

COMPOSITION OF ELECTROTECHNICAL DIVISION COUNCIL (ETDC)

Bureau of Energy Efficiency		Confederation of Indian Industry	
Dr Ajay Mathur	<i>Chairman</i>	Shri Narang G.C.	<i>Principal</i>
Bureau of Indian Standards		Shri Rajat Nandi	<i>Alternate</i>
Shri R.K. Trehan	<i>Member Secretary</i>	Central Pollution Control Board	
ABB Ltd.		Nomination Awaited	<i>Principal</i>
	<i>Principal</i>	Central Power Research Institute	
Dr. Satyanarayana P.	<i>Alternate</i>	Dr R S Shivakumara	<i>Principal</i>
Association of Indian Dry Cell		Shri M A Ansari	<i>Principal</i>
Shri S. Kumaraswami	<i>Principal</i>	Central Public Works Department	
Bureau of Energy Efficiency		Shri K.K. Sharma	<i>Principal</i>
Chairman of the Committee	<i>Principal</i>	Shri M.K. Verma	<i>Alternate</i>
Shri Shri S.P. Garnaik	<i>Alternate</i>	Development Commissioner Micro, Small	
Bharat Heavy Electricals Ltd.		Shri A.K. Verma	<i>Principal</i>
Shri Babu B.Y.	<i>Principal</i>	Ministry of Defence	
Shri Aron A.C	<i>Alternate</i>	Lt. Gen MC Badhani,	<i>Principal</i>
Central Board of Irrigation & Power		Maj.	<i>Alternate</i>
Shri Kanjalia V. K.	<i>Principal</i>	Delhi Electricity Regulatory Commission	
Shri Wahi P. P.	<i>Alternate</i>	Nomination Awaited	<i>Principal</i>
Central Electricity Authority		Directorate General of Mines Safety	
Dr Prabhat Mohan	<i>Principal</i>	Shri Dharmendra Kumar	<i>Principal</i>
Shri P K Mishra	<i>Alternate</i>	Shri B.K. Panigrahi	<i>Alternate</i>
Chief Electrical Inspectorate (Orissa)		Directorate General of Supplies &	
Shri Jera S.K.	<i>Principal</i>	Shri S.K. Kataria	<i>Principal</i>
Shri Mohanty G.M.	<i>Alternate</i>	Shri P. Singhal	<i>Alternate</i>
Chief Electrical Inspectorate (Tamil Nadu)		Shri Anil Gupta	<i>Second</i>
<i>Alternate</i>		Department of Industrial Development	
Shri N. Thiruvazhi Marpha	<i>Principal</i>	Shri S.K. Jain	<i>Principal</i>
Shri P. Balasubramanian	<i>Alternate</i>	Shri Yusufzai Khan M.Z.	<i>Alternate</i>
CESC Limited		Delhi Transco Ltd	
Shri Aurobinda Basu	<i>Principal</i>	Shri Bhupinder Nath,	<i>Principal</i>
Shri Jayanta Ranjan	<i>Alternate</i>	Shri V.K. Garg, DGM(Tech.)	<i>Alternate</i>
Crompton Greaves Ltd.		Kerala Electricity Board	
Shri Dileep Bhawe	<i>Principal</i>	Nomination Awaited	<i>Principal</i>
Shri Govindan T.P.	<i>Alternate</i>		

Punjab State Electricity BoardChief Engineer/MM *Principal*Chief Purchase Officer *Alternate***Electrical Contractors Association of**Shri Kamlesh Shah *Principal*Shri Pradeep Shah *Alternate*Shri Satish Y. Kazi *Second Alternate***Engineers India Ltd.**Shri JM Singh Baweja *Principal*Shri N. Sethi *Alternate***Electric Lamp & Component Mfrs. Assn of**Shri Shyam Sujan *Principal*Shri H.S. Mamak *Alternate*Shri Rajeev Chopra *Second Alternate***Electrical Research & Development**Shri T P Govindan *Principal*Dr. Krishnamoorthy P.A. *Alternate***Federation of Association of Small***Alternate*Shri Ramesh Khanna *Principal*President *Alternate***IEEMA**Shri P.V. Krishna *Principal*Shri J. Pande *Alternate***In personal Capacity**Shri P.K.Mukherjee *Principal***Indian Ports Association**Shri Eddy Rodrigues *Principal*Shri Sudhakar K.R. *Alternate***Indian Society of Lighting Engineers**Shri Venkataramani S. *Principal***Mazagon Dock Limited**Shri Vinod Kamra *Principal*Shri Biju George *Alternate***Mormugao Port Trust**Nomination Awaited *Principal***Voluntary Organisation in Interest of**Shri Wadhwa H *Principal*Shri K C Chaudhary *Alternate***National Hydroelectric Power Corporation**Shri Ratish Kumar *Principal*Shri Janardan Choudhary *Alternate***National Physical Laboratory**Shri Mittal M.K. *Principal***National Test House**Smt Bhakta Uma *Principal*Shri Dutta D.K. *Alternate***NTPC Ltd**Shri Pramod Kumar *Principal*Shri Dinakar Devate *Alternate***Power Grid Corporation of India Ltd.**Shri Bhatnagar M.C. *Principal*Shri V.K. Prasher, *Principal***Research Design & Standards Organisation**Shri A L Mathur *Principal*Shri Kishore Kumar *Alternate*Shri Sanjiv Swarup *Second***Rural Electification Corporation Ltd.**Shri Dinesh Kumar *Principal*Shri P.S. Hariharan *Alternate***Reliance Energy Ltd.**Shri Krishna kumar P, *Principal***Standardisation Testing & QC Directorate**Nomination Awaited *Principal***The Tata Power Co Ltd,**Shri D.A. Sathe, *Principal*Shri D. Raina *Alternate***Tata Consulting Engineers**Shri Rangnekar A.D *Principal*Shri Chief Electrical *Alternate***Telecom Engineering Centre**Shri Raman Radhey *Principal*

**COMPOSITION OF
ET 01 BASIC ELECTROTECHNICAL STANDARDS**

In Personal Capacity

Prof (Dr) Mukhopadhyay S. *Chairman*

Bureau of Indian Standards

Smt Manju Gupta *Member Secretary*

ABB Ltd.

Dr Shendre Yogesh *Principal*

Shri Khandkar A.A. *Alternate*

Bharat Heavy Electricals Ltd.

Shri S. Meetna *Principal*

Shri S.G. Bodake *Alternate*

Central Electricity Authority

Dr Prabhat Mohan *Principal*

Central Power Research Institute

Ms Shivakumara Aradhya *Principal*

Dr B. Gunasekaran *Alternate*

Central Public Works Department

Shri *Principal*

Shri Verma M.K. *Alternate*

DG Factory Advisory Services & Labour

Shri H. Vishvanathan *Principal*

Shri Subash Chandra *Alternate*

Engineers India Ltd.

Shri J.M. Singh Baweja *Principal*

Shri U.A. Patro *Alternate*

Electrical Research & Development

Shri P.A. Krishnamurthy *Principal*

Shri Trivedi U.C. *Principal*

IEEMA

Shri Pande J. *Alternate*

Larsen & Toubro Ltd

Shri Sharma S.P. *Principal*

Nuclear Power Corporation of India Ltd

Shri P. Ananda Rao *Principal*

Shri Sanjoy Sarkar *Alternate*

National Physical Laboratory

Dr V.N. Ojha *Principal*

National Test House

Smt Uma Bhakta *Principal*

Shri S.K. Dutta *Alternate*

Power Grid Corporation of India Ltd.

Shri Subir Sen *Principal*

Shri Y.K. sehgal *Alternate*

Research Design & Standards Organisation

Shri B. S. Bodh *Principal*

Shri Bhatnagar Sumit *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Hariharan *Alternate*

Tamil Nadu Electricity Board

Shri C. Santhana Gopala *Principal*

Shri K. Gopinathan *Alternate*

Yokogawa Keonics Ltd.

Shri Balasubramanian T. *Principal*

**COMPOSITION OF
ET 02 SOLID ELECTRICAL INSULATING MATERIALS**

In personal Capacity

Dr. O.P. Chabra *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

ABB Ltd.

Shri Gagan Mehra *Principal*

Birla 3 M

Nomination awaited *Principal*

Bhabha Atomic Research Centre

Shri Ramteke P.K. *Principal*

Shri Santosh S. *Alternate*

Beck India Ltd.

Shri Kulthe Abhay *Principal*

Shri S.V. Joshi *Alternate*

Bharat Heavy Electricals Ltd.

Shri P.P. Varadacharyulu *Principal*

Shri R. Vijay Kumar *Alternate*

Shri Satyanarayan K. *Second Alternate*

Central Electricity Authority

Shri B. Tiwary *Principal*

Shri B. R. Alwani *Alternate*

Cummins Generators

Nomination awaited *Chairman*

Central Power Research Institute

Smt. S. Ganga *Principal*

Dr. Rajan Sundar *Alternate*

Ciba Specialty Chemicals (India) Ltd.

Nomination awaited *Principal*

Electrical Research & Development

Dr. Krishna Moorthy P.A. *Principal*

Dr J. Varughese *Alternate*

GE Plastics

Nomination awaited *Principal*

Voluntary Organisation in Interest of

Shri T.C. Kapoor *Principal*

IEEMA

Ms. Indra Prem Menon *Principal*

Shri J. Pande *Alternate*

Indian Institute of Science, Bangalore

Nomination awaited *Principal*

Lakshmanan Isola Ltd

Shri Basu A.K. *Principal*

Shri Shukla A.K. *Alternate*

National Hydroelectric Power Corporation

Shri Nain Singh *Principal*

Shri S. K. Sandhu *Alternate*

National Test House

Shri Md. Najmuddin *Principal*

Shri S.K. Menon *Alternate*

NTPC Ltd

Shri D.K. Chaturvedi *Principal*

Shri P.K. Basu *Alternate*

Power Grid Corporation of India Ltd.

Shri R.V. Holla *Principal*

Permali Wallace Ltd.

Shri Kodesai SK *Principal*

Dr. B. S. Parmar *Alternate*

Shriram Institute for industrial Research

Dr. P.K. Kaicker *Principal*

Dr. R.K. Raina *Alternate*

Siemens Ltd.

Shri Ashish Shere *Principal*

Shri R. Gopalkrishnan *Alternate*

Senapathy Whiteley Pvt. Ltd

Shri Tushar Udgata *Principal*

Shri S. A. Govindaraj *Alternate*

Universal Cables Ltd.

Nomination awaited *Chairman*

**COMPOSITION OF
ET 03 FLUIDS FOR ELECTROTECHNICAL**

In Personal Capacity		Dr. D. Ravindra	<i>Alternate</i>
Shri S. Sridhar	<i>Chairman</i>	Shri Pattanashetti V.V.	<i>Second</i>
<i>Alternate</i>			
Bureau of Indian Standards		U.P. Rajya Vidyut Utpadan Nigam Ltd	
Shri Sumit Sengar,	<i>Member Secretary</i>	Shri Girish	<i>Principal</i>
ABB Ltd.		ECE Industries Ltd.	
Shri P. Ramachandran	<i>Principal</i>	Nomination awaited	<i>Principal</i>
Shri Tarun Garg,	<i>Alternate</i>	ELICO Limited	
Apar Industries Limited		Shri T.V. Shiva K. Rao	<i>Principal</i>
Dr. T.C.S.M. Gupta	<i>Principal</i>	EMCO Ltd.	
Shri Jagannathan D.V.	<i>Alternate</i>	Nomination awaited	<i>Principal</i>
Shri Sanjay Abhyankar	<i>Second Alternate</i>	Electrical Research & Development	
Areva Transmission and Distribution		Dr P.A. Krishnamoorthy	<i>Principal</i>
Shri M. Vijayakumaran	<i>Principal</i>	Dr. Patel M.J.	<i>Alternate</i>
Shri Abhilash Mishra	<i>Alternate</i>	IEEMA	
Bharat Heavy Electricals Ltd.		Shri Pande J.	<i>Principal</i>
Shri R.K. Tiwari	<i>Principal</i>	Ms. Gupta Anita	<i>Alternate</i>
Shri Dharmendra Varyani	<i>Alternate</i>	Indian Oil Corporation Ltd.	
Shri S.K. Mahajan	<i>Second Alternate</i>	Dr. Mookan R.T.	<i>Principal</i>
Bharat Petroleum		Dr. A. N. Jaiswal	<i>Alternate</i>
Nomination awaited	<i>Principal</i>	Nuclear Power Corporation of India Ltd	
B.R. Industrial Services		Shri ANJANEYULU B.	<i>Principal</i>
Shri Shirish L. Deshmukh	<i>Principal</i>	Shri S. K. Tiwari	<i>Alternate</i>
Central Electricity Authority		NTPC Ltd	
Dr. Prabhat Mohan	<i>Principal</i>	Shri Dinkar Devate	<i>Principal</i>
Dr. Director (Substation),	<i>Alternate</i>	Shri S. D. Singh	<i>Alternate</i>
CESC Limited		Power Grid Corporation of India Ltd.	
Shri Chakraborty Sanjay	<i>Principal</i>	Shri B.N. De. Bhowmic	<i>Principal</i>
Shri Bose R.N.,	<i>Alternate</i>	Shri Gunjan Agarwal	<i>Alternate</i>
Crompton Greaves Ltd.		Research Design & Standards Organisation	
Dr Venkatasami. A	<i>Principal</i>	Shri Sujeet Mishra	<i>Principal</i>
Shri Krishnan S.	<i>Alternate</i>	Shri Arvind Kumar	<i>Alternate</i>
Central Power Research Institute			
Smt. Vijayakumari.S	<i>Principal</i>		

Raj Petro Specialities Pvt. Ltd.

Shri Nalin J Nanavati *Principal*

Shr Mangesh G. Bhurke *Alternate*

Savita Chemicals Ltd.

Shri Ramnath Nayak *Principal*

Dr C. S. Narasimhan *Alternate*

Shri Vinod K. Rishi *Second Alternate*

Siemens Ltd.

Dilip Khandekar *Principal*

Tamil Nadu Electricity Board

Chief Engineer *Principal*

Executive Engineer *Alternate*

Tata Power Company Ltd

Nomination awaited *Principal*

Universal Petrochemicals Ltd.

Shri Halwasiya P.K. *Principal*

Shri Smt Aparna Naik *Alternate*

**COMPOSITION OF
ET 06 ELECTRICAL INSULATORS AND ACCESSORIES**

North East Transmission Company Ltd.

Shri M. Krishnakumar *Chairman*

Bureau of Indian Standards

Smt Manju Gupta *Member Secretary*

Aditya Birla Insulators Co.

Shri Vikas Khosla *Principal*

Shri D.N. Joshi *Alternate*

A P Transco

Shri S. Subramaniam *Alternate*

Areva Transmission and Distribution

Smt Elizabeth Johnson *Principal*

Shri S. Mohan *Alternate*

Bharat Heavy Electricals Ltd.

Shri S. Jithender Reddy *Principal*

Shri Upendra Deep *Alternate*

Shri Aseem Dhamijia *Alternate*

Central Electricity Authority

Shri Narender Singh *Principal*

Shri S.K. Ray Mohapatra *Alternate*

Central Power Research Institute

Dr. N. Vasudev *Principal*

Shri B.M. Mehra *Alternate*

Ministry of Defence

Shri Dr. Ram Verma *Principal*

Shri Arvind Kumar *Alternate*

Department of Telecommunications

Shri Pradeep Nettur *Principal*

Shri J.S. Yadav *Alternate*

West Bengal State Electricity Board

Nomination awaited *Principal*

Electrical Research & Development

Shri A.S. Khopkar *Principal*

Smt S.S. Godkhindi *Alternate*

GETCO

Nomination awaited *Principal*

Goldstone Teleservices Ltd

Col (R) M B Jauhri *Principal*

Shri B Kiran Kumar Reddy *Alternate*

IEEMA

Shri P. Sridharan *Principal*

Shri J. Pande *Alternate*

Insulators & Electricals Ltd

Nomination awaited *Principal*

Jaipur Glass & Potteries

Shri Romana Karnail Singh *Principal*

Shri Data Daya Kishan *Alternate*

Karnataka Power Transmission Corpn Ltd

Shri Krishnamurthy Naik K. *Principal*

Shri K.Lakshminarayana *Alternate*

Modern Malleable Ltd.

Shri B.N. Jhunjunwala *Principal*

Shri A.N. Chaudhuri *Alternate*

Modern Insulators Ltd.

Shri L.K. Sachdeva *Principal*

Shri Avinash Chaurasia *Alternate*

New Delhi Power Ltd

Shri Ashok Saraf *Principal*

National Test House

Shri S.K. Mathur *Principal*

Shri P.K. Bera *Alternate*

NTPC Ltd

Shri S.D. Singh *Principal*

Ms Pal Anita *Alternate*

Power Grid Corporation of India Ltd.

Shri Rajesh Kumar *Alternate*

Punjab State Transmission Corp. Ltd,

Chief Engineer/TL *Principal*

Superintending Engineer, *Alternate*

Research Design & Standards Organisation

Shri B.S. Bodh *Principal*

Shri Sumit Bhatnagar *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Havihavan *Alternate*

Tag Corporation

Shri R.T. Chari *Principal*

Shri R.V.Gopalan *Alternate*

The Tata Power Co Ltd,

Shri P.P.Bhisey *Principal*

Shri S.V. Deshmukh *Alternate*

W.S. Industries (India) Ltd

Shri P. Sridharan *Principal*

Shri N.V. Ramkumar *Alternate*

**COMPOSITION OF
ET 07 LOW VOLTAGE SWITCHGEAR AND
CONTROLGEAR**

Central Power Research Institute		Shri R.K. Rai	<i>Principal</i>
Shri Anupam Awasthi	<i>Chairman</i>	Shri A.K. Verma	<i>Alternate</i>
Bureau of Indian Standards		Shri M.U. Farooq	<i>Second</i>
<i>Alternate</i>			
Smt Haque S. Nishat	<i>Member Secretary</i>		
BCH Electric Ltd.		Directorate General of Supplies &	
Shri Patro UAK	<i>Principal</i>	Shri Mishra P.K.	<i>Principal</i>
Shri D. Bhattacharjee	<i>Alternate</i>	Shri Subramanian V.	<i>Alternate</i>
Brihan Mumbai Electric Supply &		TamilNadu Electricity Board	
Shri R.K. Johri	<i>Principal</i>		<i>Principal</i>
Shri U.V. Vajandar	<i>Alternate</i>		<i>Alternate</i>
Bharat Heavy Electricals Ltd.		Elmex Controls Pvt Ltd	
Shri Vijaya Bhaskar	<i>Principal</i>	Shri Dilip Trivedi	<i>Principal</i>
Ms Neelam Bhogal	<i>Alternate</i>	Shri Robin Virani	<i>Alternate</i>
Shri K. V. Sarma	<i>Second Alternate</i>	Eon Electric Limited	
Central Electricity Authority		Shri Ranade P.K.	<i>Principal</i>
Shri T.K. Saha	<i>Principal</i>	Shri Mahendru Vinay	<i>Alternate</i>
Shri Vivek Goyal	<i>Alternate</i>	Electrical Research & Development	
CESC Limited		Dr Shah M.K.	<i>Principal</i>
Shri Debasis Gangopadhyay	<i>Principal</i>	Shri Gautam Som	<i>Alternate</i>
Consumer Guidance Society of India		GE Energy Industrial Solutions	
Shri Anil Dhumak	<i>Principal</i>	Shri S.N. Sharama	<i>Principal</i>
Confrols and Switchgear Co.		Shri Anil Pandit	<i>Alternate</i>
Shri Nadeem Khan	<i>Principal</i>	IEEMA	
Shri K. Venugopal	<i>Alternate</i>	Shri Sarkar A.	<i>Principal</i>
Central Power Research Institute		Smt Anita Gupta	<i>Alternate</i>
Shri B.R. Ravishankar	<i>Principal</i>	In personal Capacity	
Shri Anupam Awasthi	<i>Alternate</i>	Shri V. Ramachandran	<i>Principal</i>
Shri B.M. Mehra	<i>Second Alternate</i>	Jasper Engineers Pvt Ltd	
Central Public Works Department		Shri Mathur Arvind	<i>Principal</i>
Shri CE(E)PLP.	<i>Principal</i>	Shri Subhash C. Nijhawan	<i>Alternate</i>
Shri Sandhu H.S	<i>Alternate</i>	Larsen & Toubro Ltd	
Development Commissioner Micro, Small		Shri S.P. Sharma	<i>Principal</i>
		Shri M.K. Patki	<i>Alternate</i>

Legrand (India) Pvt Ltd.

Shri Mukesh Chawla *Principal*
Shri Suresh Deotalu *Alternate*
Shri Dhananjay Shindey *Second Alternate*

Nuclear Power Corporation of India Ltd

Shri M.K. Kawa *Principal*
Shri Tewari R.N. *Alternate*

NTPC Ltd

Smt C. Saroj *Principal*
Shri Talwar V.K. *Alternate*

Power Grid Corporation of India Ltd.

Shri R.K. Kakkar *Principal*
Shri Sudhakar Gupta *Alternate*

Rural Electification Corporation Ltd.

Shri Kumar Dinesh *Principal*
Shri Hariharan P.S. *Alternate*

Reliance Infrastructure Ltd

Shri Rabindran Singh *Principal*
Shri Binaya Sahoo *Alternate*

Steel Authority of India Ltd.

Shri Harsharan Singh *Principal*

Schneider Electric

Shri Babu Gajendra *Principal*
Shri Salil Pradhan *Alternate*

Siemens Ltd.

Shri Dhananjaya Gokhale *Principal*
Shri Abhijit Biswas *Alternate*
Shri Gautam Shetye *Second Alternate*

Small Scale MCB Manufacturers Welfare

Shri R.K. Gupta *Principal*
Shri Rakesh Jain *Alternate*

Tata Consulting Engineers

Shri Tahillaney G.S. *Principal*
Shri Khatavkar M.H *Alternate*

Voluntary Organisation in Interest of

Shri T.C. Kapoor *Principal*

Western India Switchgear Mfrs.

Shri Shah Nayan N. *Principal*
Shri Shashin N. Shah *Alternate*

**COMPOSITION OF
ET 08 HIGH VOLTAGE SWITCHGEAR AND
CONTROLGEAR**

Power Grid Corporation of India Ltd.		Shri M.K. Wadhvani	<i>Alternate</i>
Shri R.N. Nayak	<i>Chairman</i>	Shri B.V. Raghavaiah	<i>Second</i>
<i>Alternate</i>			
Bureau of Indian Standards		Maharashtra State Transco Ltd	
Smt Nishat S. Haque	<i>Member Secretary</i>	Chief Engineer(EHVT)	<i>Principal</i>
ABB Ltd.		Engineers India Ltd.	
Shri Patel G R	<i>Principal</i>	Shri J.M.Baweja Singh	<i>Principal</i>
Shri Dukkaiaappan S.	<i>Alternate</i>	Shri B.R. Bhogal	<i>Alternate</i>
Areva T&D India Ltd (ALSTOM)		HIVELM INDUSTRIES	
Shri N. Balasubramanian	<i>Principal</i>	Shri Ramanna Prasad	<i>Principal</i>
Shri Rahul Parbhane	<i>Alternate</i>	IEEMA	
Brihan Mumbai Electric Supply &		Shri Amitabha Sarkar	<i>Principal</i>
Shri S.R. Khedkar	<i>Principal</i>	Ms Anita Gupta	<i>Alternate</i>
Shri G.M. Bhagat	<i>Alternate</i>	In personal Capacity	
Bharat Heavy Electricals Ltd.		Shri B N Kishore	<i>Principal</i>
Ms Neelam Bhogal	<i>Principal</i>	National Hydroelectric Power Corporation	
Shri V.K. Mehta	<i>Alternate</i>	Shri Arvind Bhatt	<i>Principal</i>
Shri B. Yellaiah Babu	<i>Second Alternate</i>	Shri Kumar Ratish	<i>Alternate</i>
Shri K. V. Sarma	<i>Chairman</i>	Nuclear Power Corporation of India Ltd	
Central Board of Irrigation & Power		Shri Agarkar S.B.	<i>Principal</i>
Shri P.P. Wahi	<i>Principal</i>	Shri Sankaranarayanan N.	<i>Alternate</i>
Shri Vishan Dutt	<i>Alternate</i>	NTPC Ltd	
Central Electricity Authority		Shri A.K. Gupta	<i>Principal</i>
Director (Substation)	<i>Principal</i>	Shri S.P. Hambarde	<i>Alternate</i>
Dy. Director (Substation)	<i>Alternate</i>	Power Grid Corporation of India Ltd.	
CESC Limited		Shri M C Bhatnagar	<i>Principal</i>
Shri Abhijit Bose	<i>Principal</i>	Shri Gangadharan	<i>Alternate</i>
Shri Jaideep Basu Roy	<i>Alternate</i>	Shri R.K. Tyagi	<i>Second</i>
<i>Alternate</i>		Rajasthan Rajya Vidyut Prasaran Nigam	
Crompton Greaves Ltd.		Shri Ram B.	<i>Principal</i>
Shri Potnis S.B.	<i>Principal</i>	Shri Jangid D.S	<i>Alternate</i>
Shri S.S. Kale	<i>Alternate</i>		
Central Power Research Institute			
Shri Nandakumar V.S.	<i>Principal</i>		

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri Hariharan P.S. *Alternate*

Reliance Infrastructure Ltd

Shri Sajjad Rizvi *Principal*

Shri B. Baburaj *Alternate*

S&S Power Switchgear Ltd

Shri Kalyanasundaram S. *Principal*

Schneider Electric

Shri Sivakumaran *Principal*

Shri Devraj Manna *Alternate*

Siemens Ltd.

Ms Sujata Paranjape *Principal*

Shri Gopa Srinivas *Alternate*

Tata Power Company Ltd

Shri P.K. Jain *Principal*

Ms A.S. Desai *Alternate*

**COMPOSITION OF
ET 09 POWER CABLES**

Central Power Research Institute		Shri A.K. Verma	<i>Alternate</i>
Shri Rama Prasath S.	<i>Chairman</i>	Shri Shri M U Farooq	<i>Second</i>
<i>Alternate</i>			
Bureau of Indian Standards		Ministry of Defence	
Smt Manju Gupta	<i>Member Secretary</i>	Shri R.N. Sinha, SE	<i>Principal</i>
Brihan Mumbai Electric Supply &		Col. R.N. Ballaney	<i>Alternate</i>
Shri D.S. Khalap	<i>Principal</i>	Directorate General of Mines Safety	
Shri N.N. Samuel	<i>Alternate</i>	Shri R. Ramachandiran	<i>Principal</i>
Bharat Heavy Electricals Ltd.		Shri B. N. Mishra	<i>Alternate</i>
Shri R.S.V. Nageshwara	<i>Principal</i>	Directorate General of Supplies &	
Shri A.V. Nagabhushan	<i>Alternate</i>	Shri Singhal P/	<i>Principal</i>
Central Board of Irrigation & Power		Shri Saleem A.	<i>Alternate</i>
Shri S.C. Nakara	<i>Principal</i>	TamilNadu Electricity Board	
Shri S.S. Alag	<i>Alternate</i>	Superintending Engineer	<i>Principal</i>
Cable Corporation of India Ltd.		Executive Engineer/CDD	<i>Alternate</i>
Shri Dutta S.K.	<i>Principal</i>	Reliance Energy Ltd	
Shri Rao. E.J.	<i>Alternate</i>	Shri Aggarwal Ravi	<i>Alternate</i>
Central Electricity Authority		Electrical Research & Development	
Director (Substation)	<i>Principal</i>	Shri Pandya N.R	<i>Principal</i>
AD-1	<i>Alternate</i>	Shri Patel Shailesh	<i>Alternate</i>
CESC Limited		Fort Gloster Industries Ltd.	
Shri Saibal Kumar Ghosh	<i>Principal</i>	Shri Karan S.K.	<i>Alternate</i>
Shri Kirit Rana	<i>Alternate</i>	Finolex Cables Ltd.	
Coal India Ltd.		Shri Pundlik C.B.	<i>Principal</i>
Shri Rai T.	<i>Principal</i>	Shri Kumar Naresh	<i>Alternate</i>
Shri Roy S.K.	<i>Alternate</i>	IEEMA	
Central Power Research Institute		Shri Vijay P. Karia	<i>Principal</i>
Smt Meena K.P.	<i>Principal</i>	Smt J. Pande	<i>Alternate</i>
Smt Thirumurthy	<i>Alternate</i>	Jaipur Vidyut Vitaran Nigam Ltd	
Central Public Works Department		Shri Arjun Singh	<i>Principal</i>
Shri Mukesh Vij	<i>Principal</i>	Lapp India Pvt Ltd	
Shri S.K. Chawla	<i>Alternate</i>	Shri Kumar Krishna S.	<i>Alternate</i>
Development Commissioner Micro, Small			
Shri Shri R K Rai	<i>Principal</i>		

NICCO Corporation Ltd.

Shri Saha Debasis *Principal*

Shri Bhattacharya Asitabha *Alternate*

NTPC Ltd

Shri Deepak Trehan *Principal*

Shri A. Mandal *Alternate*

Paramount Cables

Shri Marwaha R.K. *Principal*

Power Grid Corporation of India Ltd.

Shri Sudhakar Gupta *Principal*

Shri Bhaskar D.A *Alternate*

Polycab Industries

Shri K.S. Pillai *Principal*

Shri Anil Kumar *Alternate*

Shri Pinaki Loha *Second Alternate*

Raychem RPG Pvt Ltd.

Shri Amit Bhatia *Principal*

Shri Himanshu Sharma *Alternate*

Shri R.S. Anekar *Second Alternate*

Shriram Institute for industrial Research

Dr. Kaicker P.K. *Principal*

Shri Jain Pankaj *Alternate*

Tata Consulting Engineers

Shri Brahme H.G *Principal*

Shri I.R.Patil *Alternate*

Tata Power Company Ltd

Shri P Murugan *Principal*

Shri R.K. Sheth *Alternate*

Universal Cables Ltd.

