

GREEN CAMPUS POLICY

Introduction

Today the entire world is facing the problem of environmental degradation which is causing depletion of resources such as quality air, water and soil; the destruction of ecosystems; habitat destruction; the extinction of wildlife; and pollution. Environmental changes are based on factors like urbanization, population and economic growth, increase in energy consumption, excessive use of fossil fuel, undue use non-biodegradable materials and agricultural intensification. The degradation has adverse impacts on humans, plants, animals and micro-organisms. To cope up with the critical situation, we need to make optimum use and management of resources, sustainable development, adoption of green concept and above all community participation in all developmental activities.

Scope

The Green Campus Policy will lead to formulation of certain procedures, process and co-curricular and extracurricular practices that encourage all the stake holders of the Institute to take the lead in creating positive change. These initiatives call for a thorough review of all infrastructural, administrative functions from the standpoints of energy efficiency, sustainability and the environment. Following are the some of the focus area of the policy.

- Energy Conservation
- Use of renewable energy through solar systems.
- Rain water Harvesting.
- Solid Waste Management.
- Sewage Treatment and Recycling Plant
- E-Waste Management.
- Environmental Awareness campaign.
- Green Audit & Energy Audit.
- Plastic-Free Campus

Objectives of the Policy

- To protect and conserve ecological systems and resources within the campus.
- To ensure judicious use of environmental resources to meet the needs and aspirations of the present and future generations.
- To integrate environmental concerns into policies, plans and programmes for social development and outreach activities.
- To work with all stakeholders and the local community to raise awareness and seek the adoption of environmental good practice and the reduction of any adverse effects on the environment.
- To continuously improve our contribution to climate protection and adaptation to climate change and to the conservation of global resources.
- To continuously improve the efficient use of all resources, including energy and water, and to reduce consumption and the amount of waste produced, recovering and recycling waste where possible.
- To make the campus plastic free.

- To conduct environmental/Green audit and energy audits from time to time.
- To minimize the use of paper in administration through having policy for E-governance.

Policy

ATME College of Engineering is committed for conducting their operations and activities in an environmentally responsible and sustainable manner. ATMECE is committed to complying with all applicable laws and regulations of both Central and State Government. We recognize that reducing and, where possible, eliminating the environmental impacts of our activities is an important part of our operations. We strive to be a leader among the Education Institutes in achieving environmental excellence and will work with our both internal and external stake holders to establish and follow principles, of Sustainable Environmental practices.

The guiding principles and practices to achieve resource conservation, waste reduction, and sustainability overall are summarized below:

- Comply with mandatory requirements and conduct our activities and operate our facilities within applicable environmental laws and regulations.
- Conserve energy and other natural resources.
- Reduce, reuse, and recycle to reduce waste.
- Minimize the production of hazardous waste.
- Adopt green procurement practices.
- Ensure all employees complete the environmental awareness training.
- Adopt Green Audit & Energy Audit to minimize the impacts of our activities on environment.

CLEANLINESS OF CAMPUS.

ATMECE is committed for cleanliness and hygiene in the college and beyond the campus in accordance with the vision of Swachh Bharat Abhiyan. It commits to continue with this Programme. The broad vision is as follows:

1. Generating mass awareness on cleanliness and hygiene amongst students and staff members by holding regular cleanliness drives. The idea is to motivate them to contribute in a proactive manner.
2. Cleanliness drives are organized involving NSS, NCC and other student bodies' and volunteers of the college.
3. Events such as poster and slogan competitions, essay writing, poetry, speeches, and skits on importance of cleanliness will be organized.
4. Administer of the pledge by students and staff members to maintain cleanliness of the college campus and its surrounding areas on an annual basis.
5. Commit to manage waste and maintain clean campus especially during college events.

Landscaping

Landscaping is an important element of the campus which provides outer space for students study, games, exercise, leisure, recreation, outdoor entertainment and aesthetics. Green campus landscapes also manage runoff, help recharge groundwater, and clean and cool the air on campus. The landscape serves as a visual representation

of the campus community's commitment to sustainability. As campus landscapes are so visible and accessible, landscaping initiatives are a great way to build awareness around the environment.

ENERGY CONSERVATION

- ATMECE commit to install environment friendly electrical appliances that save energy and reduce wasteful inefficiencies by adopting energy efficient light like LEDs, low energy fixtures, energy efficient pumping system, energy efficient motors and other equipment, etc.
- In a phased manner all CFL lights will be replaced by energy efficient LED lightings.
- Adopt staggering of electric power loads to reduce maximum demands.
- All the Fans, Lights and Air conditioners will be maintained in the switched off mode when not in use. The slogans insisting the necessity to switch off the Fans, Lights & ACs displayed above to all the switch boards in the campus.
- Activate the power down features on your computer and monitor to enter into a low-power or sleep mode when not in use.
- Unplug equipment that drains energy even when not in use.
- Use the stairs when possible.

USE OF RENEWABLE ENERGY SOURCES

- ATMECE is dedicated to minimize and sustainably manage its use of electricity. The college believes in reducing the consumption of electricity produced by non-renewable resources by switching to clean energy sources like solar energy for purposes like lighting the campus. Utilization of renewable energy sources such as Roof top SPV system connected to grid, Solar streetlights, Solar heaters is encouraged.
- A master plan for entire campus should be prepared keeping in view the overall reduction in fossil-based energy by at least 25% in the next 5 years by utilized renewable energy application, and taking suitable measures for energy conservation and energy efficiency.

WATER CONSERVATION, RAIN WATER HARVESTING & GROUND WATER RECHARGING.

- ATMECE is committed to conservation of water by adopting water saving appliances like, lower flow and sensor taps, low flush toilet tanks, posters & signage reminding importance of water conservation.
- Employment of a caretaker to take immediate steps to stop any water leakage through taps, pipes, tanks, toilet flush, etc.
- Implementation of Ground water recharging system and Collection & Utilization of Rainwater by harvesting the roof top rain water.
- Utilization of recycled water for landscaping & gardening purpose.

SOLID WASTE MANAGEMENT

ATMECE aims to provide holistic education that also has a positive impact on the environment. ATMECE will adopt practices that will mitigate the generation, and manage solid waste through the following methods:

- Systematically engage with the 3 Rs' of environment friendliness (Reduce, Reuse and Recycle).
- Collect paper waste produced on campus and collaborate with scrap dealers for recycling.
- Segregating the solid waste by providing separate dustbins for bio-degradable and plastic waste. Metal waste from the workshop shall be stored and given to authorized scrap agents for further processing.
- Reduce use of paper by supporting digitization of attendance and internal assessment records.
- Reduce requirement of printed books by updating the e-books and e-journals collection of the college library.
- Encourage the students and teachers to use emails for assignment submissions.
- Take initiatives to spread awareness among students about
- Food wastage and ways of minimizing it.
- Minimizing the use of packaged food.
- The habit of reusing and recycling non-biodegradable products.

