



IEI TIRUPATI LOCAL CENTRE NEWS LETTER

97 Years of Relentless Journey Towards Engineering Advancement for Nation Building

Vol -I

Number-1

January-2017

Price-Rs.10/-

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Chairman's Request

we got independence 70 years ago. The great objective of the independence struggle was to establish an equitable and welfare society in the spheres of political, economic and social aspects. But what we experience today is quite otherwise. The in-equalities and disparities have increased.



It is agreed that there has been some progress but it is not corresponding to our available human and material resources.

The inadequacy in development is attributable mainly to the decline in human values and standards in services' sector particularly.

The nations sustainable development is primarily dependent upon the professional values, ethics and morals that are prevalent in the process of governance corruption is prevalent all over the world in various degrees. But some surveys have indicated India as the 5th highest corrupt country in the world. It was also said that the corruption was low in India upto 1995 and it multiplied afterwards and reached maximum by 2015 -16. It was also noted that corruption and mal - administration at the top and higher levels to be much more than that at the lower levels. corruption and in efficiency are twins and because of the prevalence of these factors inequalities and disparities in the

The Institution of Engineers (India)

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The 'e' Edition is available at www.ieitirupati.org.in



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society have expanded hugely. Lies and deception have become the order of the day. Inefficiency and corruption are the primary reasons for budget deficits, cost over runs and time over runs of the schemes and projects.

Because of the decline in human and professional values in the society, the professionals have lost their primacy in the society and the generalists have usurped their place. As a consequence the generalists with the aid and abetment of crony consultants and crony experts have taken over the decision taking process in the crucial sectors of development. This has resulted in cost over runs and time over runs. The primary objective of public interest and public welfare have given place to private service.

Social harmony, progress and development can only be achieved with higher levels of professional ethics and morals.

So, the endeavour of the professionals is to try to uphold the values in their respective profession where in lies the prosperity, peace and happiness of the society and the nation.

with Regards...

“WISH YOU ALL A PROSPEROUS SANKRANTHI”

Yours Sincerely
K. Vidyasagar Reddy, FIE
Chairman, IEI, Tirupati.



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About our Chairman, IEI Tirupati Local Centre

Er. K. Vidya Sagar Reddy (Former CMD/APSPDCL):

Chairman/Energy Conservation Mission & Institution of Engineers TPT Centre

After completion of Engineering in Electrical branch in 1967, SVU College of Engineering, Tirupati, as there was recession in employment of engineers in the state, He took up evening Law Course in the Osmania University and completed it. He also did a Post Graduate Diploma in Business and Industrial Management out of personal interest.

He joined in the A.P. State Electricity Board (APSEB) as Assistant Engineer/ Electrical and Superannuated as Chief Engineer (Purchase and Material Management) in APSPDCL, Tirupati. He worked for a brief period of Ten months as Consultant, Institute of Rural Electrification of REC in Hyderabad.

He had the good opportunity of serving the public and the Electricity Distribution system as Chairman and Managing Director of Southern Power Distribution Company of Andhra Pradesh (APSPDCL) with Head Quarters at Tirupati.

The hallmark of his entire service in the Electricity System had been that he used to receive fullest cooperation and support from all the three Levels (VIZ: Initial, parallel and higher) in the organizational structure (hierarchy). Consequently the unit's performance where ever he Worked used to be outstanding very consistently.

Presently he is serving as the Chairman of Energy Conservation Mission and Institution of Engineers, Tirupati Centre and hope to serve well with the cooperation of all.



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At the out set the Institution of Engineers, Tirupati wishes you all a very Happy New Year - 2017 and peaceful Sankranthi

The IEI Tpt L.C executive body for the peroid 2016-17 and 2017-18 took office with effect from 1-11-2016 with Er. K.Vidya Sagar Reddy, F.I.E.as Chairman and Er.S.Vijaya Bhaskar, M.I.E., as Hon'Secretary. The following are the members of the executive committee

LIST OF COMMITTEE MEMBERS FOR 2016-2018

1	Er. K.Vidyasagar Reddy FIE QTR No.24, Prakash Nagar SV University Campus Tirupati -517 502	F-115254-4 Electrical	uvsrkasi@yahoo.co 9441144122	Chairman
2	Er. S.Vijaya Bhaskar MIE 10-106, Maruthi Nagar Tirupati - 517 502	M-124435-8	svijayabhaskar2011 @rediffmai.com 9440477751	Hon.Secretrey
3	Er. P. Krishnaiah FIE 3-15, Srinivasapuram	F-017637 Civil	penumadi.krishnaiah @gmail.com 9441642661	past Chairman
4	Prof.S. Narayana Reddy FIE Professor /Deptt of ECE SVU College of Engineering Tirupati - 517 502	F-109883-3 ET/017	snreddysvu@yahoo.com	Past Hon. Secretary & Member