Shri Agrawal R.C. *Principal*

**COMPOSITION OF
ET 10 PRIMARY CELLS AND BATTERIES**

National Physical Laboratory		Nomination awaited	<i>Principal</i>
Dr. Bhatia Gopal	<i>Chairman</i>	Gillette India Ltd	
Bureau of Indian Standards		Nomination awaited	<i>Principal</i>
Shri D Goswami	<i>Member Secretary</i>	Ministry of Commerce	
Association of Indian Dry Cell		Shri Zakaria Khan Yusufzai	<i>Principal</i>
Shri S. Kumaraswami	<i>Principal</i>	Nippo Batteries Co. Ltd.	
BPL FTA Energies (P) Ltd		Shri T.V. Subba Rao	<i>Principal</i>
Shri N. Ezhil Arasan	<i>Principal</i>	Shri V. Madhusudhan Reddy	<i>Alternate</i>
Central Electrochemical Research Institute		National Physical Laboratory	
Dr. Ananth M.V.	<i>Principal</i>	Dr. R B Mathur	<i>Alternate</i>
Dr. Venkatakrishnan N.	<i>Alternate</i>	National Test House	
Consumer Education and Research Centre		Shri D.K. Karmakar	<i>Principal</i>
Ms Shweta Mahajan	<i>Principal</i>	Shri S.B. Nandkumar	<i>Alternate</i>
Ms Shveta Sheth	<i>Alternate</i>	Panasonic Energy India Company Ltd.	
Ministry of Defence		Shri C.D. Mistry	<i>Principal</i>
Dr. Ram Verma	<i>Principal</i>	Shri R.J. Bhambhani	<i>Alternate</i>
Shri K. S. Yadav	<i>Alternate</i>	Voluntary Organisation in Interest of	
Directorate General of Supplies &		Shri H. Wadhwa	<i>Alternate</i>
DDQA	<i>Principal</i>	Shri Ashim Sanyal	<i>Second</i>
<i>Alternate</i>			
Shri Seneet Kumar	<i>Alternate</i>		
Electrical Research & Development			
Shri Satish S. Chetwani	<i>Principal</i>		
Shri Nailesh S. Kadia	<i>Alternate</i>		
Electronics Regional and Test Laboratory			
Shri Shri J P Vatsa	<i>Principal</i>		
Ms Poonam Singh	<i>Alternate</i>		
Euro Solo Energy Systems Ltd.			
Shri Shri C. Satyanarayana	<i>Principal</i>		
Shri Nikhil Chedda	<i>Alternate</i>		
Eveready Industries India Ltd.			
Dr. G. Roop Kumar	<i>Principal</i>		
Shri Vivek Kulkarni	<i>Alternate</i>		
Geep Batteries (I) Ltd.			

**COMPOSITION OF
ET 11 SECONDARY CELLS AND BATTERIES**

NTPC Ltd,		Directorate General of Mines Safety	
Shri Abhijit Sen,	<i>Chairman</i>	Shri R. Ramachandiran	<i>Principal</i>
Bureau of Indian Standards		Shri B.N. Mishra	<i>Alternate</i>
Shri Sumit Sengar	<i>Member Secretary</i>	Directorate General of Supplies &	
AMCO Batteries Limited		Shri P. Singhal	<i>Principal</i>
Shri S. Sankara Pandian	<i>Principal</i>	Shri Sanjeet Kumar	<i>Alternate</i>
Shri N. S. Pandurang	<i>Alternate</i>	DIT	
Amar Raja Batteries Ltd.		Sh. Arun Sachdeva	<i>Principal</i>
Shri C. Niranjan Kumar	<i>Principal</i>	Ms. Asha Nangia	<i>Alternate</i>
Shri Jasmeet Singh	<i>Alternate</i>	Department of Telecommunications	
Sh. Ramesh Banu C. B.	<i>Second Alternate</i>	Shri Jain K.K.	<i>Principal</i>
Bharat Battery Mfg. Co. Pvt. Ltd.		Shri Bhatia K.L.	<i>Alternate</i>
Shri Saha S.P.	<i>Principal</i>	Directorate of Tech. Dev. & Prod. (AIR)	
Shri Goswami B.K.	<i>Alternate</i>	WGCD Sharma S.B.	<i>Principal</i>
Central Electricity Authority		Shri C.V. Bhaskara	<i>Alternate</i>
Director (Substation)	<i>Principal</i>	Exide Industries Ltd.	
Dy Director (Substation)	<i>Alternate</i>	Dr. D. Sen Choudhury	<i>Principal</i>
Central Electrochemical Research Institute		Shri J. Sengupta	<i>Alternate</i>
Smt. Dr. N. Kalaiselvi	<i>Principal</i>	Shri A.D. Kang	<i>Second</i>
<i>Alternate</i>		HBL Power Systems Limited	
Dr. A. Manuel Stephan	<i>Alternate</i>	Shri Avnish Arora	<i>Principal</i>
Central Institute of Road Transport		Shri M. Raghavendra Readdy	<i>Alternate</i>
Shri Saste D.P.	<i>Principal</i>	High Energy Battereis (India) Limited	
Shri V. P. Godbole	<i>Alternate</i>	Dr. G.A. Pathanjali	<i>Principal</i>
Central Public Works Department		Shri J. Srirengarajan	<i>Alternate</i>
Shri P.K. Garg	<i>Principal</i>	Indian Cellular Association	
Shri M.K. Verma	<i>Alternate</i>	Shri Pankaj Mohindroo	<i>Principal</i>
Development Commissioner Micro, Small		Shri Ambrish Bakaya	<i>Alternate</i>
Shri R. K. Rai	<i>Principal</i>	Kirloskar Batteries Pvt. Ltd.	
Shri A.K. Verma	<i>Alternate</i>	Shri Sreedhara S.V.	<i>Principal</i>
Shri M U Farooq	<i>Second Alternate</i>	Shri B.S.Shrinivasan Rao	<i>Alternate</i>
Ministry of Defence			
Sh. Pyare Lal,	<i>Principal</i>		
Shri K. S. Yadav	<i>Alternate</i>		

Ministry of New & Renewable Energy

Dr. Pradeep Chandra Pant *Principal*

Shri Prabir Kumar Dash *Alternate*

Nuclear Power Corporation of India Ltd

Shri Roy S.K. *Principal*

Shri Jeorge Sebastian *Alternate*

National Test House

Shri D.K. Karmakar *Principal*

Shri S. Sinha *Alternate*

NTPC Ltd

Shri S. Samanta *Alternate*

Power Grid Corporation of India Ltd.

Shri Prasad Sai *Principal*

Telecom Engineering Centre

Shri Ram Krishna *Principal*

Smt. Laxmi *Alternate*

Tata Power Company Ltd

Shri D.S. Kudalkar *Principal*

Shri Ajay Desai *Alternate*

**COMPOSITION OF
ET 12 MEASURING EQUIPMENT FOR BASIC
ELECTRICAL QUANTITIES**

National Physical Laboratory

Shri Anil Saxena *Chairman*

Bureau of Indian Standards

Smt Manju Gupta *Member Secretary*

Automatic Electric Ltd.

Shri U.P. Tandel *Principal*

Shri Tandel U.P. *Alternate*

Shri Tendulkar D.H. *Alternate*

All India Instruments Mfrs & Dealers

Shri Goliya P.C. *Principal*

BSES Rajdhani Power Ltd.

Shri Subha Rao P.V. *Principal*

Shri Bhirud S.G. *Alternate*

Central Electricity Authority

Shri T.K. Saha *Principal*

Shri C.K. Kesana *Alternate*

CESC Limited

Shri Santanu Bhattacharya *Principal*

Shri Nilanjan Saha *Alternate*

Shri Siddhartha Mukherjee *Alternate*

Central Scientific Instruments

Dr Jaiswal V.K. *Principal*

Shri Pathania D.S. *Alternate*

Ministry of Defence

Brig M N Davaya *Principal*

Shri Manoj Kumar *Alternate*

Department of Industrial Policy &

Shri Jain S.K. *Principal*

Engineers India Ltd.

Shri N. Sethi *Principal*

Shri Arun Kumar *Alternate*

Elster Metering Private Ltd

Shri Prashant C. Karnik *Principal*

Shri Kanitkar A.P. *Alternate*

Electrical Research & Development

Smt. Padma Kumar *Principal*

Smt. G.V. Brahmhatt *Alternate*

Electronics Regional and Test Laboratory

Nomination Awaited *Principal*

Shri H.K.Mishra *Alternate*

Instrument Designs Development &

Nomination Awaited *Principal*

Institute for Design of Elec. Meas.

Shri Gujrathi Pradeep *Principal*

Larsen & Toubro Ltd

Shri Prabhakar C. *Principal*

Shri Shri Gupta R.K. *Alternate*

Meco Instruments Pvt. Ltd.

Shri Premchand Goliya *Principal*

Shri Goliya Kamal P. *Alternate*

North Delhi Power Ltd.

Nomination Awaited *Principal*

National Physical Laboratory

Dr. Dhake S.L. *Principal*

Dr. Kothari P.C. *Alternate*

National Test House

Shri A. Das *Principal*

Shri S.K. Menon *Alternate*

The Oriental Science Apparatus Workshops

Nomination Awaited *Principal*

Research Design & Standards Organisation

Nomination Awaited *Principal*

Rishab Instruments Pvt Ltd

Shri Danawale Sunil *Principal*

Shanti Electric Instruments

Shri Narendra Goliya *Principal*

Shri Mahesh P. Churi *Alternate*

Sharmasons Sakova Instruments Pvt. Ltd.

Shri Satish Sharma *Principal*

Shri Sharma Manish *Alternate*

**COMPOSITION OF
ET 13 EQUIPMENT FOR ELECTRICAL ENERGY
MEASUREMENT AND LOAD CONTROL**

Central Power Research Institute		Shri Santosh N. Katakwar	<i>Principal</i>
Shri N. Mugugesan	<i>Chairman</i>	Elster Metering Private Ltd	
Bureau of Indian Standards		Shri Prashant Karnik	<i>Principal</i>
Smt Gupta Manju	<i>Member Secretary</i>	Shri Deepak Naik	<i>Alternate</i>
Bureau of Energy Efficiency		Elymer International Pvt. Ltd	
Shri G. Pandian	<i>Principal</i>	Shri Jagmohan Jogishwar	<i>Principal</i>
Brihan Mumbai Electric Supply &		Electrical Research & Development	
Shri N.V. Bhandari	<i>Principal</i>	Shri K.T. Patel	<i>Principal</i>
Shri Sakpal S.M.	<i>Alternate</i>	Shri U.C. Trivedi	<i>Alternate</i>
Bharat Heavy Electricals Ltd.		Shri Vinod Gupta	<i>Second</i>
<i>Alternate</i>		Expert	
Shri G. N. Jagadesh Pradas	<i>Principal</i>	Shri Biswas Subrata	<i>Principal</i>
Shri M. Balasubramanian	<i>Alternate</i>	Genus Overseas Electronics Ltd.	
BSES Rajdhani Power Ltd.		Shri R.S. Rathore	<i>Principal</i>
Shri Bansal Rajesh	<i>Principal</i>	Shri Mayak Jain	<i>Alternate</i>
Shri Gitay Raj	<i>Alternate</i>	Genus Power Infrastructures Ltd	
Central Board of Irrigation & Power		Shri Vinod Tiwari	<i>Principal</i>
Shri K.P. Singh	<i>Principal</i>	HPL-Electric and Power Pvt Ltd	
Shri S.K. Batra	<i>Alternate</i>	Shri Jain C.P.	<i>Principal</i>
Central Electricity Authority		Shri Tandon Sundeep	<i>Alternate</i>
Shri Alok Gupta	<i>Principal</i>	Shri Rajesh Banthia	<i>Second</i>
Shri Vivek Goyal	<i>Alternate</i>	IEEMA	
<i>Alternate</i>		Shri Sunil Singhvi	<i>Principal</i>
CESC Limited		Smt Gupta Anita	<i>Alternate</i>
Shri Udayan Ganguly	<i>Principal</i>	Jaipur Vidyut Vitaran Nigam Ltd	
Shri Santosh Chattopadhyay	<i>Alternate</i>	Shri Arjun Singh	<i>Principal</i>
Central Power Research Institute		Kalki Communications Technologies Ltd	
Shri Sawale B.A.	<i>Principal</i>	Shri Vinoo S Warriar	<i>Principal</i>
Shri H.R. Manjunath	<i>Alternate</i>	Shri Balagopalan Mathoor	<i>Alternate</i>
Shri Jagdish	<i>Second Alternate</i>	Larsen & Toubro Ltd	
Development Commissioner Micro, Small		Shri R.M. Bhakta	<i>Principal</i>
Shri Shri R K Rai	<i>Principal</i>	Shri Ahuja Sanjay	<i>Alternate</i>
Shri A.K. Verma	<i>Alternate</i>		
Maharashtra State Transco Ltd			

Landis & Gyr.Ltd.Shri Pradip Ranjan Dutt *Principal*Shri Dubey R. *Alternate*Shri Srivastava Anand *Alternate***North Delhi Power Ltd.**Shri R.K. Singh *Principal***National Physical Laboratory**Shri Mittal M.K. *Principal*Shri Biswas J.C. *Alternate***NTPC Ltd**Smt M.S. Radha *Principal*Shri Himanshu Shekhar *Alternate***Power Grid Corporation of India Ltd.**Shri V. Mittal *Principal*Ms Punam *Alternate***PRAYAS**Shri Sreekumar N. *Principal*Shri Girish Sant *Alternate***Rural Electification Corporation Ltd.**Shri Dinesh Kumar *Principal*Shri P.S. Hariharan *Alternate***Schindler India Pvt Ltd.**Shri Vishal Basotra *Principal***Secure Meters Ltd.**Shri Kaushik Ghosh *Principal*Shri Jhalora Surendra *Alternate*Shri Singhvi S.K. (SML) *Second Alternate***The Tata Power Co Ltd,**Shri S.C. Dhapre *Principal*Shri S.G. Joshi *Alternate***Voluntary Organisation in Interest of**Shri H. Wadhwa *Principal*Shri K.C. Chaudhary *Alternate***Yadav Measurements Pvt Ltd**Shri Vyas B.M. *Principal*

Shri Bhati N.K.

Alternate

**COMPOSITION OF
ET 14 ELECTRICAL WIRING ACCESSORIES**

Central Public Works Department		Dr. Ram Verma,	<i>Alternate</i>
Shri A.K. Jain	<i>Chairman</i>	Directorate General of Supplies &	
Bureau of Indian Standards		Shri Mishra P.K.	<i>Principal</i>
Shri D Goswami	<i>Member Secretary</i>	Shri Pandey R.S	<i>Alternate</i>
All India Plastic Manufacturers		Directorate of Industries & Commerce (TN)	
Shri Manoj Gada	<i>Principal</i>	Shri N. Parthasarathy	<i>Principal</i>
Shri Rajesh Jaggi	<i>Alternate</i>	Shri K. Venkaeswer	<i>Alternate</i>
Anchor Electronics & Electricals Pvt. Ltd.		Electrical Contractors Association of	
Shri Tetsuyasu Kawamoto	<i>Principal</i>	Shri Kamlesh Shah	<i>Principal</i>
Shri Yogesh Sonawane	<i>Alternate</i>	Shri Pradeep Shah	<i>Alternate</i>
Shri Himanshu Sharma	<i>Second Alternate</i>	Shri Satish Y. Kazi	<i>Second</i>
<i>Alternate</i>		Electric Lamp & Component Mfrs. Assn of	
Central Electricity Authority		Shri Shyam Sujan	<i>Principal</i>
Shri Alok Gupta	<i>Principal</i>	Electrical Research & Development	
Shri R K Verma	<i>Alternate</i>	Dr. S.H. Chetwani	<i>Principal</i>
Consumer Education and Research Centre		Dr. M. K. Shah	<i>Alternate</i>
Shri S.N. Desai	<i>Principal</i>	Shri Nailesh S. Kadia	<i>Second</i>
Smt Shweta Mahajan	<i>Alternate</i>		
<i>Alternate</i>		Fine Switchgears, Phagwara	
Smt Shveta Seth	<i>Second Alternate</i>	Shri Sethi Mohinder	<i>Principal</i>
Consumer Guidance Society of India		Shri Sethi Ashok	<i>Alternate</i>
Shri Anil K. Dhumak	<i>Principal</i>	Honeywell Electrical Devices and Systems	
Central Public Works Department		Shri Ravinder Pal Verma	<i>Principal</i>
Shri Suri A.C	<i>Principal</i>	Shri Sadananand Teje	<i>Alternate</i>
Shri Verma M.K.	<i>Alternate</i>	IEEMA	
Development Commissioner Micro, Small		Shri J Pande	<i>Principal</i>
Shri Rai R K	<i>Principal</i>	Kinjal Electricals Pvt Ltd	
Shri A.K. Verma	<i>Alternate</i>	Shri Jain R.K.	<i>Principal</i>
Shri M U Farooq	<i>Second Alternate</i>	Shri Jain Praveen K.	<i>Alternate</i>
Delhi Electrical Accessories BIS Licensees		Legrand (India) Pvt Ltd.	
Shri Khera Adarsh	<i>Principal</i>	Shri V S Mainker	<i>Principal</i>
Shri Mange Ram Gupta	<i>Alternate</i>	Shri V A Tilekar	<i>Alternate</i>
Shri Ajit Singh	<i>Second Alternate</i>	Shri S Deotalu	<i>Second</i>
Ministry of Defence			
<i>Alternate</i>			
Brig Girish Joshi	<i>Principal</i>		

North-West Switchgear Ltd

Shri Arora P.K. *Principal*

Shri Sundeep Kumar *Alternate*

National Test House

Shri D.G Basumatary *Principal*

Shri P. Somu *Alternate*

Shri Anil K. Pandey *Second Alternate*

M/s Pierlite India Pvt. Ltd

Shri Rakesh Kashliwal *Principal*

Ms Shah Renu *Alternate*

Public Works Department, Maharashtra

Shri V. T. Valekar *Principal*

Shri T.P. Nayak *Alternate*

Shri Hemant M Sali *Second Alternate*

Rex Polyextrusionsi

Shri Sanjay B. Dandekar *Principal*

Shri Chandrashekhar. *Alternate*

Schneider Electric

Shri P V Jaison *Principal*

Shri Gurveen Singh Sachdev *Alternate*

Voluntary Organisation in Interest of

Shri K C Chaudhary *Principal*

Western Electrical Accessories

Shri Ashok V. Maru *Principal*

Shri Kishore K Nandu *Alternate*

Shri Niranjana Kamani *Second Alternate*

**COMPOSITION OF
ET 15 ROTATING MACHINERY**

Bharat Heavy Electricals Ltd.		Shri Rai R K	<i>Principal</i>
Shri Sukul Lomash,	<i>Chairman</i>	Shri A.K. Verma	<i>Alternate</i>
Bureau of Indian Standards		Shri M U Farooq	<i>Second</i>
<i>Alternate</i>			
Shri D Goswami	<i>Member Secretary</i>		
ABB Ltd.		Ministry of Defence	
Shri Balasubramaniam R.	<i>Principal</i>	Shri Bhola Singh, CE	<i>Principal</i>
Shri Sarkar S.	<i>Alternate</i>	Shri A. K. Sharma, ACE	<i>Alternate</i>
All India Electrical Moter Association		Directorate General of Supplies &	
Shri Sanjay P. Jadia	<i>Principal</i>	Shri R.S. Pandey	<i>Principal</i>
Bureau of Energy Efficiency		Shri Akhilesh Kumar	<i>Alternate</i>
Dr. Ajay Mahur	<i>Principal</i>	Electronics and Quality Development	
Shri Sandeep Garg	<i>Alternate</i>	Shri L. S. Sharma	<i>Principal</i>
Bharart Bijlee Ltd.		Electrical Research & Development	
Shri Anklesaria T.M.	<i>Principal</i>	Shri S.H. Chetwani	<i>Principal</i>
Shri Dhengle Y. A.	<i>Alternate</i>	Dr. Shah M.K.	<i>Alternate</i>
Bharat Heavy Electricals Ltd.		Representative of ET 33	
Shri A.K. Varshney	<i>Principal</i>	Shri Gokhale Shirish	<i>Principal</i>
Shri Nisheeth khare	<i>Alternate</i>	Representative of HMD 20	
Shri Babu Sonwane	<i>Second Alternate</i>	Shri Gowrisankar J.	<i>Principal</i>
Central Board of Irrigation & Power		Shri Deshpande S.D.	<i>Alternate</i>
<i>Alternate</i>		Shri Bhootra K.C.	<i>Second</i>
Shri V.K. Kanjalia	<i>Principal</i>	International Copper Association Ltd	
Shri P.P. Wahi	<i>Alternate</i>	Shri Milind Raje	<i>Principal</i>
Central Electricity Authority		Shri Mayur S. Karmarkar	<i>Alternate</i>
Shri Sanjay Srivastava	<i>Principal</i>	IEEMA	
Shri Moti Lal	<i>Alternate</i>	Shri Krishnakumar	<i>Principal</i>
Chief Electrical Inspectorate (Tamil Nadu)		Smt Anita Gupta	<i>Alternate</i>
Shri N. Thiruvazhi Marpha	<i>Principal</i>	Indian Institute of Science, Bangalore	
Shri Ramakrishnan	<i>Alternate</i>	Nomination awaited	<i>Principal</i>
Consumer Education and Research Centre		Indian Institute of Technology (Delhi)	
Smt. Shweta Mahajan	<i>Principal</i>	Prof S.S. Murthy	<i>Principal</i>
Crompton Greaves Ltd.		Indian Pump Manufacturers' Association	
Shri Dileep Bhawe	<i>Principal</i>	Shri Abhyankar S.L.	<i>Alternate</i>
Development Commissioner Micro, Small			

Jyoti LtdShri A.M. Parekh *Principal*Shri A.S. Patel *Alternate***Kirloskar Electric Company Ltd.**nomination awaited *Principal*Shri Desai D.A. *Alternate***KSB Pumps Ltd.**Shri D.S. Khanna *Principal*Shri S.C. Patil *Alternate***Marathon Electric Motors (India) Ltd**Shri Subrata Biswas *Principal*Shri Rajiv Ranjan *Alternate***M.N.Dastur & Co.(P) Ltd.**Shri S.V. Varadarajan *Principal*Shri S. Sampath *Alternate***Nuclear Power Corporation of India Ltd**Shri Pandariganthan S. *Principal*Shri N. Sankaranarayanan *Alternate***National Test House**Shri K.N. Misra *Principal*Shri K. Mohanan *Alternate***NTPC Ltd**Shri D. K. Chaturvedi *Principal***Steel Authority of India Ltd.**Shri Gautam Sen *Principal*Shri Bharat Bhushan *Alternate***South India Engineering Mfrs. Association**Shri G. Rajendran *Principal*Shri S. Murugesan *Alternate*Prof R. Subramanian *Second Alternate***Siemens Ltd.**Shri R. Gopalakrishnan *Principal*Shri Hitesh Vakil *Alternate*Shri Ravindra Bahalerao *Second Alternate***Small Industries' Testing and Research**Shri K. Gunabal *Principal*Shri A M Selvaraj *Alternate***SJVN**Shri R.P. Singh *Principal*Shri R.K. Bansal *Alternate***Tata Consulting Engineers**Shri S.V.S. Prasad *Principal*Shri A. Singaiah *Alternate*

**COMPOSITION OF
ET 16 TRANSFORMERS**

Central Power Research Institute

Shri B.V. Raghavaiah *Chairman*

Bureau of Indian Standards

Shri D Goswami *Member Secretary*

Areva T&D India Ltd (ALSTOM)

Shri M. Vijaykumaran *Principal*

Bureau of Energy Efficiency

Shri Sandeep Garg *Principal*

Shri Alvin Jose *Alternate*

Brihan Mumbai Electric Supply &

Alternate

Shri S.D. Pawar *Principal*

Shri S.N. Pawar *Alternate*

Alternate

Bharat Heavy Electricals Ltd.

Shri S.C. Bhageria *Alternate*

Shri J. S. Kuntia *Second Alternate*

Central Board of Irrigation & Power

Shri P.P. Wahi *Principal*

Shri Vishan Dutt *Alternate*

Central Electricity Authority

Director (Substation) *Principal*

CESC Limited

Shri S. Bhattacharya. *Principal*

Shri Sanjay kar Chowdhury *Alternate*

Crompton Greaves Ltd.

Shri A.B. Bhatia *Principal*

Shri Manish Yadav *Alternate*

Shri Vikrant Joshi *Second Alternate*

Coal India Ltd.

Shri H.K.Chakaborty *Principal*

Shri S.K.Roy *Alternate*

Central Power Research Institute

Shri M.k. Wadhvani *Principal*

Shri S. Sudhakar Reddy *Alternate*

Central Public Works Department

Shri Mohan Swaroop *Principal*

Shri Garg P.K. *Alternate*

CTR Manufacturing Industries Ltd.

Shri S.A. Rajan *Principal*

Shri B.D. Raut *Alternate*

Development Commissioner Micro, Small

Shri R K Rai *Principal*

Shri A.K. Verma *Alternate*

Shri M U Farook *Second*

Directorate General of Supplies &

Shri P. Singhal *Second*

Shri A. Saleem *Chairman*

Himachal Pradesh State Electricity Board

Shri M.K. Bhatia *Principal*

Punjab State Electricity Board

Director, Design Sub Station *Principal*

Chief Purchase Officer *Alternate*

Uttar Pradesh Power Transmission Corpn

Shri R.S. Agrawal *Principal*

Shri K.N. Srivastava *Alternate*

EMCO Ltd.

Shri R.C. Agarwal *Principal*

Shri R.S. Shah *Alternate*

Reliance Energy Ltd

Shri Satish Sabharwal *Principal*

Shri Chakravarti K.K. *Alternate*

Electrical Research & Development

Shri R.B. Desai *Principal*

Shri U.C. Trivedi *Alternate*

International Copper Association Ltd

Shri Mayur S. Karmarkar *Principal*

IEEMA

Shri H.K. Kulshrestha *Principal*

Ms Anita Gupta *Alternate*

Jaipur Vidyut Vitaran Nigam Ltd

Shri Arjun Singh *Principal*

Nuclear Power Corporation of India Ltd

Shri K. Jagannath *Principal*

Shri ANJANEYULU B. *Alternate*

NTPC Ltd

Shri Dinkar Devate *Principal*

Shri Gupta H. *Alternate*

Power Grid Corporation of India Ltd.

Shri Goswami M.M. *Principal*

Shri Aggarwal Sudhir *Alternate*

Research Design & Standards Organisation

Joint Director(Stds)Elect-6 *Principal*

Joint Director Trac. Instl.-1 *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Hariharan *Alternate*

Siemens Ltd.

Shri V M Varkey *Principal*

Shri C Jayasenan *Alternate*

The Tata Power Co Ltd,

Shri M.V. Kini *Principal*

Shri P.K. Jain *Alternate*

Transformers and Electricals Kerala

Shri Oommen P. Joshua *Principal*

Shri Reji John K. *Alternate*

Delhi TRANSCO

Shri Raj Bhartiya *Principal*

Shri Ved Mitra *Alternate*

Vijai Electricals Ltd.

Shri V.K. Lakhiani *Principal*

Shri T. K. Ganguli *Alternate*

**COMPOSITION OF
ET 18 INDUSTRIAL PROCESS MEASUREMENT AND
CONTROL**

Engineers India Ltd		Shri Arora Kishore	<i>Alternate</i>
Shri Mahajan P.	<i>Chairman</i>	Shri Srinivasan K.S.	<i>Second</i>
<i>Alternate</i>			
Bureau of Indian Standards		Institute for Design of Elec. Meas.	
Smt Haque Nishat S.	<i>Member Secretary</i>	Shri Rasal S.V.	<i>Principal</i>
ABB Ltd.		Shri Khaladkar S.G.	<i>Alternate</i>
Shri Ravishnkar T.R.	<i>Principal</i>	IEEMA	
Shri Gupta Rohit	<i>Alternate</i>	Shri Pande J.	<i>Principal</i>
Bureau of Energy Efficiency		Smt Gupta Anita	<i>Alternate</i>
Shri Sabharwal Satish	<i>Principal</i>	Instrumentation Ltd.	
Bharat Heavy Electricals Ltd.		Shri Gupta S.C.	<i>Principal</i>
Shri C. Ananda	<i>Principal</i>	M.N.Dastur & Co.(P) Ltd.	
Shri Prakash Khadilkar	<i>Alternate</i>	Shri Sengupta Amitava	<i>Principal</i>
Shri S. Somasundaram	<i>Second Alternate</i>	Shri Das Proloy	<i>Alternate</i>
Central Scientific Instruments		NTPC Ltd	
Shri Goel D.P.	<i>Principal</i>	Shri Sen Abhijit	<i>Principal</i>
Shri Malhotra J.M.	<i>Alternate</i>	Shri Pant Manoj	<i>Alternate</i>
Department of Electronics		Oil & Natural Gas Commission	
Shri Kumar Jatinder	<i>Principal</i>	Shri C.R. Raju	<i>Principal</i>
Electronics Corporation of India Ltd.		Shri J.R. Martin	<i>Alternate</i>
Shri Prabhakara Rao R.V.	<i>Principal</i>	Reliance Industries Ltd.	
Shri Suryanarayana V.V.	<i>Alternate</i>	Shri Bhattacharya Ranjan	<i>Principal</i>
Engineers India Ltd.		Shri Vora Keyur.G	<i>Alternate</i>
Shri S R Bhatnagar	<i>Principal</i>	Shri Anchalkar Umesh R.	<i>Second</i>
<i>Alternate</i>			
Ms R. Priyamvada	<i>Principal</i>	Steel Authority of India Ltd.	
MS Rajiv Gupta	<i>Alternate</i>	Shri Karmoker T.	<i>Principal</i>
ELICO Limited		Shri A.V.Roy	<i>Alternate</i>
Shri Shivarao T.V.	<i>Principal</i>	Siemens Ltd.	
Fluid Control Research Institute		Shri Sameer Prakash	<i>Principal</i>
Shri Suresh M.	<i>Principal</i>	Shri Anil Nayak	<i>Alternate</i>
Dr Viswanathan M.	<i>Alternate</i>	Vijayesh Instruments Pvt. Ltd.	
Forbes Marshall Ltd		Shri Vishwas Kale	<i>Principal</i>
Shri Iyer Ramani	<i>Principal</i>		

**COMPOSITION OF
ET 19 HIGH VOLTAGE ENGINEERING**

Central Power Research Institute

Shri Gunasekaran B. *Chairman*

Bureau of Indian Standards

Smt Manju Gupta *Member Secretary*

ABB Ltd.

Dr. Jashavant Patel *Principal*

Shri Shendre Yogesh *Alternate*

Bharat Heavy Electricals Ltd.

Shri Tiwari R.K., *Principal*

Shri R.N. Parmar *Alternate*

Dr. A Pradeep *Second Alternate*

Central Board of Irrigation & Power

Shri G.N. Mathur *Principal*

Shri P.P. Wahi *Alternate*

Central Electricity Authority

Shri Dir (Substation) *Principal*

Shri Dy. Dir (Substation) *Alternate*

CESC Limited

Shri Shri Sukanta Basu *Principal*

Shri Sujit Kumar Pathak *Alternate*

Crompton Greaves Ltd.

Shri Govindan T.P. *Principal*

Central Power Research Institute

Dr Devendranath *Principal*

Dr. N. Vasudev *Alternate*

Dr. H.N. Nagamani *Second Alternate*

Electrical Research & Development

Shri U.C.Trivedi *Principal*

Shri A.S. Khopkar *Alternate*

IEEMA

Shri J. Pande *Principal*

Indian Institute of Science, Bangalore

Dr. L.Satish *Principal*

Larsen & Toubro Ltd

Shri D. Chatterjee *Principal*

Shri R.S. Mahajan *Principal*

Nuclear Power Corporation of India Ltd

Shri N. Sankaranarayan *Principal*

Shri V. H. Manohar *Alternate*

NTPC Ltd

Shri Venkadeswaran S. *Principal*

Power Grid Corporation of India Ltd.