SEWAGE TREATMENT PLANT

ATMECE is committed for reuse of sewage by properly treating it at the dedicated Sewage treatment plant. Suitable capacity of Sewage Treatment Plant with aeration tank, settling tank, clarifier and a filtered water storage tank. Treated plant will be used for gardening.

E-WASTE MANAGEMENT

E-waste or Electronic waste describes discarded electrical or electronic devices. E-waste typically includes discarded computer monitors, motherboards, Cathode Ray tubes (CRT), Printed Circuit Board (PCB), mobile phones and chargers, compact discs, headphones, white goods such as Liquid Crystal Displays (LCD)/ Plasma televisions, air conditioners, refrigerators and so on. Following are some of the measures adopted in college with regard to E-waste management.

- **Re-evaluate.** Try to avoid an extra gadget with finding one device with multiple functions.
- **Extend the life of your electronics.** Keeping the device well maintained will extend the life thereby avoiding procurement of new one.
- **Buy environmentally friendly electronics.** Look for products labelled Energy Efficient labelled by Bureau of Energy Efficient.
- **Donate used electronics to social programs**—outdated and obsolete computer or any other electronic gadget are donated to social programs.
- **E- Bins:** To manage e-waste, e-bin is installed which will be collected by KSPCB authorized e-waste recycler or e-waste disposer.

ENVIRONMENT AWARENESS TO STUDENTS & PUBLIC

Outreach and education are of utmost importance so that all members of the campus community may value the objectives of the policy and aid in its implementation. This is why ATMECE supports and encourages awareness campaigns, seminars, workshops, conferences and other interactive sessions to facilitate effective implementation of the Green Campus Policies.

ATMECE encourages all the departments and specific student societies like Green society, NSS, NCC and others to organize events, competitions and training sessions that will bring about positive environmental changes at the grass root level. The college supports departments and student societies in moulding the students into active agents of environment protection and conservation.

PLASTICE & SMOKING FREE ZONE

ATMECE has been observing most of its duties in terms of solid waste management since its inception. In view of the Government of India's resolution to ban all single use plastics due to the hazardous impact of plastic use and pollution, the college administration strictly bans the use of single use plastics in its premise to make it a 'Plastic Free Campus'.

In compliance with the framework provided by the National Tobacco Control Programme (NTCP) 2007-08 the college prohibits smoking and the use of other tobacco products. As a step in this direction, smoking and use of tobacco in and around the campus is strictly prohibited. The college ensures enforcement of the anti-smoking policy.



CHAMUNDESHWARI ELECTRICITY SUPPLY CORPORATION LIMITED
(Government of Karnataka under taking)

Phone: 24499906, Fax: 2440121,
Email: www.eeenrmohalla@gmail.com

Office of the Executive Engineer (Elec),
NR.Mohalla Division, MP&L Buildings,
Sri Harsha road, Mysuru.

EE (E) / AEE (E) (O) / AE (T) / SRTPV / 2015-16 / 10793

dated: 11.2.16

To,
The Chairman,
Academy for Technical & Management Excellence,
#2904 CH67, 2nd Floor, Saraswathipuram,
Near fire station, Mysuru-570009.

Madam/Sir,

Sub: Approval for installing **95 kWp** solar RTPV system.

Ref: 1. Application Reg. No.0002908 dated: 21.01.2016
2. Technical details submission letter No. AEE(E)/AE(T)/NRM/2015-16/
dated 25.02.2016 of NR Mohalla subdivision

Approval is herewith accorded, after verifying the technical details furnished by you, for installing Solar RTPV system of 95kWp on your rooftop with the following conditions.

3. Bi-directional meter shall be purchased from CESC or any other ESCOMs approved vendors and to be fixed at net-metering point.
4. The existing metering, wiring, service main work and the capacity of existing DTCs to be changed suitably by the consumer on his own cost to solar power generation side in presence of AEE/EE, MT Division, CESC, Mysore to measure solar generation.
3. You are requested to submit the following documents after completion of Solar RTPV system installation:
 - Facilitation fee of **Rs.5000.00** shall be paid and enclose the copy of receipt.
 - Test Certificate of bi-directional meter from MT division, CESC, Mysore.
 - Inspection Report by AEE (Below 10 kWp)/ CEI, GoK (For capacity above 10kWp)
 - Copy of Power Purchase Agreement on Rs.200/- stamp paper with CESC, Mysore.
 - Work completion report from system Installer as per Format-6A.
 - Facing sheet of Bank pass book containing details of Name of the Bank, Type of account, Account No, Name of Branch, IFSC code etc.

This approval is valid for 180 days from the date of this letter and the SRTPV system is to be commissioned within this period, failing which the approval will be treated as cancelled.

Yours faithfully


Executive Engineer (Elec)
ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ಐ)
N.R. Mohalla Division
ಜಾ.ವಿ.ಸಿ.ಸಿ.ಸಿ. ಕಾರ್ಯ ಮತು ಪಾಲನೆ
CESC, Mysuru
ಎನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು

Copy for the information to:

- The Assistant Executive Engineer (Elec), N.R.Mohalla Sub division, CESC, Mysuru.
- AEE (E) (O)/T-1

List of Documents

Sl.No	Particulars	Available (Yes/No)
1	Copy of Format – 8A – Certificate of Synchronisation dated 15th Sept 2016	Yes
2	Copy of Format – 7 – Approval for Commissioning & Synchronisation dated 8 th Sept 2016	Yes
3	Copy of Format – 6C–Checklist for Solar Rooftop PV System grid safety qualification dated 8 th Sept 2016	Yes
4	Copy of CEIG electrical safety approval letter dated 12 th Sept 2016	Yes
5	Original CEIG drawing approval dated 7 th Sept 2016	Yes
6	Copy of Approval for dismantling of 1*100KVA 11kV/433V Transformer dated 12 th Sept 2016	Yes
7	Warranty terms & conditions – Seraphim Solar PV Modules along with confirmation letter from Seraphim Solar Systems Co., Ltd	Yes
8	Warranty terms & conditions – GoodWe Inverters	Yes
9	Test Report for GoodWe Inverters	Yes





