

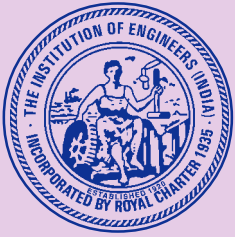
Institution of Engineers (India)

T.N. STATE CENTRE

BULLETIN

Chairman :
Er. K.P. Ramanathan, FIE

Honorary Secretary :
Er. D. Sundarasekaran, FIE



Vol. 15 : No. 7

October 2016

From the Chairman's Desk....

Dear Engineers,

At the outset, I wish to convey my good wishes to Er B Navinchandra Vasoya, FIE who has been elected as a President of The Institution of Engineers (India) and I am very sure that the newly elected President will take up the IE (I) to the highest order to the growth of the IE (I).



I am also very thankful to Honorary Secretary, Committee Members of Tamilnadu State Centre, for having extended their co - operation, support and involvement at all times in conducting all the technical activities throughout my tenure 2014-2016.

During the tenure 2014-2016, there are lot of technical activities were conducted by the Tamilnadu State Centre on various subjects in the respective disciplines apart from the technical lectures conducted mostly on every Saturday on every month. The following technical activities such as National Convention/ All India Seminars / Workshops were conducted during 2014-2016. One day Workshop on "Agricultural Engineering Interventions on Food Security and Safety" organized by Agricultural Engineering Division on 11th April 2015, All India Seminar on "Technical Textiles and its Applications in Medical and other Engineering Fields" organized by Textile Engineering Division on 10th & 11th September 2015, One day Seminar on "Motivational Seminar Entrepreneurship Development" on 12th September 2015, 29th National Convention of Aerospace Engineers and National Seminar on "Aerospace Engineering: Innovative Practices and Future Trends" organized by Aerospace Engineering Division on 27th & 28th November 2015, One day Industrial Visit to L&T Company (Solar Energy) on 31st January 2015, During the year 2015 the Hosur Local Centre was established and inaugurated by Dr L V Muralikrishna Reddy then President of IE (I) on 29th August 2015; One day Workshop on "Construction Failures - Causes and Remedies" organized by Civil & Architecture Engineering Division on 6th February 2016, All India Seminar on "Latest Developments in Technical Textiles and Marketing of Technical Textiles and Apparels" organized by Textile Engineering Division on 22nd & 23rd July 2016, One day Workshop on "Safe & Efficient Transport System for Chennai" organized by Civil Engineering Division on 20th August 2016 and All India Seminar on "Make-in-India" organized by Mechanical Engineering Division on 7th & 8th October 2016.

I am very happy to inform to all the corporate members that the Tamilnadu State Centre Guest House have been provided with 2 new heaters for Room No 1 & 2; all the 4 Rooms in Guest House,

Chairman room , Honorary Secretary room and Council Members room and office room were furnished with Vertical Screens; 2 new 1.5 ton Split Air Conditioners for Room no 2 & 3 in Guest House; 2 new 2 ton Split Air Conditioners at Auditorium have provided; One new Xerox Machine for office; One new Computer for office; Furniture for Chairman Room, Honorary Secretary Room, Council Members Room, Office Room, Auditorium were provided; The fallen Compound wall were reconstructed & Paved blocks for remaining area of the building were laid; Two Security rooms are renovated at front and back gate; Chairman Room, Honorary Secretary Room, Council Member Room, Office Room, Entrance of Office, Staircase were Painted; Carpentry Work for old wooden furnitures were repaired and reused; The Front and Back Gates were renovated ; Two LED Name Boards of IE(I) in front and back entrance gate were erected. All the above said infrastructures and developments were made during the tenure 2014 - 2016

Once again I thank the Honorary Secretary, Committee Members of Tamilnadu State Centre and the sponsors for various technical programmes given their co-operation and support during the entire session of 2014-16.

I wish the incoming Chairman, Honorary Secretary and Committee Members of IE(I), TNSC to be more energetic and enthusiastic towards the growth of IE(I), TNSC for the term 2016-2018.

I once again thank one and all.

Er K P Ramanathan
Chairman

Congratulations...

IE(I) - President-Elect for 2017



Er. NAVINCHANDRA B. VASOYA, FIE

Dr. G. RANGANATH FIE, Chairman-Elect



- Dr. G. Ranganath is born on 26 June, 1961.
- Obtained B.E degree in Mechanical Engineering from Mysore University; M.E in Machine Design from Bangalore University and Ph.D. in Material Science from Mangalore University.
- Joined as Assistant Professor and Head / Mechanical Engineering at Adhiyamaan Engineering College in 1991, lined by Vice Principal, Professor and Head / Mechanical Engineering till 2008.
- Presently positioned as the Principal and Professor, Mechanical Engineering till date.
- Served as a Syndicate member at Periyar University, Salem (2000-2003).
- At present he is nominated as Member in the Planning Board of Periyar University by his excellence Governor of Tamil Nadu as his nominee for the period of three years.
- An active Member in various professional societies including Fellow Member- Institution of Engineers (India), Life Member - Indian Society for Technical Education, Life Member-National Society for Entrepreneurship Development, Life Member-National HRD Network and Life Member-Computer Society of India.
- has over 30 years of multifaceted inter-disciplinary professional experience and has pioneered about 70 Research publications and 10 books on Engineering and Technology.
- Serving as Chairman for Academic Council, Adhiyamaan College of Engineering.
- Has published over 100 technical papers in reputed journals and conferences. He serves to be a resource person with evident experience in the field of Composite Materials, Powder Metallurgy, Engineering Design, and Vibration.
- played a significant role in receiving the ISTE Best Chapter Award (2004-2010) under his Chairmanship.
- Has made extensive efforts in popularizing science by organizing two International Conferences, numerous Seminars, workshops and FDPs at National Level.
- During his long association with IEI/ISTE, he has served with complete dedication in multiple roles and successfully represented the interests of ISTE.
- Serving as Expert Committee member in National Board of Accreditation, New Delhi.
- Served as National Vice-President in Indian Society for Technical Education, New Delhi from 2011 to 2014 and Chairman IE(I) Salem Local Centre, from 2012-2014.
- Played a key role in establishing IEI Hosur Local centre in the Year 2015 and serving as the Founder Chairman. During the short span of time as the Chairman He has procured a own Land for Hosur Local Center for constructing own building.
- He has visited various countries including Canada, Dubai, Sri Lanka, Argentina, Japan, United States of America and China.
- He is blessed with a Daughter and Son.