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5	Er.M. Devendranatha Reddy FIE 23-5-320/1B Gayathri Nagar Tirupati - 517 502	F-115063-0 EL/017	devendranath@ dreems.org.in 9493463100	AP State committee member
6	Er. Uragayala Somasekhar MIE C/o. U. Ramakrishnaiah Flat No:103, Adithya Towers Balaji Colony Tirupati - 517 501	M-132275-8	rajitha101@yahoo.co.in 9393939970	Member
7	Er.K.M.Krishna Rao AMIE G N B 3 TT Devasthanams QTR D R Mahal Road Tirupati -517 501	AMO083450-8 CH/017	iei.murali@gmail.com 7702144200	Member
8	Prof. K.V. Madhu Murthy MIE S/o. Sri.K.Vajravelu Pillai PF-10 S V U Campus Tirupati - 517 502	M-112417-4 Cp/017	kvmurthy@yahoo.com 9490507218	Member
9	Er. P.Ravindra Prasad MIE Build Tech Corporation R.No-10, Upstairs TUDA Complex R.C. Road Tirupati - 517 501	M-133511-6 CV/017	----- 9849046609	Member



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10	Er. B. Madhusudana Reddy MIE H.No.15-50/B Padmavathi Nagar Tirupati West Tirupati - 517 502	M-137468-5	bmsreddy_99_99 @yahoo.com 9492657516	Member
11	Er.N.Bhanu Prakasham Reddy AMIE S/O. Sri.N. Krishna Reddy D.No. 19-8-84-H R C Road Tirupati - 517 501	AM-117137-5 CV/017	nbpreddy@gmail.com 9989283051	Member
12	Er.P. Balaji MIE Flat No.203 Meghana Apartment Balaji Colony, Tirupati-517 501	M-144760-7 EL/017	- - - 9440817422	Member
13	Er. A.Sreenivasulu AMIE D.No.20-1-416/18 Subhash Nagar Tirupati - 517 501	AM-151418-3 EL/017	sreenivasulu136 @gmai .com 8019393948	Member
14	Prof.GUmamaheswara Reddy MIE Department of ECE SVU College Of Engineering SV University, Tirupati - 517 502	M-135507-9 ET/017	umaskit@gmail.com 9177039450	Member



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15	Prof.P. Venkata Ramaiah MIE Dept of Mechanical Engg SV University College of Engg SV University Tirupati - 517 502	M-137133-3 MC/017	pvrmaiah@gmail.com 9440085219	Member
16	Er.Dharma Reddy K MIE No.8-10/A Plot No.27 SVU Non Teaching Colony Tirupati - 517 502	M-145630-4 MC/017	kdharmareddy@gmail.com 9494697899	Member
17	Prof.G.Padmanabhan MIE Prof Of Mech Engg SVU College of Engg Tirupati - 517 502	M-122159-5 PR/017	gpnsvuce@yahoo.co.uk 9849505068	Member
18	Er. S.G. Rao AMIE Indian Inst Of Handloom Tech Venkatagiri Dist, Nellore A.P - 524132	AM-133404-5 TX/017	--- 7207739136	Member
19	Prof. Shak Kaleemullah Proffessor Department of Agricultural Engg S.V. A.G. University Tirupati - 517502	F/112549-0 AG	--- 9440181098	Fellow



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The first E.C. meeting was held on 23-11-2016 and resolved among others to form the following committees with a view to improve the over all functioning of the institute.

(A) Programmes Committee :

with Honourable Secretary Er. Vijaya Bhaskar as convenor and Prof. Umamaheswar Reddy - Joint Secretary, Er. Balaji - Joint Secretary and Sri. Gowri Sankar Reddy as member.

(B) News Letter Editorial Board with Er. M. Devendranath Reddy BE, FIE (former Chairman, IEI Tirupati) as Chief Editor.

(C) New full fledged seminar hall committee with Chairman Er. K.Vidyasagar Reddy as convenor and Er. P. Gopal Reddy (former CMD APSPDCL) as Advisor.

సుభాషిత రత్నావళి

వినదగు నెవ్వరు చెప్పిన

వినినంతనె వేగపడక వివరింపదగున్

కనికల్ల నిజము దెలిసిన

మనుజుడెపో నీతిపరుడు మహిలో సుమతీ!