Chamundeshwari Electricity Supply Corporation Limited, Mysore
(Government of Karnataka undertaking)

Format - 8A

Office of the

Telephone :

Email ID :

Ref No.: EE / AEE (E) (D) AET / SRTPV / 2015-16 / 11051A
Date: 9.9.2016

To, Chairman, ATNE College of Engineering,
13th KM Milestone,

(Name & address of the applicant)
Mysore - Kanakapura - Bangalore Road, Mysore-28

Madam/Sir,

Sub: Certificate of synchronization of your 95 kWP SRTPV system

Ref: Application Reg. No. 002908 dtd: 21-01-2016

Synchronization test of Solar Rooftop PV system of 95 kWP, installed
on the roof of your installation bearing RR No.: HTA66 has been conducted

and your SRTPV system found satisfactory and successfully synchronized with the CESC grid on
date: 09-09-2016

Yours faithfully,
[Signature]
15/9

AEE/Executive Engineer(Ele)
O&M division, CESC
ಬಾ.ವಿ.ಸ.ನಿ.ನಿ., ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ
ಎಸ್.ಆರ್. ಜೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು

Format - 7

Chamundeshwari Electricity Supply Company Limited, Mysore
(Government of Karnataka undertaking)

Office of the EE/ AEE (Elec.)

Date:

Telephone :

Email ID : EE (E)AEE (O) (AE(T) SRTPV/2015-16/11051A

: Ref No.:

Date

To, Chairman, ATME College of Engineering, 13th KM Milestone,
Mysore - Kanakapura - Bangalore Road, Mysore - 28
Madam/Sir,

Sub: Approval for commissioning95..... kWp solar RTPV system.

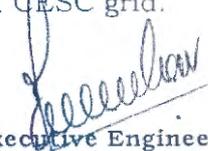
Ref: 1. This office approval letter No.: 11051A dtd: 17-3-2016

2. RR No. & Account ID:HT466.....

3. Your work completion letter No.: dtd: 07-09-2016
_kWp of Solar RTPV

After verifying, all the documents submitted by you, system is approved for arranging testing, commissioning and synchronization of the SRTPV system with CESC grid.

Yours faithfully,


AEE/Executive Engineer (Ele)
O&M Sub-UV/Division, CESC (M)
ಬಾ.ವಿ.ಸ.ನಿ.ನಿ., ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ
ಎನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು
8/9/16

Copy submitted to:

1. General Manager (Tech), Corporate office, CESC, Mysore.
2. Superintending Engineer Elec., Commercial, CESC, Mysore



CHAMUNDESHWARI ELECTRICITY SUPPLY CORPORATION LIMITED, Mysore
(Government of Karnataka Undertaking)

Office of the AEE,

O&M Sub division....

No. 11051A

Date: 08-09-2016

CHECKLIST FOR SOLAR ROOFTOP PV GRID SAFETY QUALIFICATION

1.0 Solar RTPV - Customer and Location Data

1	Customer Name	Chairman, ATME College.
2	Address	of Engineering, 13 th KM Milestone, Mysore - Kahakapura - Bangalore Road, Mysore
3	RR No.	HT 466
4	Customer Contact- Email	office@atme.in
5	Customer Contact- Mobile no.	
6	SRTPV Installer - Name & address	Evervolt Solar Pvt. Ltd, # 89/40, 4 th Mn, Telecom Layout, Bangalore - 560026
9	CESC- officer in Charge	AEE NR Mohalla Sub-division

2.0 Component Inspection Checklist

Sl No.	Item type	YES	NO
1	Installation layout - is it as per drawing?	✓	
2	Inverter IS / IEC standards qualified	✓	
3	PV panel IS / IEC standards qualified	✓	
4	PV isolators/PV cables IS/ IEC standards qualified	✓	
5	AC disconnect manual switch provided	✓	
6	Meters from MT staff approved? (as per meter regulations)	✓	
7	Any other critical component IS / IEC standards certified	—	

3.0 Grid -Functional Safety Checklist

Sl No.	Item type	YES	NO
1	Check-PV inverter anti islanding (utility side). Disconnect Grid and check whether PV generator seizes Generation immediately	✓	
2	Check Reconnect time.: Reconnecting to the Grid, PV generator reconnects to grid with minimum 60 seconds later (Single phase) or minimum 300 seconds later (Three phase connectivity)		
3	Bi-directional flow recorded on CESC Meter	✓	
4	Consumption (Import) only mode ok?	✓	
5	PV inverter anti islanding tested at array side	✓	
6	Solar Generation meter OK?	✓	
7	Check all earthing provided at ACDB/DCDB/LA	✓	

I hereby certify that the PV installation is qualified to be connected to CESC Grid.

AEE (Ele),

O&M sub-division, CESC

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
(ವಿದ್ಯುತ್ ಪರಿವೀಕ್ಷಣಾ ಇಲಾಖೆ)

Office of the
Additional Chief Electrical Inspector,
No.1360, Anikethana Road,
"G" & "H" Block, Kuvempunagar,
Mysuru -570 023

No: ACEI(MYS)/01 TEC/57 ACI/2016-17/ 4102

Date: 07-09-2016

To,
THE CHAIRMAN,
ATME COLLEGE OF ENGINEERING,
13TH KILOMETER, MYSURU-KANAKAPURA-BENGALURU ROAD,
MYSURU - 570 028.

Sir,

Sub: Approval of drawings pertaining to the 95kWP solar roof top PV installation, replacement of existing HT Metering cubicle with new HT Metering cubicle & 1x250kVA 11kV/433V transformer sub-station replaced in place of the existing 1x100kVA 11kV/433V transformer HT installation bearing CESC R.R.No:HT-466 installed at ATME College of Engineering, 13th Kilometre, Mysuru-Kanakapura - Bengaluru Road, Mysuru.

Ref : Your Letter dated:06.09.2016 - seeking approval for the said installation drawings.

Please find herein enclosed the drawings in duplicate referred to the above duly approved after effecting necessary corrections and with observations in the note in **Red Ink**. You may take up the work through a Licensed Electrical Contractor of Class 1 or above as per the approved drawings and after completing the work contact the undersigned along with the following particulars to arrange for inspection.