Shri R.K.Sarkar *Principal*

Dr. Subir Sen *Alternate*

Siemens Ltd.

Shri Ashish Dua *Principal*

Shri J P Singh *Alternate*

The Tata Power Co Ltd,

Shri A. Mukherji *Principal*

Shri T. Murlikrishna *Alternate*

Tata Consulting Engineers

Shri K.G. Krishnamurthy *Principal*

Shri G.S.Tahiallney *Alternate*

Transformers and Electricals Kerala

Shri Oommen P. Joshua *Principal*

Shri Reji John K. *Alternate*

**COMPOSITION OF
ET 20 ELECTRICAL INSTALLATIONS**

In Personal Capacity

Shri Nagarajan N. *Chairman*

Bureau of Indian Standards

Smt Haque Nishat S. *Member Secretary*

American Bureau of Shipping

Shri S C Aneja *Member Secretary*

Shri Ashok R. *Principal*

Areva Transmission and Distribution

Shri Saha Biswajit *Principal*

Brihan Mumbai Electric Supply &

Shri R.J. Singh *Principal*

Shri A.S. Sewakhande *Alternate*

Central Electricity Authority

Shri R K Verma *Principal*

Shri M S Sondhi *Alternate*

Chief Electrical Inspectorate (Kerala)

Er. K.K. Unni *Principal*

Er. Premachandra Vhas. *Alternate*

Chief Electrical Inspectorate (Madhya

Shri Mujalde S.S. *Principal*

Shri Dubey A.K. *Alternate*

Chief Electrical Inspectorate (Orissa)

Shri G.C. Choudhury *Principal*

Er Sk Habibur Rehman *Alternate*

Chief Electrical Inspectorate (Tamil Nadu)

Alternate

Shri N. Thiruvanzhi *Principal*

Shri Thiru.S. Appavoo, BE *Alternate*

Chief Electrical Inspectorate (Uttaranchal)

Shri Kumar Anupam *Principal*

Shri Chand Girish *Alternate*

Central Labour Institute

Shri H Vishvanathan *Principal*

Shri B.L. Bairwa *Alternate*

Central Public Works Department

Shri V. K. Mittal *Principal*

Shri Chopra S. *Alternate*

Development Consultant Limited

Shri Pradeep Banerjee *Principal*

Shri Das Ranjit K. *Alternate*

Ministry of Defence

Brig Girish Joshi *Principal*

Dr Ram Verma *Alternate*

Dte of Quality Assurance (WP)

Lt Cdr Pande P.K. *Alternate*

Department of Telecommunications

Shri Pradeep Nettur *Principal*

Shri Yadav J.S. *Alternate*

Gujarat Electricity Board

Shri Dave K.M. *Alternate*

Madhya Gujarat Vij Company Ltd

Shri Gandhi R.O. *Principal*

Tamil Nadu Electricity Board

Superintending Engineer *Principal*

Executive Engineer *Alternate*

Electrical Contractors Association of

Shri Kamlesh Shah *Principal*

Shri Pradeep Shah *Alternate*

Shri Satish Y. Kazi *Second*

Electrical Contractors Installation

Shri Venkataswamy A.K. *Principal*

Shri Bhikkaji T.M. *Alternate*

Engineers India Ltd.

Shri Singh J.M. *Principal*

Shri Niraj Sethi *Alternate*

Garden Reach Shipbuilders & EngineersCdr. Soumitra Bhaduri *Principal*Cdr. T.K. Guha Roy *Alternate***Hindustan Shipyard Ltd.**Shri Sastri D.S. *Principal***IEEMA***Alternate*Shri Sarkar A. *Principal*Smt Gupta Anita *Alternate***Jaipur Vidyut Vitaran Nigam Ltd**Shri Arjun Singh *Principal***Larsen & Toubro Ltd**Shri Rajavel S. *Principal*Shri Maheswaran D. *Alternate***Mazagon Dock Limited**Shri S.K. Malavade *Principal*Shri Mishra V.K. *Principal*Shri Ramamurthy K *Alternate***Metallurgical & Engineering Consultants**Shri Mishra G. *Principal***Nuclear Power Corporation of India Ltd**Shri S. Pandari Ganthan *Principal*Shri S. Ghosh *Alternate***NTPC Ltd**Shri Deepak Trehan *Principal*Shri P. K. Basu *Alternate***Oil & Natural Gas Commission**Shri Verma A.N. *Principal*Shri Hazra U.S. *Alternate***Rural Electification Corporation Ltd.**Shri Kumar Dinesh *Principal*Shri Hariharan P.S. *Alternate***Reliance Energy Ltd.**Shri D. Guha *Principal*Shri Dastidar Shantanu *Alternate***Shipping Corporation of India Ltd.**Shri Bodkhey *Principal*Shri Takpere N.Y. *Alternate***Siemens Ltd.**Shri R. Phatak *Principal*Shri K Gurumurthy *Alternate*Shri Saikat Majumder *Second***Tariff Advisory Committee**Shri Bhuskute M.M. *Principal*Shri Chowdhury P.K. Roy *Alternate***Tata Consulting Engineers**Shri Muthana Murli *Principal*Shri Priyadarshi Utpal *Alternate*

**COMPOSITION OF
ET 21 ELECTRIC WELDING EQUIPMENT**

Bharat Heavy Electricals Ltd.

Dr S. Manoharan *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

Bharat Heavy Electricals Ltd.

Shri V.R. Samuel *Principal*

Ministry of Defence

Shri R.B. Singh *Principal*

Dr Ram Verma *Alternate*

Directorate General of Supplies &

Shri Akhilesh Kumar *Principal*

Shri A.K.Rai *Alternate*

Directorate of Small Scale Industries,

Nomination Awaited *Principal*

Esab India Ltd.

Shri S.K. Palit *Principal*

Heavy Vehicles factory

Shri Palanivela M. *Principal*

Jessop & Co. Ltd.

Shri Goutam Chatterjee *Principal*

Larsen & Toubro Ltd

Shri K.G. Padalkar *Principal*

Shri Mahesh Joshi *Alternate*

Mazagon Dock Limited

Shri Kulkarni V.M. *Principal*

Shri Kashikar P.R. *Alternate*

Ordnance Factory Project

Shri Ahmed Q. *Principal*

Shri Naidu V.N.R., *Alternate*

Roorkee University

Nomination awaited *Principal*

Steel Authority of India Ltd.

Shri B.S. Sahu *Principal*

Shri S.K.Banerjee *Alternate*

Sur Iron & Steel Co.

Shri J.K. Sur *Principal*

Shri A.K. Ray *Alternate*

Tata Engineering And Locomotive

Shri Narayan *Principal*

Shri Dutta Roy A.K. *Alternate*

Tata Motors Ltd.

Shri Narayan *Principal*

Shri Dutta Roy A. *Alternate*

Welding Research Institute

Shri Manoharan S. *Principal*

**COMPOSITION OF
ET 22 ELECTRICAL APPARATUS FOR EXPLOSIVE
ATMOSPHERES**

Engineers India Ltd		Ministry of Defence	
Shri Sharma V.P.	<i>Chairman</i>	Sh. R.N Sinha	<i>Principal</i>
Bureau of Indian Standards		Shri Y. K Gaur	<i>Alternate</i>
Smt Haque Nishat S.	<i>Member Secretary</i>	DG Factory Advisory Services & Labour	
Baliga Lighting Equipment Pvt. Ltd.		Shri V.B. Sant	<i>Principal</i>
Shri Baliga B.R.	<i>Principal</i>	Shri S.C. Sharma	<i>Alternate</i>
Shri Baliga B.S.	<i>Alternate</i>	Directorate General of Mines Safety	
Bharart Bijlee Ltd.		DDG, Mines	<i>Principal</i>
Shri Y.A. Dhengle	<i>Principal</i>	Shri M.K. Das	<i>Alternate</i>
Bharat Heavy Electricals Ltd.		Engineers India Ltd.	
Shri H.K. Nigam	<i>Principal</i>	Shri Singh J.M.	<i>Principal</i>
Shri A.K. Varshney, DGM	<i>Alternate</i>	Shri Patro U.A.	<i>Alternate</i>
Shri Babu Sonwane	<i>Second Alternate</i>	Gilbarco Veeder Root India Private	
Centre for Fire,Explosive & Environment		Shri Russy N. Master	<i>Principal</i>
Dr. S.C. Aggarwal	<i>Principal</i>	Shri Deepak Mehra	<i>Alternate</i>
Shri L.C. Ralte	<i>Alternate</i>	Hindustan Petroleum Corporation Ltd	
Crompton Greaves Ltd.		Ms Rupali Kabi	<i>Principal</i>
Shri Dilip Bhawe	<i>Principal</i>	Shri D.K. Sharma	<i>Alternate</i>
Confederation of Indian Industry		Shri Reji Mathew	<i>Second</i>
<i>Alternate</i>		IEEMA	
Shri Nandakumar K.	<i>Principal</i>	Shri R. Krishnakumar	<i>Principal</i>
Central Institute of Mining & Fuel		Ms Gupta Anita	<i>Alternate</i>
Dr. Arvind Kr. Singh	<i>Principal</i>	Indian Flameproof Mfrs. Association	
Shri Rajendra Kr.	<i>Alternate</i>	Shri Gupta B.K.	<i>Principal</i>
Shri Bhagirath Ahirwal	<i>Second Alternate</i>	Shri Patel R.H.	<i>Alternate</i>
Coal India Ltd.		Shri Nilesh Agarwal	<i>Second</i>
Chief GM(S&R)	<i>Principal</i>	Oil Industry Safety Directorate	
<i>Alternate</i>		Nomination Awaited	<i>Principal</i>
Suptd Engineer (E&M)	<i>Alternate</i>	Shri S.K. Mazumdar	<i>Alternate</i>
Central Power Research Institute		Oil & Natural Gas Commission	
Shri G.B. Balraju	<i>Principal</i>	Shri S.C. Tripathy	<i>Principal</i>
Shri V.N. Nagaraja Rao	<i>Alternate</i>		<i>Alternate</i>
Deptt. of Construction, Services & Estate			
Shri D.K.Jain	<i>Principal</i>		

Petroleum and Explosives Safety

Shri T R Thomas *Principal*

Shri P.C. Srivastava *Alternate*

Reliance Industries Ltd.

Shri Kuldip Kumar Dhar *Principal*

Shri M. Bhagwan *Alternate*

Standardisation Testing & QC Directorate

Shri Biswajit Deb *Principal*

Tariff Advisory Committee

Shri Saha Amit *Principal*

**COMPOSITION OF
ET 23 ELECTRIC LAMPS AND THEIR AUXILIARIES**

National Physical Laboratory		Shri A.K. Verma	<i>Alternate</i>
Dr Kandpal H.C.	<i>Chairman</i>	Shri M U Farooq	<i>Second</i>
<i>Alternate</i>			
Bureau of Indian Standards		Ministry of Defence	
Shri D Goswami	<i>Member Secretary</i>	Representative	<i>Principal</i>
Bajaj Electricals Ltd.		Directorate General of Supplies &	
Nomination awaited	<i>Principal</i>	Shri H.R. Sharma	<i>Principal</i>
Bureau of Energy Efficiency		Shri S Bhardwaj	<i>Alternate</i>
Dr. Sandeep Garg	<i>Principal</i>	Delhi Transco Ltd	
Shri Arjit Sengupta	<i>Alternate</i>	Shri Satish Sabharwal	<i>Principal</i>
Brihan Mumbai Electric Supply &		Electric Lamp & Component Mfrs. Assn of	
Shri P.V. Haldankar	<i>Principal</i>	Shri Shyam Sujan	<i>Principal</i>
Shri A.B.Kandge	<i>Alternate</i>	Shri H.S. Mamak	<i>Alternate</i>
Central Electricity Authority		Shri S Suresh	<i>Second</i>
<i>Alternate</i>			
Shri R.K. Verma	<i>Principal</i>	Electrical Research & Development	
Shri Vivek Goyal	<i>Alternate</i>	Shri	<i>Principal</i>
Consumer Education and Research Centre		Federation of All India Small Scale Lamps	
Shri Ms. Shweta Mahajan	<i>Principal</i>	Shri Agarwal D.C.	<i>Principal</i>
Smt Ms. Shveta Sheth	<i>Alternate</i>	Shri Swetu Patel	<i>Alternate</i>
Crompton Greaves Ltd.		Hind Lamps Ltd	
Shri R.R. Ray	<i>Principal</i>	Shri D M Dayal	<i>Principal</i>
Shri Parag Wani	<i>Alternate</i>	Shri S.K. Sharma	<i>Alternate</i>
Shri Rajesh Naik	<i>Second Alternate</i>	Halonix Ltd.	
Consumer Guidance Society of India		Shri Neogi S.K.	<i>Principal</i>
Shri B.V. Desai	<i>Principal</i>	Shri Vishal Garg	<i>Alternate</i>
Dr. A.N. Bhat	<i>Alternate</i>	HPL-Electric and Power Pvt Ltd	
Central Power Research Institute		Shri Sanjeev Sharma	<i>Principal</i>
Shri A.R. Ravikumar	<i>Principal</i>	Shri Rishi Seth	<i>Alternate</i>
Shri Rajashekar P. Mandi	<i>Alternate</i>	Indian Institute of Technology (Delhi)	
Central Public Works Department		Prof S.S. Murthy	<i>Principal</i>
Shri J.M. Paswan	<i>Principal</i>	In personal Capacity	
Shri S.D. Sharma	<i>Alternate</i>	Shri P.K.Mukherjee	<i>Principal</i>
Development Commissioner Micro, Small			
Shri R K Rai	<i>Principal</i>		

Indian Society of Lighting Engineers

Shri Dilip Bharadkar

*Alternate*Shri P.K. Bandyopadhyay *Principal*Shri Chakraborty S. *Alternate***Jadavpur University**Dr. Saswati Mazumdar *Principal*Dr B. Roy *Alternate***Janta Electronics & Training Centre**Shri Bhagwan Singh *Principal*Shri Manish Kumar Singh *Alternate***National Physical Laboratory**Dr Mehrotra R. *Alternate***National Test House**Shri S. Chakrabarty *Principal*Shri R.R. Srivastava *Alternate***NTPC Ltd**Shri Sanjay Seth *Principal*Shri Amrish Gupta *Alternate***Osram India Pvt Ltd**Ms. Bhavna Kasturia *Principal*Shri Pankaj Gupta *Alternate*Shri Rajat Mandal *Second Alternate***Philips Electronics India Ltd**Shri Amal Sengupta *Principal*Shri Sunil S. Duggal *Alternate*Shri Vinesh Tyagi *Second Alternate***Surya Roshni Ltd.**Shri Jaggi R.K. *Principal*Shri D.K. Sharma *Alternate*Shri G.C. Joshi *Second Alternate***Voluntary Organisation in Interest of**Shri Kapoor T.C. *Principal*Shri Wadhwa H. *Alternate*Shri Choudhuri K.C. *Second Alternate***Wipro Ltd**Shri Makarand Sainis *Principal*

**COMPOSITION OF
ET 24 ILLUMINATION ENGINEERING AND**

Indian Society of Lighting Engineers		Shri P. Singhal	<i>Principal</i>
Shri Bandyopadhyay P.K.	<i>Chairman</i>	Shri Akhilesh Kumar	<i>Alternate</i>
Bureau of Indian Standards		Electric Lamp & Component Mfrs. Assn of	
Shri D Goswami	<i>Member Secretary</i>	Shri Shyam Sujan	<i>Principal</i>
Bajaj Electricals Ltd.		Shri H.S. Mamak	<i>Alternate</i>
Shri C.R. Ravindranath	<i>Principal</i>	Shri Swaroop Bolar	<i>Second</i>
<i>Alternate</i>		International Airport Authority of India	
Shri K. Naveen	<i>Alternate</i>	Nominated Awaited	<i>Principal</i>
Shri D.V.R.S. Sastry	<i>Second Alternate</i>	Indian Flameproof Mfrs. Association	
Bureau of Energy Efficiency		Shri Patel R.H.	<i>Principal</i>
Dr S Garg	<i>Principal</i>	Shri Gupta B.K.	<i>Alternate</i>
Ms Neeta Khandwal	<i>Alternate</i>	Shri Agarwal Nilesh	<i>Second</i>
Binay Opto Electronics Pvt. Ltd.		Institute of Indian Interior Designer	
<i>Alternate</i>		Shri Ashok Butala	<i>Principal</i>
Shri Vineet K Rohatgi	<i>Principal</i>	Ms Rohini Mani	<i>Alternate</i>
Central Electricity Authority		In personal Capacity	
Shri Sanjay Srivasata	<i>Principal</i>	Shri P.K.Mukherjee	<i>Principal</i>
Shri T K Singh	<i>Alternate</i>	Indian Society of Lighting Engineers	
Crompton Greaves Ltd.		Chairman of the Committee	<i>Principal</i>
Shri Manoj Verma	<i>Principal</i>	Jadavpur University	
Shri Rajesh Naik	<i>Alternate</i>	Dr Biswanath Roy	<i>Principal</i>
Shri Prashant Kudrya	<i>Second Alternate</i>	MIC Electronics Limited	
Council of Architecture		Shri V. Sambaiah	<i>Principal</i>
Nominated Awaited	<i>Principal</i>	National Physical Laboratory	
Central Public Works Department		Dr Kandpal H.C., Head,	<i>Principal</i>
Shri Mukesh Vij	<i>Principal</i>	Dr. Ranjana Mehrotra	<i>Alternate</i>
Shri S.P. Baranwal	<i>Alternate</i>	National Test House	
Development Commissioner Micro, Small		Shri K.N. Misra	<i>Principal</i>
Shri Rai R K	<i>Principal</i>	Shri P.K. Karmakar	<i>Alternate</i>
Shri A K Verma	<i>Alternate</i>	NTPC Ltd	
Shri M U Farooq	<i>Second Alternate</i>	Shri Sanjay Seth	<i>Principal</i>
Ministry of Defence		Shri Vikram Talwar	<i>Alternate</i>
Shri A.K.Saxena	<i>Principal</i>	Directorate General of Supplies &	
Shri Arvind Kumar	<i>Alternate</i>		

Osram India Pvt Ltd

Shri Rajat S Mandal *Principal*

Ms Bhavna Kasturia *Alternate*

Philips Electronics India Ltd

Ms Mukhopadhyay *Principal*

Shri Chaudhuri Kunal *Alternate*

Research Design & Standards Organisation

Pravin Pradhan *Principal*

Manish Gupta *Principal*

Energy Efficiency & Renewable Energy

Dr. (Mrs.) Parveen Dhamija *Principal*

Dr. Chandra Prakash *Alternate*

Surya Roshni Ltd.

Shri S. Chakraborty *Principal*

Shri Krishna Raman *Alternate*

Tata Power Delhi Distribution Limited

Shri Mr Sunil Singh *Principal*

Shri Jayanta Chatterjee *Alternate*

Universal Electronic Solutions (India) Pvt.

Shri Prakash Rao A *Principal*

U L India

Shri Brahmhatt Gautam *Principal*

Shri V.Manjunath *Principal*

Voluntary Organisation in Interest of

Shri T.C. Kapoor *Principal*

Shri H. Wadhwa *Alternate*

**COMPOSITION OF
ET 25 LIFTS AND ESCALATORS**

Public Works Department, Maharashtra

Shri S.T. Valekar *Chairman*

Shri N.G.Beharam *Alternate*

Bureau of Indian Standards

Shri D Goswami *Member Secretary*

Central Electricity Authority

Shri Moti Lal *Principal*

Shri P.C. Kureel *Alternate*

Govt. of Gujarat (IW),

Mr. Vaishnav B.M. *Principal*

Chief Electrical Inspectorate (Karnataka)

Shri D.H. Basavaraju *Principal*

Shri H.B. Lakshmeesha *Alternate*

Chief Electrical Inspectorate (Tamil Nadu)

Shri A Appavoo *Principal*

Shri D Karthikeyan *Alternate*

Chief Electrical Inspectorate (WB)

Shri M. Mukherjee *Principal*

Shri Bipul Hazra *Alternate*

Central Public Works Department

Shri A.C. Suri *Principal*

Shri H.S. Sandhu *Alternate*

Ministry of Defence

Alternate

Brig V Gaopande *Principal*

Shri Manoj Kumar *Alternate*

Delhi Fire Services

Shri Dr G C Mishra/Atul *Principal*

Directorate General of Supplies &

Shri R.S. Pandey *Principal*

Shri Sharma H.R. *Alternate*

Delhi Metro Rail Corporation Ltd

Shri Mahendra Kumar *Principal*

Shri Anoop Gupta *Alternate*

Electrical Inspectorate, Haryana

Shri S.K. Kakkar *Principal*

Shri Jagdish Prashar *Alternate*

Electrical Inspectorate Himachal Pradesh

Shri M.R. Daroch *Principal*

Fire and Emergency Services & Fire Advisor

Shri M V Deshmukh *Principal*

Shri S Warick *Alternate*

IEEMA

Principal

Shri Pandey J. *Alternate*

The Indian Institute of Architects

Shri Vinay M. Parelkar *Principal*

Shri Paresch Kapadia *Alternate*

Johnson Lifts Private Limited

Shri M. Balasubramanian *Principal*

Shri Albert Dhiraviyam *Alternate*

Kolkata Metro

Shri D C Ray *Principal*

KONE Elevators India Ltd.

Shri Tipnis P.M. *Principal*

Shri P Gurumoorthy *Alternate*

Shri J. Sivaraman *Second*

Lerch Bates Private Limited

Shri A S Herwadkar *Principal*

Maharashtra Chamber & Housing Industry

Shri Pratik Patel *Principal*

Shri Diipesh Bhagtani *Alternate*

Office of the Labour Commissioner; Delhi

Shri Avinash Kumar *Principal*

Shri G.S. Walia *Alternate*

Otis Elevator Co.(India) Ltd.

Shri Sameer Joshi *Principal*

Shri Abhijit Dandekar *Alternate*

Shri Mr. H. N. Prashanth *Second Alternate*

Public Works Department, Maharashtra

Shri S M Bhasme *Principal*

Shri M G Beharam *Alternate*

Schindler India Pvt Ltd.

Shri Deshpande Nimish *Principal*

Shri Ronnie Dante *Alternate*

TAK Consulting Pvt. Ltd.

Shri TAK Mathews *Principal*

Shri PVN Marar *Alternate*

Voluntary Organisation in Interest of

Shri K.C.Chaudhary *Principal*

Shri Paras Oberoi *Alternate*

**COMPOSITION OF
ET 28 SOLAR PHOTOVOLTAIC ENERGY SYSTEMS**

Ministry of New and Renewable Energy		Dr. Viresh Dutta	<i>Principal</i>
Dr B. Bhargava	<i>Chairman</i>	Indian Renewable Energy Development	
Bureau of Indian Standards		Dr. Debashish Majumdar	<i>Principal</i>
Shri Sumit Sengar	<i>Member Secretary</i>	Shri A.A.Khatana	<i>Alternate</i>
Amar Raja Batteries Ltd.		Shri K.B.K. Reddy	<i>Second</i>
<i>Alternate</i>		Jadavpur University	
Shri Jeyakumar N.D.	<i>Principal</i>	Nomination awaited	<i>Principal</i>
Shri Jagadish M.	<i>Alternate</i>	Non Conventional Energy Development	
Bharat Heavy Electricals Ltd.		Shri Sharma Mahendra Pal	<i>Principal</i>
Shri M. Srinath	<i>Principal</i>	Rajasthan Electronics & Instruments Ltd	
Shri Lokabhiraman	<i>Alternate</i>	Shri Mukesh Bihari Mathur	<i>Principal</i>
Central Electricity Authority		Shri Anil Kumar Sharda	<i>Alternate</i>
Shri Mangal Singh	<i>Principal</i>	Ritika Systems	
Smt. Nagma Furkan	<i>Alternate</i>	Nomination awaited	<i>Principal</i>
Central Electronics Ltd.		Rajasthan Renewable Energy Corporation	
Dr. U.S. Taneja	<i>Principal</i>	Shri Rajeeva Swarup	<i>Principal</i>
Central Power Research Institute		Shri A.K. Pathak	<i>Alternate</i>
Shri M. Siddhartha Bhatt	<i>Principal</i>	Solar Energy Centre	
Shri Rajashekar, P. Mandi	<i>Alternate</i>	Dr O.S. Sastry	<i>Principal</i>
Central Public Works Department		Dr P.C. Pant	<i>Alternate</i>
Shri S.P. Baranwal	<i>Principal</i>	Sun Technics Energy Systems Pvt. Ltd.	
Shri M.K. Verma	<i>Alternate</i>	Shri Sanoj James	<i>Principal</i>
Department of Industrial Policy &		Shri Girish J.R.	<i>Alternate</i>
Shri Ramasubramaniam T.	<i>Principal</i>	The Tata Power Co Ltd,	
Shri Ali Khan M.M.	<i>Alternate</i>	Shri N. Kannan	<i>Principal</i>
Engineers India Ltd.		Shri S. B. Lakhpathi	<i>Alternate</i>
Shri Sanjay Gupta	<i>Principal</i>	Tata BP Solar India Ltd.	
Shri Parag Gupta	<i>Alternate</i>	Shri T S Keshav Prasad	<i>Principal</i>
ETDC, Bangalore		Shri Balamurugan D.	<i>Alternate</i>
Nomination awaited	<i>Principal</i>	The Energy and Resources Institute	
HBL Power Systems Limited		Smt Mohanty Parimita	<i>Principal</i>
Shri Manoj Jahagirdar	<i>Principal</i>	Dr Ishan Purohit	<i>Alternate</i>
Shri Pervez Haniff	<i>Alternate</i>		
Indian Institute of Technology (Delhi)			

Titan Solar Energy Systems Ltd

Shri Anchala Pampapathy *Principal*

Shri G.K. Kotaiah *Alternate*

West Bengal Renewable Energy

Nomination awaited *Principal*

**COMPOSITION OF
ET 29 POWER CAPACITORS**

Central Power Research Institute

Dr (Mrs) H.N. Nagamani *Chairman*

Bureau of Indian Standards

Shri D. Goswami *Member Secretary*

ABB Ltd.

Shri Shylendra Kumar *Principal*

Shri Biswas Pannalal, AVP *Alternate*

Bangalore Electricity Supply Company

Nomination Awaited *Principal*

Bharat Heavy Electricals Ltd.

Shri M.Kurre *Principal*

Shri K M Naik *Alternate*

Central Electricity Authority

Smt R.K.Verma *Principal*

Shri Y.K. Swarankar *Alternate*

CESC Limited

Shri Santanu Bhattacharya *Principal*

Shri Shamik Purkayastha *Alternate*

Central Power Research Institute

Shri T.Bhavani Shanker *Principal*

Shri Vaidhyanathan *Alternate*

Gujarat Electricity Board

Shri R.B.Brahmbhatt *Principal*

Madhya Pradesh Power Transmission

Shri R.K.Verma *Principal*

Dr. V.K.Kashyap *Alternate*

Maharashtra State Transco Ltd

Shri D.D.Pradhan *Principal*

Shri S.B.Gundale *Alternate*

Punjab State Electricity Board

Shri Director, Design Sub- *Principal*

Shri Dy. Director *Alternate*

Epcol India Pvt. Ltd.

Dr R. Venkatesh *Principal*

Shri Rahul Eghe *Alternate*

Electrical Research & Development

Shri R.B.Desai *Principal*

Gujrat Urja Vikas Nigam Ltd

Shri P.A. Shah *Principal*

IEEMA

Shri Mustafa Wajid *Principal*

Ms Anita Gupta *Alternate*

In personal Capacity

Shri A.K. Bhattacharya *Principal*

Madhav Capacitors Pvt. Ltd.

Shri B.D. Nikam *Principal*

Shri Sachin Londhe *Alternate*

Meher Capacitors Pvt. Ltd.

Shri *Principal*

New Delhi Power Ltd

Shri Ashok Saraf *Principal*

Shri Ravindra Panage *Alternate*

National Test House

Shri D.G. Basumatary *Principal*

Shri S.B. Nandakumar *Alternate*

NTPC Ltd

Shri D.K.Gupta *Principal*

Shri Nomination awaited *Alternate*

Power Grid Corporation of India Ltd.

Shri D.K.Gupta *Principal*

Shri Mahendra Saxena *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar, *Principal*

Shri P.S. Hariharan *Alternate*

Shreem Capacitors, Kolhapur Maharashtra

Shri Vishal Jagadale *Principal*

Shri Nagesh I Dhang *Alternate*

Schneider Electric

Ms Tabbassum M Wajid *Principal*

Shri Sameer Deshpande *Alternate*

The Tata Power Co Ltd,

Ms Deepa Joshi *Principal*

Shri G.T. Jawale *Alternate*

Shri Pillai Ramachandran *Second Alternate*

Tata Consulting Engineers

Ms. Akalpita V Deshpande *Principal*

Shri Vishal B Mohite *Alternate*

Universal Cables Ltd.

Shri P.K.Bhandari *Principal*

Shri C.S.Gupta *Alternate*

**COMPOSITION OF
ET 30 SURGE ARRESTERS**

Power Grid Corporation of India Ltd.

Shri N.S. Sodha *Chairman*

Bureau of Indian Standards

Smt Nishat S Haque *Member Secretary*

Areva Transmission and Distribution

Nomination Awaited *Principal*

Bharat Heavy Electricals Ltd.

Shri A.K. Aripathi *Principal*

Shri Amitab Singhal *Alternate*

BSES Rajdhani Power Ltd.

Nomination Awaited *Principal*

Central Electricity Authority

Director (Substation) *Principal*

Dy Director (Substation) *Alternate*

CESC Limited

Shri Nikhilesh De *Principal*

Shri Arghya Ghosai *Alternate*

Crompton Greaves Ltd.

Shri Milind Zodage *Principal*

Shri John Yesuraj *Alternate*

Central Power Research Institute

Smt M. Kanyakumari *Principal*

Dr Pradeep M. Nirgude *Alternate*

Haryana Vidyut Prasaran Nigam Ltd.

Shri D.P. Garg *Principal*

Shri J.S. Yadav *Alternate*

Maharashtra State Transco Ltd

Shri Raje R.S. *Principal*

Shri Kelkar S.G. *Alternate*

Rajasthan Rajya Vidyut Prasaran Nigam

Shri Gupta S.S. *Principal*

Elpro International Ltd.

Shri Belsare V.M. *Principal*

Shri Kale S.P. *Alternate*

Electrical Research & Development

Shri A.S. Khopkar *Principal*

Shri M.K. Shah *Alternate*

Gujrat Electricity Board

Shri Bhatt J.K. *Principal*

Shri Shah A.R. *Alternate*

IEEMA

Shri J. Pande *Principal*

V. Sasi Kumar *Principal*

Smt Anita Gupta *Alternate*

Indian Flameproof Mfrs. Association

Shri Sunil Wadhwa *Principal*

Indian Institute of Science, Bangalore

Prof L. Satish *Principal*

In personal Capacity

Dr. Channakeshava *Principal*

Prof Gururaj B.I. *Principal*

Jay Shree Insulators

Principal

Alternate

Karnataka Power Transmission Corpn Ltd

Shri Hanumanthaappa B.S. *Principal*

Shri Shyamasunder *Alternate*

Lamco Lighting Arrester Mfg.