Er. R. RAMDOSS MIE, Honorary Secretary-Elect



- Graduated in B.E (Mechanical & Production Engineering) from Annamalai University, Chidambaram.
- Project Engineer in GEA Energy Systems, Chennai, from 18.01.1989 to 30.12.1989. Gained experience in Fabrication of 'On Load Condenser Tube Cleaning System' for Nuclear Power Corporation of India and having considerable experience in Election, Fabrication and Commissioning of Debris Filters, panki Thermal Power Corporation, Kanpur.
- Worked as Assistant Engineer in Chennai Port Trust in the year 1990, Promoted as Assistant Executive Engineer in Chennai Port Trust in the year 1996, Promoted as Executive Engineer in Chennai Port Trust on 12.06.2006 and given Voluntary Retirement on 31.08.2006.
- Experienced in various Material handling equipment such as TLT, FLT, RTC, Diesel Electric locomotives, Diesel Welding generators, Diesel Generators, Rail Mounted Quay Cranes, Frontend Loaders and different kinds of automobile Vehicles.
- Well experienced in preparation of Technical Specifications, Tender Documents, Analysis of Tenders, Purchase Orders, Purchase Agreement, Verifying the bill and passing of payment.
- Incharge of ISO 9001/2000 Maintenance Module for Electrical & Mechanical Department. Incharge and Co-ordinate the implementation of computerized maintenance system in Chennai port trust, Chennai. Handling of Arbitration in Various Material handling equipment purchase.
- General Manager in M/s. Chettinad Housing, Chennai from 01.09.2006 to 31.12.2009. Carrying out Construction of Residential Villas and Apartments in Chennai.
- Managing Director in M/s. Menaka Homez, Chennai from 01.01.2010 to till Date. Developing Residential Apartments and Villas in Chennai and other consultation of various kind of Property developments.
- Also Managing Director in M/s. CSR ERP Solutions Pvt. Ltd., Chennai from 01.04.2013 to till date. In which looking after Software development and HR Consultancy of Various Companies.
- Fellow member in Institution of Valuer and Fellow member in Indian Institution of Technical Arbitrators.

49TH ENGINEERS DAY

Theme: "Skill Development for Young Engineers to Reform the Core Sector: Vision 2025"

15th September, 2016



The 156th birth anniversary of Sir M Visvesvaraya was celebrated as **49th Engineers' Day** by the Tamilnadu State Centre on Thursday the 15th September 2016. **Er S Ganesh Mani**, Vice President (Production), M/s Hyundai Motors India Limited, Chennai was the Chief Guest. Chief Guest, Chairman, Council Member, Honorary Secretary, Past Chairmen, Past Honorary Secretary and Committee Members offered flowers to the portrait of Bharat Ratna Sir M Visvesvaraya, members took the **Engineer's Pledge**. **Er K P Ramanathan**, Chairman, IE(I), TNSC welcomed the gathering and expressed his gratitude to the Chief Guest for accepting our invitation to be the Chief Guest for the Engineers' Day. **Er T M Gunaraja**, Immd. Past Chairman

(contd. on page 8)

MINUTES OF THE 93RD ANNUAL GENERAL MEETING

31st October 2015

MINUTES of the 93rd Annual General Meeting of the Tamilnadu State Centre held on 31st October 2015 at 5.30 pm at the IE(I) Auditorium, 19 Swami Sivananda Salai, Chepauk, Chennai 600005.

Before taking up the agenda, Er K P Ramanathan, Chairman requested all the members present to observe one minute silence in memory of the following members who expired during the year for their souls to rest in peace:

Dr Thiru N Mahalingam FIE, Er P Ramaswamy FIE, Er P Vidyapathi AMIE, Mrs George FIE, Er K Vasudevan MIE, Er N Aravindan FIE, Er C K King Selvan FIE, Er T S Narayana Iyer FIE, Er K P Kandasami FIE.

1. To Confirm the Minutes of the 92nd Annual General Meeting of the Tamilnadu State Centre held on 31st October 2015

Chairman informed that the minutes of the 92nd Annual General Meeting held on 31st October 2014 was circulated to the members through the Bulletin of Dec. 2014 and was republished in the Oct. 2015 issue which may be taken as read.

As no comments were received, Dr G Ranganath, FIE proposed that the Minutes may be confirmed. Dr J Arivudainambi, FIE seconded the same.

The Minutes of the 92nd Annual General Meeting was confirmed.

2. To Receive the Audited Accounts and the Annual Report for the year ended 31st March 2015

Chairman informed that the Audited Accounts and the Annual Report for the year ended 31st March 2015 was circulated to the members vide Bulletin October 2015 issue and may be taken as read.