1. Test Reports of PV modules from MNRE approved agencies.
2. Original challon for having remitted in to the Govt. treasury (Budget Head: 0043 Non Plan T & D on Electricity) Inspection fees of ₹: 6,600/- (Rupees Six Thousand Six Hundred Only).
3. Manufacturers Test report of the Inverter, Transformer, Cable, & Metering System.
4. Calibration test certificate of the metering system viz. current transformer & Energy meters.
5. Copy of Dismantling Approval of the existing HT Metering cubicle & 100kVA 11kV/433V transformer obtained from this department.
6. Completion Report of the Licensed Electrical contractor in Form-B1 for having completed the works as per the approved drawings along with the following details:
 - a. Copy of Electrical contractor license
 - b. Copy of Supervisor permit along with endorsement
 - c. Copy of Form-Z
 - d. Form -A1

NOTE: 1. SOLAR GENERATION METER AND BI-DIRECTIONAL METER SHALL BE AS PER CEA GUIDELINES & SHALL BE PROCURED FROM APPROVED VENDORS OF CESC, MYSURU.

2. ALL THE TEST CERTIFICATE OF THE EQUIPMENTS SHALL BE IN ACCORDANCE TO INDIAN STANDARD/IEC.

3. TYPE TEST CERTIFICATE OF THE EQUIPMENTS SHALL BE FURNISHED.

Further, drawing scrutiny fee of ₹:1250/- (Rupees One Thousand Two Hundred and Fifty only) paid vide challon No:16 dated:20.08.2016 at SBM, Treasury Branch, Mysuru is hereby acknowledged.

Yours faithfully,



ADDITIONAL CHIEF ELECTRICAL INSPECTOR
ADDITIONAL CHIEF-ELECTRICAL INSPECTOR

Copy to: The Deputy Electrical Inspector, Mysuru North, Mysuru for information. MYSURU

ದೂರವಾಣಿ: 0821-2463177

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
(ವಿದ್ಯುತ್ ಪರಿವೀಕ್ಷಣಾ ಇಲಾಖೆ)

ಅವರ ಮುಖ್ಯ ವಿದ್ಯುತ್ ಪರಿವೀಕ್ಷಕರ ಕಛೇರಿ,
ನಂ:1360, 'ಜೆ' & 'ಕೆ' ಬ್ಲಾಕ್, ಅನಿಲೇತನ ರಸ್ತೆ,
ಕುವೆಂಪುನಗರ, ಮೈಸೂರು.

No: ACEI(MYS)/TEC 233 DIN/ 4198-99/2016-17

Date: 12/09/16

TO,

ACADEMY FOR TECHNICAL & MANAGEMENT EXCELLENCE (ATME),
13th KM, MELLAHALLI CIRCLE, MYSURU-BANNUR ROAD,
MYSURU TALUK & DISTRICT.

Sir,

Sub: Dismantling approval for the 1 x 100KVA 11kV/433V transformer at the said premises.

- Ref:** 1. Letter No: DCEI/MYS/EI-N/HT/2945-47 dt: 20.9.2010 from the Electrical Inspector, Mysuru North, Mysuru according commissioning approval for the 100KVA 11kV/433V transformer.
2. Your Letter No: NIL dt: 8.9.2016 received at this office on 12.9.2016 seeking dismantling approval for the 100KVA 11kV/433V transformer.

With reference to the above, approval is hereby accorded to dismantle the 100 KVA 11kV/433V transformer with the following details of ATME college of Engineering, 13TH Km Mile stone, Mysuru-Kanakapura-Bangalore Road, Mysuru.

This approval is accorded as per your specific request under ref(2)

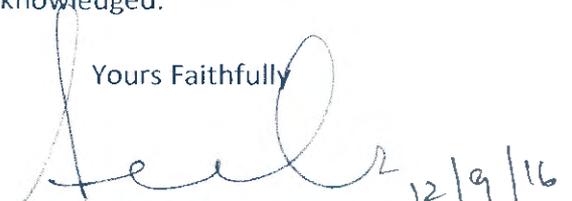
Equipment Details:

1.100KVA 11KV/433V Transformer.

1. Transformer: Make: Techno Power Corporation,
100 KVA, 11kV/433V, SI.No: TPC-100106021.

Fee of Rs 700/- (Rupees Seven Hundred only) towards issue of dismantling certificate paid vide D.D. No: 203692 dt: 9.9.2016 at ICICI Bank is hereby acknowledged.

Yours Faithfully


DEPUTY ELECTRICAL INSPECTOR
MYSURU NORTH
MYSURU

Copy for information to

1. The Assistant Executive Engineer(Ele), O & M, CESCO, N.R.Mohalla S/D, Mysuru.
2. MC/OC.

ಕರ್ನಾಟಕ ಸರ್ಕಾರ
(ವಿದ್ಯುತ್ ಪರಿವೀಕ್ಷಣಾ ಇಲಾಖೆ)

Office of the
Additional Chief Electrical Inspector,
No.1360, Anikethana Road,
"G" & "H" Block, Kuvempunagar,
Mysuru -570 023.

No: ACEI(MYS)/02 TEC/58 ACI/2016-17/

4184-85

Date:

12/09/2016

SPP No: ACEI/MYS/13 SPP/2016-17

To,
THE CHAIRMAN,
ATME COLLEGE OF ENGINEERING,
13TH KILOMETRE, MYSURU-KANAKAPURA-BENGALURU ROAD,
MYSURU - 570 028.

Sir,

Sub: Electrical Safety approval for the 95kW solar roof top PV installation, replacement of existing HT Metering cubicle with new HT Metering cubicle & 1x250kVA 11kV/433V transformer sub-station replaced in place of the existing 1x100kVA 11kV/433V transformer HT installation bearing CESC R.R.No:HT-466 having existing 1x100kVA 415V DG Set installed at ATME College of Engineering, 13th Kilometre, Mysuru - Kanakapura - Bengaluru Road, Mysuru.

Ref: 1.This Office Letter No: ACEI(MYS)/01 TEC/57 ACI/2016-17/4102 dated: 07.09.16 – approving the drawings.
2.Your Letter dated:08.09.2016 - seeking approval for the said installation.

With reference to the above, your above mentioned electrical installation was inspected on 09.09.2016 and Electrical Safety approval as required under Regulation 32 & 43 of Central Electricity Authority (Measures relating to safety & Electric Supply) Regulations 2010, is hereby granted for your 95kW solar roof top PV installation, replacement of existing HT Metering cubicle with new HT Metering cubicle & 1x250kVA 11kV/433V transformer sub-station replaced in place of the existing 1x100kVA 11kV/433V transformer HT installation bearing CESC R.R.No:HT-466 at ATME College of Engineering, 13th Kilometre, Mysuru-Kanakapura - Bengaluru Road, Mysuru.