Shri Sarma S.S. Akella *Principal*

Shri Prakkasam N.S. *Alternate*

New Delhi Power Ltd

Nomination Awaited *Principal*

Nuclear Power Corporation of India Ltd

Shri V.H. Manohar *Principal*

Shri M.C. Rajput *Alternate*

NTPC Ltd

Shri Hambarde S.P. *Principal*

Shri Shekhar Himanshu *Alternate*

Oblum Electrical Industries Pvt Ltd

Shri Balagangadhar O. *Principal*

Shri Sukumar B *Alternate*

Power Grid Corporation of India Ltd.

Shri R.K. Tyagi *Principal*

Shri A.P. Gangadharan *Principal*

Philips Electronics India Ltd

Nomination Awaited *Principal*

Raychem RPG Pvt Ltd.

Shri V. Sasi Kumar *Principal*

Research Design & Standards Organisation

Nomination Awaited *Principal*

Rural Electification Corporation Ltd.

Shri Kumar Dinesh *Principal*

Shri Hariharan P.S. *Alternate*

Siemens Ltd.

Shri Gour Chandra Saha *Principal*

The Tata Power Co Ltd,

Shri S.R. Mujumdar *Principal*

Shri P.D. Gaikwad *Alternate*

Tata Consulting Engineers

Smt Havanur Anjana *Principal*

Shri N. Raman *Alternate*

Telecom Engineering Centre

Shri Nomination Awaited *Principal*

Tamil Nadu Electricity Board

Principal

Alternate

**COMPOSITION OF
ET 31 POWER ELECTRONICS**

Central Electronics Ltd.

Shri Rajesh Kumar Jain *Chairman*

Bureau of Indian Standards

Shri D. Goswami *Member Secretary*

ABB Ltd.

Shri V.K. Shah *Principal*

Shri Vilas Kanetkar *Alternate*

Bhabha Atomic Research Centre

Shri G.P. Srivatsava *Principal*

Shri M.K. Singh *Alternate*

Bharat Heavy Electricals Ltd.

Shri V. Seshadri *Principal*

Shri V. Nagesh Rao *Alternate*

Central Electricity Authority

Dr Prabhat Mohan *Principal*

Shri *Alternate*

Crompton Greaves Ltd.

Dr S. Ekram *Principal*

CMAI

Shri Nomination Awaited *Principal*

Development Commissioner Micro, Small

Shri R.K. Rai *Principal*

Shri A.K. Verma *Alternate*

Shri M U Farooq *Second Alternate*

Ministry of Defence

Shri Dr. Ram Verma *Principal*

Shri A K Dubey *Alternate*

Directorate General of Supplies &

Shri P.M. Wanzari *Principal*

Shri S.K. Jain *Alternate*

Department of Electronics

Shri Bhawe P.H. *Principal*

Shri Ghosh J.K. *Alternate*

Emerson Network Power

Shri T.K. Shachidevi *Principal*

Electrical Research & Development

Shri Vinod Gupta *Principal*

Dr K.T. Patel *Alternate*

IEEMA

Chairman-Power *Principal*

Smt. Anita Gupta *Alternate*

Indian Institute of Technology (Delhi)

Nomination awaited *Principal*

Larsen & Toubro Ltd

Shri R.G. Rane *Principal*

Shri D N Purohit *Alternate*

National Informatics Centre,

Shri Nomination awaited *Principal*

Nuclear Power Corporation of India Ltd

Shri Sanjoy Sarkar *Principal*

Shri Jeorge Sebastian *Alternate*

NTPC Ltd

Shri D.K. Chaturvedi *Principal*

Smt. C. Saroj *Alternate*

Phoenix Contact (India) Pvt Ltd

Shri Manchanda Ashish *Principal*

Shri Vishal Sharma *Alternate*

Power Grid Corporation of India Ltd.

Shri R.K. Chauhan *Principal*

Shri B.B. Mukherjee *Alternate*

Research Design & Standards Organisation

Shri Joshi S.S. *Principal*

Shri Rao R.K.V. *Alternate*

Steel Authority of India Ltd.

Shri Mazumder B. *Principal*

Shri Gupta V.P. *Alternate*

State Bank of India,

Shri Bhawe A.W. *Principal*

Shri Ramaswamy D. *Alternate*

Schneider Electric

Shri Thiagarajan *Principal*

Siemens Ltd.

Shri Benhur Paul Kurapaty *Principal*

Shri Shailendra Waghulde *Alternate*

ST Microelectronic

Shri Pradeep Kumar *Principal*

Telecom Engineering Centre

Shri Naveen Kumar *Principal*

Shri R.K. Sharma *Alternate*

TEMA

Shri Nomination Awaited *Principal*

Assn. Of UPS & Power Conditioning Systems

Shri Aggarwal Sanjay *Principal*

Shri Roy Robin *Alternate*

**COMPOSITION OF
ET 32 ELECTRICAL APPLIANCES**

Ministry of Communication & Information

Shri G.C. Saxena *Chairman*

Bureau of Indian Standards

Smt Nishat S. Haque *Member Secretary*

Bajaj Electricals Ltd.

Shri P.S. Tandon *Principal*

Shri K. Mani Nath *Alternate*

Shri Harchanran Singh *Second Alternate*

Bureau of Energy Efficiency

Dr. Sandeep Garg *Principal*

Central Electricity Authority

Shri Alok Gupta *Principal*

Shri R.K. Verma *Alternate*
Alternate

Govt. of Gujarat (IW),

Shri Shah S.R. *Principal*

Shri Mishra N.J. *Alternate*

Consumer Education and Research Centre

Alternate

Shri Shweta Mahajan *Principal*

Ms Shveta Seth *Alternate*

Crompton Greaves Ltd.

Shri Mayur Nadkarni *Principal*

Shri Mahindra *Alternate*

Shri Parwinder Singh *Second Alternate*

Central Power Research Institute

Shri A. Lourdhunadhan *Principal*

Shri Nagaraja Rao.V.N. *Alternate*

Central Public Works Department

Shri Mukesh Vij *Principal*
Alternate

Shri A. K. Goel *Alternate*

Development Commissioner Micro, Small

Shri R K Rai *Principal*

Shri A.K. Verma *Alternate*

Shri M U Farooq *Second Alternate*

Ministry of Defence

Shri S.K. Mahajan *Principal*

Shri Manoj Kaushik *Alternate*

Directorate General of Supplies &

Shri Senjeet Kumar *Principal*

Shri Rakesh Kumar *Alternate*

Department of Industrial Policy &

Shri S.K. Jain *Principal*

Shri Mohd.Zakaria Khan *Alternate*

Electrical Appliances Mfrs. Association

Shri J.K. Oberoi *Principal*

Shri Ramesh Khanna *Alternate*

Shri Prakash Atam *Second*

Electrical Research & Development

Dr Satish H. Chetwani *Principal*

Shri Nailesh S. Kadia *Alternate*

Shri Das T.D. *Second*

Electronics Regional Test Laboratory

Ms Manjula Bhati *Principal*

Indian Fan Manufacturers' Association

Shri C.M. Gupta *Alternate*

National Test House

Smt Uma Bhakta *Principal*

Shri T. Roy Barman *Alternate*

Philips Electronics India Ltd

Shri L.A. Kulkarni *Principal*

Shri P.V. Kotasthane *Alternate*

Shri Ashutosh Mittal *Second*

Racold Thermo Ltd.

Shri P.S. Ramesh *Principal*

Ms Alok Kumar Rathi *Alternate*

Research Design & Standards Organisation

Shri Prafulla Chandra *Principal*

Shri Suresh Chandra *Alternate*

SPHEREHOT WATER HEATERS PVT

Shri Doshi B.K. *Principal*

Shri Doshi Ketan B. *Alternate*

Venus Home Appliances (P) Ltd

Shri R. Iyadurai *Principal*

Shri I.Ram Kumar *Alternate*

Voluntary Organisation in Interest of

Shri Wadhwa H. *Principal*

Whirlpool of India Ltd

Shri Susil Kumar Michael *Principal*

Shri N. Krishna *Alternate*

**COMPOSITION OF
ET 33 WINDING WIRES**

Central Power Research Institute

Dr. J.Sundara Rajan *Chairman*

Bureau of Indian Standards

Ms Manju Gupta *Member Secretary*

Bharat Heavy Electricals Ltd.

Shri Goyal V.C *Principal*

Shri Vijayakumar R. *Alternate*

Central Electricity Authority

Shro A. K Rajput *Principal*

Shro H. R. Arora, *Alternate*

Crompton Greaves Ltd.

Shri Agnihotri S.D. *Principal*

Shri Nadkarni M.P. *Alternate*

Central Power Research Institute

Shri Asai Thambi *Principal*

Development Commissioner Micro, Small

Shri Rai R K *Principal*

Shri A. K. Verma *Alternate*

Shri M.U. Farooq *Second Alternate*

Ministry of Defence

Brig MMS Bharaj *Principal*

Col P. P. Singh *Alternate*

Elantas Beck India Ltd.

Shri Gokhale S.S. *Principal*

Shri Bapu Gowade *Alternate*

Electronics Corporation of India Ltd.

Shri Atul Jain *Alternate*

Electrical Research & Development

Dr Krishnamoorthy P.A. *Principal*

Dr. Shrinet V. *Principal*

Dr. Pandya N.R. *Alternate*

IEEMA

Shri Pande J. *Principal*

Kirloskar Electric Company Ltd.

SHRI Umesh G. *Principal*

Larsen & Toubro Ltd

Shri J.V. Parekh *Principal*

Shri A.G.Saoji. *Alternate*

National Aluminium Company Ltd.

SHRI Pani B.S *Principal*

Shri Nair M.K.B *Alternate*

National Test House

Shri Nandkumar S.B. *Principal*

Shri Jeyraj. K *Alternate*

Precision Wires India Limited, Mumbai

Shri Milan M. Metha *Principal*

Ram Ratna Wires Ltd

Shri Vijay L. Chandak *Principal*

Sanmar Speiality Chemicals Limited

Shri Choudhury M. *Principal*

South India Engineering Mfrs. Association

Shri Keshavarajulu R.G. *Principal*

Shri Rajendran G. *Alternate*

Winding Wires Assoc. of India

Shri Sudhi Agarwal *Principal*

Shri Anant Loya *Alternate*

**COMPOSITION OF
ET 34 INSTRUMENT TRANSFORMERS**

NTPC Ltd,		Shri Verma R.K.	<i>Principal</i>
Shri Pramod Kumar	<i>Chairman</i>	Shri Shivara Singh	<i>Alternate</i>
Bureau of Indian Standards		Electrical Research & Development	
Smt Manju Gupta	<i>Member Secretary</i>	Shri R.B. Desai	<i>Principal</i>
ABB Ltd.		Shri Trivedi U.C.	<i>Alternate</i>
Shri Patel J.J.	<i>Principal</i>	Gilbert & Maxwell Electricals Pvt. Ltd.	
Shri Desai V.J.	<i>Alternate</i>	Shri Deshpande N.S.	<i>Principal</i>
Areva T&D India Ltd (ALSTOM)		Shri Deshpande Pradeep	<i>Alternate</i>
Shri Mohan S.	<i>Principal</i>	Hivoltrans Electricals Pvt. Ltd.	
Shri Deepak V.	<i>Alternate</i>	Shri Akre G.V.	<i>Principal</i>
Areva T& D India Limited		Shri Karia V.R.	<i>Alternate</i>
Shri S. Mohan	<i>Principal</i>	Shri Chowdhury Roy.A.	<i>Second</i>
<i>Alternate</i>		Institute for Design of Elec. Meas.	
Shri V Deepak	<i>Alternate</i>	Shri Khaladkar S.G	<i>Principal</i>
Brihan Mumbai Electric Supply &		Shri Pradeep Gujrathi	<i>Alternate</i>
Shri R.S. Kale	<i>Principal</i>	IEEMA	
Shri K.D. Bhalerao	<i>Alternate</i>	Shri G.V. Akre	<i>Principal</i>
Bharat Heavy Electricals Ltd.		Ms Anita Gupta	<i>Alternate</i>
Shri K.S.R. Prasad	<i>Principal</i>	JSL Industries Ltd	
Shri Khurana K.K.	<i>Alternate</i>	Shri Kishor S. Jinsiwale	<i>Principal</i>
Central Board of Irrigation & Power		Karnataka Power Transmission	
Shri Director Energy	<i>Principal</i>	Shri K.G. Romesh	<i>Principal</i>
Shri R.S. Chadha	<i>Alternate</i>	Shri Krishnamoorthy	<i>Alternate</i>
Central Electricity Authority		Maharashtra State Electricity Board	
Shri A. Balan	<i>Principal</i>	Shri Sharadchandra	<i>Principal</i>
Shri M.S. Satija	<i>Alternate</i>	Maharashtra State Electricity	
Shri A.C. Arora	<i>Second Alternate</i>	Shri Madhusudan	<i>Alternate</i>
Crompton Greaves Ltd.		National Hydroelectric Power Corporation	
Shri Kulkarni J.G	<i>Principal</i>	Shri Rajesh Sharma	<i>Principal</i>
Shri Rao Pramod	<i>Alternate</i>	Shri M. Kannan	<i>Alternate</i>
Central Power Research Institute		National Physical Laboratory	
Shri S. Bhattacharya	<i>Principal</i>	Dr. S.R.Gupta	<i>Principal</i>
Shri Swaraj Kumar Das	<i>Alternate</i>		
Madhya Pradesh Power Transmission			

NTPC Ltd

Shri Bal Mukund Vyas

*Alternate*Shri Abhijit Sen *Principal*Shri Subhash Thakur *Alternate***Power Grid Corporation of India Ltd.**Shri A.P. Gangadharan *Principal*Shri S.B.R. Rao *Alternate*Shri Dheeraj Srivastava *Second Alternate***Pragati Electricals Pvt. Ltd.**Shri Prashant. P. Gune *Principal*Shri S.B. Diwadkar *Alternate***Prayog Electricals Pvt. Ltd.**Shri Mantri Vinayak Jayant *Principal*Shri Desai Sharmrao *Alternate***Siemens Ltd.**Shri Girish Lele *Principal*Shri Jyotirmoy Dutta *Alternate***Silkaans Electrical Mfg. Co. pvt. Ltd**Shri S.D. Jinsiwale *Principal*Shri Atul Jinsiwale . *Alternate***The Tata Power Co Ltd,**Shri T. Murlikrishna *Principal*Shri G.T. Jawale *Alternate***Tata Consulting Engineers**Shri V.K. Jain *Principal*Shri V.V. Bhat *Alternate***Transformers and Electricals Kerala**Shri Andu C.P. *Principal*Ms Isaac Nirmala *Alternate***Tamil Nadu Electricity Board**EE/MRT/Chengalpattu *Principal*Executive Engineer *Alternate***Vamet Electric Pvt. Ltd.**Shri Gopal Choudhry K. *Principal***Yadav Measurements Pvt Ltd**Shri Kiran S. Kelepure *Principal*

**COMPOSITION OF
ET 35 POWER SYSTEM RELAYS**

Delhi Electricity Regulatory Commission

Shri S.R. Sethi *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

ABB Ltd.

Shri V. Gopala Krishnan *Principal*

Shri Jagadish Anandrao *Alternate*

Areva T&D India Ltd (ALSTOM)

Shri Sujit Piri *Principal*

Shri Vivek Singal *Alternate*

Brihan Mumbai Electric Supply &

Shri S.K. Bakre *Principal*

Shri S. V. Fulpagare *Alternate*

Bharat Heavy Electricals Ltd.

Shri P. K. Upadhyay *Principal*

Shri Sarma K.V. *Alternate*

Shri Deshpande S.G. *Second Alternate*

Central Board of Irrigation & Power

Shri K.P. Singh *Principal*

Shri S.K. Batra *Alternate*

Central Electricity Authority

Shri Moti Lal *Principal*

Dy. Director (Substation) *Alternate*

CESC Limited

Shri Manik Basu *Principal*

Shri Sujit Kumar Pathak *Alternate*

Central Power Research Institute

Smt A. Amruthakala, *Principal*

Shri Kaliappan *Alternate*

Central Public Works Department

Shri Mukesh Vij *Principal*

Shri V. K. Mittal *Alternate*

Delhi Transco Ltd

Shri M.K. Chaudhary *Principal*

Shri R.M. Malhotra *Alternate*

Easun Ltd.

Shri George Punnoose *Principal*

Shri Muthukrishnan S. *Alternate*

Haryana Vidyut Prasaran Nigam Ltd.

Shri Maindiratta R.P. *Principal*

Shri Kumar M.L. *Alternate*

Madhya Pradesh Power Transmission

Shri Khorla B.P. *Principal*

Shri Shivraj Singh *Alternate*

IEEMA

Shri Amitabha Sarkar *Principal*

Ms Anita Gupta *Alternate*

Indian Institute of Science, Bangalore

Prof D. Thukaram *Principal*

Dr. L. Umanand *Alternate*

Indian Institute of Technology (Delhi)

Prof M.L. Kothari *Principal*

Dr. Sukumar Mishra *Alternate*

Jyoti Ltd

Dr. Thakkar K.K. *Principal*

Shri Narayanan T.K.L. *Alternate*

Madras Atomic Power Station

Shri Hariharan K *Principal*

Shri Sankaranarayanan N *Alternate*

Nuclear Power Corporation of India Ltd

Shri P. Ananda Rao *Principal*

Shri V. Subba Rao *Alternate*

NTPC Ltd

Shri A.K. Gupta *Principal*

Shri Abhijit Sen *Alternate*

Power Grid Corporation of India Ltd.

Shri Kailash Rathore *Principal*

Shri Rajil Srivastava *Alternate*

Siemens Ltd.

Shri Kuldeep Tickoo *Principal*

Shri Saurabh Srivastava *Alternate*

Tata Consulting Engineers

Ms L.R. Patil *Principal*

Shri A.J. Joshi *Alternate*

Tata Power Company Ltd

Shri J.D. Shrotri *Principal*

Shri T. Murlikrishna *Alternate*

Yokogawa Keonics Ltd.

Shri Narayanan R. *Alternate*

**COMPOSITION OF
ET 36 TOOLS AND EQUIPMENT FOR LIVE WORKING**

Power Grid Corporation of India Ltd.

Shri Rajesh Kumar *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

AP Trans Corporation

Director *Principal*

Bhakra Beas Management Board

Shri M.S. Tandon *Principal*

Shri S.K. Malik *Alternate*

Central Electricity Authority

Shri Narendra Singh *Principal*

Shri Farooque Iqbal, *Alternate*

Central Power Research Institute

Shri B. S. Ramesh *Principal*

Delhi Transco Ltd

Shri S.K. Sharma *Principal*

Shri Loveleen Singh *Alternate*

Haryana Vidyut Prasaran Nigam Ltd.

Shri V.B. Chaudhary *Principal*

Shri A.K. Diwan *Alternate*

TamilNadu Electricity Board

Superintending Engineer, *Principal*

Executive Engineer *Alternate*

Uttar Pradesh Power Transmission Corpn

Shri V.B. Singh *Principal*

Shri Surendra Narain *Alternate*

Escorts Ltd.

Shri Vinod Gupta *Principal*

Shri R.K. Kapoor *Alternate*

Maharashtra State Electricity

Shri S.A. Sattarke *Principal*

Shri R.H. Bidi *Alternate*

National Hydroelectric Power Corporation

Shri V.K. Singh *Principal*

Shri Lakhmi Chand *Alternate*

Nuclear Power Corporation of India Ltd

Shri K, P. Singh *Principal*

Shri Sandeep Y. Sarwate *Alternate*

NTPC Ltd

Smt Anita Pal *Principal*

Shri S.D. Singh *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Hariharan *Alternate*

**COMPOSITION OF
ET 37 CONDUCTORS AND ACCESSORIES FOR
OVERHEAD LINES**

Power Grid Corporation of India Limited

Shri Rajesh Kumar *Chairman*

Bureau of Indian Standards

Smt Manju Gupta *Member Secretary*

Apar Industries Limited

Shri Harish Singh *Principal*

Shri S.K. Jana *Alternate*

Bharat Aluminium Co. Ltd.

Shri S. Prasad *Principal*

Shri N. Balakrishnan *Alternate*

Shri Kamal Karmakar *Second Alternate*

Cable & Conductor Mfrs. Association of

Shri Sharma Alok *Principal*

Central Board of Irrigation & Power

Shri S.C. Nakra *Principal*

Shri Vishan Dutt *Alternate*

Central Electricity Authority

Shri D.K Jain *Principal*
Alternate

Shri R.K Tiwari *Alternate*

CESC Limited

Shri Arup Dutta Gupta *Principal*

Shri Tarun Kumar *Alternate*

Central Power Research Institute

Shri Anantha Babu M.D *Principal*

Shri D. Revanna *Alternate*

Development Commissioner Micro, Small

Shri R K Rai *Principal*

Shri A.K. Verma *Alternate*

Shri M U Farooq *Second Alternate*

Delhi Transco Ltd

Shri Sethi K.S. *Principal*

Shri Shastri B.D. *Alternate*

Haryana Vidyut Prasaran Nigam Ltd.

Shri Kausik H.C. *Principal*

Shri Gaba A.C. *Alternate*

Madhya Pradesh Power Transmission

Shri Tiwari R.K. *Principal*

Shri Ashok Kumar Bajpai *Alternate*

Maharashtra State Transco Ltd

Shri Hirlekar A.M. *Principal*

SHRI Shri Gaba A.C *Alternate*

Uttar Pradesh Power Transmission Corpn

Shri Alimchandani M.B. *Principal*

Shri Bhatia Y.K. *Alternate*

EMI Transmission Pvt. Ltd.

Nomination Awaited *Principal*

Galada Power & Telecommunication Ltd.

Shri Galada D.C. *Principal*

Shri Parekh E.K. *Alternate*

Shri Purushothama *Second*

Hindusthan Vidyut Products Ltd.

Shri Jhunjhunwala M.K. *Principal*

Shri Gupta O.P *Alternate*

IEEMA

Nomination Awaited *Principal*

Modern Malleable Ltd.

Shri Jhunjhunwala B.N. *Principal*

Shri Sengupta G. *Alternate*

National Hydroelectric Power Corporation

Shri Mathur R.B. *Principal*

Shri Y.D. Khanduja *Alternate*

National Test House

Shri Mathur S.K. *Principal*

Shri Somu P. *Alternate*

NTPC Ltd

Shri C.K. Thakur *Principal*

Smt I.J. Singh *Alternate*

Power Grid Corporation of India Ltd.

Shri Agarwal K.K. *Principal*

Shri Rajesh Kumar *Alternate*

Research Design & Standards Organisation

Nomination Awaited *Principal*

Nomination Awaited *Principal*

Rural Electification Corporation Ltd.

Shri Kumar Dinesh *Principal*

Shri Hariharan P.S. *Alternate*

Sterlite Technologies Ltd

Shri TAN Reddy *Principal*

Shri T Ganesh Kumar *Alternate*

Shri Rakesh Shankar *Second Alternate*

Shri Siraj Bhattacharya *Second Alternate*

Tag Corporation

Shri Gopalan R.V. *Principal*

Shri Chari T. Vivek *Alternate*

The Tata Power Co Ltd,

Shri Bhisey P.P. *Principal*

Shri S.V. Deshmukh *Alternate*

Telecom Engineering Centre

Shri U.N. Bajpayi *Principal*

Shri A K Vohra *Alternate*

Tamil Nadu Electricity Board

Principal

Alternate

**COMPOSITION OF
ET 39 FUSES**

Larsen & Toubro Ltd

Shri H.T. Mistry *Chairman*

Bureau of Indian Standards

Ms Nishat S. Haque *Member Secretary*

Cooper Bussmann India Pvt. Ltd

Shri Aravind. C *Principal*

Shri K. Sakthidharan *Alternate*

Central Electricity Authority

Smt Alok Gupta *Principal*

Shri R.K. Verma *Alternate*

Central Power Research Institute

Shri M. K. Wadhvani *Principal*

Shri B.V. Raghavaiah *Alternate*

Shri B. R. Ravishankar *Second Alternate*

Central Public Works Department

Shri SE (E), PLP *Principal*

Shri EE (E), S&S *Alternate*

Directorate General of Supplies &

Shri R.S. Pandey *Principal*

Shri P.M. Wanzari *Alternate*

Maharashtra State Transco Ltd

Shri Joshi R.B. *Principal*

Punjab State Electricity Board

Shri Pabla R.S. *Principal*

Shri Gupta S.K. *Alternate*

TamilNadu Electricity Board

Supertending Engg *Principal*

Executive Engg *Alternate*

Eon Electric Limited

Shri P.K. Ranade *Principal*

Shri Vinay Mahendru *Alternate*

GE India Industrial Pvt Ltd.

Shri B. Suresh *Principal*

Shri Anil Kumar Pandit *Alternate*

IEEMA

President (Switchgear) *Principal*

Shri J. Pande *Alternate*

Shri Kaul C.J. *Alternate*

Jyoti Ltd

Shri Desai V.B. *Principal*

Shri Gajjar N.K. *Alternate*

Larsen & Toubro Ltd

Shri C.S. Kore *Principal*

Shri G.R. Shetye *Alternate*

MERSEN India Pvt Ltd

Shri Ranga Rao Naidu *Principal*

Shri Santosh R. *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Hariharan *Alternate*

Siemens Ltd.

Shri Baban Shinde *Principal*

Shri Advait Sukhtankar *Alternate*

Tata Consulting Engineers

Shri V.K. Jain *Principal*

Shri Utpal Priyadarshi *Alternate*

Western India Switchgear Mfrs.

Shri Nayan N. Shah *Principal*

Shri Shashin N. Shah *Alternate*

**ANNEX
COMPOSITION OF
ET 40 HVDC POWER SYSTEMS**

In Personal Capacity

Shri Prasher V.K. *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

ABB Ltd.

Shri R.S. Moni *Principal*

Areva T&D India Ltd (ALSTOM)

Shri Rakesh Singh *Principal*

Dr. Mepal Patel *Alternate*

Bharat Heavy Electricals Ltd.

Shri J.S. Kuntia *Principal*

Shri S.K. Gupta *Alternate*

Central Electricity Authority

Dr. Prabhat Mohan *Principal*

Shri Director (Substation) *Alternate*

Crompton Greaves Ltd.

Shri Lakhiani V.K. *Principal*

Central Power Research Institute

Smt. K. S. Meera *Principal*

Smt. J. Sreedevi *Alternate*

AP Transmission Company

Shri Gopalchari *Principal*

Shri Laxman Rao. T. *Alternate*

Maharashtra State Transco Ltd

Shri Nadkarni J.V. *Principal*

Shri Ahfaz M. *Alternate*

Uttar Pradesh Power Transmission Corpn

Shri Dinesh Chandra *Principal*

Shri S.L. Ukil *Alternate*

Shri Ravindra Kumar Sharma *Second Alternate*

Representative of ET 19

NOMINATION *Principal*

Representative of ET 20

Nomination Awaited *Principal*

Representative of ET 30

Shri Kasturi K *Principal*

Representative of ET 31

Shri Mahendroo P.N. *Principal*

Representative of ET 37

Shri Kaushik H.C. *Principal*

Indian Institute of Science, Bangalore

Prof Nagabhushana G.R. *Principal*

Dr. Satish L. *Alternate*

Larsen & Toubro Ltd

Shri S. Rajavel *Principal*

Shri D. Maheswaran *Alternate*

NTPC Ltd

Shri Ajit Kumar *Principal*

Shri Pramod Kumar *Alternate*

Power Grid Corporation of India Ltd.

Shri R.K. Chauhan *Principal*

Shri M.R. Chauhan *Alternate*

Siemens Ltd.

Shri Sunil Lalla *Principal*

Shri Rajesh Suri *Alternate*

Tata Consulting Engineers

Shri K.G. Krishnamurthy *Principal*

Shri N.D. Chaoji *Alternate*

Tamil Nadu Electricity Board

Shri Chief Engineer *Principal*

Shri *Alternate*

W.S. Industries (India) Ltd

Shri P. Sridharan *Principal*

Shri N.V. Ramkumar *Alternate*

ANNEX

COMPOSITION OF

ET 42 WIND TURBINES

Ministry of New and Renewable Energy

Dr. S. Gomathinayagam *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

Bharat Heavy Electricals Ltd.

Nomination Awaited *Principal*

Central Power Research Institute

Shri S. Shyam Sundar *Principal*

Centre for Wind Energy Technology(Stds. &

Shri A. Senthil Kumar *Principal*

Centre for Wind Energy

Shri S.A. Mathew *Principal*

TamilNadu Electricity Board

Chief Engineer *Principal*

Superintending Engineer *Alternate*

Enercon (India) Ltd.

Shri M.P. Ramesh *Principal*

Indian Institute of Science, Bangalore

Prof V.T. Ranganathan *Principal*

Dr Vinod Johr *Alternate*

Indian Institute of Technology (Delhi)

Prof Bhatt *Principal*

Indian Institute of Technology (MUMBAI)

Prof B.G. Fernandes *Principal*

Jopasana Software and Systems Pvt. Ltd

Nomination Awaited *Principal*

Karnataka Power Corporation Ltd.

Shri G. Rathnamma *Principal*

Maharashtra State Electricity Distribution

Shri D.D. Wangikar *Principal*

National Aerospace Laboratories

Dr. J. J. Isaac *Principal*

Shri Kanakamuthu *Alternate*

National Productivity Council

Nomination Awaited *Principal*

RRB Energy Ltd.