As no comments were received from the members on the audited accounts and the annual report, Er K P Sathyamurthy, MIE proposed that the Audited Accounts and the Annual Report for the year ended on 31st March 2015 may be confirmed. Er Kandasamy Chinniah seconded the same.

The Audited Accounts and the Annual Report for the year ended 31st March 2015 were received.

3. To Appoint the Auditors for the year 2015-2016 and to fix their remuneration

Chairman informed that confirmation was received from M/s S Shankar & Associates, Chartered Accountants & Associates, Flat No: 1, M N R Apartment, No: 7A/1, Nadar Street, Velachery, Chennai-600 042 to continue as Auditors for the year 2015-2016 at the remuneration of Rs.15000/=

Er T M Gunaraja, FIE proposed that the services of the existing Auditors may be continued for the year 2015-16 at the remuneration of Rs. 12000/-. Dr P Sakthivel, FIE seconded the same.

4. To Report on the composition of the Committee for the sessions 2015-2016

Chairman informed that the existing Committee will continue for the sessions 2015-2016 also and the members are

- Er K P RAMANATHAN, FIE, Chairman, IE(I),TNSC, Former Chief Mechanical Engineer, Chennai Port Trust.
- Er D SUNDARASEKARAN, FIE, Honorary Secretary, IE(I),TNSC, Former General Manager-Plant, Madras Fertilizers Ltd.

The Following Members are serving in the Committee (Representing the Engineering Divisions given in the parenthesis)

- Er P Gomathi Nayagam, Consulting Engineer, Chennai (Agricultural Engineering Division).
- Dr J Arivudainambi, Professor & Head, Adhiyamaan College of Engineering, Hosur (Aerospace Engineering Division)
- Er Zacharia George, Principal Structural Consultant, M/s Pithavadian & Partners (Architecture), Chennai (Architectural Engineering Division)
- Er R Ravichander, Former Manager, Brahmaputra Valley Fertilizer Corpn Ltd., (Chemical Engineering Division)
- Dr P Sakthivel, Associate Professor, Dept. of ECE, Anna University,

Chennai (Computer Engineering Division)

- Er K P Sathyamurthy, Deputy Chief Engineer, (Buildings), PWD, Govt of Tamilnadu, Chennai (Civil Engineering Division)
- Er K Thachanamoorthy, Executive Engineer, PWD, Chennai (Civil Engineering Division)
- Er R Suresh Babu, Consulting Engineer, HI-Tech Valuers, Chennai (Civil Engineering Division)
- Er P Rajamani, Consulting Engineer, Madurai (Electrical Engineering Division)
- Er R Balamurugan, Executive Engineer, Thermal Power Station-1, NLC Limited, Neyveli (Electrical Engineering Division)
- Dr M Velan, Chief Manager, Environment, Energy Efficiency & Corp Planning, NLC Ltd., Neyveli (Environmental Engineering Division)
- Dr U Ramachandraiah, Head, EIE Dept, Hindustan University, Chennai (Electronics Engineering Division)
- Er N SenthilKumar, Assistant Executive Engineer, TNEB, Chennai (Electronics and Telecommunication Engineering Division)
- Dr G Ranganath, Principal, Adhiyamaan College of Engineering, Hosur (Mechanical Engineering Division)
- Er D Kumar, Former Senior Manager Engineer, BHEL, Ranipet (Mechanical Engineering Division)
- Er K Padmini, Vice Principal, T M G College of Arts And Science, Chennai (Mechanical Engineering Division)
- Er S Kannan, Consulting Engineer, Chennai (Marine Engineering Division)
- Er M Raghunathan, Dy General Manager, Mine Planning Dept., Neyveli Lignite Corpn. Ltd., Neyveli (Mining Engineering Division)
- Er K N Sivaraju, Past Honorary Secretary, IE(I) / Salem Local Centre, Salem (Metallurgy and Material Science Engineering Division)
- Er R Ramdoss, Consulting Engineer, Chennai (Production Engineering Division)
- Dr V Natarajan, Principal, Apollo Priyadarshanam Institute of Technology, Chennai (Textile Engineering Division)

EX-OFFICIO MEMBERS

Er R Periasamy, Chief Manager, Power Station Engg., NLC Ltd., Neyveli, Council Member - 2012-13 to 2015-2016

Er T M Gunaraja, Imm Past Chairman, IE(I),TNSC, Council Member-MC, Director, TMG College, MIET, Chennai

Dr R Murugesan, Imm Past Honorary Secretary, IE(I),TNSC, Consulting Engineer, Chennai

Er S Meganathan, Chairman, Rajalakshmi Group of Institution, Chennai (Outstanding Engineering Personality)

Er R Nagalingam, Consulting Engineer, Madurai (Outstanding Engineering Personality)

Er C M Dharmalingam, Dharmalingam Associates, Consulting Engineer, Coimbatore (Chairman, Coimbatore Local Centre)

Er S Jawahar, Scientific Officer SO/F Nuclear Training Centre, MARS, Kalpakkam (Chairman, Kalpakkam Local Centre)

Er R Ponbadi, Consulting Engineer, Madurai (Chairman, Madurai Local Centre)

Er N Ilamparuthi, Former Executive Director, NLC Ltd., Neyveli (Chairman, Neyveli Local Centre)

Dr V Karthikeyan, Principal, Thiagarajar Polytechnic College, Salem (Chairman, Salem Local Centre)