భావము : చాలా వరకు వివాదాలు మనుష్యుల మధ్యన అపార్థాలతో చెప్పుడు మాటలతో తలెత్తుతాయి. మనకు ఏదైనా సమాచారం ఎవరైనా చెప్పినపుడు సావధానంగా వినాలి. తొందర పడకుండా వివేచనతో విశ్లేషించి స్పందించాలి. ఆ విశ్లేషణలో మనకు చెప్పిన వార్త గానీ, సమాచారం గానీ నిజమా, అబద్ధమా అని బోధపడుతుంది. యుక్తాయుక్త విచక్షణ జ్ఞానం కలిగిన మానవుడు ఈ లోకంలో నీతిపరుడు అని శతకకారుడు వ్యక్తిత్వ వికాసానికి దోహదపడే మార్గ నిర్దేశనం చేశాడు.

మల్లం దేవేంద్రనాథ రెడ్డి

Past Chairman, IEI, Tirupati Local Centre

Mob ; 9493463100



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Guide Lines for Wind Power Developers

Introduction

After the invention of electricity by William Gilbert, Benjamin Franklin, after developing electromagnetic principles by Michael Faraday and after invention of D.C, A.C. motors and generators etc man started utilizing electrical energy for all his needs. The industrial revolutions have compelled to establish huge electricity networks comprising generators, transmission and distribution networks. The quality of lives of humans have changed dramatically. Now life cannot be imagined without electricity.

With the huge dependency on the conventional generators such as thermal plants run with coal as fuel, the atmosphere is getting polluted due to which environmental disasters such as “green house effect” is taking place. To protect the atmosphere and nature in the interest of human kind, various governments of States and

central started giving importance for non conventional sources of generators, Many Governments have started fixing targets for establishment of Non-Conventional Generators (NCE).

Under the circumstances explained above, the Government of AP has issued its wind power policy to encourage establishing wind power plants in the state.

With a view to help all the field engineers of APSPDCL, a brief notes has been prepared on the wind power plants containing various details starting from about the wind power policy, allotment of wind power plant capacity for the developers to commercial operation date etc., it is felt that this notes will certainly help to improve the knowledge and awareness of APSPDCL engineers on various as-



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pects of wind power plants.

Different types of Generators

A. CONventional Generators

1. Thermal Plants run with fuels such as Coal, Oil, Gas
2. Major Hydel Plants
3. Nuclear plants

B. Non conventional plants

1. Biomass
2. Bagasse
3. Mini Hydel plants
4. Roof top solar panels
5. Solar P V Generators
6. Solar Thermal Plants
7. Wind Turbine Generators
8. Solar, Wind, Hybrid Generators
9. Tydel Energy
10. Geo Thermal Energy
11. Biogas plants
12. Gobergas plants
13. Municipal Waste Energy Projects

WIND TURBINE GENERATORS

Functioning of Wind Generators

1. Wind is a resultant of uneven heating of atmosphere by the Sun due to irregularities of earth surface

2. Wind turbines convert the kinetic energy of wind to mechanical power with which the generator generates electricity.

3. The kinetic energy of wind rotates the blades around a rotor which is connected to the main shaft, which spins a generator to generate electricity.

4. The Wind turbine generator is a induction generator. in the generating mode all induction motors draw leading reactive power from the grid.

Types of Wind Turbine Generators

1. Horizontal Axis Turbines
2. Vertical Axis Turbines



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Various parts of Wind Turbine Generators

1. Blades
2. Rotor
3. Low speed shaft with brake
4. Gear Box
5. High speed shaft
6. Generator
7. Step-up Transformer

Wind Power Policy 2015

1. The first A.P. Wind Power Policy was issued in 4/2008 and it was expired in 4/2013.

2. Second A.P. Wind Power Policy issued on 13/2/2015 vide G.O..Ms.No.9

3. National Institute of Wind Energy estimated the wind potential in the combined state as 14497 MW.

4. Operative Period of the AP Wind Policy is 5 years

5. Eligibility for incentives declared under AP Wind Power Policy is for a period of 10 years from the date of commissioning.

APPLICABILITY OF POLICY

For all Wind power projects which are not commissioned as on the date of notification of policy.