Shri Sarvesh Kumar *Principal*

Shri K. Sriramalingam *Alternate*

Rajasthan Renewable Energy Corporation

Shri Sunit Mathur *Principal*

Shri Mukesh Vyas *Alternate*

Suzlon Energy Ltd.,

Shri Chintan Shah *Principal*

The Energy and Resources Institute

Shri Mahesh Vipradas *Principal*

Shri Amit Kumar *Alternate*

Tata Power Company Ltd

Shri Rajiv B. Samant *Principal*

Shri Paresb Sahasrabndhe *Alternate*

COMPOSITION OF ELECTROTECHNICAL DIVISION COUNCIL (ETDC)

Bureau of Energy Efficiency		Confederation of Indian Industry	
Dr Ajay Mathur	<i>Chairman</i>	Shri Narang G.C.	<i>Principal</i>
Bureau of Indian Standards		Shri Rajat Nandi	<i>Alternate</i>
Shri R.K. Trehan	<i>Member Secretary</i>	Central Pollution Control Board	
ABB Ltd.		Nomination Awaited	<i>Principal</i>
	<i>Principal</i>	Central Power Research Institute	
Dr. Satyanarayana P.	<i>Alternate</i>	Dr R S Shivakumara	<i>Principal</i>
Association of Indian Dry Cell		Shri M A Ansari	<i>Principal</i>
Shri S. Kumaraswami	<i>Principal</i>	Central Public Works Department	
Bureau of Energy Efficiency		Shri K.K. Sharma	<i>Principal</i>
Chairman of the Committee	<i>Principal</i>	Shri M.K. Verma	<i>Alternate</i>
Shri Shri S.P. Garnaik	<i>Alternate</i>	Development Commissioner Micro, Small	
Bharat Heavy Electricals Ltd.		Shri A.K. Verma	<i>Principal</i>
Shri Babu B. Y.	<i>Principal</i>	Ministry of Defence	
Shri Aron A.C	<i>Alternate</i>	Lt. Gen MC Badhani,	<i>Principal</i>
Central Board of Irrigation & Power		Maj.	<i>Alternate</i>
Shri Kanjalia V. K.	<i>Principal</i>	Delhi Electricity Regulatory Commission	
Shri Wahi P. P.	<i>Alternate</i>	Nomination Awaited	<i>Principal</i>
Central Electricity Authority		Directorate General of Mines Safety	
Dr Prabhat Mohan	<i>Principal</i>	Shri Dharmendra Kumar	<i>Principal</i>
Shri P K Mishra	<i>Alternate</i>	Shri B.K. Panigrahi	<i>Alternate</i>
Chief Electrical Inspectorate (Orissa)		Directorate General of Supplies &	
Shri Jera S.K.	<i>Principal</i>	Shri S.K. Kataria	<i>Principal</i>
Shri Mohanty G.M.	<i>Alternate</i>	Shri P. Singhal	<i>Alternate</i>
Chief Electrical Inspectorate (Tamil Nadu)		Shri Anil Gupta	<i>Second</i>
<i>Alternate</i>		Department of Industrial Development	
Shri N. Thiruvazhi Marpha	<i>Principal</i>	Shri S.K. Jain	<i>Principal</i>
Shri P. Balasubramanian	<i>Alternate</i>	Shri Yusufzai Khan M.Z.	<i>Alternate</i>
CESC Limited		Delhi Transco Ltd	
Shri Aurobinda Basu	<i>Principal</i>	Shri Bhupinder Nath,	<i>Principal</i>
Shri Jayanta Ranjan	<i>Alternate</i>	Shri V.K. Garg, DGM(Tech.)	<i>Alternate</i>
Crompton Greaves Ltd.		Kerala Electricity Board	
Shri Dileep Bhawe	<i>Principal</i>	Nomination Awaited	<i>Principal</i>
Shri Govindan T.P.	<i>Alternate</i>		

Punjab State Electricity BoardChief Engineer/MM *Principal*Chief Purchase Officer *Alternate***Electrical Contractors Association of**Shri Kamlesh Shah *Principal*Shri Pradeep Shah *Alternate*Shri Satish Y. Kazi *Second Alternate***Engineers India Ltd.**Shri JM Singh Baweja *Principal*Shri N. Sethi *Alternate***Electric Lamp & Component Mfrs. Assn of**Shri Shyam Sujan *Principal*Shri H.S. Mamak *Alternate*Shri Rajeev Chopra *Second Alternate***Electrical Research & Development**Shri T P Govindan *Principal*Dr. Krishnamoorthy P.A. *Alternate***Federation of Association of Small***Alternate*Shri Ramesh Khanna *Principal*President *Alternate***IEEMA**Shri P.V. Krishna *Principal*Shri J. Pande *Alternate***In personal Capacity**Shri P.K.Mukherjee *Principal***Indian Ports Association**Shri Eddy Rodrigues *Principal*Shri Sudhakar K.R. *Alternate***Indian Society of Lighting Engineers**Shri Venkataramani S. *Principal***Mazagon Dock Limited**Shri Vinod Kamra *Principal*Shri Biju George *Alternate***Mormugao Port Trust**Nomination Awaited *Principal***Voluntary Organisation in Interest of**Shri Wadhwa H *Principal*Shri K C Chaudhary *Alternate***National Hydroelectric Power Corporation**Shri Ratish Kumar *Principal*Shri Janardan Choudhary *Alternate***National Physical Laboratory**Shri Mittal M.K. *Principal***National Test House**Smt Bhakta Uma *Principal*Shri Dutta D.K. *Alternate***NTPC Ltd**Shri Pramod Kumar *Principal*Shri Dinakar Devate *Alternate***Power Grid Corporation of India Ltd.**Shri Bhatnagar M.C. *Principal*Shri V.K. Prasher, *Principal***Research Design & Standards Organisation**Shri A L Mathur *Principal*Shri Kishore Kumar *Alternate*Shri Sanjiv Swarup *Second***Rural Electification Corporation Ltd.**Shri Dinesh Kumar *Principal*Shri P.S. Hariharan *Alternate***Reliance Energy Ltd.**Shri Krishna kumar P, *Principal***Standardisation Testing & QC Directorate**Nomination Awaited *Principal***The Tata Power Co Ltd,**Shri D.A. Sathe, *Principal*Shri D. Raina *Alternate***Tata Consulting Engineers**Shri Rangnekar A.D *Principal*Shri Chief Electrical *Alternate***Telecom Engineering Centre**Shri Raman Radhey *Principal*

**COMPOSITION OF
ET 01 BASIC ELECTROTECHNICAL STANDARDS**

In Personal Capacity

Prof (Dr) Mukhopadhyay S. *Chairman*

Bureau of Indian Standards

Smt Manju Gupta *Member Secretary*

ABB Ltd.

Dr Shendre Yogesh *Principal*

Shri Khandkar A.A. *Alternate*

Bharat Heavy Electricals Ltd.

Shri S. Meetna *Principal*

Shri S.G. Bodake *Alternate*

Central Electricity Authority

Dr Prabhat Mohan *Principal*

Central Power Research Institute

Ms Shivakumara Aradhya *Principal*

Dr B. Gunasekaran *Alternate*

Central Public Works Department

Shri *Principal*

Shri Verma M.K. *Alternate*

DG Factory Advisory Services & Labour

Shri H. Vishvanathan *Principal*

Shri Subash Chandra *Alternate*

Engineers India Ltd.

Shri J.M. Singh Baweja *Principal*

Shri U.A. Patro *Alternate*

Electrical Research & Development

Shri P.A. Krishnamurthy *Principal*

Shri Trivedi U.C. *Principal*

IEEMA

Shri Pande J. *Alternate*

Larsen & Toubro Ltd

Shri Sharma S.P. *Principal*

Nuclear Power Corporation of India Ltd

Shri P. Ananda Rao *Principal*

Shri Sanjoy Sarkar *Alternate*

National Physical Laboratory

Dr V.N. Ojha *Principal*

National Test House

Smt Uma Bhakta *Principal*

Shri S.K. Dutta *Alternate*

Power Grid Corporation of India Ltd.

Shri Subir Sen *Principal*

Shri Y.K. sehgal *Alternate*

Research Design & Standards Organisation

Shri B. S. Bodh *Principal*

Shri Bhatnagar Sumit *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Hariharan *Alternate*

Tamil Nadu Electricity Board

Shri C. Santhana Gopala *Principal*

Shri K. Gopinathan *Alternate*

Yokogawa Keonics Ltd.

Shri Balasubramanian T. *Principal*

**COMPOSITION OF
ET 02 SOLID ELECTRICAL INSULATING MATERIALS**

In personal Capacity

Dr. O.P. Chabra *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

ABB Ltd.

Shri Gagan Mehra *Principal*

Birla 3 M

Nomination awaited *Principal*

Bhabha Atomic Research Centre

Shri Ramteke P.K. *Principal*

Shri Santosh S. *Alternate*

Beck India Ltd.

Shri Kulthe Abhay *Principal*

Shri S.V. Joshi *Alternate*

Bharat Heavy Electricals Ltd.

Shri P.P. Varadacharyulu *Principal*

Shri R. Vijay Kumar *Alternate*

Shri Satyanarayan K. *Second Alternate*

Central Electricity Authority

Shri B. Tiwary *Principal*

Shri B. R. Alwani *Alternate*

Cummins Generators

Nomination awaited *Chairman*

Central Power Research Institute

Smt. S. Ganga *Principal*

Dr. Rajan Sundar *Alternate*

Ciba Specialty Chemicals (India) Ltd.

Nomination awaited *Principal*

Electrical Research & Development

Dr. Krishna Moorthy P.A. *Principal*

Dr J. Varughese *Alternate*

GE Plastics

Nomination awaited *Principal*

Voluntary Organisation in Interest of

Shri T.C. Kapoor *Principal*

IEEMA

Ms. Indra Prem Menon *Principal*

Shri J. Pande *Alternate*

Indian Institute of Science, Bangalore

Nomination awaited *Principal*

Lakshmanan Isola Ltd

Shri Basu A.K. *Principal*

Shri Shukla A.K. *Alternate*

National Hydroelectric Power Corporation

Shri Nain Singh *Principal*

Shri S. K. Sandhu *Alternate*

National Test House

Shri Md. Najmuddin *Principal*

Shri S.K. Menon *Alternate*

NTPC Ltd

Shri D.K. Chaturvedi *Principal*

Shri P.K. Basu *Alternate*

Power Grid Corporation of India Ltd.

Shri R.V. Holla *Principal*

Permali Wallace Ltd.

Shri Kodesai SK *Principal*

Dr. B. S. Parmar *Alternate*

Shriram Institute for industrial Research

Dr. P.K. Kaicker *Principal*

Dr. R.K. Raina *Alternate*

Siemens Ltd.

Shri Ashish Shere *Principal*

Shri R. Gopalkrishnan *Alternate*

Senapathy Whiteley Pvt. Ltd

Shri Tushar Udgata *Principal*

Shri S. A. Govindaraj *Alternate*

Universal Cables Ltd.

Nomination awaited *Chairman*

**COMPOSITION OF
ET 03 FLUIDS FOR ELECTROTECHNICAL**

In Personal Capacity		Dr. D. Ravindra	<i>Alternate</i>
Shri S. Sridhar	<i>Chairman</i>	Shri Pattanashetti V.V.	<i>Second</i>
<i>Alternate</i>			
Bureau of Indian Standards		U.P. Rajya Vidyut Utpadan Nigam Ltd	
Shri Sumit Sengar,	<i>Member Secretary</i>	Shri Girish	<i>Principal</i>
ABB Ltd.		ECE Industries Ltd.	
Shri P. Ramachandran	<i>Principal</i>	Nomination awaited	<i>Principal</i>
Shri Tarun Garg,	<i>Alternate</i>	ELICO Limited	
Apar Industries Limited		Shri T.V. Shiva K. Rao	<i>Principal</i>
Dr. T.C.S.M. Gupta	<i>Principal</i>	EMCO Ltd.	
Shri Jagannathan D.V.	<i>Alternate</i>	Nomination awaited	<i>Principal</i>
Shri Sanjay Abhyankar	<i>Second Alternate</i>	Electrical Research & Development	
Areva Transmission and Distribution		Dr P.A. Krishnamoorthy	<i>Principal</i>
Shri M. Vijayakumaran	<i>Principal</i>	Dr. Patel M.J.	<i>Alternate</i>
Shri Abhilash Mishra	<i>Alternate</i>	IEEMA	
Bharat Heavy Electricals Ltd.		Shri Pande J.	<i>Principal</i>
Shri R.K. Tiwari	<i>Principal</i>	Ms. Gupta Anita	<i>Alternate</i>
Shri Dharmendra Varyani	<i>Alternate</i>	Indian Oil Corporation Ltd.	
Shri S.K. Mahajan	<i>Second Alternate</i>	Dr. Mookan R.T.	<i>Principal</i>
Bharat Petroleum		Dr. A. N. Jaiswal	<i>Alternate</i>
Nomination awaited	<i>Principal</i>	Nuclear Power Corporation of India Ltd	
B.R. Industrial Services		Shri ANJANEYULU B.	<i>Principal</i>
Shri Shirish L. Deshmukh	<i>Principal</i>	Shri S. K. Tiwari	<i>Alternate</i>
Central Electricity Authority		NTPC Ltd	
Dr. Prabhat Mohan	<i>Principal</i>	Shri Dinkar Devate	<i>Principal</i>
Dr. Director (Substation),	<i>Alternate</i>	Shri S. D. Singh	<i>Alternate</i>
CESC Limited		Power Grid Corporation of India Ltd.	
Shri Chakraborty Sanjay	<i>Principal</i>	Shri B.N. De. Bhowmic	<i>Principal</i>
Shri Bose R.N.,	<i>Alternate</i>	Shri Gunjan Agarwal	<i>Alternate</i>
Crompton Greaves Ltd.		Research Design & Standards Organisation	
Dr Venkatatasami. A	<i>Principal</i>	Shri Sujeet Mishra	<i>Principal</i>
Shri Krishnan S.	<i>Alternate</i>	Shri Arvind Kumar	<i>Alternate</i>
Central Power Research Institute			
Smt. Vijayakumari.S	<i>Principal</i>		

Raj Petro Specialities Pvt. Ltd.

Shri Nalin J Nanavati *Principal*

Shr Mangesh G. Bhurke *Alternate*

Savita Chemicals Ltd.

Shri Ramnath Nayak *Principal*

Dr C. S. Narasimhan *Alternate*

Shri Vinod K. Rishi *Second Alternate*

Siemens Ltd.

Dilip Khandekar *Principal*

Tamil Nadu Electricity Board

Chief Engineer *Principal*

Executive Engineer *Alternate*

Tata Power Company Ltd

Nomination awaited *Principal*

Universal Petrochemicals Ltd.

Shri Halwasiya P.K. *Principal*

Shri Smt Aparna Naik *Alternate*

**COMPOSITION OF
ET 06 ELECTRICAL INSULATORS AND ACCESSORIES**

North East Transmission Company Ltd.

Shri M. Krishnakumar *Chairman*

Bureau of Indian Standards

Smt Manju Gupta *Member Secretary*

Aditya Birla Insulators Co.

Shri Vikas Khosla *Principal*

Shri D.N. Joshi *Alternate*

A P Transco

Shri S. Subramaniam *Alternate*

Areva Transmission and Distribution

Smt Elizabeth Johnson *Principal*

Shri S. Mohan *Alternate*

Bharat Heavy Electricals Ltd.

Shri S. Jithender Reddy *Principal*

Shri Upendra Deep *Alternate*

Shri Aseem Dhamijia *Alternate*

Central Electricity Authority

Shri Narendra Singh *Principal*

Shri S.K. Ray Mohapatra *Alternate*

Central Power Research Institute

Dr. N. Vasudev *Principal*

Shri B.M. Mehra *Alternate*

Ministry of Defence

Shri Dr. Ram Verma *Principal*

Shri Arvind Kumar *Alternate*

Department of Telecommunications

Shri Pradeep Nettur *Principal*

Shri J.S. Yadav *Alternate*

West Bengal State Electricity Board

Nomination awaited *Principal*

Electrical Research & Development

Shri A.S. Khopkar *Principal*

Smt S.S. Godkhindi *Alternate*

GETCO

Nomination awaited *Principal*

Goldstone Teleservices Ltd

Col (R) M B Jauhri *Principal*

Shri B Kiran Kumar Reddy *Alternate*

IEEMA

Shri P. Sridharan *Principal*

Shri J. Pande *Alternate*

Insulators & Electricals Ltd

Nomination awaited *Principal*

Jaipur Glass & Potteries

Shri Romana Karnail Singh *Principal*

Shri Data Daya Kishan *Alternate*

Karnataka Power Transmission Corpn Ltd

Shri Krishnamurthy Naik K. *Principal*

Shri K.Lakshminarayana *Alternate*

Modern Malleable Ltd.

Shri B.N. Jhunjunwala *Principal*

Shri A.N. Chaudhuri *Alternate*

Modern Insulators Ltd.

Shri L.K. Sachdeva *Principal*

Shri Avinash Chaurasia *Alternate*

New Delhi Power Ltd

Shri Ashok Saraf *Principal*

National Test House

Shri S.K. Mathur *Principal*

Shri P.K. Bera *Alternate*

NTPC Ltd

Shri S.D. Singh *Principal*

Ms Pal Anita *Alternate*

Power Grid Corporation of India Ltd.

Shri Rajesh Kumar *Alternate*

Punjab State Transmission Corp. Ltd,

Chief Engineer/TL *Principal*

Superintending Engineer, *Alternate*

Research Design & Standards Organisation

Shri B.S. Bodh *Principal*

Shri Sumit Bhatnagar *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Havihavan *Alternate*

Tag Corporation

Shri R.T. Chari *Principal*

Shri R.V.Gopalan *Alternate*

The Tata Power Co Ltd,

Shri P.P.Bhisey *Principal*

Shri S.V. Deshmukh *Alternate*

W.S. Industries (India) Ltd

Shri P. Sridharan *Principal*

Shri N.V. Ramkumar *Alternate*

**COMPOSITION OF
ET 07 LOW VOLTAGE SWITCHGEAR AND
CONTROLGEAR**

Central Power Research Institute		Shri R.K. Rai	<i>Principal</i>
Shri Anupam Awasthi	<i>Chairman</i>	Shri A.K. Verma	<i>Alternate</i>
Bureau of Indian Standards		Shri M.U. Farooq	<i>Second</i>
<i>Alternate</i>			
Smt Haque S. Nishat	<i>Member Secretary</i>		
BCH Electric Ltd.		Directorate General of Supplies &	
Shri Patro UAK	<i>Principal</i>	Shri Mishra P.K.	<i>Principal</i>
Shri D. Bhattacharjee	<i>Alternate</i>	Shri Subramanian V.	<i>Alternate</i>
Brihan Mumbai Electric Supply &		TamilNadu Electricity Board	
Shri R.K. Johri	<i>Principal</i>		<i>Principal</i>
Shri U.V. Vajandar	<i>Alternate</i>		<i>Alternate</i>
Bharat Heavy Electricals Ltd.		Elmex Controls Pvt Ltd	
Shri Vijaya Bhaskar	<i>Principal</i>	Shri Dilip Trivedi	<i>Principal</i>
Ms Neelam Bhogal	<i>Alternate</i>	Shri Robin Virani	<i>Alternate</i>
Shri K. V. Sarma	<i>Second Alternate</i>	Eon Electric Limited	
Central Electricity Authority		Shri Ranade P.K.	<i>Principal</i>
Shri T.K. Saha	<i>Principal</i>	Shri Mahendru Vinay	<i>Alternate</i>
Shri Vivek Goyal	<i>Alternate</i>	Electrical Research & Development	
CESC Limited		Dr Shah M.K.	<i>Principal</i>
Shri Debasis Gangopadhyay	<i>Principal</i>	Shri Gautam Som	<i>Alternate</i>
Consumer Guidance Society of India		GE Energy Industrial Solutions	
Shri Anil Dhumak	<i>Principal</i>	Shri S.N. Sharama	<i>Principal</i>
Confrols and Switchgear Co.		Shri Anil Pandit	<i>Alternate</i>
Shri Nadeem Khan	<i>Principal</i>	IEEMA	
Shri K. Venugopal	<i>Alternate</i>	Shri Sarkar A.	<i>Principal</i>
Central Power Research Institute		Smt Anita Gupta	<i>Alternate</i>
Shri B.R. Ravishankar	<i>Principal</i>	In personal Capacity	
Shri Anupam Awasthi	<i>Alternate</i>	Shri V. Ramachandran	<i>Principal</i>
Shri B.M. Mehra	<i>Second Alternate</i>	Jasper Engineers Pvt Ltd	
Central Public Works Department		Shri Mathur Arvind	<i>Principal</i>
Shri CE(E)PLP.	<i>Principal</i>	Shri Subhash C. Nijhawan	<i>Alternate</i>
Shri Sandhu H.S	<i>Alternate</i>	Larsen & Toubro Ltd	
Development Commissioner Micro, Small		Shri S.P. Sharma	<i>Principal</i>
		Shri M.K. Patki	<i>Alternate</i>

Legrand (India) Pvt Ltd.

Shri Mukesh Chawla *Principal*
Shri Suresh Deotalu *Alternate*
Shri Dhananjay Shindey *Second Alternate*

Nuclear Power Corporation of India Ltd

Shri M.K. Kawa *Principal*
Shri Tewari R.N. *Alternate*

NTPC Ltd

Smt C. Saroj *Principal*
Shri Talwar V.K. *Alternate*

Power Grid Corporation of India Ltd.

Shri R.K. Kakkar *Principal*
Shri Sudhakar Gupta *Alternate*

Rural Electification Corporation Ltd.

Shri Kumar Dinesh *Principal*
Shri Hariharan P.S. *Alternate*

Reliance Infrastructure Ltd

Shri Rabindran Singh *Principal*
Shri Binaya Sahoo *Alternate*

Steel Authority of India Ltd.

Shri Harsharan Singh *Principal*

Schneider Electric

Shri Babu Gajendra *Principal*
Shri Salil Pradhan *Alternate*

Siemens Ltd.

Shri Dhananjaya Gokhale *Principal*
Shri Abhijit Biswas *Alternate*
Shri Gautam Shetye *Second Alternate*

Small Scale MCB Manufacturers Welfare

Shri R.K. Gupta *Principal*
Shri Rakesh Jain *Alternate*

Tata Consulting Engineers

Shri Tahillaney G.S. *Principal*
Shri Khatavkar M.H *Alternate*

Voluntary Organisation in Interest of

Shri T.C. Kapoor *Principal*

Western India Switchgear Mfrs.

Shri Shah Nayan N. *Principal*
Shri Shashin N. Shah *Alternate*

**COMPOSITION OF
ET 08 HIGH VOLTAGE SWITCHGEAR AND
CONTROLGEAR**

Power Grid Corporation of India Ltd.		Shri M.K. Wadhvani	<i>Alternate</i>
Shri R.N. Nayak	<i>Chairman</i>	Shri B.V. Raghavaiah	<i>Second</i>
<i>Alternate</i>			
Bureau of Indian Standards		Maharashtra State Transco Ltd	
Smt Nishat S. Haque	<i>Member Secretary</i>	Chief Engineer(EHVT)	<i>Principal</i>
ABB Ltd.		Engineers India Ltd.	
Shri Patel G R	<i>Principal</i>	Shri J.M.Baweja Singh	<i>Principal</i>
Shri Dukkaiaappan S.	<i>Alternate</i>	Shri B.R. Bhogal	<i>Alternate</i>
Areva T&D India Ltd (ALSTOM)		HIVELM INDUSTRIES	
Shri N. Balasubramanian	<i>Principal</i>	Shri Ramanna Prasad	<i>Principal</i>
Shri Rahul Parbhane	<i>Alternate</i>	IEEMA	
Brihan Mumbai Electric Supply &		Shri Amitabha Sarkar	<i>Principal</i>
Shri S.R. Khedkar	<i>Principal</i>	Ms Anita Gupta	<i>Alternate</i>
Shri G.M. Bhagat	<i>Alternate</i>	In personal Capacity	
Bharat Heavy Electricals Ltd.		Shri B N Kishore	<i>Principal</i>
Ms Neelam Bhogal	<i>Principal</i>	National Hydroelectric Power Corporation	
Shri V.K. Mehta	<i>Alternate</i>	Shri Arvind Bhatt	<i>Principal</i>
Shri B. Yellaiah Babu	<i>Second Alternate</i>	Shri Kumar Ratish	<i>Alternate</i>
Shri K. V. Sarma	<i>Chairman</i>	Nuclear Power Corporation of India Ltd	
Central Board of Irrigation & Power		Shri Agarkar S.B.	<i>Principal</i>
Shri P.P. Wahi	<i>Principal</i>	Shri Sankaranarayanan N.	<i>Alternate</i>
Shri Vishan Dutt	<i>Alternate</i>	NTPC Ltd	
Central Electricity Authority		Shri A.K. Gupta	<i>Principal</i>
Director (Substation)	<i>Principal</i>	Shri S.P. Hambarde	<i>Alternate</i>
Dy. Director (Substation)	<i>Alternate</i>	Power Grid Corporation of India Ltd.	
CESC Limited		Shri M C Bhatnagar	<i>Principal</i>
Shri Abhijit Bose	<i>Principal</i>	Shri Gangadharan	<i>Alternate</i>
Shri Jaideep Basu Roy	<i>Alternate</i>	Shri R.K. Tyagi	<i>Second</i>
<i>Alternate</i>		Rajasthan Rajya Vidyut Prasaran Nigam	
Crompton Greaves Ltd.		Shri Ram B.	<i>Principal</i>
Shri Potnis S.B.	<i>Principal</i>	Shri Jangid D.S	<i>Alternate</i>
Shri S.S. Kale	<i>Alternate</i>		
Central Power Research Institute			
Shri Nandakumar V.S.	<i>Principal</i>		

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri Hariharan P.S. *Alternate*

Reliance Infrastructure Ltd

Shri Sajjad Rizvi *Principal*

Shri B. Baburaj *Alternate*

S&S Power Switchgear Ltd

Shri Kalyanasundaram S. *Principal*

Schneider Electric

Shri Sivakumaran *Principal*

Shri Devraj Manna *Alternate*

Siemens Ltd.

Ms Sujata Paranjape *Principal*

Shri Gopa Srinivas *Alternate*

Tata Power Company Ltd

Shri P.K. Jain *Principal*

Ms A.S. Desai *Alternate*

**COMPOSITION OF
ET 09 POWER CABLES**

Central Power Research Institute		Shri A.K. Verma	<i>Alternate</i>
Shri Rama Prasath S.	<i>Chairman</i>	Shri Shri M U Farooq	<i>Second</i>
<i>Alternate</i>			
Bureau of Indian Standards		Ministry of Defence	
Smt Manju Gupta	<i>Member Secretary</i>	Shri R.N. Sinha, SE	<i>Principal</i>
Brihan Mumbai Electric Supply &		Col. R.N. Ballaney	<i>Alternate</i>
Shri D.S. Khalap	<i>Principal</i>	Directorate General of Mines Safety	
Shri N.N. Samuel	<i>Alternate</i>	Shri R. Ramachandiran	<i>Principal</i>
Bharat Heavy Electricals Ltd.		Shri B. N. Mishra	<i>Alternate</i>
Shri R.S.V. Nageshwara	<i>Principal</i>	Directorate General of Supplies &	
Shri A.V. Nagabhushan	<i>Alternate</i>	Shri Singhal P/	<i>Principal</i>
Central Board of Irrigation & Power		Shri Saleem A.	<i>Alternate</i>
Shri S.C. Nakara	<i>Principal</i>	TamilNadu Electricity Board	
Shri S.S. Alag	<i>Alternate</i>	Superintending Engineer	<i>Principal</i>
Cable Corporation of India Ltd.		Executive Engineer/CDD	<i>Alternate</i>
Shri Dutta S.K.	<i>Principal</i>	Reliance Energy Ltd	
Shri Rao. E.J.	<i>Alternate</i>	Shri Aggarwal Ravi	<i>Alternate</i>
Central Electricity Authority		Electrical Research & Development	
Director (Substation)	<i>Principal</i>	Shri Pandya N.R	<i>Principal</i>
AD-1	<i>Alternate</i>	Shri Patel Shailesh	<i>Alternate</i>
CESC Limited		Fort Gloster Industries Ltd.	
Shri Saibal Kumar Ghosh	<i>Principal</i>	Shri Karan S.K.	<i>Alternate</i>
Shri Kirit Rana	<i>Alternate</i>	Finolex Cables Ltd.	
Coal India Ltd.		Shri Pundlik C.B.	<i>Principal</i>
Shri Rai T.	<i>Principal</i>	Shri Kumar Naresh	<i>Alternate</i>
Shri Roy S.K.	<i>Alternate</i>	IEEMA	
Central Power Research Institute		Shri Vijay P. Karia	<i>Principal</i>
Smt Meena K.P.	<i>Principal</i>	Smt J. Pande	<i>Alternate</i>
Smt Thirumurthy	<i>Alternate</i>	Jaipur Vidyut Vitaran Nigam Ltd	
Central Public Works Department		Shri Arjun Singh	<i>Principal</i>
Shri Mukesh Vij	<i>Principal</i>	Lapp India Pvt Ltd	
Shri S.K. Chawla	<i>Alternate</i>	Shri Kumar Krishna S.	<i>Alternate</i>
Development Commissioner Micro, Small			
Shri Shri R K Rai	<i>Principal</i>		

NICCO Corporation Ltd.

Shri Saha Debasis *Principal*

Shri Bhattacharya Asitabha *Alternate*

NTPC Ltd

Shri Deepak Trehan *Principal*

Shri A. Mandal *Alternate*

Paramount Cables

Shri Marwaha R.K. *Principal*

Power Grid Corporation of India Ltd.

Shri Sudhakar Gupta *Principal*

Shri Bhaskar D.A *Alternate*

Polycab Industries

Shri K.S. Pillai *Principal*

Shri Anil Kumar *Alternate*

Shri Pinaki Loha *Second Alternate*

Raychem RPG Pvt Ltd.

Shri Amit Bhatia *Principal*

Shri Himanshu Sharma *Alternate*

Shri R.S. Anekar *Second Alternate*

Shriram Institute for industrial Research

Dr. Kaicker P.K. *Principal*

Shri Jain Pankaj *Alternate*

Tata Consulting Engineers

Shri Brahme H.G *Principal*

Shri I.R.Patil *Alternate*

Tata Power Company Ltd

Shri P Murugan *Principal*

Shri R.K. Sheth *Alternate*

Universal Cables Ltd.

Shri Agrawal R.C. *Principal*

**COMPOSITION OF
ET 10 PRIMARY CELLS AND BATTERIES**

National Physical Laboratory		Nomination awaited	<i>Principal</i>
Dr. Bhatia Gopal	<i>Chairman</i>	Gillette India Ltd	
Bureau of Indian Standards		Nomination awaited	<i>Principal</i>
Shri D Goswami	<i>Member Secretary</i>	Ministry of Commerce	
Association of Indian Dry Cell		Shri Zakaria Khan Yusufzai	<i>Principal</i>
Shri S. Kumaraswami	<i>Principal</i>	Nippo Batteries Co. Ltd.	
BPL FTA Energies (P) Ltd		Shri T.V. Subba Rao	<i>Principal</i>
Shri N. Ezhil Arasan	<i>Principal</i>	Shri V. Madhusudhan Reddy	<i>Alternate</i>
Central Electrochemical Research Institute		National Physical Laboratory	
Dr. Ananth M.V.	<i>Principal</i>	Dr. R B Mathur	<i>Alternate</i>
Dr. Venkatakrishnan N.	<i>Alternate</i>	National Test House	
Consumer Education and Research Centre		Shri D.K. Karmakar	<i>Principal</i>
Ms Shweta Mahajan	<i>Principal</i>	Shri S.B. Nandkumar	<i>Alternate</i>
Ms Shveta Sheth	<i>Alternate</i>	Panasonic Energy India Company Ltd.	
Ministry of Defence		Shri C.D. Mistry	<i>Principal</i>
Dr. Ram Verma	<i>Principal</i>	Shri R.J. Bhambhani	<i>Alternate</i>
Shri K. S. Yadav	<i>Alternate</i>	Voluntary Organisation in Interest of	
Directorate General of Supplies &		Shri H. Wadhwa	<i>Alternate</i>
DDQA	<i>Principal</i>	Shri Ashim Sanyal	<i>Second</i>
<i>Alternate</i>			
Shri Seneet Kumar	<i>Alternate</i>		
Electrical Research & Development			
Shri Satish S. Chetwani	<i>Principal</i>		
Shri Nailesh S. Kadia	<i>Alternate</i>		
Electronics Regional and Test Laboratory			
Shri Shri J P Vatsa	<i>Principal</i>		
Ms Poonam Singh	<i>Alternate</i>		
Euro Solo Energy Systems Ltd.			
Shri Shri C. Satyanarayana	<i>Principal</i>		
Shri Nikhil Chedda	<i>Alternate</i>		
Eveready Industries India Ltd.			
Dr. G. Roop Kumar	<i>Principal</i>		
Shri Vivek Kulkarni	<i>Alternate</i>		
Geep Batteries (I) Ltd.			