This approval is strictly subject to your full compliance with the relevant provisions of Central Electricity Authority (Measures relating to safety & Electric Supply) Regulations 2010 (as amended to date) in every respect and subject to the conditions mentioned overleaf.

Equipment Details:

1. CESC R.R No. of the Existing Electrical Installation: HT-466.
2. Total No of Modules :302 each of 315WP totaling to approx. 95kW.
3. Inverter(4 numbers) :Make: Goodwe, Type:GW25K-DT,
DC Input: 1000Vdc max, MPPT 260-850Vdc,
640Vdc nom, 27/27Amax,
AC Output: 380/400Vac, 37Aa.c, 50/60Hz, 25kVA
Sl.No: 1025KDTU168R0024, 1025KDTU168R0025,
1025KDTU168R0026, 1025KDTU168R0027.

4. LT switchgear :Make: L & T, ABB,
200A 4P MCCB - 2 Numbers,
5. HT Switchgear :11kV 200A S/B GOS, 9kV 10kA Lightening Arrestor
(Existing DP Structure) & HG fuse unit
6. HT Cable :2R x 3C x 185 Sq.mm HT UG cable from existing DP
structure to HT Metering Cubicle with LBS Panel.
7. HT Metering Cubicle with LBS :Panel Make: Quality Engineering Works
Panel Sl.No: 053/16-17/MDS.
LBS Make: Pentagon Switchgear Pvt. Ltd.,
11kV, 630A, Sl.No: LB1652.
- i. Metering CTs :Make: Kalpa Electrical Pvt. Ltd.,
Ratio 5/1-1A, 2.5VA, Class 0.2,
Sl.No: 127065/16, 127066/16, 127067/16.
- ii. Metering PTs :Make: Kalpa Electrical Pvt. Ltd.,
11kV/ $\sqrt{3}$ /110V/ $\sqrt{3}$, 25VA, Class 0.2,
Sl.No: 127071/16, 127072/16, 127073/16.
- iii. Bidirectional :Make: L&T Electronic Trivectormeter,
Energy meter 3 Phase 4 Wire, ER-300P, 3x63.5V, -/1A, Class 0.2s,
Sl.No: 16192366, 16192403.
8. HT Cable :1R x 3C x 185 Sq.mm HT UG cable from HT
Metering Cubicle with LBS Panel to transformer.
9. Transformer :Make: Techno Power Corporation Ltd.,
250kVA, 11kV/433V, 13.12/347.8A,
Sl.No: TPC-23037.
10. LT Cable :2R x 3.5C x 185 Sq.mm LT Al UG cable from
transformer to LT Kiosk.
11. LT Kiosk :Make: Indo Asian,
400A 4P MCCB.
12. Solar Metering:
- i. Current Transformer: Make: Kalpa,
Ratio 200/5A, 3.75VA, Class 0.5s,
Sl.No: 240611/15, 240612/15,
240614/15, 240633/15.


12/19/16

ii. Energy meter :Make: Landis + Gyr Limited,
3 Phase 4 Wire, Model: E 650,
3x240V, 3 x -/5A, Class: 0.5s, 50Hz,
Sl.No: P0052834, Initial Reading: 0000000.3
Multiplying Constant: 40.

Initial Inspection fees of ₹: 6,600/- (Rupees six thousand six hundred only) paid vide ICICI Bank DD No. 203691 dated: 09.09.2016 is hereby acknowledged.

CONDITION

1. This approval is subject to condition of compliance of Central Electricity Authority (Measures relating to safety & Electric Supply) Regulations 2010, Electricity Act, 2003 and Karnataka Electricity (Taxation on consumption or Sale) Act, 2015.
2. License under Section 14 of Electricity Act 2003 shall be obtained from the KERC to transmit electricity or to distribute electricity or to undertake trading in electricity.
3. Monthly tax returns shall be filed in Form G and same shall be sent to the Office of Additional chief Electrical Inspector, Mysuru.
4. This approval shall be displayed in the control room.
5. Log book detailing/ showing day-to-day generation/consumption of energy shall be maintained.
6. The energy meter and CT's shall be got calibrated once in a year. Calibration may be done by the KPTCL or any other approved agencies.
7. The installation shall always be kept open for inspection of Electrical Inspectorate authorities.
8. Any change in the installation shall be intimated to this office and fresh approval shall be obtained.
9. It shall be the responsibility of the owner to maintain and operate the installation in a condition free from danger and as recommended by the manufacturer or by the relevant codes of practice of the Bureau of Indian Standards.
10. This approval can be withdrawn at any point of time if there is any objection raised from local competent authority.

Yours faithfully,


12/9/16.
ADDITIONAL CHIEF ELECTRICAL INSPECTOR
ADDITIONAL CHIEF ELECTRICAL INSPECTOR
MYSURU

Copy Submitted to: The Chief Electrical Inspector to Govt., Bengaluru for kind information.

Copy to: The Deputy Electrical Inspector, Mysuru North, Mysuru.

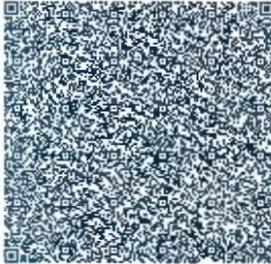


सत्यमेव जयते

INDIA NON JUDICIAL Government of Karnataka

e-Stamp

Certificate No. : IN-KA173102640046800
 Certificate Issued Date : 15-Mar-2016 11:04 AM
 Account Reference : NONACC (BK)/ kakscub08/ MYSORE SOUTH4/ KA-MY
 Unique Doc. Reference : SUBIN-KAKAKSCUB08838926963004640
 Purchased by : CHAIRMAN ATME COLLEGE OF ENGINEERING
 Description of Document : Article 12 Bond
 Description : AGREEMENT
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : CHAIRMAN ATME COLLEGE OF ENGINEERING
 Second Party : CESC MYSORE
 Stamp Duty Paid By : CHAIRMAN ATME COLLEGE OF ENGINEERING
 Stamp Duty Amount(Rs.) : 200
 (Two Hundred only)



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POWER PURCHASE AGREEMENT FOR ROOFTOP SOLAR PV PLANTS WITH NET METERING ARRANGEMENT

This Power Purchase agreement is entered into at Mysore on this 17th day of March 2016 between Chamundeshwari Electricity Supply Company Limited (CESCOM), a Government of Karnataka undertaking, a Company formed and incorporated in India under the Companies Act-1956, with its registered office located at Mysore Karnataka State, hereinafter referred to as the "CESCOM", (which expression shall, unless repugnant to the context or meaning thereof, include its successors and permitted assigns) as party of the first part represented by and Chairman, ATME College of Engineering, Mysore the consumer of CESCOM residing at 13th Kilometer, Mysore-kanakapura-Bangalore Road, Mysore - 570 028, hereinafter

for ATME

Statutory Alert:

1. The authenticity of the Stamp Certificate should be verified at "www.shcilestamp.com". Any discrepancy in the details on this Certificate Page 1 of 5 available on the website renders it invalid.
2. The onus of checking the legitimacy is on the users of the certificate.
3. In case of any discrepancy please inform the Competent Authority.