NODAL AGENCY

1. New and Renewable Energy Development Corporation of AP Limited (NREDCAP) is a nodal agency which is a facilitator for single window clearance for the projects

2. All approvals, clearances from all the departments have to be disposed within 30 days from the date of registration.

Categories of Wind Power Projects

1. Selling Power within the State (PPA with Discoms)

2. Captive or Group Captive or Third Party Sales within or outside State (open access)

3. Sale of power through power exchanges (open access)

4. Sale of Power at pooled Power Purchase Cost and availing Renewable Energy certificates.



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Capacity Allotment

1. NREDCAP gives approval for the projects upto 40MW.

2. Government of AP gives approval for the projects beyond 40 MW.

Procedure for establishing Wind Turbine Generators

Wind Power projects will be allowed in the areas notified by MNRE or in the areas where wind monitoring studies have been undertaken by MNRE/NIEW/NREDCAP/Go.A.P.



Incase wind projects developers want to establish projects in the areas other than the above, permission has to be taken for wind resource assessment (WRA) by the private entities, from the Nodal Agency. The said WRA studies, have to be got authenticated by National Institute of Wind Energy (NIWE).



Application to be registered in online with NREDCAP



Capacity allotment proceedings will be issued by NREDCAP



Agreement to be entered with NREDCAP by developers



Feasibility to be issued by Discoms (up to 10 MW) / Transco (> 10 MW)



Evacuation approval to be given by Discoms (up to 10 MW)/ Transco (>10 MW)



PPA to be entered with Discoms



Consent to be obtained from APERC



Declaration of Commercial Date (COD)



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Fees to paid for Wind Power Projects

Processing fees Rs.25000/- per MW for NREDCAP

1. Sanction fee Rs. 1,50,000/- per MW for NREDCAP

2. Fees towards facilitation of single window clearance by NREDCAP - Nil

3. Performance Bank Guarantee : Rs.2,00,000/- per MW for Government & Forest Lands and Rs.1,00,000/- per MW for private lands to NREDCAP.

4. Application fee Rs.2,00,000/- for the entire project plus 15% service tax to Discoms

5. MVAR Charges Rs.37,000/- per MW to Discoms.

REQUIRED DOCUMENTS TO BE FURNISHED FOR ENTERING PPA'S

1. NREDCAP allotment order to the proposed power project

2. Agreement entered with NREDCAP by the proposed power project developer

3. Detailed Project Report (DPR) of the project

4. Memorandum and articles of association duly certified

5. Last 3 years financial statements

6. Certificate of incorporation issued by Register of Companies of Andhra Pradesh.

7. Board resolution duly authorizing their representative for entering into PPA with APSPDCL and for signing in other correspondences.

8. Net worth certificate certified by chartered accountant

9. Type of PPA i.e., preferential tariff, REC Mechanism PPA, Open Access agreement etc., to be entered with APSPDCL for the proposed Power Project

10. Grid connectivity approval from AP TRANSCO for the proposed Power Project, (if project is connected to EHT Substation)



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11. Location with Survey Numbers where the proposed power project is to be established, Land details Private land or Government Land with sale deeds.

12. 33KV or 132KV layout drawing with turbine locatin of the proposed Power Project

13. Out of total capacity of the project how much quantity of the power is for sale to the Discom and towards auxiliary consumption, details to be furnished

14. Technical feasibility report from concerned Superintending Engineer / Operation in coordination with TL&SS wing of the proposed power project

15. Application fee of Rs.2,00,000/- with service tax 15% to be paid to the DISCOM

16. MVAR Charges @ Rs.37,000/- per MW to be paid to the Discom.

Requirements for according Synchronization approval

1. Work completion report from concerned Superintending Engineer / Operation with full details such as

a. Details of ABT energy meters and metering equipment as per T.O.Os issued by

APTRANSCO in respect of the class of accuracy and burden details, No.of cores and ratios etc., at entry point

b. Details of feeders whether dedicated or not, at entry point.

c. details of conductor size used for evacuation line

d. Feeder wise details of turbine location numbers

e. Details of SCADA equipment installed for online data transfer and communication

f. Details of LVRT features (low voltage ride through)



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2. The Meters calibration report, CTs & PTs, test reports and CEIG approvals.

1. Details of the HT service connection number to raise the bills for import energy from Discom

2. An undertaking from the developer for the following points.

a. During testing of power plant equipment the inadvertent power pumped into grid, if any will be free of cost and shall not be accounted to APSPDCL

b. The Temporary service should be withdrawn immediately.

c. When there is no generation activity, the Power plant will draw the energy

form APSPDCL only for the essential loads for auxiliary consumption.

d. We will abide by the rules and regulations of APERC, CERC and APSPDCL from time to time

POINTS TO BE OBSERVED BY THE FIELD OFFICERS FOR SYNCHRONIZATION OF PLANTS

1. The meters shall be of static type 0.2s class accuracy having both ABT and Trivector features and online data transfer facility (V-SAT). The meter shall have the facility

for recording meter reading using meter recording instrument (MRI) and Automatic meter reading (AMR) facility and also Data acquisition system facility to transfer information to the concerned SLDC & RLDC.

