyderabad Cash Credit Account No.: 609000467653 IFSC Code: RATN0000112

18.00%	11,441	
0.00%		
0.00%	-	11,441
Total Rs.		75,000
Freight Charges		-
Loading & Pack	-	
Insurance Charg	-	
Other Charges		-
Invoice Total R	S	75,000

For Fourth Partner Energy Private Limited

Authorized Signatory

#### Original for Recipient



#### **Tax Invoice**

#### FOURTH PARTNER ENERGY PRIVATE LIMITED

Reg Office :704, Krishna Appartments, Tilak Road, Abids, Hyderabad- 500001, India Factory: Fourth Partner House, Plot No.N46, H.No.4-9-10, HMT Nagar, Hyderabad- 5000076 T : +91-40-64631123 | Email : info@fourthpartner.co | website : www.fourthpartner.co C I N NO: U40108AP2010PTC070806

GSTIN Number: 36AABCF6092M1Z8 Tax is Payable on Reverse Charge: No Invoice Seriol No.: TSI/10-18/168 Invoice Date: 12-10-2018 Supplier Code: 36 PO No.: BSAU/Maint/EL/PO/2014/96

Dt.30-05-2014

Bill To: M/s. B S Abdur Rahman Institute of Science & Technology A Muslim Minority Institution (Formerly B.S.Abdur Rahman Crescent Engg. College) Seethakathi Estate, G.S.T. Road, Vandalur CHENNAI - 600 048.

State Code: 33 GSTIN Number: Un Registered Transportation Mode: LR No./ Docket No.: Transporter: Vehicle No.: -Date of Supply: October 2017 to October 2018 Place of Supply : Chennai

#### Site Location

M/s. B S Abdur Rahman Institute of Science & Technology A Muslim Minority Institution (Formerly B.S.Abdur Rahman Crescent Engg. College) Seethakathi Estate, G.S.T. Road, Vandalur CHENNAI - 600 048.

State Code: 33 GSTIN Number: Un Registered

Sl.No.	Description of Goods	HSN Code	Quantity	UOM	Unit Rate	Taxable Value
1	AMC for 100 KWp SPV Plant Installed at BSA University, Chennai	998719	1	Year	63,559	63,559
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						10000
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16

AMC charge boy IGST CGST' SGST

18.00%	11,441	
0.00%	-	
0.00%		11,441
Total Rs.		75,000
Freight Charge		
Loading & Pacl	-	
Insurance Char		
Other Charges		

For Fourth Partner Energy Private Elmited

Invoice Value (in words) : Rupees Seventy Five Thousand Only

#### Bank Details:

Name of the Bank: RBL Bank Limited Name of the Branch: Ameerpet Branch, Hyderabad Cash Credit Account No.: 609000467653 IFSC Code: RATN0000112

Authorized Signatory



## 7.1.3 SAMPLE DOCUMENTAL EVIDENCES FOR RENEWABLE ENERGY SOURCES

B.S.Abdur Rahman Crescent Institute of Science and Technology undertakes initiatives to obtain energy from various natural resources. The Institute is pioneer in establishing renewable energy sources to meet the energy requirement of the campus.

- Three Roof top solar power plants of total capacity of 550 KWp (against the sanctioned demand of 1100 KW)are installed in our campus.
- Biogas plant is also installed in our campus



## SOLAR PANEL INSTALLED AT ROOF TOP IN VARIOUS BLOCKS







### **BIOGAS PLANT**



## FEEDING WASTE TO BIOGAS PLANT