Er S Karuppasamy, Addl General Manager, BHEL, Trichy (Chairman, Tiruchirappalli Local Centre)

Er S T Mathew, Principal Surveyor Marine (Chairman, Tuticorin Local Centre)

Er M G RajaSankar, Senior DGM/Purchase, BHEL, Boiler Auxiliaries Plant, Ranipet (Chairman, Ranipet Local Centre)

Dr G Ranganath, Principal, Adhiyamaan College of Engineering, Hosur (Chairman, Hosur Local Centre)

Er D SUNDARASEKARAN
Honorary Secretary

ANNUAL REPORT FOR THE YEAR 2015-2016

1. The Chairman and Members of the Committee of the Tamilnadu State Centre have great pleasure in presenting the Annual Report for the year 2015-2016 (Ended on 31st March 2016) to its members, giving in brief, a resume of activities of the State Centre during this period.

2. OFFICE BEARERS:

- 2.1 **Er K P Ramanathan FIE**, Chairman, Former Chief Mechanical Engineer, Chennai Port Trust
- 2.2 **Er Sundarasekaran FIE**, Honorary Secretary, Former General Manager-Plant group, Madras Fertilizers Ltd.,
- 2.3 The following Members are serving in the Committee (Representing the Engineering Divisions given in the parenthesis)
 1. **Er P Gomathi Nayagam**, Consultant Engineer, Agriculture Engineering Division.
 2. **Dr J Arivudainambi**, Professor & Head, Adhiyamaan College of Engineering, Hosur, Aerospace Engineering Division
 3. **Er Zacharia George**, Principal Structural Consultant, M/s Pithavadian & Partners (Architecture), Architectural Engineering Division.
 4. **Er R Ravichander**, Former Manager, Brahmaputra Valley Fertilizer Corpn Ltd., Chemical Engineering Division
 5. **Dr P Sakthivel**, Associate Professor, Dept. of ECE, Anna University, Chennai, Computer Engineering Division
 6. **Er K P Sathyamurthy**, Deputy Chief Engineer, (Buildings) PWD, Govt of Tamilnadu, Chennai, Civil Engineering Division
 7. **Er K Thachanamorthy**, Executive Engineer, PWD, Chennai, Civil Engineering Division
 8. **Er R Suresh Babu**, Consulting Engineer, HI-Tech Valuers, Civil Engineering Division
 9. **Er P Rajamani**, Consulting Engineer, Electrical Engineering Division
 10. **Er R Balamurugan**, Executive Engineer, Thermal power Station-1 NLC Limited, Neyveli, Electrical Engineering Division
 11. **Dr M Velan**, Chief Manager, Environment, Energy Efficiency & Corp Planning, NLC Ltd., Neyveli, Environmental Engineering Division
 12. **Dr U Ramachandraiah**, Head, EIE Dept Hindustan University, Chennai, Electronics Engineering Division
 13. **Er N SenthilKumar**, Asst. Executive Engineer, TNEB, Chennai, Electronics and Telecommunication Engineering Division
 14. **Dr G Ranganath**, Principal, Adhiyamaan College of Engineering, Hosur, Mechanical Engineering Division
 15. **Er D Kumar**, Former Senior Manager Engineer, BHEL, Trichy, Mechanical Engineering Division
 16. **Er K Padmini**, Vice Principal, T M G College of Arts And Science, Chennai, Mechanical Engineering Division
 17. **Er S Kannan**, Consulting Engineer, Marine Engineering Division
 18. **Er M Raghunathan**, Dy General Manager, Mine Planning Dept., Neyveli Lignite Corpn. Ltd., Neyveli, Mining Engineering Division
 19. **Er K N Sivaraju**, Past Honorary Secretary, IEI/ Salem Local Centre, Metallurgy and Material Science Engineering Division

20. **Er R Ramdoss**, Consulting Engineer, Production Engineering Division
21. **Dr V Natarajan**, Principal, Apollo Priyadarshanam Institute of Technology, Chennai, Textile Engineering Division

EX-OFFICIO MEMBERS:

- Er R Periasamy**, Chief Manager, Power Station Engg., NLC Ltd.(Council Member) - 2012-13 to 2015-16
- Er T M Gunaraja**, Imm Past Chairman, IEI/TSC, Council Member -MC, Director, TMG College, MIET, Chennai
- Dr R Murugesan**, Imm Past Honorary Secretary, IEI/TSC, Consulting Engineer
- Er C M Dharmalingam**, Dharmalingam Associates, Consulting Engineer (Chairman, Coimbatore Local Centre)
- Er S Jawahar**, Scientific Officer SO/F Nuclear Training Centre, MARS, Kalpakkam (Chairman, Kalpakkam Local Centre)
- Er R Ponbadi**, Consulting Engineer, Madurai (Chairman, Madurai Local Centre)
- Er N Ilamparuthi**, O/o Executive Director SME& Conveyor (Mines), Neyveli (Chairman, Neyveli Local Centre)
- Dr V Karthikeyan**, Principal, Thiagarajar Polytechnic College, Salem (Chairman, Salem Local Centre)
- Er S Karuppusamy**, Addl General Manager, BHEL, Trichy (Chairman, Tiruchirappalli Local Centre)
- Er P S N Kumar**, Principal, Chandy Polytechnic College, Tuticorin (Chairman, Tuticorin Local Centre)
- Er M G RajaSankar**, Senior DGM/Purchase, BHEL, Boiler Auxiliaries Plant, Ranipet (Chairman, Ranipet Local Centre)
- Dr G Ranganath**, Principal, Adhiyamaan College of Engineering, Hosur (Chairman, Hosur Local Centre)