2. The Meters calibration report, CTs & PTs test reports and CEIG approvals.

3. The Trivector meters, CTs & PTs are properly tested, erected and sealed for recording energy export to the project and import to the Grid.

4. Ensure evacuation system at EHT level i.e., Transformer capacity, conductor current carrying capacity etc., is ready for charging from APTRANSCO authorities.



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5. The field officers shall ensure availability of required metering equipment and facility to record energy drawn / pumped into the grid as per agreement terms and conditions. CERE/APERC regulations.

6. The temporary service or any other service released for the construction should be disconnected. A separate service should not be continued after synchronization.

7. Assigning of HT SC No. has to be ensured.

GOVERNMENT OF ANDHRA PRADESH INCENTIVES

a. Power Evacuation :

1. Developer has to bear the entire cost of estimate from the project to grid.

2. No Supervising charges to be paid for internal evacuation infrastructure within the wind power site and upto pooling SS

B. No Wheeling Charges for Captive use or 3rd party sale within the state

C. Third party sales will be permitted only for HT-1 consumers.

D. 100% Energy banking will be permitted throughout the year. Banking charges at 2% of the energy delivered at the point of drawal will be adjusted in kind. The banking year is from April to March.

E. Drawals from banked energy will not be permitted during April, May & June and February, March of each financial year.

F. Drawals of banked energy will not be permitted during peak hours throughout the year.

G. Energy Injected into the grid from the date of synchronization to COD will be considered as deemed banked energy.

H. The unutilized banked energy shall be considered as deemed purchase by Discoms at the pooled power purchase cost of the year

I. Energy settlement will be done on monthly basis



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J. Intrastate Open Access clearance will be given for the whole tenure of the projects or 25 years whichever is earlier

K. Electricity duty is exempted for sale of power to Discoms.

L. Deemed public private partnership will be given for category 1 projects having PPA with Discoms.

M. Non Agricultural, deemed industry and must run status will be given

N. Exempted from obtaining pollution clearance.

TIME LINE FOR PROJECT IMPLEMENTATION

1. Agreement with NREDCAP to be entered within two months from the date of sanction of capacity allotment.

2. Projects will be commissioned within 18 months from the date of possession of Revenue Land issue of Power evacuation clearance.

3. If there is no developmental activity even after 3 years from the date of sanction, the site will be offered to the other developers by the nodal agency.



To be continued...

By,

Er. P.H. Janakiram

**Divisional Engineer,PPA, APSPDCL,
Tirupati**

**Company Secretary/APSPDCL,
APSEB Engineers Association**



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ENERGY CONSERVATION MISSION THE INSTITUTION OF ENGINEERS (INDIA) Tirupati Local Centre

**Cordially Invite you to the Inaugural Function of
NATIONAL ENERGY CONSERVATION WEEK CELEBRATIONS**

**On 14th December, 2015 at 09.00 A.M
At “Visvesvaraya Bhavan”, (IEI),
S.V.U. College of Engineering Campus, Tirupati**

**Er. P. Gopal Reddy
Former CMD, APSPDCL, Tirupati**

Has kindly consented to be the Chief Guest

Er K. Vidya Sagar Reddy, FIE

**Chairman, Energy Conservation Mission, IEI, Tirupati
Will preside over the function**

**Er. M. Devendranath Reddy, FIE
Convener, ECM, IEI, Tirupati**

Rest House at IEI, Tirupati Local Centre

IEI, Tirupati Local Centre, Tirupati has Rest House with well furnished, attached Bath Rooms, 4 Nos, Non A/C Rooms in its premises. The Members of IEI can avail the facility of accomodation with prier allotment from the Honorary Secretary. The Requisition may be sent well inadvance through e-mail : ieitptlc@gmail.com

The Tariff : Rs.350/- Per Day, per Room



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Programme Schedule of Energy Conservation Week Celebrations from 14th to 20th December 2016 by ECM, IEI Tirupati Local Centre