**COMPOSITION OF
ET 11 SECONDARY CELLS AND BATTERIES**

NTPC Ltd,		Directorate General of Mines Safety	
Shri Abhijit Sen,	<i>Chairman</i>	Shri R. Ramachandiran	<i>Principal</i>
Bureau of Indian Standards		Shri B.N. Mishra	<i>Alternate</i>
Shri Sumit Sengar	<i>Member Secretary</i>	Directorate General of Supplies &	
AMCO Batteries Limited		Shri P. Singhal	<i>Principal</i>
Shri S. Sankara Pandian	<i>Principal</i>	Shri Sanjeet Kumar	<i>Alternate</i>
Shri N. S. Pandurang	<i>Alternate</i>	DIT	
Amar Raja Batteries Ltd.		Sh. Arun Sachdeva	<i>Principal</i>
Shri C. Niranjan Kumar	<i>Principal</i>	Ms. Asha Nangia	<i>Alternate</i>
Shri Jasmeet Singh	<i>Alternate</i>	Department of Telecommunications	
Sh. Ramesh Banu C. B.	<i>Second Alternate</i>	Shri Jain K.K.	<i>Principal</i>
Bharat Battery Mfg. Co. Pvt. Ltd.		Shri Bhatia K.L.	<i>Alternate</i>
Shri Saha S.P.	<i>Principal</i>	Directorate of Tech. Dev. & Prod. (AIR)	
Shri Goswami B.K.	<i>Alternate</i>	WGCD Sharma S.B.	<i>Principal</i>
Central Electricity Authority		Shri C.V. Bhaskara	<i>Alternate</i>
Director (Substation)	<i>Principal</i>	Exide Industries Ltd.	
Dy Director (Substation)	<i>Alternate</i>	Dr. D. Sen Choudhury	<i>Principal</i>
Central Electrochemical Research Institute		Shri J. Sengupta	<i>Alternate</i>
Smt. Dr. N. Kalaiselvi	<i>Principal</i>	Shri A.D. Kang	<i>Second</i>
<i>Alternate</i>		HBL Power Systems Limited	
Dr. A. Manuel Stephan	<i>Alternate</i>	Shri Avnish Arora	<i>Principal</i>
Central Institute of Road Transport		Shri M. Raghavendra Readdy	<i>Alternate</i>
Shri Saste D.P.	<i>Principal</i>	High Energy Battereis (India) Limited	
Shri V. P. Godbole	<i>Alternate</i>	Dr. G.A. Pathanjali	<i>Principal</i>
Central Public Works Department		Shri J. Srirengarajan	<i>Alternate</i>
Shri P.K. Garg	<i>Principal</i>	Indian Cellular Association	
Shri M.K. Verma	<i>Alternate</i>	Shri Pankaj Mohindroo	<i>Principal</i>
Development Commissioner Micro, Small		Shri Ambrish Bakaya	<i>Alternate</i>
Shri R. K. Rai	<i>Principal</i>	Kirloskar Batteries Pvt. Ltd.	
Shri A.K. Verma	<i>Alternate</i>	Shri Sreedhara S.V.	<i>Principal</i>
Shri M U Farooq	<i>Second Alternate</i>	Shri B.S.Shrinivasan Rao	<i>Alternate</i>
Ministry of Defence			
Sh. Pyare Lal,	<i>Principal</i>		
Shri K. S. Yadav	<i>Alternate</i>		

Ministry of New & Renewable Energy

Dr. Pradeep Chandra Pant *Principal*

Shri Prabir Kumar Dash *Alternate*

Nuclear Power Corporation of India Ltd

Shri Roy S.K. *Principal*

Shri Jeorge Sebastian *Alternate*

National Test House

Shri D.K. Karmakar *Principal*

Shri S. Sinha *Alternate*

NTPC Ltd

Shri S. Samanta *Alternate*

Power Grid Corporation of India Ltd.

Shri Prasad Sai *Principal*

Telecom Engineering Centre

Shri Ram Krishna *Principal*

Smt. Laxmi *Alternate*

Tata Power Company Ltd

Shri D.S. Kudalkar *Principal*

Shri Ajay Desai *Alternate*

**COMPOSITION OF
ET 12 MEASURING EQUIPMENT FOR BASIC
ELECTRICAL QUANTITIES**

National Physical Laboratory

Shri Anil Saxena *Chairman*

Bureau of Indian Standards

Smt Manju Gupta *Member Secretary*

Automatic Electric Ltd.

Shri U.P. Tandel *Principal*

Shri Tandel U.P. *Alternate*

Shri Tendulkar D.H. *Alternate*

All India Instruments Mfrs & Dealers

Shri Goliya P.C. *Principal*

BSES Rajdhani Power Ltd.

Shri Subha Rao P.V. *Principal*

Shri Bhirud S.G. *Alternate*

Central Electricity Authority

Shri T.K. Saha *Principal*

Shri C.K. Kesana *Alternate*

CESC Limited

Shri Santanu Bhattacharya *Principal*

Shri Nilanjan Saha *Alternate*

Shri Siddhartha Mukherjee *Alternate*

Central Scientific Instruments

Dr Jaiswal V.K. *Principal*

Shri Pathania D.S. *Alternate*

Ministry of Defence

Brig M N Davaya *Principal*

Shri Manoj Kumar *Alternate*

Department of Industrial Policy &

Shri Jain S.K. *Principal*

Engineers India Ltd.

Shri N. Sethi *Principal*

Shri Arun Kumar *Alternate*

Elster Metering Private Ltd

Shri Prashant C. Karnik *Principal*

Shri Kanitkar A.P. *Alternate*

Electrical Research & Development

Smt. Padma Kumar *Principal*

Smt. G.V. Brahmhatt *Alternate*

Electronics Regional and Test Laboratory

Nomination Awaited *Principal*

Shri H.K.Mishra *Alternate*

Instrument Designs Development &

Nomination Awaited *Principal*

Institute for Design of Elec. Meas.

Shri Gujrathi Pradeep *Principal*

Larsen & Toubro Ltd

Shri Prabhakar C. *Principal*

Shri Shri Gupta R.K. *Alternate*

Meco Instruments Pvt. Ltd.

Shri Premchand Goliya *Principal*

Shri Goliya Kamal P. *Alternate*

North Delhi Power Ltd.

Nomination Awaited *Principal*

National Physical Laboratory

Dr. Dhake S.L. *Principal*

Dr. Kothari P.C. *Alternate*

National Test House

Shri A. Das *Principal*

Shri S.K. Menon *Alternate*

The Oriental Science Apparatus Workshops

Nomination Awaited *Principal*

Research Design & Standards Organisation

Nomination Awaited *Principal*

Rishab Instruments Pvt Ltd

Shri Danawale Sunil *Principal*

Shanti Electric Instruments

Shri Narendra Goliya *Principal*

Shri Mahesh P. Churi *Alternate*

Sharmasons Sakova Instruments Pvt. Ltd.

Shri Satish Sharma *Principal*

Shri Sharma Manish *Alternate*

**COMPOSITION OF
ET 13 EQUIPMENT FOR ELECTRICAL ENERGY
MEASUREMENT AND LOAD CONTROL**

Central Power Research Institute		Shri Santosh N. Katakwar	<i>Principal</i>
Shri N. Mugugesan	<i>Chairman</i>	Elster Metering Private Ltd	
Bureau of Indian Standards		Shri Prashant Karnik	<i>Principal</i>
Smt Gupta Manju	<i>Member Secretary</i>	Shri Deepak Naik	<i>Alternate</i>
Bureau of Energy Efficiency		Elymer International Pvt. Ltd	
Shri G. Pandian	<i>Principal</i>	Shri Jagmohan Jogishwar	<i>Principal</i>
Brihan Mumbai Electric Supply &		Electrical Research & Development	
Shri N.V. Bhandari	<i>Principal</i>	Shri K.T. Patel	<i>Principal</i>
Shri Sakpal S.M.	<i>Alternate</i>	Shri U.C. Trivedi	<i>Alternate</i>
Bharat Heavy Electricals Ltd.		Shri Vinod Gupta	<i>Second</i>
<i>Alternate</i>		Expert	
Shri G. N. Jagadesh Pradas	<i>Principal</i>	Shri Biswas Subrata	<i>Principal</i>
Shri M. Balasubramanian	<i>Alternate</i>	Genus Overseas Electronics Ltd.	
BSES Rajdhani Power Ltd.		Shri R.S. Rathore	<i>Principal</i>
Shri Bansal Rajesh	<i>Principal</i>	Shri Mayak Jain	<i>Alternate</i>
Shri Gitay Raj	<i>Alternate</i>	Genus Power Infrastructures Ltd	
Central Board of Irrigation & Power		Shri Vinod Tiwari	<i>Principal</i>
Shri K.P. Singh	<i>Principal</i>	HPL-Electric and Power Pvt Ltd	
Shri S.K. Batra	<i>Alternate</i>	Shri Jain C.P.	<i>Principal</i>
Central Electricity Authority		Shri Tandon Sundeep	<i>Alternate</i>
Shri Alok Gupta	<i>Principal</i>	Shri Rajesh Banthia	<i>Second</i>
Shri Vivek Goyal	<i>Alternate</i>	IEEMA	
<i>Alternate</i>		Shri Sunil Singhvi	<i>Principal</i>
CESC Limited		Smt Gupta Anita	<i>Alternate</i>
Shri Udayan Ganguly	<i>Principal</i>	Jaipur Vidyut Vitaran Nigam Ltd	
Shri Santosh Chattopadhyay	<i>Alternate</i>	Shri Arjun Singh	<i>Principal</i>
Central Power Research Institute		Kalki Communications Technologies Ltd	
Shri Sawale B.A.	<i>Principal</i>	Shri Vinoo S Warriar	<i>Principal</i>
Shri H.R. Manjunath	<i>Alternate</i>	Shri Balagopalan Mathoor	<i>Alternate</i>
Shri Jagdish	<i>Second Alternate</i>	Larsen & Toubro Ltd	
Development Commissioner Micro, Small		Shri R.M. Bhakta	<i>Principal</i>
Shri Shri R K Rai	<i>Principal</i>	Shri Ahuja Sanjay	<i>Alternate</i>
Shri A.K. Verma	<i>Alternate</i>		
Maharashtra State Transco Ltd			

Landis & Gyr.Ltd.Shri Pradip Ranjan Dutt *Principal*Shri Dubey R. *Alternate*Shri Srivastava Anand *Alternate***North Delhi Power Ltd.**Shri R.K. Singh *Principal***National Physical Laboratory**Shri Mittal M.K. *Principal*Shri Biswas J.C. *Alternate***NTPC Ltd**Smt M.S. Radha *Principal*Shri Himanshu Shekhar *Alternate***Power Grid Corporation of India Ltd.**Shri V. Mittal *Principal*Ms Punam *Alternate***PRAYAS**Shri Sreekumar N. *Principal*Shri Girish Sant *Alternate***Rural Electification Corporation Ltd.**Shri Dinesh Kumar *Principal*Shri P.S. Hariharan *Alternate***Schindler India Pvt Ltd.**Shri Vishal Basotra *Principal***Secure Meters Ltd.**Shri Kaushik Ghosh *Principal*Shri Jhalora Surendra *Alternate*Shri Singhvi S.K. (SML) *Second Alternate***The Tata Power Co Ltd,**Shri S.C. Dhapre *Principal*Shri S.G. Joshi *Alternate***Voluntary Organisation in Interest of**Shri H. Wadhwa *Principal*Shri K.C. Chaudhary *Alternate***Yadav Measurements Pvt Ltd**Shri Vyas B.M. *Principal*

Shri Bhati N.K.

Alternate

**COMPOSITION OF
ET 14 ELECTRICAL WIRING ACCESSORIES**

Central Public Works Department		Dr. Ram Verma,	<i>Alternate</i>
Shri A.K. Jain	<i>Chairman</i>	Directorate General of Supplies &	
Bureau of Indian Standards		Shri Mishra P.K.	<i>Principal</i>
Shri D Goswami	<i>Member Secretary</i>	Shri Pandey R.S	<i>Alternate</i>
All India Plastic Manufacturers		Directorate of Industries & Commerce (TN)	
Shri Manoj Gada	<i>Principal</i>	Shri N. Parthasarathy	<i>Principal</i>
Shri Rajesh Jaggi	<i>Alternate</i>	Shri K. Venkaeswer	<i>Alternate</i>
Anchor Electronics & Electricals Pvt. Ltd.		Electrical Contractors Association of	
Shri Tetsuyasu Kawamoto	<i>Principal</i>	Shri Kamlesh Shah	<i>Principal</i>
Shri Yogesh Sonawane	<i>Alternate</i>	Shri Pradeep Shah	<i>Alternate</i>
Shri Himanshu Sharma	<i>Second Alternate</i>	Shri Satish Y. Kazi	<i>Second</i>
<i>Alternate</i>		Electric Lamp & Component Mfrs. Assn of	
Central Electricity Authority		Shri Shyam Sujan	<i>Principal</i>
Shri Alok Gupta	<i>Principal</i>	Electrical Research & Development	
Shri R K Verma	<i>Alternate</i>	Dr. S.H. Chetwani	<i>Principal</i>
Consumer Education and Research Centre		Dr. M. K. Shah	<i>Alternate</i>
Shri S.N. Desai	<i>Principal</i>	Shri Nailesh S. Kadia	<i>Second</i>
Smt Shweta Mahajan	<i>Alternate</i>		
<i>Alternate</i>		Fine Switchgears, Phagwara	
Smt Shveta Seth	<i>Second Alternate</i>	Shri Sethi Mohinder	<i>Principal</i>
Consumer Guidance Society of India		Shri Sethi Ashok	<i>Alternate</i>
Shri Anil K. Dhumak	<i>Principal</i>	Honeywell Electrical Devices and Systems	
Central Public Works Department		Shri Ravinder Pal Verma	<i>Principal</i>
Shri Suri A.C	<i>Principal</i>	Shri Sadananand Teje	<i>Alternate</i>
Shri Verma M.K.	<i>Alternate</i>	IEEMA	
Development Commissioner Micro, Small		Shri J Pande	<i>Principal</i>
Shri Rai R K	<i>Principal</i>	Kinjal Electricals Pvt Ltd	
Shri A.K. Verma	<i>Alternate</i>	Shri Jain R.K.	<i>Principal</i>
Shri M U Farooq	<i>Second Alternate</i>	Shri Jain Praveen K.	<i>Alternate</i>
Delhi Electrical Accessories BIS Licensees		Legrand (India) Pvt Ltd.	
Shri Khera Adarsh	<i>Principal</i>	Shri V S Mainker	<i>Principal</i>
Shri Mange Ram Gupta	<i>Alternate</i>	Shri V A Tilekar	<i>Alternate</i>
Shri Ajit Singh	<i>Second Alternate</i>	Shri S Deotalu	<i>Second</i>
Ministry of Defence			
<i>Alternate</i>			
Brig Girish Joshi	<i>Principal</i>		

North-West Switchgear Ltd

Shri Arora P.K. *Principal*

Shri Sundeep Kumar *Alternate*

National Test House

Shri D.G Basumatary *Principal*

Shri P. Somu *Alternate*

Shri Anil K. Pandey *Second Alternate*

M/s Pierlite India Pvt. Ltd

Shri Rakesh Kashliwal *Principal*

Ms Shah Renu *Alternate*

Public Works Department, Maharashtra

Shri V. T. Valekar *Principal*

Shri T.P. Nayak *Alternate*

Shri Hemant M Sali *Second Alternate*

Rex Polyextrusionsi

Shri Sanjay B. Dandekar *Principal*

Shri Chandrashekhar. *Alternate*

Schneider Electric

Shri P V Jaison *Principal*

Shri Gurveen Singh Sachdev *Alternate*

Voluntary Organisation in Interest of

Shri K C Chaudhary *Principal*

Western Electrical Accessories

Shri Ashok V. Maru *Principal*

Shri Kishore K Nandu *Alternate*

Shri Niranjana Kamani *Second Alternate*

**COMPOSITION OF
ET 15 ROTATING MACHINERY**

Bharat Heavy Electricals Ltd.		Shri Rai R K	<i>Principal</i>
Shri Sukul Lomash,	<i>Chairman</i>	Shri A.K. Verma	<i>Alternate</i>
Bureau of Indian Standards		Shri M U Farooq	<i>Second</i>
<i>Alternate</i>			
Shri D Goswami	<i>Member Secretary</i>		
ABB Ltd.		Ministry of Defence	
Shri Balasubramaniam R.	<i>Principal</i>	Shri Bhola Singh, CE	<i>Principal</i>
Shri Sarkar S.	<i>Alternate</i>	Shri A. K. Sharma, ACE	<i>Alternate</i>
All India Electrical Moter Association		Directorate General of Supplies &	
Shri Sanjay P. Jadia	<i>Principal</i>	Shri R.S. Pandey	<i>Principal</i>
Bureau of Energy Efficiency		Shri Akhilesh Kumar	<i>Alternate</i>
Dr. Ajay Mahur	<i>Principal</i>	Electronics and Quality Development	
Shri Sandeep Garg	<i>Alternate</i>	Shri L. S. Sharma	<i>Principal</i>
Bharart Bijlee Ltd.		Electrical Research & Development	
Shri Anklesaria T.M.	<i>Principal</i>	Shri S.H. Chetwani	<i>Principal</i>
Shri Dhengle Y. A.	<i>Alternate</i>	Dr. Shah M.K.	<i>Alternate</i>
Bharat Heavy Electricals Ltd.		Representative of ET 33	
Shri A.K. Varshney	<i>Principal</i>	Shri Gokhale Shirish	<i>Principal</i>
Shri Nisheeth khare	<i>Alternate</i>	Representative of HMD 20	
Shri Babu Sonwane	<i>Second Alternate</i>	Shri Gowrisankar J.	<i>Principal</i>
Central Board of Irrigation & Power		Shri Deshpande S.D.	<i>Alternate</i>
<i>Alternate</i>		Shri Bhootra K.C.	<i>Second</i>
Shri V.K. Kanjaliala	<i>Principal</i>	International Copper Association Ltd	
Shri P.P. Wahi	<i>Alternate</i>	Shri Milind Raje	<i>Principal</i>
Central Electricity Authority		Shri Mayur S. Karmarkar	<i>Alternate</i>
Shri Sanjay Srivastava	<i>Principal</i>	IEEMA	
Shri Moti Lal	<i>Alternate</i>	Shri Krishnakumar	<i>Principal</i>
Chief Electrical Inspectorate (Tamil Nadu)		Smt Anita Gupta	<i>Alternate</i>
Shri N. Thiruvazhi Marpha	<i>Principal</i>	Indian Institute of Science, Bangalore	
Shri Ramakrishnan	<i>Alternate</i>	Nomination awaited	<i>Principal</i>
Consumer Education and Research Centre		Indian Institute of Technology (Delhi)	
Smt. Shweta Mahajan	<i>Principal</i>	Prof S.S. Murthy	<i>Principal</i>
Crompton Greaves Ltd.		Indian Pump Manufacturers' Association	
Shri Dileep Bhawe	<i>Principal</i>	Shri Abhyankar S.L.	<i>Alternate</i>
Development Commissioner Micro, Small			

Jyoti LtdShri A.M. Parekh *Principal*Shri A.S. Patel *Alternate***Kirloskar Electric Company Ltd.**nomination awaited *Principal*Shri Desai D.A. *Alternate***KSB Pumps Ltd.**Shri D.S. Khanna *Principal*Shri S.C. Patil *Alternate***Marathon Electric Motors (India) Ltd**Shri Subrata Biswas *Principal*Shri Rajiv Ranjan *Alternate***M.N.Dastur & Co.(P) Ltd.**Shri S.V. Varadarajan *Principal*Shri S. Sampath *Alternate***Nuclear Power Corporation of India Ltd**Shri Pandariganthan S. *Principal*Shri N. Sankaranarayanan *Alternate***National Test House**Shri K.N. Misra *Principal*Shri K. Mohanan *Alternate***NTPC Ltd**Shri D. K. Chaturvedi *Principal***Steel Authority of India Ltd.**Shri Gautam Sen *Principal*Shri Bharat Bhushan *Alternate***South India Engineering Mfrs. Association**Shri G. Rajendran *Principal*Shri S. Murugesan *Alternate*Prof R. Subramanian *Second Alternate***Siemens Ltd.**Shri R. Gopalakrishnan *Principal*Shri Hitesh Vakil *Alternate*Shri Ravindra Bahalerao *Second Alternate***Small Industries' Testing and Research**Shri K. Gunabal *Principal*Shri A M Selvaraj *Alternate***SJVN**Shri R.P. Singh *Principal*Shri R.K. Bansal *Alternate***Tata Consulting Engineers**Shri S.V.S. Prasad *Principal*Shri A. Singaiah *Alternate*

**COMPOSITION OF
ET 16 TRANSFORMERS**

Central Power Research Institute

Shri B.V. Raghavaiah *Chairman*

Bureau of Indian Standards

Shri D Goswami *Member Secretary*

Areva T&D India Ltd (ALSTOM)

Shri M. Vijaykumaran *Principal*

Bureau of Energy Efficiency

Shri Sandeep Garg *Principal*

Shri Alvin Jose *Alternate*

Brihan Mumbai Electric Supply &

Alternate

Shri S.D. Pawar *Principal*

Shri S.N. Pawar *Alternate*

Alternate

Bharat Heavy Electricals Ltd.

Shri S.C. Bhageria *Alternate*

Shri J. S. Kuntia *Second Alternate*

Central Board of Irrigation & Power

Shri P.P. Wahi *Principal*

Shri Vishan Dutt *Alternate*

Central Electricity Authority

Director (Substation) *Principal*

CESC Limited

Shri S. Bhattacharya. *Principal*

Shri Sanjay kar Chowdhury *Alternate*

Crompton Greaves Ltd.

Shri A.B. Bhatia *Principal*

Shri Manish Yadav *Alternate*

Shri Vikrant Joshi *Second Alternate*

Coal India Ltd.

Shri H.K.Chakaborty *Principal*

Shri S.K.Roy *Alternate*

Central Power Research Institute

Shri M.k. Wadhvani *Principal*

Shri S. Sudhakar Reddy *Alternate*

Central Public Works Department

Shri Mohan Swaroop *Principal*

Shri Garg P.K. *Alternate*

CTR Manufacturing Industries Ltd.

Shri S.A. Rajan *Principal*

Shri B.D. Raut *Alternate*

Development Commissioner Micro, Small

Shri R K Rai *Principal*

Shri A.K. Verma *Alternate*

Shri M U Farook *Second*

Directorate General of Supplies &

Shri P. Singhal *Second*

Shri A. Saleem *Chairman*

Himachal Pradesh State Electricity Board

Shri M.K. Bhatia *Principal*

Punjab State Electricity Board

Director, Design Sub Station *Principal*

Chief Purchase Officer *Alternate*

Uttar Pradesh Power Transmission Corpn

Shri R.S. Agrawal *Principal*

Shri K.N. Srivastava *Alternate*

EMCO Ltd.

Shri R.C. Agarwal *Principal*

Shri R.S. Shah *Alternate*

Reliance Energy Ltd

Shri Satish Sabharwal *Principal*

Shri Chakravarti K.K. *Alternate*

Electrical Research & Development

Shri R.B. Desai *Principal*

Shri U.C. Trivedi *Alternate*

International Copper Association Ltd

Shri Mayur S. Karmarkar *Principal*

IEEMA

Shri H.K. Kulshrestha *Principal*

Ms Anita Gupta *Alternate*

Jaipur Vidyut Vitaran Nigam Ltd

Shri Arjun Singh *Principal*

Nuclear Power Corporation of India Ltd

Shri K. Jagannath *Principal*

Shri ANJANEYULU B. *Alternate*

NTPC Ltd

Shri Dinkar Devate *Principal*

Shri Gupta H. *Alternate*

Power Grid Corporation of India Ltd.

Shri Goswami M.M. *Principal*

Shri Aggarwal Sudhir *Alternate*

Research Design & Standards Organisation

Joint Director(Stds)Elect-6 *Principal*

Joint Director Trac. Instl.-1 *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Hariharan *Alternate*

Siemens Ltd.

Shri V M Varkey *Principal*

Shri C Jayasenan *Alternate*

The Tata Power Co Ltd,

Shri M.V. Kini *Principal*

Shri P.K. Jain *Alternate*

Transformers and Electricals Kerala

Shri Oommen P. Joshua *Principal*

Shri Reji John K. *Alternate*

Delhi TRANSCO

Shri Raj Bhartiya *Principal*

Shri Ved Mitra *Alternate*

Vijai Electricals Ltd.

Shri V.K. Lakhiani *Principal*

Shri T. K. Ganguli *Alternate*

**COMPOSITION OF
ET 18 INDUSTRIAL PROCESS MEASUREMENT AND
CONTROL**

Engineers India Ltd		Shri Arora Kishore	<i>Alternate</i>
Shri Mahajan P.	<i>Chairman</i>	Shri Srinivasan K.S.	<i>Second</i>
<i>Alternate</i>			
Bureau of Indian Standards		Institute for Design of Elec. Meas.	
Smt Haque Nishat S.	<i>Member Secretary</i>	Shri Rasal S.V.	<i>Principal</i>
ABB Ltd.		Shri Khaladkar S.G.	<i>Alternate</i>
Shri Ravishnkar T.R.	<i>Principal</i>	IEEMA	
Shri Gupta Rohit	<i>Alternate</i>	Shri Pande J.	<i>Principal</i>
Bureau of Energy Efficiency		Smt Gupta Anita	<i>Alternate</i>
Shri Sabharwal Satish	<i>Principal</i>	Instrumentation Ltd.	
Bharat Heavy Electricals Ltd.		Shri Gupta S.C.	<i>Principal</i>
Shri C. Ananda	<i>Principal</i>	M.N.Dastur & Co.(P) Ltd.	
Shri Prakash Khadilkar	<i>Alternate</i>	Shri Sengupta Amitava	<i>Principal</i>
Shri S. Somasundaram	<i>Second Alternate</i>	Shri Das Proloy	<i>Alternate</i>
Central Scientific Instruments		NTPC Ltd	
Shri Goel D.P.	<i>Principal</i>	Shri Sen Abhijit	<i>Principal</i>
Shri Malhotra J.M.	<i>Alternate</i>	Shri Pant Manoj	<i>Alternate</i>
Department of Electronics		Oil & Natural Gas Commission	
Shri Kumar Jatinder	<i>Principal</i>	Shri C.R. Raju	<i>Principal</i>
Electronics Corporation of India Ltd.		Shri J.R. Martin	<i>Alternate</i>
Shri Prabhakara Rao R.V.	<i>Principal</i>	Reliance Industries Ltd.	
Shri Suryanarayana V.V.	<i>Alternate</i>	Shri Bhattacharya Ranjan	<i>Principal</i>
Engineers India Ltd.		Shri Vora Keyur.G	<i>Alternate</i>
Shri S R Bhatnagar	<i>Principal</i>	Shri Anchalkar Umesh R.	<i>Second</i>
<i>Alternate</i>			
Ms R. Priyamvada	<i>Principal</i>	Steel Authority of India Ltd.	
MS Rajiv Gupta	<i>Alternate</i>	Shri Karmoker T.	<i>Principal</i>
ELICO Limited		Shri A.V.Roy	<i>Alternate</i>
Shri Shivarao T.V.	<i>Principal</i>	Siemens Ltd.	
Fluid Control Research Institute		Shri Sameer Prakash	<i>Principal</i>
Shri Suresh M.	<i>Principal</i>	Shri Anil Nayak	<i>Alternate</i>
Dr Viswanathan M.	<i>Alternate</i>	Vijayesh Instruments Pvt. Ltd.	
Forbes Marshall Ltd		Shri Vishwas Kale	<i>Principal</i>
Shri Iyer Ramani	<i>Principal</i>		

**COMPOSITION OF
ET 19 HIGH VOLTAGE ENGINEERING**

Central Power Research Institute

Shri Gunasekaran B. *Chairman*

Bureau of Indian Standards

Smt Manju Gupta *Member Secretary*

ABB Ltd.

Dr. Jashavant Patel *Principal*

Shri Shendre Yogesh *Alternate*

Bharat Heavy Electricals Ltd.

Shri Tiwari R.K., *Principal*

Shri R.N. Parmar *Alternate*

Dr. A Pradeep *Second Alternate*

Central Board of Irrigation & Power

Shri G.N. Mathur *Principal*

Shri P.P. Wahi *Alternate*

Central Electricity Authority

Shri Dir (Substation) *Principal*

Shri Dy. Dir (Substation) *Alternate*

CESC Limited

Shri Shri Sukanta Basu *Principal*

Shri Sujit Kumar Pathak *Alternate*

Crompton Greaves Ltd.

Shri Govindan T.P. *Principal*

Central Power Research Institute

Dr Devendranath *Principal*

Dr. N. Vasudev *Alternate*

Dr. H.N. Nagamani *Second Alternate*

Electrical Research & Development

Shri U.C.Trivedi *Principal*

Shri A.S. Khopkar *Alternate*

IEEMA

Shri J. Pande *Principal*

Indian Institute of Science, Bangalore

Dr. L.Satish *Principal*

Larsen & Toubro Ltd

Shri D. Chatterjee *Principal*

Shri R.S. Mahajan *Principal*

Nuclear Power Corporation of India Ltd

Shri N. Sankaranarayan *Principal*

Shri V. H. Manohar *Alternate*

NTPC Ltd

Shri Venkadeswaran S. *Principal*

Power Grid Corporation of India Ltd.

Shri R.K.Sarkar *Principal*

Dr. Subir Sen *Alternate*

Siemens Ltd.