OUTSTANDING ENGINEERS:

- Er S Meganathan**, Chairman, Rajalakshmi Group of Institution, Chennai
- Er R Nagalingam**, Consulting Engineer

CO-OPTED MEMBERS:

- Col P Nallathambi**, Structural Consulting Engineer, Chennai
- Er P Baskaran**, RTO Office, Chennai
- Er K Sivaprakasam**, Director, TNEB-Chennai
- Er K S Ramalingam**, DMF & Innovation Consultant, Chennai

3. ANNUAL GENERAL MEETING:

The 93rd Annual General Meeting of the Tamilnadu State Centre was held on 31st October 2015 at 5.30 PM at the Institution Premises, 19 Swami Sivananda Salai, Chepauk, Chennai 600 005.

3.1 OBITUARY:

Er Kesavelu Balaraman FIE, Er R Murugesan MIE, Er K Devaraj MIE, Er J N Iyer MIE, Er S Neelakantan MIE, Er S Srinivasan MIE, Er V Janardhanan MIE, Er CR Subramanian MIE, Er G Radhakrishnan FIE, Er R Krishnamurthy MIE, Er V Venkatesan AMIE

3.2 MEMBERSHIP:

The comparative statement shows the strength of Membership of the State Centre for the past five years:

Strength as on	AG	AR	AS	CH	CP	CV	EL	EN	ET	MC	MM	MN	MR	PR	TX	TOTAL	Non-Corp. Members	Associates
31.3.2012	51	27	28	287	251	4682	2694	85	983	4213	82	94	110	244	158	13989	66073	5518
31.3.2013	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	19877	67609	—
31.3.2014	62	32	49	420	756	5776	3938	89	2372	5624	102	123	128	340	267	20078	88984	—
31.3.2015	65	32	55	438	804	6089	4074	94	2439	6453	107	127	131	364	284	21556	90931	—
31.3.2016	68	32	69	467	967	6522	4326	101	2627	6786	113	138	135	392	295	23038	93735	—

4. ACTIVITIES:

The following comparative statement shows the activities under various Divisions organized by the State Centre for the past five years.

YEAR	AG	AR	AS	CH	CP	CV	EL	EN	ET	MC	MM	MN	MR	PR	TX	ID	TOTAL
2011-2012	—	—	3	1	2	10	3	1	2	1	2	—	1	1	—	1	28
2012-2013	1	2	1	—	—	4	1	1	—	2	—	—	—	—	—	4	16
2013-2014	—	—	1	1	2	4	1	—	3	2	1	1	1	1	—	6	24
2014-2015	1	—	—	1	1	3	3	2	1	1	—	—	—	—	—	2	15
2015-2016	1	—	—	1	—	3	1	1	2	1	—	—	—	—	—	4	14

5. SEMINARS:

The following comparative statement gives the number of Seminars organised under various Divisions for the past five years by the State Centre.

YEAR	AG	AR	AS	CH	CP	CV	EL	EN	ET	MC	MM	MN	MR	PR	TX	ID	TOTAL
2011-2012	—	—	—	—	—	2	1	1	1	1	—	—	1	—	—	3	10
2012-2013	1	—	—	—	1	1	1	1	2	2	—	—	—	—	—	2	11
2013-2014	—	1	—	1	—	—	1	1	—	—	—	—	1	—	—	3	8
2014-2015	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1	2	4
2015-2016	1	—	1	—	—	1	—	—	—	—	—	—	—	—	1	1	5

NOTE: Abbreviations used in Tables: AS-Aerospace, AG-Agriculture, AR-Architecture, CH-Chemical, CV-Civil, CP-Computer, EL-Electrical, EN-Environment, ET-Electronics & Telecommunication, MC-Mechanical, MN-Mining, MM-Metallurgy & Materials Science, MR-Marine, PR-Production, TX-Textiles, ID-Inter Disciplinary.

SEMINARS:

One Day Workshop on "Agricultural Engineering Interventions on Food Security and Safety" on 11th April 2015

47th World Telecommunication and Information Society Day, 17th May 2015

World Environment Day, 5th June 2015

Ar FB Pithavadian Memorial Lecture on 15th July 2015

All India Seminar on "Technical Textiles and its Applications in Medical and other Engineering Fields" on 10th & 11th September 2015

One Day Seminar on "Motivational Seminar Entrepreneurship Development" on 12th September 2015

48th Engineers' Day, 15th September 2015

World Habitat Day, 10th October 2015

World Standards Day, 14th October 2015

29th National Convention of Aerospace Engineers and National Seminar on "Aerospace Engineering: Innovative Practises Future Trends" on 27th & 28th November 2015.

One Day Workshop on "Construction Failures - Causes and Remedies" on 6th February 2016

2nd Tamilnadu State Centre Students & Technicians Convention and All India Seminar on "Innovation Technology and Knowledge Economy" on 18th March 2016

World Water Day, 22nd March 2016

6. COMMITTEE MEETINGS:

The Committee of Tamilnadu State Centre met 11 times during the period under report for transacting the business connected with the activities of the State Centre.