Date & Time	Venue	Programme
14-12-2016 Wednesday 07:00 hrs	From NTR Statue near Town Club to IEI Local Center, Tirupati Tirupati	Energy Conservation run Breakfast follows
15-12-2016 Thursday 15:00 hrs	Girls High School Chandragiri	Painting and Essay writing competition on Energy Conservation for High School Students
16-12-2016 Friday 15:00 hrs	Indo National Limited, Tada	Best Practices in Energy Conservation & Energy auditing in Industries
17-12-2016 Saturday 15:00 hrs	Bharatiya Vidya Bhavan Tirupati	Painting and Essay writing competition on Energy Conservation for High School Students
18-12-2016 Sunday 16:00 hrs	APSEB Engineers Association Guest House, Tirupati	Rain water harvesting for drinking purposes & Solar Roof top PV Plants with Net Metering System
19-12-2016 Monday 15:00 hrs	Vijayavani High School Chowdepalli, Punganur	Elocution, Painting and Essay writing competition on Energy Conservation for High School Students
20-12-2016 Tuesday 16:00 hrs	Institution of Engineers India Tirupati Local Center SVU College of Engineering Campus Tirupati	Valedictory function, Presentation of Prizes & Certificates.



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ఇంధన పొదుపు అందరి బాధ్యత

ఎ.పి.ఎస్.పి.డి.సి.ఎల్. మాజీ చైర్మన్ పి. గోపాల్ రెడ్డి

నేటి సమాజంలో ప్రతి ఒక్కరూ ఇంధనాన్ని పొదుపు చేసేందుకు కృషి చేయాలని ఎ.పి.ఎస్.పి.డి.సి.ఎల్. మాజీ చైర్మన్, మేనేజింగ్ డైరెక్టర్ పి.గోపాల్ రెడ్డి పేర్కొన్నారు. జాతీయ ఇంధన పొదుపు వారోత్సవాల ప్రారంభ కార్యక్రమంలో భాగంగా ఎనర్జీ కన్సర్వేషన్ మిషన్ (ఇ.సి.ఎం), ది ఇన్స్టిట్యూషన్ ఆఫ్ ఇంజనీర్స్, తిరుపతి లోకల్ సెంటర్ ఆధ్వర్యంలో బుధవారం ఇంధన పొదుపు అంశం పై నగరంలోని ఎన్టీఆర్ సర్కిల్ నుంచి ఇన్స్టిట్యూషన్ ఆఫ్ ఇంజనీర్స్ కార్యాలయం వరకు ర్యాలీ నిర్వహించారు.



ఈ సందర్భంగా పి.గోపాల్ రెడ్డి మాట్లాడుతూ ఇ.సి.ఎం. ఆధ్వర్యంలో ప్రతియేటా ఇంధన పొదుపు కార్యక్రమాలను నిర్వహించడం అభినందనీయమని పేర్కొన్నారు. సాధారణ బల్బుల స్థానంలో ఎల్.ఇ.డి బల్బుల వినియోగం ద్వారా విద్యుత్తును ఆదా చేయవచ్చని అన్నారు. ఒక యూనిట్ విద్యుత్తును ఆదా చేయడం ఒక యూనిట్ విద్యుత్తును ఉత్పత్తి చేయడంతో సమానమనే విషయాన్ని వినియోగదారులు గుర్తించాలని సూచించారు.

అనంతరం ఇన్స్టిట్యూషన్ ఆఫ్ ఇంజనీర్స్, తిరుపతి లోకల్ సెంటర్, ఎనర్జీ కన్సర్వేషన్ మిషన్ (ఇసిఎం) చైర్మన్ కె.విద్యాసాగర్ రెడ్డి మాట్లాడుతూ విద్యుత్తును అవసరమైన మేరకే వినియోగించుకోవడం ద్వారా వృధాను అరికట్టవచ్చని సూచించారు. భావితరాల అవసరాల కోసం విద్యుత్తును పొదుపు చేయాల్సిన అవసరం ఎంతైనా వుందని పేర్కొన్నారు. అలాగే సోలార్ విద్యుత్ వినియోగాన్ని ప్రోత్సహించాలని సూచించారు. మొక్కలను విరివిగా పెంచడం ద్వారా పర్యావరణ సమతుల్యతను పెంపొందించేందుకు అందరూ కృషి చేయాలన్నారు. ప్రకృతి వనరులను అందరూ సద్వినియోగం చేసుకోవాలని కోరారు.



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అనంతరం ఎనర్జీ కన్సర్వేషన్ మిషన్ (ఇసిఎం) కార్యనిర్వాహకుడు యం. దేవేంద్రనాథరెడ్డి మాట్లాడుతూ జాతీయ ఇంధన పొదుపు వారోత్సవాల్లో భాగంగా విద్యార్థులకు ఇంధన పొదుపు పై వ్యాసరచన, చిత్రలేఖన పోటీలను నిర్వహించి, విజేతలకు బహుమతులను ప్రధానం చేయనున్నట్లు వివరించారు.