(Signature)
 ಕಾರ್ಯ ನಿರ್ವಹಣೆ ಇಂಜಿನಿಯರ್ (ವಿ)
 ಚಾ.ವಿ.ನ.ನಿ.ನಿ.. ಕಾರ್ಯ ಮತ್ತು ಬಾಡಿಗೆ
 ಎನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು

referred to as the "Seller" (which expression shall, unless repugnant to the context or meaning thereof, include its successors and permitted assigns) or party of the second part.

Whereas,

- a. The Seller intends to connect and operate the Solar Roof Top Photo Voltaic (SRTPV) system with ESCOM's HT/LT Distribution system for sale of Solar Power to ESCOM in terms of the Karnataka Electricity Regulatory Commission (KERC) Order No. S/03/01/2013 dated: 10.10.2013 or as amended from time to time.
- b. The Seller intends to install/has installed a SRTPV system of 95 kWp capacity on the roof top of the premises situated at ATME College of Engineering 13th Kilometer, Mysore-kanakapura-Bangalore Road, Mysore – 570 028 and connected to electricity service connection bearing number RR. No: HT466 in the same premises under N.R. Mohalla Sub-Division of CESCO.
- c. The Seller intends to sell net energy exported from the SRTPV system to ESCOM as recorded in the bi-directional meter installed in the seller's premises, from the date of commissioning of the SRTPV system.
- d. ESCOM intends to purchase net energy exported by such SRTPV system at the tariff determined by the KERC.

Now therefore, in consideration of the foregoing premises the parties hereto, intending to be legally bound hereby agree as under:

1. Technical and Interconnection Requirements: Seller shall ensure his SRTPV system complies with the following technical and interconnection requirement and shall:

1.1 Comply with the standards and conditions in respect of integrating the SRTPV system with the grid/distribution system.

1.2 Connect the SRTPV system to ESCOM's distribution system and shall be bound by requirements of State Grid and distribution Code as amended from time to time.

1.3 Install, prior to connection of SRTPV system to ESCOM's distribution system, an inverter with an automatic inbuilt isolation device.

1.4 Provide external manual isolation mechanism with suitable locking facility so that SRTPV system will not back-feed into the ESCOM's network in case of power outage of the ESCOM's distribution system, and it shall be accessible for officials of ESCOM to operate, if required, during maintenance / emergency conditions.

1.5 Install all the equipment of SRTPV system compliant with relevant International (IEEE/IEC) and Indian standards (BIS).

1.6 SRTPV system shall be designed, engineered and constructed and operated by the seller or on his behalf with reasonable diligence subject to all applicable Indian laws, rules, Regulations as amended from time to time and orders having the force of law.

1.7 Adhere to the following power quality measures as per the International and Indian standards and/or such other measures stipulated by KERC/ESCOM:

a. Harmonic current: Harmonic current injections from a generation unit shall not exceed the limits specified in IEEE 519.

b. Voltage at the injection point should be in the operating range of 80% to 110% of the nominal connected voltage.

c. Flicker: Operation of Photovoltaic system shouldn't cause voltage flicker in excess of the limits stated in the relevant sections of IEC standards or other equivalent Indian standards, if any.

for ATME

Chairman

d. Frequency: When the Distribution system frequency deviates outside the specified conditions (50.05 Hz on upper side and 47.5 Hz on lower side), the SRTPV system shall shift to island mode.

e. DC Injection: Photovoltaic system should not inject DC power more than 0.5% of full rated output at the interconnection point or 1% of rated inverter output current into distribution system under any operating conditions.

f. Power Factor: While the output of the inverter is greater than 50%, a lagging power factor of greater than 0.9 shall be maintained.

1.8 The SRTPV system in the event of voltage or frequency variations must island/disconnect itself as per IEC standards within the stipulated period.

2. The seller shall comply with the following safety measures:

2.1 The seller shall comply with the Central Electricity Authority (Measures Relating to Safety and Electricity Supply) Regulations 2010.

2.2 The seller shall ensure that, the design, installation, maintenance and operation of the SRTPV system are in a manner conducive to the safety of the SRTPV system as well as the ESCOM's distribution system.

2.3 If the Seller's SRTPV system either causes damage to and/or produces adverse effects on the other consumers' or ESCOM's assets, Seller will disconnect SRTPV system immediately from the distribution system by himself or upon directions from the ESCOM and rectify the same at his own cost before reconnection.

3. Clearances and Approvals: The Seller shall obtain ESCOM's and other statutory approvals and clearances before connecting the SRTPV system to the distribution system.

4. Access and Disconnection:

4.1 ESCOM shall have access to metering equipment and disconnecting device of SRTPV system, both automatic and manual, at all times.

4.2 In emergency or outage situation, where there is no access to a disconnecting device either automatic or manual, the CESCO shall have the right to disconnect power supply to the premise.

5. Liabilities: The Seller shall be solely responsible for availing any fiscal or other incentive provided by the State/ Central government, at his own expenses.

6. Commercial Settlement:

6.1 Tariff:

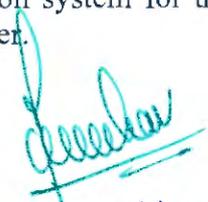
a. The CESCO shall pay for the net metered energy at Rs. 9.56 per KWh as determined by the KERC for the term of the agreement.

b. The Seller shall pay the Electricity tax and other statutory levies, pertaining to SRTPV generation, as may be levied from time to time.

c. The seller shall not have any claim for compensation, if the Solar power generated by his SRTPV system could not be absorbed by the distribution system due to failure of power supply in the grid/ distribution system for the reasons, such as line clear, load shedding and line faults, whatsoever.

for ATME

Chairman


ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ಪ)
ಬಿ.ವಿ.ಸಿ.ನಿ.ನಿ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ
ವಿನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು

7. Metering:

7.1 The parties shall arrange to shift the existing meter to the generation side of SRTPV to measure solar power generation and install Bi-directional meter (whole current/CT operated) for recording export and import of energy at the point of interconnection to the distribution system. The bi directional meter shall comply with the Central Electricity Authority (Installation and operation of meters) Regulations, 2006 and shall have the following features:

- i. Separate registers for recording export and import energy with facility to download by Meter Reading Instrument (MRI).
- ii. kVA, kW and kVAR measuring registers for both import and export.
- iii. Meter shall have RS232 (or higher) communication optical port / Radio Frequency (RF) port to support Automatic Meter Reading (AMR).