7. REPRESENTATION IN ADVISORY BODIES:

Anna University, Academic Council (Er T M Gunaraja)

Public Works Department, Housing Assessment Committee (Er K P Ramanathan)

Chennai Metropolitan Development Authority, Design Advisory Committee (Er KP Ramanathan)

Central Polytechnic College Academic Board (Dr D Thirunakkarasu)

Murugappa Chettiar Polytechnic, Academic Board (Er P R Seshadri)

Tamilnadu Polytechnic, Academic Council, Madurai (Er P Rajamani)

PAC Ramaswamy Raja's Polytechnic, Rajapalayam, Academic Board (Er P Rajamani)

8. TAMILNADU TECHNICIANS / STUDENTS CHAPTER:

The Tamilnadu Technicians' Chapter was activated under the convenership of Dr G Ranganath and the Students' Chapter is functioning

9. EXAMINATIONS:

The number of candidates who appeared for the Section A (Diploma & Non Diploma Streams) and Section B during Summer 2015 was 1200 and Winter was 1250 both the examinations were conducted at Sri Muthukumaran Institute of Technology, Mangadu, CHENNAI - 600069.

10. ACCOUNTS:

Statement of Income & Expenditure Accounts and Balance Sheet of the State Centre for the period ended 31st March 2016 duly audited by the Auditors and countersigned by the Chairman and Honorary Secretary.

NOTICE OF 94th ANNUAL GENERAL MEETING

Notice is hereby given that the 94th ANNUAL GENERAL MEETING of the Tamilnadu State Centre on 31st October 2016 at 5.30 PM at the Institution premises, 19, Swami Sivananda Salai, Chepauk, Chennai - 600 005 to transact the following:

- To confirm the Minutes of 93rd Annual General Meeting held on 31st October 2015.
- To receive the Audited Accounts and Annual Report for the year ended 31st March 2016.
- To report about the composition of the Committee for the session 2016-2017
- To appoint Auditors for the year 2016-2017 and to fix their Remuneration.

8th October 2016
Chennai

Er D SUNDARASEKARAN
Honorary Secretary

Note:The Minutes of the 93rd Annual General Meeting is re-published elsewhere in this issue of the Bulletin. The Audited Statement of Accounts and the Annual Report for the year ended 31 March 2016 is also published in this issue for the information of all the members.

PROGRAMME FOR THE 94th ANNUAL SESSION

Monday the 31st October 2016

6.00 PM 94th Annual Session of the
Tamilnadu State Centre

Inaugural Address

7.30 PM Dinner

AUDITOR'S REPORT

We report that we have audited the annexed Balance Sheet of the **Institution of Engineers (India), Tamilnadu State Centre**, Chennai as at 31st March 2016, signed by us under reference to this report and the relative **Income & Expenditure Accounts** for the year ended on that date which are in agreement with the books of accounts maintained at Centre.

We have conducted our audit in accordance with auditing standards generally accepted in India. Those Standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An Audit includes examining on a test basis, evidence supporting the amounts and disclosures in the financial statements. An Audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion and to the best of our information and according to the explanations given to us the Balance Sheet and the relative Income & Expenditure Account together with the notes thereon and subject to Comments Nil in **Annexure (1)** give a true and fair view of the state of affairs of The Institution of Engineers (India), Tamilnadu State Centre, Chennai as on **31.03.2016** and the **excess of its Income over Expenditure** for the year ended on that date.

Subject to the comments in **Annexure (2)** we have obtained all the information and explanations which to the best of our knowledge and belief were necessary for our audit.

NOTES FOR COMMENT OF CENTRE'S AUDITORS FOR THE YEAR ENDED 31.03.2016

Centre's Auditors to see and comment under the following points and where applicable under items 1 and 2 of the Audit Report

1. (a) Title deeds of land - whether seen or not.	No	(m) Besides, the other matters, if any, cropped up in the course of audit which might affect the truth and fairness of the state of affairs of the Centre and its results for the year 31st March of relevant year.	No
(b) Alternative documents in absence of lease or title deed so as to prove the legal possession and authorisation for use by centre - to be seen.	Yes	2. (a) Progress / completion of construction work as on 31st March in respect of additions made during the year to the existing building to be checked	N.A.
(c) Lease deeds whether still valid?	Yes	(b) Contingent liability in respect of suits filed against the Centre, if any, to be ascertained	NIL
(d) Present position of building under construction - whether still incomplete or not, duly certified by Chartered Engineer.	N.A.	(c) We have obtained external confirmation for all the year end balance with bank (including current account, savings account, cash credit, overdraft, loans, fixed deposit and accrued interest) directly from the banks/financial institutions concerned at our office.	Yes
(e) Actual cost of acquisition of land including development charges, if any, included under building construction should be shown separately.	N.A.	3. Matters which do not really distort the truth and fairness of the accounts should not form part of the report and reported separately	
(f) Lease deeds of land/building whether free from encumbrances.	Yes	(a) Balance in advance schedule lying unadjusted for quite some time to be scrutinized and adjustments, if any, to be given effect to or amount if material to be reported upon.	NIL
(g) Confirm whether the requirements arising out of lease / grant deeds are met, the entire property is in the possession of the Institution and no sub-letting or otherwise use of the property by any other organisation has been made.	Yes	(b) Utilisation of fund transfer from headquarters for construction of building and acquiring of other assets to be checked and reported upon.	Yes
(h) Whether Fixed Assets Register maintained properly, i.e., total cost of assets as per Fixed Assets Register agreed with General Ledger Balance and all details, say location of assets, cost, nature of assets, rate of depreciation etc. are incorporated in the Register	Yes	(c) Statement of closing stock of stores/stationery to be credited by the management and to be attached along with audit report.	NIL
(i) Whether fixed assets of the Centre were physically verified by the Management during the year	Yes	4. If in addition the auditors want to comment on certain matters, they should write a management letter which must not be referred to in the above report.	No
(j) We have physically verified the cash balance and original fixed deposit certificates and no exception noted	Yes		
(k) We have physically verified all investments and a copy of details of such investments attached herewith.	Yes		
(l) Whether tax deducted at source from salary, contractors bill etc. are being deposited regularly as per Income Tax Rules.	Yes		