ఈ కార్యక్రమంలో ఇన్స్టిట్యూషన్ ఆఫ్ ఇంజనీర్స్, తిరుపతి లోకల్ సెంటర్ కార్యదర్శి విజయభాస్కర్, సంయుక్త కార్యదర్శి పి.బాలాజి, ఎ.పి.ఎస్.పి.డి.సి.ఎల్. డివిజనల్ ఇంజనీర్ నరేంద్రనాథ్, ఇంజనీర్స్ అసోసియేషన్ కార్యదర్శి పి.హెచ్.జానకిరామ్, తిరుపతి శాఖ కార్యదర్శి రవికుమార్, ఎడిఇ జయప్రకాష్ తదితరులు పాల్గొన్నారు.

మల్లం దేవేంద్రనాథ రెడ్డి B.E, FIE

కన్వీనర్

ఇసిఎం :: ఐఇఐ (తిరుపతి)

The Corporate members, Engineering College Staff & Students are requested to send the Technical papers for publication in the IEI, Tirupati News Letter to

e-mail : ieitptle@gmail.com

The Chief Editor



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ENERGY CONSERVATION MISSION

The Institution of Engineers (India)

TIRUPATI LOCAL CENTER

Sri Venkateswara University College of Engineering Campus, Tirupati - 517 502, Andhra Pradesh, India

మీకు తెలుసా? కాదేదీ పొదుపుకనర్నం

- ☛ ఒక విద్యుత్ ఉత్పాదనా కేంద్రాన్ని () స్థాపించడానికి 5 సంవత్సరాలు పడుతుంది
- ☛ విద్యుత్ లైన్లు వేయడానికి 1సం॥ పడుతుంది
- ☛ విద్యుత్ ఉత్పాదన, సరఫరా, పంపిణీ వ్యవస్థకు వేలకోట్ల రూపాయల పెట్టుబడి అవసరం
- ☛ ఉత్పత్తి అయ్యే విద్యుత్తు అంతా వినియోగదారునికి అందదు. విద్యుత్ సరఫరా ప్రక్రియలో కొంత శాతం లైన్ లాస్ రూపేణా వృధా అవుతుంది.
- ☛ ఒక యూనిట్ (1 Unit)విద్యుత్తు పొదుపు చేస్తే 1.50 యూనిట్ విద్యుత్తుకి ఉత్పత్తి చేసినట్లే
- ☛ విద్యుత్తు పొదుపు ప్రణాళిక, 1 నెల పడుతుంది. ఇందన (విద్యుత్తు) పొదుపు వారోత్సవాలకు 1వారం పడుతుంది.
- ☛ కానీ, విద్యుత్తును పొదుపు చేయడానికి 1సెకను చాలు.
- ☛ నేటి విద్యుత్తు వృధా, రేపటి కొరత
- ☛ విద్యుత్తు పొదుపు - ప్రగతికి మలుపు
- ☛ మామూలు బల్బులు, ట్యూబ్ లైట్ల స్థానంలో ఎల్.ఇ.డి.బల్బులు వాడండి. విద్యుత్తును ఆదా చేయండి.
- ☛ సౌర విద్యుత్ పంపు సెట్లను అమర్చుకోండి. ప్రభుత్వం అందిస్తున్న భారీ రాయితీలు సద్వినియోగం చేసుకోండి.
- ☛ చెట్లను విరివిగా పెంచుదాం. ఉన్న నీటిని కాపాడుకొందాం. వాతావరణ కాలుష్యాన్ని తగ్గిద్దాం. శుద్ధమైన ప్రాణవాయువును జీవకోటికి అందిద్దాం.
- ☛ నీటిని పొదుపు చేద్దాం. వర్షపు నీటిని ఒడిసి పట్టి త్రాగు నీటి సాగునీటి కొరతను ఎదుర్కొందాం.
- ☛ శిలాజ ఇంధనాలైన బొగ్గు, చమురు, సహజ వాయువు నిల్వలను భావితరాలకు అందిద్దాం.

వృక్షో రక్షతి రక్షితః



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Technical Events in November - 2016

Seminar on 80th year of Sri Bagh Pact 1937 a review on 16-11-2016. A seminar was held in our institute's premises in association with Indian Institute of Public Administration Tirupati Branch on Sri Bagh Pact and later agreements on sharing of waters and equitable development of the regions. Sri Peddireddy Chengal Reddy, Advisor consottium of Indian Farmers Associations was the Chief Guest and guest speaker as well.