Shri Ashish Dua *Principal*

Shri J P Singh *Alternate*

The Tata Power Co Ltd,

Shri A. Mukherji *Principal*

Shri T. Murlikrishna *Alternate*

Tata Consulting Engineers

Shri K.G. Krishnamurthy *Principal*

Shri G.S.Tahiallney *Alternate*

Transformers and Electricals Kerala

Shri Oommen P. Joshua *Principal*

Shri Reji John K. *Alternate*

**COMPOSITION OF
ET 20 ELECTRICAL INSTALLATIONS**

In Personal Capacity

Shri Nagarajan N. *Chairman*

Bureau of Indian Standards

Smt Haque Nishat S. *Member Secretary*

American Bureau of Shipping

Shri S C Aneja *Member Secretary*

Shri Ashok R. *Principal*

Areva Transmission and Distribution

Shri Saha Biswajit *Principal*

Brihan Mumbai Electric Supply &

Shri R.J. Singh *Principal*

Shri A.S. Sewakhande *Alternate*

Central Electricity Authority

Shri R K Verma *Principal*

Shri M S Sondhi *Alternate*

Chief Electrical Inspectorate (Kerala)

Er. K.K. Unni *Principal*

Er. Premachandra Vhas. *Alternate*

Chief Electrical Inspectorate (Madhya

Shri Mujalde S.S. *Principal*

Shri Dubey A.K. *Alternate*

Chief Electrical Inspectorate (Orissa)

Shri G.C. Choudhury *Principal*

Er Sk Habibur Rehman *Alternate*

Chief Electrical Inspectorate (Tamil Nadu)

Alternate

Shri N. Thiruvanzhi *Principal*

Shri Thiru.S. Appavoo, BE *Alternate*

Chief Electrical Inspectorate (Uttanchal)

Shri Kumar Anupam *Principal*

Shri Chand Girish *Alternate*

Central Labour Institute

Shri H Vishvanathan *Principal*

Shri B.L. Bairwa *Alternate*

Central Public Works Department

Shri V. K. Mittal *Principal*

Shri Chopra S. *Alternate*

Development Consultant Limited

Shri Pradeep Banerjee *Principal*

Shri Das Ranjit K. *Alternate*

Ministry of Defence

Brig Girish Joshi *Principal*

Dr Ram Verma *Alternate*

Dte of Quality Assurance (WP)

Lt Cdr Pande P.K. *Alternate*

Department of Telecommunications

Shri Pradeep Nettur *Principal*

Shri Yadav J.S. *Alternate*

Gujarat Electricity Board

Shri Dave K.M. *Alternate*

Madhya Gujarat Vij Company Ltd

Shri Gandhi R.O. *Principal*

TamilNadu Electricity Board

Superintending Engineer *Principal*

Executive Engineer *Alternate*

Electrical Contractors Association of

Shri Kamlesh Shah *Principal*

Shri Pradeep Shah *Alternate*

Shri Satish Y. Kazi *Second*

Electrical Contractors Installation

Shri Venkataswamy A.K. *Principal*

Shri Bhikkaji T.M. *Alternate*

Engineers India Ltd.

Shri Singh J.M. *Principal*

Shri Niraj Sethi *Alternate*

Garden Reach Shipbuilders & EngineersCdr. Soumitra Bhaduri *Principal*Cdr. T.K. Guha Roy *Alternate***Hindustan Shipyard Ltd.**Shri Sastri D.S. *Principal***IEEMA***Alternate*Shri Sarkar A. *Principal*Smt Gupta Anita *Alternate***Jaipur Vidyut Vitaran Nigam Ltd**Shri Arjun Singh *Principal***Larsen & Toubro Ltd**Shri Rajavel S. *Principal*Shri Maheswaran D. *Alternate***Mazagon Dock Limited**Shri S.K. Malavade *Principal*Shri Mishra V.K. *Principal*Shri Ramamurthy K *Alternate***Metallurgical & Engineering Consultants**Shri Mishra G. *Principal***Nuclear Power Corporation of India Ltd**Shri S. Pandari Ganthan *Principal*Shri S. Ghosh *Alternate***NTPC Ltd**Shri Deepak Trehan *Principal*Shri P. K. Basu *Alternate***Oil & Natural Gas Commission**Shri Verma A.N. *Principal*Shri Hazra U.S. *Alternate***Rural Electification Corporation Ltd.**Shri Kumar Dinesh *Principal*Shri Hariharan P.S. *Alternate***Reliance Energy Ltd.**Shri D. Guha *Principal*Shri Dastidar Shantanu *Alternate***Shipping Corporation of India Ltd.**Shri Bodkhey *Principal*Shri Takpere N.Y. *Alternate***Siemens Ltd.**Shri R. Phatak *Principal*Shri K Gurumurthy *Alternate*Shri Saikat Majumder *Second***Tariff Advisory Committee**Shri Bhuskute M.M. *Principal*Shri Chowdhury P.K. Roy *Alternate***Tata Consulting Engineers**Shri Muthana Murli *Principal*Shri Priyadarshi Utpal *Alternate*

**COMPOSITION OF
ET 21 ELECTRIC WELDING EQUIPMENT**

Bharat Heavy Electricals Ltd.

Dr S. Manoharan *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

Bharat Heavy Electricals Ltd.

Shri V.R. Samuel *Principal*

Ministry of Defence

Shri R.B. Singh *Principal*

Dr Ram Verma *Alternate*

Directorate General of Supplies &

Shri Akhilesh Kumar *Principal*

Shri A.K.Rai *Alternate*

Directorate of Small Scale Industries,

Nomination Awaited *Principal*

Esab India Ltd.

Shri S.K. Palit *Principal*

Heavy Vehicles factory

Shri Palanivela M. *Principal*

Jessop & Co. Ltd.

Shri Goutam Chatterjee *Principal*

Larsen & Toubro Ltd

Shri K.G. Padalkar *Principal*

Shri Mahesh Joshi *Alternate*

Mazagon Dock Limited

Shri Kulkarni V.M. *Principal*

Shri Kashikar P.R. *Alternate*

Ordnance Factory Project

Shri Ahmed Q. *Principal*

Shri Naidu V.N.R., *Alternate*

Roorkee University

Nomination awaited *Principal*

Steel Authority of India Ltd.

Shri B.S. Sahu *Principal*

Shri S.K.Banerjee *Alternate*

Sur Iron & Steel Co.

Shri J.K. Sur *Principal*

Shri A.K. Ray *Alternate*

Tata Engineering And Locomotive

Shri Narayan *Principal*

Shri Dutta Roy A.K. *Alternate*

Tata Motors Ltd.

Shri Narayan *Principal*

Shri Dutta Roy A. *Alternate*

Welding Research Institute

Shri Manoharan S. *Principal*

**COMPOSITION OF
ET 22 ELECTRICAL APPARATUS FOR EXPLOSIVE
ATMOSPHERES**

Engineers India Ltd		Ministry of Defence	
Shri Sharma V.P.	<i>Chairman</i>	Sh. R.N Sinha	<i>Principal</i>
Bureau of Indian Standards		Shri Y. K Gaur	<i>Alternate</i>
Smt Haque Nishat S.	<i>Member Secretary</i>	DG Factory Advisory Services & Labour	
Baliga Lighting Equipment Pvt. Ltd.		Shri V.B. Sant	<i>Principal</i>
Shri Baliga B.R.	<i>Principal</i>	Shri S.C. Sharma	<i>Alternate</i>
Shri Baliga B.S.	<i>Alternate</i>	Directorate General of Mines Safety	
Bharart Bijlee Ltd.		DDG, Mines	<i>Principal</i>
Shri Y.A. Dhengle	<i>Principal</i>	Shri M.K. Das	<i>Alternate</i>
Bharat Heavy Electricals Ltd.		Engineers India Ltd.	
Shri H.K. Nigam	<i>Principal</i>	Shri Singh J.M.	<i>Principal</i>
Shri A.K. Varshney, DGM	<i>Alternate</i>	Shri Patro U.A.	<i>Alternate</i>
Shri Babu Sonwane	<i>Second Alternate</i>	Gilbarco Veeder Root India Private	
Centre for Fire,Explosive & Environment		Shri Russy N. Master	<i>Principal</i>
Dr. S.C. Aggarwal	<i>Principal</i>	Shri Deepak Mehra	<i>Alternate</i>
Shri L.C. Ralte	<i>Alternate</i>	Hindustan Petroleum Corporation Ltd	
Crompton Greaves Ltd.		Ms Rupali Kabi	<i>Principal</i>
Shri Dilip Bhawe	<i>Principal</i>	Shri D.K. Sharma	<i>Alternate</i>
Confederation of Indian Industry		Shri Reji Mathew	<i>Second</i>
<i>Alternate</i>		IEEMA	
Shri Nandakumar K.	<i>Principal</i>	Shri R. Krishnakumar	<i>Principal</i>
Central Institute of Mining & Fuel		Ms Gupta Anita	<i>Alternate</i>
Dr. Arvind Kr. Singh	<i>Principal</i>	Indian Flameproof Mfrs. Association	
Shri Rajendra Kr.	<i>Alternate</i>	Shri Gupta B.K.	<i>Principal</i>
Shri Bhagirath Ahirwal	<i>Second Alternate</i>	Shri Patel R.H.	<i>Alternate</i>
Coal India Ltd.		Shri Nilesh Agarwal	<i>Second</i>
Chief GM(S&R)	<i>Principal</i>	Oil Industry Safety Directorate	
<i>Alternate</i>		Nomination Awaited	<i>Principal</i>
Suptd Engineer (E&M)	<i>Alternate</i>	Shri S.K. Mazumdar	<i>Alternate</i>
Central Power Research Institute		Oil & Natural Gas Commission	
Shri G.B. Balraju	<i>Principal</i>	Shri S.C. Tripathy	<i>Principal</i>
Shri V.N. Nagaraja Rao	<i>Alternate</i>		<i>Alternate</i>
Deptt. of Construction, Services & Estate			
Shri D.K.Jain	<i>Principal</i>		

Petroleum and Explosives Safety

Shri T R Thomas *Principal*

Shri P.C. Srivastava *Alternate*

Reliance Industries Ltd.

Shri Kuldip Kumar Dhar *Principal*

Shri M. Bhagwan *Alternate*

Standardisation Testing & QC Directorate

Shri Biswajit Deb *Principal*

Tariff Advisory Committee

Shri Saha Amit *Principal*

**COMPOSITION OF
ET 23 ELECTRIC LAMPS AND THEIR AUXILIARIES**

National Physical Laboratory		Shri A.K. Verma	<i>Alternate</i>
Dr Kandpal H.C.	<i>Chairman</i>	Shri M U Farooq	<i>Second</i>
<i>Alternate</i>			
Bureau of Indian Standards		Ministry of Defence	
Shri D Goswami	<i>Member Secretary</i>	Representative	<i>Principal</i>
Bajaj Electricals Ltd.		Directorate General of Supplies &	
Nomination awaited	<i>Principal</i>	Shri H.R. Sharma	<i>Principal</i>
Bureau of Energy Efficiency		Shri S Bhardwaj	<i>Alternate</i>
Dr. Sandeep Garg	<i>Principal</i>	Delhi Transco Ltd	
Shri Arjit Sengupta	<i>Alternate</i>	Shri Satish Sabharwal	<i>Principal</i>
Brihan Mumbai Electric Supply &		Electric Lamp & Component Mfrs. Assn of	
Shri P.V. Haldankar	<i>Principal</i>	Shri Shyam Sujan	<i>Principal</i>
Shri A.B.Kandge	<i>Alternate</i>	Shri H.S. Mamak	<i>Alternate</i>
Central Electricity Authority		Shri S Suresh	<i>Second</i>
<i>Alternate</i>			
Shri R.K. Verma	<i>Principal</i>	Electrical Research & Development	
Shri Vivek Goyal	<i>Alternate</i>	Shri	<i>Principal</i>
Consumer Education and Research Centre		Federation of All India Small Scale Lamps	
Shri Ms. Shweta Mahajan	<i>Principal</i>	Shri Agarwal D.C.	<i>Principal</i>
Smt Ms. Shveta Sheth	<i>Alternate</i>	Shri Swetu Patel	<i>Alternate</i>
Crompton Greaves Ltd.		Hind Lamps Ltd	
Shri R.R. Ray	<i>Principal</i>	Shri D M Dayal	<i>Principal</i>
Shri Parag Wani	<i>Alternate</i>	Shri S.K. Sharma	<i>Alternate</i>
Shri Rajesh Naik	<i>Second Alternate</i>	Halonix Ltd.	
Consumer Guidance Society of India		Shri Neogi S.K.	<i>Principal</i>
Shri B.V. Desai	<i>Principal</i>	Shri Vishal Garg	<i>Alternate</i>
Dr. A.N. Bhat	<i>Alternate</i>	HPL-Electric and Power Pvt Ltd	
Central Power Research Institute		Shri Sanjeev Sharma	<i>Principal</i>
Shri A.R. Ravikumar	<i>Principal</i>	Shri Rishi Seth	<i>Alternate</i>
Shri Rajashekar P. Mandi	<i>Alternate</i>	Indian Institute of Technology (Delhi)	
Central Public Works Department		Prof S.S. Murthy	<i>Principal</i>
Shri J.M. Paswan	<i>Principal</i>	In personal Capacity	
Shri S.D. Sharma	<i>Alternate</i>	Shri P.K.Mukherjee	<i>Principal</i>
Development Commissioner Micro, Small			
Shri R K Rai	<i>Principal</i>		

Indian Society of Lighting Engineers

Shri Dilip Bharadkar

*Alternate*Shri P.K. Bandyopadhyay *Principal*Shri Chakraborty S. *Alternate***Jadavpur University**Dr. Saswati Mazumdar *Principal*Dr B. Roy *Alternate***Janta Electronics & Training Centre**Shri Bhagwan Singh *Principal*Shri Manish Kumar Singh *Alternate***National Physical Laboratory**Dr Mehrotra R. *Alternate***National Test House**Shri S. Chakrabarty *Principal*Shri R.R. Srivastava *Alternate***NTPC Ltd**Shri Sanjay Seth *Principal*Shri Amrish Gupta *Alternate***Osram India Pvt Ltd**Ms. Bhavna Kasturia *Principal*Shri Pankaj Gupta *Alternate*Shri Rajat Mandal *Second Alternate***Philips Electronics India Ltd**Shri Amal Sengupta *Principal*Shri Sunil S. Duggal *Alternate*Shri Vinesh Tyagi *Second Alternate***Surya Roshni Ltd.**Shri Jaggi R.K. *Principal*Shri D.K. Sharma *Alternate*Shri G.C. Joshi *Second Alternate***Voluntary Organisation in Interest of**Shri Kapoor T.C. *Principal*Shri Wadhwa H. *Alternate*Shri Choudhuri K.C. *Second Alternate***Wipro Ltd**Shri Makarand Sainis *Principal*

**COMPOSITION OF
ET 24 ILLUMINATION ENGINEERING AND**

Indian Society of Lighting Engineers		Shri P. Singhal	<i>Principal</i>
Shri Bandyopadhyay P.K.	<i>Chairman</i>	Shri Akhilesh Kumar	<i>Alternate</i>
Bureau of Indian Standards		Electric Lamp & Component Mfrs. Assn of	
Shri D Goswami	<i>Member Secretary</i>	Shri Shyam Sujan	<i>Principal</i>
Bajaj Electricals Ltd.		Shri H.S. Mamak	<i>Alternate</i>
Shri C.R. Ravindranath	<i>Principal</i>	Shri Swaroop Bolar	<i>Second</i>
<i>Alternate</i>		International Airport Authority of India	
Shri K. Naveen	<i>Alternate</i>	Nominated Awaited	<i>Principal</i>
Shri D.V.R.S. Sastry	<i>Second Alternate</i>	Indian Flameproof Mfrs. Association	
Bureau of Energy Efficiency		Shri Patel R.H.	<i>Principal</i>
Dr S Garg	<i>Principal</i>	Shri Gupta B.K.	<i>Alternate</i>
Ms Neeta Khandwal	<i>Alternate</i>	Shri Agarwal Nilesh	<i>Second</i>
Binay Opto Electronics Pvt. Ltd.		Institute of Indian Interior Designer	
<i>Alternate</i>		Shri Ashok Butala	<i>Principal</i>
Shri Vineet K Rohatgi	<i>Principal</i>	Ms Rohini Mani	<i>Alternate</i>
Central Electricity Authority		In personal Capacity	
Shri Sanjay Srivasata	<i>Principal</i>	Shri P.K.Mukherjee	<i>Principal</i>
Shri T K Singh	<i>Alternate</i>	Indian Society of Lighting Engineers	
Crompton Greaves Ltd.		Chairman of the Committee	<i>Principal</i>
Shri Manoj Verma	<i>Principal</i>	Jadavpur University	
Shri Rajesh Naik	<i>Alternate</i>	Dr Biswanath Roy	<i>Principal</i>
Shri Prashant Kudrya	<i>Second Alternate</i>	MIC Electronics Limited	
Council of Architecture		Shri V. Sambaiah	<i>Principal</i>
Nominated Awaited	<i>Principal</i>	National Physical Laboratory	
Central Public Works Department		Dr Kandpal H.C., Head,	<i>Principal</i>
Shri Mukesh Vij	<i>Principal</i>	Dr. Ranjana Mehrotra	<i>Alternate</i>
Shri S.P. Baranwal	<i>Alternate</i>	National Test House	
Development Commissioner Micro, Small		Shri K.N. Misra	<i>Principal</i>
Shri Rai R K	<i>Principal</i>	Shri P.K. Karmakar	<i>Alternate</i>
Shri A K Verma	<i>Alternate</i>	NTPC Ltd	
Shri M U Farooq	<i>Second Alternate</i>	Shri Sanjay Seth	<i>Principal</i>
Ministry of Defence		Shri Vikram Talwar	<i>Alternate</i>
Shri A.K.Saxena	<i>Principal</i>	Directorate General of Supplies &	
Shri Arvind Kumar	<i>Alternate</i>		

Osram India Pvt Ltd

Shri Rajat S Mandal *Principal*

Ms Bhavna Kasturia *Alternate*

Philips Electronics India Ltd

Ms Mukhopadhyay *Principal*

Shri Chaudhuri Kunal *Alternate*

Research Design & Standards Organisation

Pravin Pradhan *Principal*

Manish Gupta *Principal*

Energy Efficiency & Renewable Energy

Dr. (Mrs.) Parveen Dhamija *Principal*

Dr. Chandra Prakash *Alternate*

Surya Roshni Ltd.

Shri S. Chakraborty *Principal*

Shri Krishna Raman *Alternate*

Tata Power Delhi Distribution Limited

Shri Mr Sunil Singh *Principal*

Shri Jayanta Chatterjee *Alternate*

Universal Electronic Solutions (India) Pvt.

Shri Prakash Rao A *Principal*

U L India

Shri Brahmhatt Gautam *Principal*

Shri V.Manjunath *Principal*

Voluntary Organisation in Interest of

Shri T.C. Kapoor *Principal*

Shri H. Wadhwa *Alternate*

**COMPOSITION OF
ET 25 LIFTS AND ESCALATORS**

Public Works Department, Maharashtra

Shri S.T. Valekar *Chairman*
Shri N.G.Beharam *Alternate*

Bureau of Indian Standards

Shri D Goswami *Member Secretary*

Central Electricity Authority

Shri Moti Lal *Principal*
Shri P.C. Kureel *Alternate*

Govt. of Gujarat (IW),

Mr. Vaishnav B.M. *Principal*

Chief Electrical Inspectorate (Karnataka)

Shri D.H. Basavaraju *Principal*
Shri H.B. Lakshmeesha *Alternate*

Chief Electrical Inspectorate (Tamil Nadu)

Shri A Appavoo *Principal*
Shri D Karthikeyan *Alternate*

Chief Electrical Inspectorate (WB)

Shri M. Mukherjee *Principal*
Shri Bipul Hazra *Alternate*

Central Public Works Department

Shri A.C. Suri *Principal*
Shri H.S. Sandhu *Alternate*

Ministry of Defence

Alternate

Brig V Gaopande *Principal*
Shri Manoj Kumar *Alternate*

Delhi Fire Services

Shri Dr G C Mishra/Atul *Principal*

Directorate General of Supplies &

Shri R.S. Pandey *Principal*
Shri Sharma H.R. *Alternate*

Delhi Metro Rail Corporation Ltd

Shri Mahendra Kumar *Principal*
Shri Anoop Gupta *Alternate*

Electrical Inspectorate, Haryana

Shri S.K. Kakkar *Principal*
Shri Jagdish Prashar *Alternate*

Electrical Inspectorate Himachal Pradesh

Shri M.R. Daroch *Principal*

Fire and Emergency Services & Fire Advisor

Shri M V Deshmukh *Principal*
Shri S Warick *Alternate*

IEEMA

Principal

Shri Pandey J. *Alternate*

The Indian Institute of Architects

Shri Vinay M. Parelkar *Principal*
Shri Paresh Kapadia *Alternate*

Johnson Lifts Private Limited

Shri M. Balasubramanian *Principal*
Shri Albert Dhiraviyam *Alternate*

Kolkata Metro

Shri D C Ray *Principal*

KONE Elevators India Ltd.

Shri Tipnis P.M. *Principal*
Shri P Gurumoorthy *Alternate*
Shri J. Sivaraman *Second*

Lerch Bates Private Limited

Shri A S Herwadkar *Principal*

Maharashtra Chamber & Housing Industry

Shri Pratik Patel *Principal*
Shri Diipesh Bhagtani *Alternate*

Office of the Labour Commissioner; Delhi

Shri Avinash Kumar *Principal*
Shri G.S. Walia *Alternate*

Otis Elevator Co.(India) Ltd.

Shri Sameer Joshi *Principal*
Shri Abhijit Dandekar *Alternate*
Shri Mr. H. N. Prashanth *Second Alternate*

Public Works Department, Maharashtra

Shri S M Bhasme *Principal*
Shri M G Beharam *Alternate*

Schindler India Pvt Ltd.

Shri Deshpande Nimish *Principal*
Shri Ronnie Dante *Alternate*

TAK Consulting Pvt. Ltd.

Shri TAK Mathews *Principal*
Shri PVN Marar *Alternate*

Voluntary Organisation in Interest of

Shri K.C.Chaudhary *Principal*
Shri Paras Oberoi *Alternate*

**COMPOSITION OF
ET 28 SOLAR PHOTOVOLTAIC ENERGY SYSTEMS**

Ministry of New and Renewable Energy		Dr. Viresh Dutta	<i>Principal</i>
Dr B. Bhargava	<i>Chairman</i>	Indian Renewable Energy Development	
Bureau of Indian Standards		Dr. Debashish Majumdar	<i>Principal</i>
Shri Sumit Sengar	<i>Member Secretary</i>	Shri A.A.Khatana	<i>Alternate</i>
Amar Raja Batteries Ltd.		Shri K.B.K. Reddy	<i>Second</i>
<i>Alternate</i>		Jadavpur University	
Shri Jeyakumar N.D.	<i>Principal</i>	Nomination awaited	<i>Principal</i>
Shri Jagadish M.	<i>Alternate</i>	Non Conventional Energy Development	
Bharat Heavy Electricals Ltd.		Shri Sharma Mahendra Pal	<i>Principal</i>
Shri M. Srinath	<i>Principal</i>	Rajasthan Electronics & Instruments Ltd	
Shri Lokabhiraman	<i>Alternate</i>	Shri Mukesh Bihari Mathur	<i>Principal</i>
Central Electricity Authority		Shri Anil Kumar Sharda	<i>Alternate</i>
Shri Mangal Singh	<i>Principal</i>	Ritika Systems	
Smt. Nagma Furkan	<i>Alternate</i>	Nomination awaited	<i>Principal</i>
Central Electronics Ltd.		Rajasthan Renewable Energy Corporation	
Dr. U.S. Taneja	<i>Principal</i>	Shri Rajeeva Swarup	<i>Principal</i>
Central Power Research Institute		Shri A.K. Pathak	<i>Alternate</i>
Shri M. Siddhartha Bhatt	<i>Principal</i>	Solar Energy Centre	
Shri Rajashekar, P. Mandi	<i>Alternate</i>	Dr O.S. Sastry	<i>Principal</i>
Central Public Works Department		Dr P.C. Pant	<i>Alternate</i>
Shri S.P. Baranwal	<i>Principal</i>	Sun Technics Energy Systems Pvt. Ltd.	
Shri M.K. Verma	<i>Alternate</i>	Shri Sanoj James	<i>Principal</i>
Department of Industrial Policy &		Shri Girish J.R.	<i>Alternate</i>
Shri Ramasubramaniam T.	<i>Principal</i>	The Tata Power Co Ltd,	
Shri Ali Khan M.M.	<i>Alternate</i>	Shri N. Kannan	<i>Principal</i>
Engineers India Ltd.		Shri S. B. Lakhpathi	<i>Alternate</i>
Shri Sanjay Gupta	<i>Principal</i>	Tata BP Solar India Ltd.	
Shri Parag Gupta	<i>Alternate</i>	Shri T S Keshav Prasad	<i>Principal</i>
ETDC, Bangalore		Shri Balamurugan D.	<i>Alternate</i>
Nomination awaited	<i>Principal</i>	The Energy and Resources Institute	
HBL Power Systems Limited		Smt Mohanty Parimita	<i>Principal</i>
Shri Manoj Jahagirdar	<i>Principal</i>	Dr Ishan Purohit	<i>Alternate</i>
Shri Pervez Haniff	<i>Alternate</i>		
Indian Institute of Technology (Delhi)			

Titan Solar Energy Systems Ltd

Shri Anchala Pampapathy *Principal*

Shri G.K. Kotaiah *Alternate*

West Bengal Renewable Energy

Nomination awaited *Principal*

**COMPOSITION OF
ET 29 POWER CAPACITORS**

Central Power Research Institute

Dr (Mrs) H.N. Nagamani *Chairman*

Bureau of Indian Standards

Shri D. Goswami *Member Secretary*

ABB Ltd.

Shri Shylendra Kumar *Principal*

Shri Biswas Pannalal, AVP *Alternate*

Bangalore Electricity Supply Company

Nomination Awaited *Principal*

Bharat Heavy Electricals Ltd.

Shri M.Kurre *Principal*

Shri K M Naik *Alternate*

Central Electricity Authority

Smt R.K.Verma *Principal*

Shri Y.K. Swarankar *Alternate*

CESC Limited

Shri Santanu Bhattacharya *Principal*

Shri Shamik Purkayastha *Alternate*

Central Power Research Institute

Shri T.Bhavani Shanker *Principal*

Shri Vaidhyanathan *Alternate*

Gujarat Electricity Board

Shri R.B.Brahmbhatt *Principal*

Madhya Pradesh Power Transmission

Shri R.K.Verma *Principal*

Dr. V.K.Kashyap *Alternate*

Maharashtra State Transco Ltd

Shri D.D.Pradhan *Principal*

Shri S.B.Gundale *Alternate*

Punjab State Electricity Board

Shri Director, Design Sub- *Principal*

Shri Dy. Director *Alternate*

Epcol India Pvt. Ltd.

Dr R. Venkatesh *Principal*

Shri Rahul Eghe *Alternate*

Electrical Research & Development

Shri R.B.Desai *Principal*

Gujrat Urja Vikas Nigam Ltd

Shri P.A. Shah *Principal*

IEEMA

Shri Mustafa Wajid *Principal*

Ms Anita Gupta *Alternate*

In personal Capacity

Shri A.K. Bhattacharya *Principal*

Madhav Capacitors Pvt. Ltd.

Shri B.D. Nikam *Principal*

Shri Sachin Londhe *Alternate*

Meher Capacitors Pvt. Ltd.

Shri *Principal*

New Delhi Power Ltd

Shri Ashok Saraf *Principal*

Shri Ravindra Panage *Alternate*

National Test House

Shri D.G. Basumatary *Principal*

Shri S.B. Nandakumar *Alternate*

NTPC Ltd

Shri D.K.Gupta *Principal*

Shri Nomination awaited *Alternate*

Power Grid Corporation of India Ltd.

Shri D.K.Gupta *Principal*

Shri Mahendra Saxena *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar, *Principal*

Shri P.S. Hariharan *Alternate*

Shreem Capacitors, Kolhapur Maharashtra

Shri Vishal Jagadale *Principal*

Shri Nagesh I Dhang *Alternate*

Schneider Electric

Ms Tabbassum M Wajid *Principal*

Shri Sameer Deshpande *Alternate*

The Tata Power Co Ltd,

Ms Deepa Joshi *Principal*

Shri G.T. Jawale *Alternate*

Shri Pillai Ramachandran *Second Alternate*

Tata Consulting Engineers

Ms. Akalpita V Deshpande *Principal*

Shri Vishal B Mohite *Alternate*

Universal Cables Ltd.

Shri P.K.Bhandari *Principal*

Shri C.S.Gupta *Alternate*

**COMPOSITION OF
ET 30 SURGE ARRESTERS**

Power Grid Corporation of India Ltd.

Shri N.S. Sodha *Chairman*

Bureau of Indian Standards

Smt Nishat S Haque *Member Secretary*

Areva Transmission and Distribution

Nomination Awaited *Principal*

Bharat Heavy Electricals Ltd.

Shri A.K. Aripathi *Principal*

Shri Amitab Singhal *Alternate*

BSES Rajdhani Power Ltd.

Nomination Awaited *Principal*

Central Electricity Authority

Director (Substation) *Principal*

Dy Director (Substation) *Alternate*

CESC Limited

Shri Nikhilesh De *Principal*

Shri Arghya Ghosai *Alternate*

Crompton Greaves Ltd.

Shri Milind Zodage *Principal*

Shri John Yesuraj *Alternate*

Central Power Research Institute

Smt M. Kanyakumari *Principal*

Dr Pradeep M. Nirgude *Alternate*

Haryana Vidyut Prasaran Nigam Ltd.

Shri D.P. Garg *Principal*

Shri J.S. Yadav *Alternate*

Maharashtra State Transco Ltd

Shri Raje R.S. *Principal*

Shri Kelkar S.G. *Alternate*

Rajasthan Rajya Vidyut Prasaran Nigam

Shri Gupta S.S. *Principal*

Elpro International Ltd.

Shri Belsare V.M. *Principal*

Shri Kale S.P. *Alternate*

Electrical Research & Development

Shri A.S. Khopkar *Principal*

Shri M.K. Shah *Alternate*

Gujrat Electricity Board

Shri Bhatt J.K. *Principal*

Shri Shah A.R. *Alternate*

IEEMA

Shri J. Pande *Principal*

V. Sasi Kumar *Principal*

Smt Anita Gupta *Alternate*

Indian Flameproof Mfrs. Association

Shri Sunil Wadhwa *Principal*

Indian Institute of Science, Bangalore

Prof L. Satish *Principal*

In personal Capacity

Dr. Channakeshava *Principal*

Prof Gururaj B.I. *Principal*

Jay Shree Insulators

Principal

Alternate

Karnataka Power Transmission Corpn Ltd

Shri Hanumanthaappa B.S. *Principal*

Shri Shyamasunder *Alternate*

Lamco Lighting Arrester Mfg.

Shri Sarma S.S. Akella *Principal*

Shri Prakkasam N.S. *Alternate*

New Delhi Power Ltd

Nomination Awaited *Principal*

Nuclear Power Corporation of India Ltd

Shri V.H. Manohar *Principal*

Shri M.C. Rajput *Alternate*

NTPC Ltd

Shri Hambarde S.P. *Principal*

Shri Shekhar Himanshu *Alternate*

Oblum Electrical Industries Pvt Ltd

Shri Balagangadhar O. *Principal*

Shri Sukumar B *Alternate*

Power Grid Corporation of India Ltd.