S. SHANKER & ASSOCIATES
 CHARTERED ACCOUNTANTS
(R. JAGANNATHAN)
 Partner
 (M.No. 27227)

Place : Chennai
 Date : 24.06.2016

BALANCE SHEET AS ON 31st MARCH 2016

LIABILITIES	31.03.2016 Rs. P.	31.03.2015 Rs. P.	ASSETS	31.03.2016 Rs. P.	31.03.2015 Rs. P.
Reserves & Surplus			Fixed Assets		
Head Quarters Account	3,928,164	2,011,307	Land & Buildings	6,145,663	6,145,663
Building Fund	1,658,329	1,658,329	Furniture & Equipment	1,970,249	1,691,339
Furniture Fund	190,811	190,811	Investments	349,460	319,019
General Fund	4,885	4,885	Current Assets		
Depreciation Fund	2,082,311	2,082,311	Sundry Debtors	—	—
Head Office Loan	800,000	1,000,000	Loans & Advances	—	6,450
Grant - Received in Advance	—	—	Security Deposits	35,166	16,566
Current Liabilities & Provisions	—	—	Stock of Rules & Syllabus	—	—
Pithavadiyan Memorial Lecture Fund	15,000	15,000	Cash & Bank Balances		
Late R. Sambasivam Endowment Fund	5,000	5,000	Cash on Hand	292	5,081
Dr. KCG Verghese Memorial Lecture Fund	100,000	100,000	Cash at Bank	2,154,376	754,476
Dr. Kiran Memorial Award Fund	25,000	25,000	Cheques in Hand	—	—
TNSC Guest House Fund	1,845,861	1,845,861	Recurring Grant Receivable	87,871	87,871
Library Deposits	132,065	132,065	T D S Receivable	—	—
Liabilities for Expenses	21,300	21,545	IEC Expenses - General Fund	—	—
			Assets of IEC Seminar (Sep Sch)	65,649	65,650
	10,808,726	9,092,114		10,808,726	9,092,114

The Institution of Engineers (India)
 Tamil Nadu State Centre
 Sd/-

Sd/- 0000000
S. SHANKER & ASSOCIATES
 Chartered Accountants

Place : Chennai
 Date : 24.06.2016

Er. K.P. RAMANATHAN
 Chairman

Er. D. SUNDARASEKARAN
 Hony. Secretary

(R. JAGANNATHAN)
 Partner
 M. No. 27227

INCOME & EXPENDITURE ACCOUNT FOR THE YEAR ENDED 31st MARCH 2016

TOTAL 31.03.2015	EXPENDITURE	TOTAL 31.03.2016	TOTAL 31.03.2015	INCOME	TOTAL 31.03.2016
	Establishment Expenses, Research & Development Education	100%		By Grant Received From Head Quarters Research & Development Education	100%
486,215	To Salaries & Wages	370,409	1,682,015	By Recurring Grant	1,685,570
551,059	To Dearness Pay & Allow., + Arrears	5,787	12,000	By Incentive For Grant for timely Submission of Accounts	6,000
96,022	To Conveyance Allowance	28,650	45,000	By Incentive - Towards Institutional Members	90,000
122,124	To House Rent Allowance	—	—	By Grant for Seminar	—
11,546	To Ad Hoc Bonus	4,500	—	By Grant for Training Programme	—
289,700	To Salary to Temp Staff/ Casual Staff	508,848	5,181	By Grant for Bonus	—
6,669	To Books & Periodicals	11,880	300,000	By Grant for Land & Building	700,000
	Office Expenses, Repairs & Maintain, General Charges, Research & Development Education	100%	324,263	By Grant - Election Expenses	158,655
28,429	To Postage & Stamps	47,816		Reimbursement from Head Quarters & Research Development Education	
35,022	To Telephone	48,068	867,287	By Reimbursement for Pay & Allowance	739,608
37,244	To Printing & Stationary	33,985		Library Receipts and Other Receipts	
107,332	To Electricity Charges	101,918	4,000	By Lecture Meeting Contributions	30,000
67,770	To Building & Other Maintenance	64,640	143,612	By Donation - Building Fund, Flood Relief Fund etc.,	162,003
81,725	To Refreshment Expenses	54,157	198,920	By Hall Rent	282,525
31,135	To Rates & Taxes	10,520	3,000	By Advertisement Charges	36,000
4,122	To One Day Works	1,590	242,463	By Guest House Rent	226,100
4,300	To Internet Expenses	24,565	—	By Arbitrator Appointment	50,000
6,705	To Gardening Expenses	2,540		Grant From Head Quarters for Students Education	
10,604	To Water Charges	11,566	—	Summer Exams	—
150,000	To Expenses on M V Statue	—	277,498	Winter Exams / AMIE Exams	216,040
26,425	To Computer Maintenance Charges	30,036		Receipts for Technical Activities	
1,126	To Office Expenses	925	773,793	Seminar Contributions	870,449
11,760	To Conveyance Expenses	46,144	—	Technical Visit Collections	—
57,672	To Guest House Maintenance	86,865	23,500	RDC Project	25,000
1,648	To Bank Charges	740	915,515	Contributions - Engineers Day	72,300
7,500	To Accounting Charges	7,500		IEC Receipt	—
14,045	To Audit Fees	13,800		Interest / Dividend Income	100%
5,420	To Lease Rent - Land	5,420	31,480	By Interest on Fixed Deposit	30,441
—	To Books for the Library	14,188	20,542	By Interest on Savings Bank	40,031
14,849	To Equipment Maintenance	80,003			
67,000	To Security - Salary	87,000			
	Expenses for Technical Activities & Meeting Expenses	100%			
46,005	To Engineers Day Celebration	75,051			
229,625	To Printing - Bulletin	514,289			
82,979	To Meeting Expenses	92,065			
360,010	To Seminar Expenses	764,684			
60,883	To 93rd Annual Session	35,499			
60,623	To Facilitaion Expenses	9,673			
87,684	To Postage & Labour - Bulletin	80,920			
216,902	To Election Expenses	—			
—	Examination Expenses - Direct Basis of Allocation - Education				
102,000	Summer Exam Expenses				
101,864	Winter Exam Expenses (AMIE)	227,622			
2,186,329	Excess of Income over Expenditure	1,916,857			
5,870,072		5,420,722	5,870,069		5,420,722