Foundation Day of IEI TPT (LC) & Er. T.Narayana Reddy Endowment Lecture

The 25th Foundation Day Celebrations IET TPT (LC) and 18th Annual Memorial Lecture of Late Er. T. Narayana Reddy of FIE founder Chairman of IEI TPT LC, were conducted at Sri Padmavathi Mahila Viswavidyalam's Indira Priyadarsini Auditorium on 28-11-2016.



A View of Audience



A View of Dias

The highlight of the occasion was an enthralling lecture cum interaction session, by Dr.Prapthap Sriram Sundar on "water - Elixir of Life".



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Technical Events in December - 2016

Energy Conservation Week :

Energy Conservation Week from 14-12-2016 to 20-12-2016 was observed by extensive visits to schools and Colleges to emphasise the need and advantages of conservation of energy and saving of national resources and there was tremendous response from all sections of the society and institutions.

Energy conservation run was held on 14-12-2016 and valadictory function celebrated on 20-12-2016 in the Institution of Engineers premises by Energy Conservation mission.

Essay Writing and Painting competitions were conducted in Government Girls High School, Chandragiri on 15-12-2016 and in Bharateeya Vidya Bhavan Public School, Tirupati on 17-12-2016. The involvement and participation of the Students and Institutions were very encouraging. Participation Certificates for all participants and 1st, 2nd, 3rd Prizes for winners were distributed on behalf of E.C.M.

Elocution, Essay Writing and Painting competitions were conducted in Vijayavani High School & Residential School, Chowdepalli, Punganoor on 19-12-2016.



**A View of Vijayavani High School
and Residential School children**

The involvement and participation of the Students and Institution were very encouraging. 136 Students in Essay Writing Competition, 41 Students in Elocution , 116 Students in Painting Competition have participated. Participation Certificates for all participants and Solar lanterns were distributed to the 1st, 2nd, 3rd Prize winners on behalf of E.C.M, IEI, Tirupati.



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Energy Conservation week Celebrations December 14th to 20th 2016



Energy Conservation Awareness Program by
Energy Conservation Mission/ Institution of Engineers India, Tirupati local Centre
at Vijayavani Public School, Chowdepalli on 19-12-2016



**Prize Winners with the
Dignitaries on the dias**



Another View of Students



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Symposium on 24th December 2016 on Demonitisation

A Symposium on Demonitisation and consequential effects was held on 24-12-2016 in the Institution of Engineer's premises in association with Sri Venkateswara University retired teachers association and Indian Institution of Public Administration, Tirupati Centre.

The keynote address was presented by Sri. Jawahar IAS (Retd), Secretary Indian Institute of Public Administration, Tamilnadu region and it was a very engrossing session with participation from all professional sections and all shades of opinions.



Dr.Krishna Prasanthi, IMA, Tirupati

Er. K.Vidyasagar Reddy, FIE, Chairman, IEI Tirupati

Speaker Sri.Jawahar IAS, Tamilnadu,

Prof.Munirathnam Naidu,

Member/ Andhra Pradesh State Financial Commission

Prof. Ranga Reddy, SV University, Tirupati

Chairman, IIPA, Tirupati Branch & Dept of Economics

SV University, Tirupati.

Er. M.Devendranath Reddy, Convenor ECM, Tirupati.



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**Er. P.Gopal Reddy Former CMD
APSPDCL with Speaker Sri.Jawahar IAS, Tamilnadu,
Er. K.Vidyasagar Reddy, FIE, Chairman, IEI Tirupati
Dr.Krishna Prasanthi, IMA, Tirupati**



**Sri. Murali, Former Vice Chancellor, SV University
Sri.Jawahar IAS, Tamilnadu,
Er. K.Vidyasagar Reddy, FIE, Chairman, IEI Tirupati
Dr.Krishna Prasanthi, IMA, Tirupati
Prof. Ranga Reddy, SV University, Tirupati**



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Photos of the Seminar on 80th year of Sri Bagh Pact - 1937 a review held on 16-11-2016



**Honouring the Chief Guest
Sri. P.Chengal Reddy,
S/o.Late.Sri.P.Thimma Reddy Garu
Chief Advisor, CIFA,
Hyderabad**

Printed and published by Honorary Secretary Er. S.Vijaya Bhaskar, MIE on behalf of IEI Tirupati Local Centre, SVU College of Engineering Campus, Tirupati - 517 502, Chittoor, Andhra Pradesh

Editorial Board : Chief Editor : Er. M.Devendranath Reddy FIE

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