7.2 The seller shall install the meter of SRTPV system and bi directional meter in separate meter boxes in the same proximity or at a suitable place in the premises accessible for the purpose of recording the reading whenever necessary.

8. BILLING AND PAYMENT:

8.1 ESCOM shall issue monthly electricity bill for the net metered energy on the scheduled date of meter reading.

8.2 In case, the exported energy is more than the imported energy, ESCOM shall pay for the net energy exported as per Tariff agreed in this agreement within 30 days of issue of bills duly adjusting the fixed charges and electricity duty if any.

8.3 In case, the exported energy is less than the imported energy, the seller shall pay CESCO for the net imported energy as per the prevailing retail supply tariff determined by the Commission from time to time.

8.4 ESCOM shall pay interest at the same rates as is being levied on the consumers for late payment charges in case of any delay in payment for the net energy exported beyond 30 (thirty) days period from the date of issue of bill.

Explanation: Net metered energy means the difference of meter readings of energy injected by the SRTPV system into the grid (export) and the energy drawn from the grid for use by the seller (import) recorded in the bi-directional meter.

9. Term and Termination of the Agreement:

9.1 This agreement shall be in force for a period of 25 years from the date of commissioning of the SRTPV system unless terminated otherwise as provided here under.

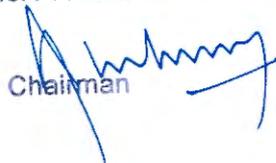
9.2 The Seller shall have the right to terminate this agreement at any time by serving a written notice 60 (sixty) days in advance to ESCOM.

9.3 if the Seller commits any breach of the terms of the Agreement, ESCOM shall serve a written notice specifying the breach and calling upon the seller to remedy/rectify the same within 30 (thirty) days or at such other period and at the expiry of 30 (Thirty) days or such other period from the delivery of the notice, ESCOM may terminate the agreement by delivering the termination notice, if the seller fails to remedy/ rectify.

9.4 Upon termination of this Agreement, seller shall disconnect the SRTPV system from the distribution system and intimate the same to ESCOM.

for ATME

Chairman



10. Dispute Resolution:

All the disputes between the parties arising out of or in connection with this agreement shall be first tried to be settled through mutual negotiation. The parties shall resolve the dispute in good faith and in equitable manner. In case of failure to resolve the dispute, either of the parties may approach the appropriate Forum of law.

IN WITNESS WHEREOF, the Seller and the CESC have entered into this Agreement executed on the date and year first set forth above.

For AND ON BEHALF OF Electricity Supply Company Limited	For AND ON BEHALF OF SELLER
<p>By: (Name): </p> <p>Designation:</p> <p>Address: ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ) ಜಿ.ವಿ.ಸಿ.ಸಿ.ಸಿ., ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ ಎಸ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು</p>	<p>By: (Name):  Chairman, ATME College of Engineering, Mysore</p> <p>RR No: HT 466</p> <p>Address: ATME College of Engineering, 13th Kilometer, Mysore-kanakapura- Bangalore Road, Mysore – 570 028</p>
<p>WITNESS : In Presence of</p> <p>Name:</p> <p>Designation:</p>	<p>WITNESS : In Presence of </p> <p>Name: Mohan M.</p> <p>Designation: Assistant Professor, E& E Dept, ATME College of Engineering, Mysore</p>
<p>WITNESS : In Presence of</p> <p>Name:</p> <p>Designation:</p>	<p>WITNESS : In Presence of</p> <p>Name:</p> <p>Designation:</p>

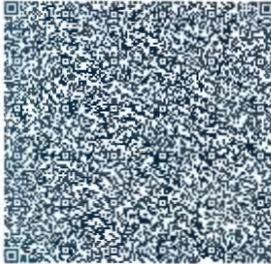


सत्यमेव जयते

INDIA NON JUDICIAL Government of Karnataka

e-Stamp

Certificate No. : IN-KA173102640046800
 Certificate Issued Date : 15-Mar-2016 11:04 AM
 Account Reference : NONACC (BK)/ kakscub08/ MYSORE SOUTH4/ KA-MY
 Unique Doc. Reference : SUBIN-KAKAKSCUB08838926963004640
 Purchased by : CHAIRMAN ATME COLLEGE OF ENGINEERING
 Description of Document : Article 12 Bond
 Description : AGREEMENT
 Consideration Price (Rs.) : 0
 (Zero)
 First Party : CHAIRMAN ATME COLLEGE OF ENGINEERING
 Second Party : CESC MYSORE
 Stamp Duty Paid By : CHAIRMAN ATME COLLEGE OF ENGINEERING
 Stamp Duty Amount(Rs.) : 200
 (Two Hundred only)



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for ATME

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2. The onus of checking the legitimacy is on the users of the certificate.
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(Signature)
 ಕಾರ್ಯ ನಿರ್ವಹಣೆ ಇಂಜಿನಿಯರ್ (ವಿ)
 ಚಾ.ವಿ.ನ.ನಿ.ನಿ.. ಕಾರ್ಯ ಮತ್ತು ಜಿಲ್ಲಾ
 ಎನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು

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for ATME

Chairman

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6.1 Tariff:

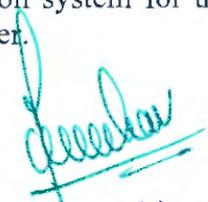
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for ATME

Chairman


ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ಪ)
ಬಿ.ವಿ.ಸಿ.ನಿ.ನಿ. ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ
ವಿನ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು

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8.2 In case, the exported energy is more than the imported energy, ESCOM shall pay for the net energy exported as per Tariff agreed in this agreement within 30 days of issue of bills duly adjusting the fixed charges and electricity duty if any.

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Explanation: Net metered energy means the difference of meter readings of energy injected by the SRTPV system into the grid (export) and the energy drawn from the grid for use by the seller (import) recorded in the bi-directional meter.

9. Term and Termination of the Agreement:

9.1 This agreement shall be in force for a period of 25 years from the date of commissioning of the SRTPV system unless terminated otherwise as provided here under.