The Institution of Engineers (India)
Tamil Nadu State Centre
Sd/-

Er. K.P. RAMANATHAN
Chairman

Er. D. SUNDARASEKARAN
Hony. Secretary

As per report annexed
Sd/- 0000000
S. SHANKER & ASSOCIATES
Chartered Accountants
(R. JAGANNATHAN)
Partner
M. No. 27227

Place : Chennai
Date : 24.06.2016

(contd. from page 2)

delivered the glimpses from the life sketch of Bharat Ratna Dr Sir M Visvesvaraya. Er K P Ramanathan, Chairman, IE(I), TNSC honoured the Chief Guest Er S Ganesh Mani with memento and shawl. Er S Ganesh Mani, Vice President (Production), M/s Hyundai Motors India Limited, Chennai delivered the thematic address on the theme “**Skill Development for Young Engineers to Reform the Core Sector: Vision 2025**” with power point presentation.

The Institution of Engineer (India), Tamilnadu State Centre wants to recognize our Past Chairman & Past Honorary Secretary for their contribution towards IE(I), TNSC during their tenure. The following members present on the occasion of the 49th Engineers Day Celebration to get the awards. The awardees are Er S V Rao, Er P V B Satyadhanapathi, Dr D Thirunakkarasu, Er P R Seshadri, Er T M Gunaraja, Er I M Rao, Er K Sivaprakasam, Er K P Satyamurthy, Dr R Murugesan.

The Institution of Engineer (India), Tamilnadu State Centre has decided to give awards to Individual/ Academia/ Chapters/ Students / Industry for their excellent performance during this academic year. We have received lots of application for various

awards. The awardees are selected under various category.

They are: Er Zacharia George - Best Individual Senior Award, Dr R Murugesan - Best Individual Engineer Award, Dr S Muthu - Academia (Engineering College Award) - Best Senior Engineer Award, Dr Wahidabanu R S D - Academia (Engineering College Award) - Best Woman Engineer Award, Dr R Sowmeyan - Academia (Engineering College Award) - Best Engineer Award, Dr V Karthikeyan - Academia (Polytechnic College Award) - Best Engineer Award, Indian Oil Corporation Ltd., - Southern Region Pipelines is awarded under the category of Best Innovation & Sustainability Award for Industry, Thiagarajar Polytechnic College - Salem is awarded under the category of Best Innovation & Sustainability Award for Polytechnic College and Easwari Engineering College - Students Chapter Civil Department is awarded under the category of Best IE(I) Student Chapter Award for Engineering College.

Er D Sundarasekaran, Honorary Secretary delivered the Vote of Thanks and thanked all the Sister Institutions for joining with us and thanked the students participated in the celebrations. About 200 members took part in this celebrations.

TECHNICAL PROGRAMME FOR OCTOBER 2016

Lecture: 6.00 p.m.

Venue: IE (I) Auditorium (Unless mentioned otherwise)

Tea: 5.45 p.m.

- 5th Oct. 2016** **WORLD HABITAT DAY** on the Theme “**Housing at the Centre**” by **Er M Kumar**, Chief Engineer, Tamil Nadu Police Housing Corporation Ltd., Chennai
- 7th & 8th Oct. 2016** **All India Seminar on “Make in India”** by **Er K S Ramalingam**, MIE, Co-opt Member in Mechanical Engineering Division, IE(I), TNSC.
(9 am - 5 pm)
- 14th Oct. 2016** **WORLD STANDARDS DAY** on the theme “**Standards Build Trust**”.
- 22nd Oct. 2016** Talk on “**Can Concrete be customised**” by **Mr. Anil Kumar Pillai**, DGM – Technical Services, RAMCO Cements Ltd., Chennai
- 31st Oct. 2016** **94th Annual General Meeting and Annual Session.** Chief Guest: **Er P. Raveendran**, IRTS, Chairman, Chennai Port Trust. Guest of Honour: **Er K R S R Krishna**, Vice President, Head Engineering, Petrofac Engineering and Production Services (PEPS), Chennai
(5.30 p.m)

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The Institution of Engineers (India)

Tamilnadu State Centre

19, Swami Sivananda Salai

Chepauk, Chennai – 600 005.

Phone: 044-25360614 / 25369433

E-mail: ieitamilnadu@gmail.com / tns@ieindia.org Website: www.ieitamilnadu.org