9.2 The Seller shall have the right to terminate this agreement at any time by serving a written notice 60 (sixty) days in advance to ESCOM.

9.3 if the Seller commits any breach of the terms of the Agreement, ESCOM shall serve a written notice specifying the breach and calling upon the seller to remedy/rectify the same within 30 (thirty) days or at such other period and at the expiry of 30 (Thirty) days or such other period from the delivery of the notice, ESCOM may terminate the agreement by delivering the termination notice, if the seller fails to remedy/ rectify.

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for ATME

Chairman



10. Dispute Resolution:

All the disputes between the parties arising out of or in connection with this agreement shall be first tried to be settled through mutual negotiation. The parties shall resolve the dispute in good faith and in equitable manner. In case of failure to resolve the dispute, either of the parties may approach the appropriate Forum of law.

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For AND ON BEHALF OF Electricity Supply Company Limited	For AND ON BEHALF OF SELLER
<p>By: (Name): </p> <p>Designation:</p> <p>Address: ಕಾರ್ಯನಿರ್ವಾಹಕ ಇಂಜಿನಿಯರ್ (ವಿ) ಜಿ.ವಿ.ಸಿ.ಸಿ.ಸಿ., ಕಾರ್ಯ ಮತ್ತು ಪಾಲನೆ ಎಸ್.ಆರ್. ಮೊಹಲ್ಲಾ ವಿಭಾಗ, ಮೈಸೂರು</p>	<p>By: (Name):  Chairman, ATME College of Engineering, Mysore</p> <p>RR No: HT 466</p> <p>Address: ATME College of Engineering, 13th Kilometer, Mysore-kanakapura- Bangalore Road, Mysore – 570 028</p>
<p>WITNESS : In Presence of</p> <p>Name:</p> <p>Designation:</p>	<p>WITNESS : In Presence of </p> <p>Name: Mohan M.</p> <p>Designation: Assistant Professor, E& E Dept, ATME College of Engineering, Mysore</p>
<p>WITNESS : In Presence of</p> <p>Name:</p> <p>Designation:</p>	<p>WITNESS : In Presence of</p> <p>Name:</p> <p>Designation:</p>

E- Sugam 13502831440

APOLLO POWER SYSTEMS PVT. LTD.

Registered Office :#31, 1st Floor,1st Main Road,Chamarajpet, Bangalore - 560018
Factory : S - 1A,Peenya Industrail,Estates,Peenya 1st Stage,Near PF Office Road,Banglaore - 560 058
Tel:080 26500022/2698 1515 Fax: 080-26500033.

TAX INVOICE

Inv. No.: 338 Date: 25/8/2014		DC No.: 519 Date: 25/8/2014					
To M/s ATME College of Engineering 13th Kilometer, Mysore - Kanakpura - Bangalore Road, Mysore - 570028		DESPATCHED TO : M/s ATME College of Engineering 13th Kilometer, Mysore - Kanakpura - Bangalore Road, Mysore - 570028					
Your Order Ref: ATME/APS/2014-15/1407010 dt: 3.07.2014		Party's TIN. CST: Payment Terms : Immediate					
Sl.No	Item code	Particulars	Qty	Unit	Unit Rate	Amount	
						Rs.	Ps.
1		Supply of 12 Watts Automatic Solar LED Street Light & Solar Panel with necessary accessories as per DC Enclosed	15	Set	26,500.00	397,500	00
Total						397,500	00
VAT @ 5.5%						21,863	00
Grand Total						419,363	00
TIN:29 520044443 ST No..AABCA 1844 Q ST001 CIN: U85110KA1995PTC018346 ST CATEGORY : Erection & Installation PAN : AABCA 1844 Q E.&O.E							

Rupees : Four Lakhs Nineteen Thousand Three Hundred Sixty Three Only

for Apollo Power Systems Pvt. Ltd.,

Authorized Signatory



14:10.

26/8/14

E. Sugam 13512831870

APOLLO POWER SYSTEMS PVT. LTD.

Registered Office :#31, 1st Floor, 1st Main Road, Chamarajpet, Bangalore - 560018
Factory : S - 1A, Peenya Industrail, Estates, Peenya 1st Stage, Near PF Office Road, Bangalore - 560 058
Tel:080 26500022/2698 1515 Fax: 080-26500033.

TAX INVOICE

Inv. No.: 339		DC No.: 520					
Date: 25/8/2014		Date: 25/8/2014					
To M/s ATME College of Engineering 13th Kilometer, Mysore - Kanakpura - Bangalore Road, Mysore - 570028		DESPATCHED TO : M/s ATME College of Engineering 13th Kilometer, Mysore - Kanakpura - Bangalore Road, Mysore - 570028					
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ES RAO
Authorised Signatory


14.10
26/8/14

copy



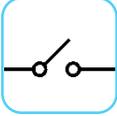
SENSE

Power Failure Alert System

Get informed about power condition of your industries or plant anywhere any time, Just by plugin - SENSE

Features

- Instant SMS And CALL Alert For Single and Three Phase Power Fail or Power Resume
- Alert For Multiple User Numbers(call, SMS)
- Recording One Month Data Log Of Power Availability
- Configurable Message String for every alerts
- Two Digital Inputs With Configurable SMS Alert String For External Sensor Connection
- Single Channel Relay Output Controlled through SMS from Remote Terminal
- SMS based Easy configuration
- Alert with time stamp
- Easy to Install and Integrate
- Internal Battery Backup



TVADARTHAM

for the sake of YOU

Specifications

Input Voltage	12V DC +/- 2V, 1Amp
Cellular Technology	Quad Band (GSM/GPRS) (850/900/1800/1900 MHz)
SIM Card Compatibility	3V and 1.8V - Micro SIM-Card
Antenna	3dbi External Magnetic Antenna
Power sense	Single phase from Input Power supply
Digital Input	2nos Potential Free contacts
Relay Output	1nos 250VAC/30VDC, 5Amp - Only NO contact
Battery	Li-ion 3.7V, 1000mAh
Indication	4nos LED - Network, Status, Alert and Power
Maximum user number	10 nos
Configuration	SMS
Operating Temperature	0 to 55 Degree C
Humidity	95% RH
Dimension (L x W x H)	90 x 75 x 50 (in mm)
Weight (with Antenna)	0.2 kg - Approx.

Applications



त्वदर्थम्

TVADARTHAM

for the sake of YOU

TVADARTHAM TECHNOLOGIES
PVT LTD

AHMEDABAD, GUJ, INDIA

Email: sales@tvadartham.com

Web: www.tvadartham.com