Shri R.K. Tyagi *Principal*

Shri A.P. Gangadharan *Principal*

Philips Electronics India Ltd

Nomination Awaited *Principal*

Raychem RPG Pvt Ltd.

Shri V. Sasi Kumar *Principal*

Research Design & Standards Organisation

Nomination Awaited *Principal*

Rural Electification Corporation Ltd.

Shri Kumar Dinesh *Principal*

Shri Hariharan P.S. *Alternate*

Siemens Ltd.

Shri Gour Chandra Saha *Principal*

The Tata Power Co Ltd,

Shri S.R. Mujumdar *Principal*

Shri P.D. Gaikwad *Alternate*

Tata Consulting Engineers

Smt Havanur Anjana *Principal*

Shri N. Raman *Alternate*

Telecom Engineering Centre

Shri Nomination Awaited *Principal*

Tamil Nadu Electricity Board

Principal

Alternate

**COMPOSITION OF
ET 31 POWER ELECTRONICS**

Central Electronics Ltd.

Shri Rajesh Kumar Jain *Chairman*

Bureau of Indian Standards

Shri D. Goswami *Member Secretary*

ABB Ltd.

Shri V.K. Shah *Principal*

Shri Vilas Kanetkar *Alternate*

Bhabha Atomic Research Centre

Shri G.P. Srivatsava *Principal*

Shri M.K. Singh *Alternate*

Bharat Heavy Electricals Ltd.

Shri V. Seshadri *Principal*

Shri V. Nagesh Rao *Alternate*

Central Electricity Authority

Dr Prabhat Mohan *Principal*

Shri *Alternate*

Crompton Greaves Ltd.

Dr S. Ekram *Principal*

CMAI

Shri Nomination Awaited *Principal*

Development Commissioner Micro, Small

Shri R.K. Rai *Principal*

Shri A.K. Verma *Alternate*

Shri M U Farooq *Second Alternate*

Ministry of Defence

Shri Dr. Ram Verma *Principal*

Shri A K Dubey *Alternate*

Directorate General of Supplies &

Shri P.M. Wanzari *Principal*

Shri S.K. Jain *Alternate*

Department of Electronics

Shri Bhawe P.H. *Principal*

Shri Ghosh J.K. *Alternate*

Emerson Network Power

Shri T.K. Shachidevi *Principal*

Electrical Research & Development

Shri Vinod Gupta *Principal*

Dr K.T. Patel *Alternate*

IEEMA

Chairman-Power *Principal*

Smt. Anita Gupta *Alternate*

Indian Institute of Technology (Delhi)

Nomination awaited *Principal*

Larsen & Toubro Ltd

Shri R.G. Rane *Principal*

Shri D N Purohit *Alternate*

National Informatics Centre,

Shri Nomination awaited *Principal*

Nuclear Power Corporation of India Ltd

Shri Sanjoy Sarkar *Principal*

Shri Jeorge Sebastian *Alternate*

NTPC Ltd

Shri D.K. Chaturvedi *Principal*

Smt. C. Saroj *Alternate*

Phoenix Contact (India) Pvt Ltd

Shri Manchanda Ashish *Principal*

Shri Vishal Sharma *Alternate*

Power Grid Corporation of India Ltd.

Shri R.K. Chauhan *Principal*

Shri B.B. Mukherjee *Alternate*

Research Design & Standards Organisation

Shri Joshi S.S. *Principal*

Shri Rao R.K.V. *Alternate*

Steel Authority of India Ltd.

Shri Mazumder B. *Principal*

Shri Gupta V.P. *Alternate*

State Bank of India,

Shri Bhawe A.W. *Principal*

Shri Ramaswamy D. *Alternate*

Schneider Electric

Shri Thiagarajan *Principal*

Siemens Ltd.

Shri Benhur Paul Kurapaty *Principal*

Shri Shailendra Waghulde *Alternate*

ST Microelectronic

Shri Pradeep Kumar *Principal*

Telecom Engineering Centre

Shri Naveen Kumar *Principal*

Shri R.K. Sharma *Alternate*

TEMA

Shri Nomination Awaited *Principal*

Assn. Of UPS & Power Conditioning Systems

Shri Aggarwal Sanjay *Principal*

Shri Roy Robin *Alternate*

**COMPOSITION OF
ET 32 ELECTRICAL APPLIANCES**

Ministry of Communication & Information

Shri G.C. Saxena *Chairman*

Bureau of Indian Standards

Smt Nishat S. Haque *Member Secretary*

Bajaj Electricals Ltd.

Shri P.S. Tandon *Principal*

Shri K. Mani Nath *Alternate*

Shri Harchanran Singh *Second Alternate*

Bureau of Energy Efficiency

Dr. Sandeep Garg *Principal*

Central Electricity Authority

Shri Alok Gupta *Principal*

Shri R.K. Verma *Alternate*
Alternate

Govt. of Gujarat (IW),

Shri Shah S.R. *Principal*

Shri Mishra N.J. *Alternate*

Consumer Education and Research Centre

Alternate

Shri Shweta Mahajan *Principal*

Ms Shveta Seth *Alternate*

Crompton Greaves Ltd.

Shri Mayur Nadkarni *Principal*

Shri Mahindra *Alternate*

Shri Parwinder Singh *Second Alternate*

Central Power Research Institute

Shri A. Lourdhunadhan *Principal*

Shri Nagaraja Rao.V.N. *Alternate*

Central Public Works Department

Shri Mukesh Vij *Principal*
Alternate

Shri A. K. Goel *Alternate*

Development Commissioner Micro, Small

Shri R K Rai *Principal*

Shri A.K. Verma *Alternate*

Shri M U Farooq *Second Alternate*

Ministry of Defence

Shri S.K. Mahajan *Principal*

Shri Manoj Kaushik *Alternate*

Directorate General of Supplies &

Shri Senjeet Kumar *Principal*

Shri Rakesh Kumar *Alternate*

Department of Industrial Policy &

Shri S.K. Jain *Principal*

Shri Mohd.Zakaria Khan *Alternate*

Electrical Appliances Mfrs. Association

Shri J.K. Oberoi *Principal*

Shri Ramesh Khanna *Alternate*

Shri Prakash Atam *Second*

Electrical Research & Development

Dr Satish H. Chetwani *Principal*

Shri Nailesh S. Kadia *Alternate*

Shri Das T.D. *Second*

Electronics Regional Test Laboratory

Ms Manjula Bhati *Principal*

Indian Fan Manufacturers' Association

Shri C.M. Gupta *Alternate*

National Test House

Smt Uma Bhakta *Principal*

Shri T. Roy Barman *Alternate*

Philips Electronics India Ltd

Shri L.A. Kulkarni *Principal*

Shri P.V. Kotasthane *Alternate*

Shri Ashutosh Mittal *Second*

Racold Thermo Ltd.

Shri P.S. Ramesh *Principal*

Ms Alok Kumar Rathi *Alternate*

Research Design & Standards Organisation

Shri Prafulla Chandra *Principal*

Shri Suresh Chandra *Alternate*

SPHEREHOT WATER HEATERS PVT

Shri Doshi B.K. *Principal*

Shri Doshi Ketan B. *Alternate*

Venus Home Appliances (P) Ltd

Shri R. Iyadurai *Principal*

Shri I.Ram Kumar *Alternate*

Voluntary Organisation in Interest of

Shri Wadhwa H. *Principal*

Whirlpool of India Ltd

Shri Susil Kumar Michael *Principal*

Shri N. Krishna *Alternate*

**COMPOSITION OF
ET 33 WINDING WIRES**

Central Power Research Institute

Dr. J.Sundara Rajan *Chairman*

Bureau of Indian Standards

Ms Manju Gupta *Member Secretary*

Bharat Heavy Electricals Ltd.

Shri Goyal V.C *Principal*

Shri Vijayakumar R. *Alternate*

Central Electricity Authority

Shro A. K Rajput *Principal*

Shro H. R. Arora, *Alternate*

Crompton Greaves Ltd.

Shri Agnihotri S.D. *Principal*

Shri Nadkarni M.P. *Alternate*

Central Power Research Institute

Shri Asai Thambi *Principal*

Development Commissioner Micro, Small

Shri Rai R K *Principal*

Shri A. K. Verma *Alternate*

Shri M.U. Farooq *Second Alternate*

Ministry of Defence

Brig MMS Bharaj *Principal*

Col P. P. Singh *Alternate*

Elantas Beck India Ltd.

Shri Gokhale S.S. *Principal*

Shri Bapu Gowade *Alternate*

Electronics Corporation of India Ltd.

Shri Atul Jain *Alternate*

Electrical Research & Development

Dr Krishnamoorthy P.A. *Principal*

Dr. Shrinet V. *Principal*

Dr. Pandya N.R. *Alternate*

IEEMA

Shri Pande J. *Principal*

Kirloskar Electric Company Ltd.

SHRI Umesh G. *Principal*

Larsen & Toubro Ltd

Shri J.V. Parekh *Principal*

Shri A.G.Saoji. *Alternate*

National Aluminium Company Ltd.

SHRI Pani B.S *Principal*

Shri Nair M.K.B *Alternate*

National Test House

Shri Nandkumar S.B. *Principal*

Shri Jeyraj. K *Alternate*

Precision Wires India Limited, Mumbai

Shri Milan M. Metha *Principal*

Ram Ratna Wires Ltd

Shri Vijay L. Chandak *Principal*

Sanmar Speiality Chemicals Limited

Shri Choudhury M. *Principal*

South India Engineering Mfrs. Association

Shri Keshavarajulu R.G. *Principal*

Shri Rajendran G. *Alternate*

Winding Wires Assoc. of India

Shri Sudhi Agarwal *Principal*

Shri Anant Loya *Alternate*

**COMPOSITION OF
ET 34 INSTRUMENT TRANSFORMERS**

NTPC Ltd,		Shri Verma R.K.	<i>Principal</i>
Shri Pramod Kumar	<i>Chairman</i>	Shri Shivara Singh	<i>Alternate</i>
Bureau of Indian Standards		Electrical Research & Development	
Smt Manju Gupta	<i>Member Secretary</i>	Shri R.B. Desai	<i>Principal</i>
ABB Ltd.		Shri Trivedi U.C.	<i>Alternate</i>
Shri Patel J.J.	<i>Principal</i>	Gilbert & Maxwell Electricals Pvt. Ltd.	
Shri Desai V.J.	<i>Alternate</i>	Shri Deshpande N.S.	<i>Principal</i>
Areva T&D India Ltd (ALSTOM)		Shri Deshpande Pradeep	<i>Alternate</i>
Shri Mohan S.	<i>Principal</i>	Hivoltrans Electricals Pvt. Ltd.	
Shri Deepak V.	<i>Alternate</i>	Shri Akre G.V.	<i>Principal</i>
Areva T& D India Limited		Shri Karia V.R.	<i>Alternate</i>
Shri S. Mohan	<i>Principal</i>	Shri Chowdhury Roy.A.	<i>Second</i>
<i>Alternate</i>		Institute for Design of Elec. Meas.	
Shri V Deepak	<i>Alternate</i>	Shri Khaladkar S.G	<i>Principal</i>
Brihan Mumbai Electric Supply &		Shri Pradeep Gujrathi	<i>Alternate</i>
Shri R.S. Kale	<i>Principal</i>	IEEMA	
Shri K.D. Bhalerao	<i>Alternate</i>	Shri G.V. Akre	<i>Principal</i>
Bharat Heavy Electricals Ltd.		Ms Anita Gupta	<i>Alternate</i>
Shri K.S.R. Prasad	<i>Principal</i>	JSL Industries Ltd	
Shri Khurana K.K.	<i>Alternate</i>	Shri Kishor S. Jinsiwale	<i>Principal</i>
Central Board of Irrigation & Power		Karnataka Power Transmission	
Shri Director Energy	<i>Principal</i>	Shri K.G. Romesh	<i>Principal</i>
Shri R.S. Chadha	<i>Alternate</i>	Shri Krishnamoorthy	<i>Alternate</i>
Central Electricity Authority		Maharashtra State Electricity Board	
Shri A. Balan	<i>Principal</i>	Shri Sharadchandra	<i>Principal</i>
Shri M.S. Satija	<i>Alternate</i>	Maharashtra State Electricity	
Shri A.C. Arora	<i>Second Alternate</i>	Shri Madhusudan	<i>Alternate</i>
Crompton Greaves Ltd.		National Hydroelectric Power Corporation	
Shri Kulkarni J.G	<i>Principal</i>	Shri Rajesh Sharma	<i>Principal</i>
Shri Rao Pramod	<i>Alternate</i>	Shri M. Kannan	<i>Alternate</i>
Central Power Research Institute		National Physical Laboratory	
Shri S. Bhattacharya	<i>Principal</i>	Dr. S.R.Gupta	<i>Principal</i>
Shri Swaraj Kumar Das	<i>Alternate</i>		
Madhya Pradesh Power Transmission			

NTPC Ltd

Shri Bal Mukund Vyas

*Alternate*Shri Abhijit Sen *Principal*Shri Subhash Thakur *Alternate***Power Grid Corporation of India Ltd.**Shri A.P. Gangadharan *Principal*Shri S.B.R. Rao *Alternate*Shri Dheeraj Srivastava *Second Alternate***Pragati Electricals Pvt. Ltd.**Shri Prashant. P. Gune *Principal*Shri S.B. Diwadkar *Alternate***Prayog Electricals Pvt. Ltd.**Shri Mantri Vinayak Jayant *Principal*Shri Desai Sharmrao *Alternate***Siemens Ltd.**Shri Girish Lele *Principal*Shri Jyotirmoy Dutta *Alternate***Silkaans Electrical Mfg. Co. pvt. Ltd**Shri S.D. Jinsiwale *Principal*Shri Atul Jinsiwale . *Alternate***The Tata Power Co Ltd,**Shri T. Murlikrishna *Principal*Shri G.T. Jawale *Alternate***Tata Consulting Engineers**Shri V.K. Jain *Principal*Shri V.V. Bhat *Alternate***Transformers and Electricals Kerala**Shri Andu C.P. *Principal*Ms Isaac Nirmala *Alternate***Tamil Nadu Electricity Board**EE/MRT/Chengalpattu *Principal*Executive Engineer *Alternate***Vamet Electric Pvt. Ltd.**Shri Gopal Choudhry K. *Principal***Yadav Measurements Pvt Ltd**Shri Kiran S. Kelepure *Principal*

**COMPOSITION OF
ET 35 POWER SYSTEM RELAYS**

Delhi Electricity Regulatory Commission

Shri S.R. Sethi *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

ABB Ltd.

Shri V. Gopala Krishnan *Principal*

Shri Jagadish Anandrao *Alternate*

Areva T&D India Ltd (ALSTOM)

Shri Sujit Piri *Principal*

Shri Vivek Singal *Alternate*

Brihan Mumbai Electric Supply &

Shri S.K. Bakre *Principal*

Shri S. V. Fulpagare *Alternate*

Bharat Heavy Electricals Ltd.

Shri P. K. Upadhyay *Principal*

Shri Sarma K.V. *Alternate*

Shri Deshpande S.G. *Second Alternate*

Central Board of Irrigation & Power

Shri K.P. Singh *Principal*

Shri S.K. Batra *Alternate*

Central Electricity Authority

Shri Moti Lal *Principal*

Dy. Director (Substation) *Alternate*

CESC Limited

Shri Manik Basu *Principal*

Shri Sujit Kumar Pathak *Alternate*

Central Power Research Institute

Smt A. Amruthakala, *Principal*

Shri Kaliappan *Alternate*

Central Public Works Department

Shri Mukesh Vij *Principal*

Shri V. K. Mittal *Alternate*

Delhi Transco Ltd

Shri M.K. Chaudhary *Principal*

Shri R.M. Malhotra *Alternate*

Easun Ltd.

Shri George Punnoose *Principal*

Shri Muthukrishnan S. *Alternate*

Haryana Vidyut Prasaran Nigam Ltd.

Shri Maindiratta R.P. *Principal*

Shri Kumar M.L. *Alternate*

Madhya Pradesh Power Transmission

Shri Khorla B.P. *Principal*

Shri Shivraj Singh *Alternate*

IEEMA

Shri Amitabha Sarkar *Principal*

Ms Anita Gupta *Alternate*

Indian Institute of Science, Bangalore

Prof D. Thukaram *Principal*

Dr. L. Umanand *Alternate*

Indian Institute of Technology (Delhi)

Prof M.L. Kothari *Principal*

Dr. Sukumar Mishra *Alternate*

Jyoti Ltd

Dr. Thakkar K.K. *Principal*

Shri Narayanan T.K.L. *Alternate*

Madras Atomic Power Station

Shri Hariharan K *Principal*

Shri Sankaranarayanan N *Alternate*

Nuclear Power Corporation of India Ltd

Shri P. Ananda Rao *Principal*

Shri V. Subba Rao *Alternate*

NTPC Ltd

Shri A.K. Gupta *Principal*

Shri Abhijit Sen *Alternate*

Power Grid Corporation of India Ltd.

Shri Kailash Rathore *Principal*

Shri Rajil Srivastava *Alternate*

Siemens Ltd.

Shri Kuldeep Tickoo *Principal*

Shri Saurabh Srivastava *Alternate*

Tata Consulting Engineers

Ms L.R. Patil *Principal*

Shri A.J. Joshi *Alternate*

Tata Power Company Ltd

Shri J.D. Shrotri *Principal*

Shri T. Murlikrishna *Alternate*

Yokogawa Keonics Ltd.

Shri Narayanan R. *Alternate*

**COMPOSITION OF
ET 36 TOOLS AND EQUIPMENT FOR LIVE WORKING**

Power Grid Corporation of India Ltd.

Shri Rajesh Kumar *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

AP Trans Corporation

Director *Principal*

Bhakra Beas Management Board

Shri M.S. Tandon *Principal*

Shri S.K. Malik *Alternate*

Central Electricity Authority

Shri Narendra Singh *Principal*

Shri Farooque Iqbal, *Alternate*

Central Power Research Institute

Shri B. S. Ramesh *Principal*

Delhi Transco Ltd

Shri S.K. Sharma *Principal*

Shri Loveleen Singh *Alternate*

Haryana Vidyut Prasaran Nigam Ltd.

Shri V.B. Chaudhary *Principal*

Shri A.K. Diwan *Alternate*

TamilNadu Electricity Board

Superintending Engineer, *Principal*

Executive Engineer *Alternate*

Uttar Pradesh Power Transmission Corpn

Shri V.B. Singh *Principal*

Shri Surendra Narain *Alternate*

Escorts Ltd.

Shri Vinod Gupta *Principal*

Shri R.K. Kapoor *Alternate*

Maharashtra State Electricity

Shri S.A. Sattarke *Principal*

Shri R.H. Bidi *Alternate*

National Hydroelectric Power Corporation

Shri V.K. Singh *Principal*

Shri Lakhmi Chand *Alternate*

Nuclear Power Corporation of India Ltd

Shri K, P. Singh *Principal*

Shri Sandeep Y. Sarwate *Alternate*

NTPC Ltd

Smt Anita Pal *Principal*

Shri S.D. Singh *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Hariharan *Alternate*

**COMPOSITION OF
ET 37 CONDUCTORS AND ACCESSORIES FOR
OVERHEAD LINES**

Power Grid Corporation of India Limited		Haryana Vidyut Prasaran Nigam Ltd.	
Shri Rajesh Kumar	<i>Chairman</i>	Shri Kausik H.C.	<i>Principal</i>
Bureau of Indian Standards		Shri Gaba A.C.	<i>Alternate</i>
Smt Manju Gupta	<i>Member Secretary</i>	Madhya Pradesh Power Transmission	
Apar Industries Limited		Shri Tiwari R.K.	<i>Principal</i>
Shri Harish Singh	<i>Principal</i>	Shri Ashok Kumar Bajpai	<i>Alternate</i>
Shri S.K. Jana	<i>Alternate</i>	Maharashtra State Transco Ltd	
Bharat Aluminium Co. Ltd.		Shri Hirlekar A.M.	<i>Principal</i>
Shri S. Prasad	<i>Principal</i>	SHRI Shri Gaba A.C	<i>Alternate</i>
Shri N. Balakrishnan	<i>Alternate</i>	Uttar Pradesh Power Transmission Corpn	
Shri Kamal Karmakar	<i>Second Alternate</i>	Shri Alimchandani M.B.	<i>Principal</i>
Cable & Conductor Mfrs. Association of		Shri Bhatia Y.K.	<i>Alternate</i>
Shri Sharma Alok	<i>Principal</i>	EMI Transmission Pvt. Ltd.	
Central Board of Irrigation & Power		Nomination Awaited	<i>Principal</i>
Shri S.C. Nakra	<i>Principal</i>	Galada Power & Telecommunication Ltd.	
Shri Vishan Dutt	<i>Alternate</i>	Shri Galada D.C.	<i>Principal</i>
Central Electricity Authority		Shri Parekh E.K.	<i>Alternate</i>
Shri D.K Jain	<i>Principal</i>	Shri Purushothama	<i>Second</i>
<i>Alternate</i>		Hindusthan Vidyut Products Ltd.	
Shri R.K Tiwari	<i>Alternate</i>	Shri Jhunjhunwala M.K.	<i>Principal</i>
CESC Limited		Shri Gupta O.P	<i>Alternate</i>
Shri Arup Dutta Gupta	<i>Principal</i>	IEEMA	
Shri Tarun Kumar	<i>Alternate</i>	Nomination Awaited	<i>Principal</i>
Central Power Research Institute		Modern Malleable Ltd.	
Shri Anantha Babu M.D	<i>Principal</i>	Shri Jhunjhunwala B.N.	<i>Principal</i>
Shri D. Revanna	<i>Alternate</i>	Shri Sengupta G.	<i>Alternate</i>
Development Commissioner Micro, Small		National Hydroelectric Power Corporation	
Shri R K Rai	<i>Principal</i>	Shri Mathur R.B.	<i>Principal</i>
Shri A.K. Verma	<i>Alternate</i>	Shri Y.D. Khanduja	<i>Alternate</i>
Shri M U Farooq	<i>Second Alternate</i>	National Test House	
Delhi Transco Ltd		Shri Mathur S.K.	<i>Principal</i>
Shri Sethi K.S.	<i>Principal</i>	Shri Somu P.	<i>Alternate</i>
Shri Shastri B.D.	<i>Alternate</i>		

NTPC Ltd

Shri C.K. Thakur *Principal*

Smt I.J. Singh *Alternate*

Power Grid Corporation of India Ltd.

Shri Agarwal K.K. *Principal*

Shri Rajesh Kumar *Alternate*

Research Design & Standards Organisation

Nomination Awaited *Principal*

Nomination Awaited *Principal*

Rural Electification Corporation Ltd.

Shri Kumar Dinesh *Principal*

Shri Hariharan P.S. *Alternate*

Sterlite Technologies Ltd

Shri TAN Reddy *Principal*

Shri T Ganesh Kumar *Alternate*

Shri Rakesh Shankar *Second Alternate*

Shri Siraj Bhattacharya *Second Alternate*

Tag Corporation

Shri Gopalan R.V. *Principal*

Shri Chari T. Vivek *Alternate*

The Tata Power Co Ltd,

Shri Bhisey P.P. *Principal*

Shri S.V. Deshmukh *Alternate*

Telecom Engineering Centre

Shri U.N. Bajpayi *Principal*

Shri A K Vohra *Alternate*

Tamil Nadu Electricity Board

Principal

Alternate

COMPOSITION OF ET 39 FUSES

Larsen & Toubro Ltd

Shri H.T. Mistry *Chairman*

Bureau of Indian Standards

Ms Nishat S. Haque *Member Secretary*

Cooper Bussmann India Pvt. Ltd

Shri Aravind. C *Principal*

Shri K. Sakthidharan *Alternate*

Central Electricity Authority

Smt Alok Gupta *Principal*

Shri R.K. Verma *Alternate*

Central Power Research Institute

Shri M. K. Wadhvani *Principal*

Shri B.V. Raghavaiah *Alternate*

Shri B. R. Ravishankar *Second Alternate*

Central Public Works Department

Shri SE (E), PLP *Principal*

Shri EE (E), S&S *Alternate*

Directorate General of Supplies &

Shri R.S. Pandey *Principal*

Shri P.M. Wanzari *Alternate*

Maharashtra State Transco Ltd

Shri Joshi R.B. *Principal*

Punjab State Electricity Board

Shri Pabla R.S. *Principal*

Shri Gupta S.K. *Alternate*

TamilNadu Electricity Board

Supertending Engg *Principal*

Executive Engg *Alternate*

Eon Electric Limited

Shri P.K. Ranade *Principal*

Shri Vinay Mahendru *Alternate*

GE India Industrial Pvt Ltd.

Shri B. Suresh *Principal*

Shri Anil Kumar Pandit *Alternate*

IEEMA

President (Switchgear) *Principal*

Shri J. Pande *Alternate*

Shri Kaul C.J. *Alternate*

Jyoti Ltd

Shri Desai V.B. *Principal*

Shri Gajjar N.K. *Alternate*

Larsen & Toubro Ltd

Shri C.S. Kore *Principal*

Shri G.R. Shetye *Alternate*

MERSEN India Pvt Ltd

Shri Ranga Rao Naidu *Principal*

Shri Santosh R. *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Hariharan *Alternate*

Siemens Ltd.

Shri Baban Shinde *Principal*

Shri Advait Sukhtankar *Alternate*

Tata Consulting Engineers

Shri V.K. Jain *Principal*

Shri Utpal Priyadarshi *Alternate*

Western India Switchgear Mfrs.

Shri Nayan N. Shah *Principal*

Shri Shashin N. Shah *Alternate*

**COMPOSITION OF
ET 40 HVDC POWER SYSTEMS**

In Personal Capacity

Shri Prasher V.K. *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

ABB Ltd.

Shri R.S. Moni *Principal*

Areva T&D India Ltd (ALSTOM)

Shri Rakesh Singh *Principal*

Dr. Mepal Patel *Alternate*

Bharat Heavy Electricals Ltd.

Shri J.S. Kuntia *Principal*

Shri S.K. Gupta *Alternate*

Central Electricity Authority

Dr. Prabhat Mohan *Principal*

Shri Director (Substation) *Alternate*

Crompton Greaves Ltd.

Shri Lakhiani V.K. *Principal*

Central Power Research Institute

Smt. K. S. Meera *Principal*

Smt. J. Sreedevi *Alternate*

AP Transmission Company

Shri Gopalchari *Principal*

Shri Laxman Rao. T. *Alternate*

Maharashtra State Transco Ltd

Shri Nadkarni J.V. *Principal*

Shri Ahfaz M. *Alternate*

Uttar Pradesh Power Transmission Corpn

Shri Dinesh Chandra *Principal*

Shri S.L. Ukil *Alternate*

Shri Ravindra Kumar Sharma *Second Alternate*

Representative of ET 19

NOMINATION *Principal*

Representative of ET 20

Nomination Awaited *Principal*

Representative of ET 30

Shri Kasturi K *Principal*

Representative of ET 31

Shri Mahendroo P.N. *Principal*

Representative of ET 37

Shri Kaushik H.C. *Principal*

Indian Institute of Science, Bangalore

Prof Nagabhushana G.R. *Principal*

Dr. Satish L. *Alternate*

Larsen & Toubro Ltd

Shri S. Rajavel *Principal*

Shri D. Maheswaran *Alternate*

NTPC Ltd

Shri Ajit Kumar *Principal*

Shri Pramod Kumar *Alternate*

Power Grid Corporation of India Ltd.

Shri R.K. Chauhan *Principal*

Shri M.R. Chauhan *Alternate*

Siemens Ltd.

Shri Sunil Lalla *Principal*

Shri Rajesh Suri *Alternate*

Tata Consulting Engineers

Shri K.G. Krishnamurthy *Principal*

Shri N.D. Chaoji *Alternate*

Tamil Nadu Electricity Board

Shri Chief Engineer *Principal*

Shri *Alternate*

W.S. Industries (India) Ltd

Shri P. Sridharan *Principal*

Shri N.V. Ramkumar *Alternate*

**COMPOSITION OF
ET 42 WIND TURBINES**

Ministry of New and Renewable Energy

Dr. S. Gomathinayagam *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

Bharat Heavy Electricals Ltd.

Nomination Awaited *Principal*

Central Power Research Institute

Shri S. Shyam Sundar *Principal*

Centre for Wind Energy Technology(Stds. &

Shri A. Senthil Kumar *Principal*

Centre for Wind Energy

Shri S.A. Mathew *Principal*

TamilNadu Electricity Board

Chief Engineer *Principal*

Superintending Engineer *Alternate*

Enercon (India) Ltd.

Shri M.P. Ramesh *Principal*

Indian Institute of Science, Bangalore

Prof V.T. Ranganathan *Principal*

Dr Vinod Johr *Alternate*

Indian Institute of Technology (Delhi)

Prof Bhatt *Principal*

Indian Institute of Technology (MUMBAI)

Prof B.G. Fernandes *Principal*

Jopasana Software and Systems Pvt. Ltd

Nomination Awaited *Principal*

Karnataka Power Corporation Ltd.

Shri G. Rathnamma *Principal*

Maharashtra State Electricity Distribution

Shri D.D. Wangikar *Principal*

National Aerospace Laboratories

Dr. J. J. Isaac *Principal*

Shri Kanakamuthu *Alternate*

National Productivity Council

Nomination Awaited *Principal*

RRB Energy Ltd.

Shri Sarvesh Kumar *Principal*

Shri K. Sriramalingam *Alternate*

Rajasthan Renewable Energy Corporation

Shri Sunit Mathur *Principal*

Shri Mukesh Vyas *Alternate*

Suzlon Energy Ltd.,

Shri Chintan Shah *Principal*

The Energy and Resources Institute

Shri Mahesh Vipradas *Principal*

Shri Amit Kumar *Alternate*

Tata Power Company Ltd

Shri Rajiv B. Samant *Principal*

Shri Paresh Sahasrabndhe *Alternate*

**COMPOSITION OF
ET 43 STANDARDIZ OF ENVIR ASPECTS OF
ELECTRICAL & ELECTRONICS PRODUCTS**

Department of Information Technology		Dr. Sandip Chatterjee	<i>Alternate</i>
Dr. Krishna Kumar	<i>Chairman</i>	Larsen & Toubro Ltd	
Bureau of Indian Standards		Shri C. S. Kore	<i>Principal</i>
Shri Sumit Sengar	<i>Member Secretary</i>	Shri Ganesh Ramchandra	<i>Alternate</i>
Bharat Electronics Ltd.		Manufacturers Association for	
Shri H. S. Shashi Bhushana	<i>Principal</i>	Shri Ashwini Aggarwal	<i>Principal</i>
Central Pollution Control Board		Shri Amit Chadha	<i>Alternate</i>
Ms. Mita Sharma	<i>Principal</i>	Dr. Lakshmi Raghupat	<i>Second</i>
<i>Alternate</i>		Ministry of Communication & Information	
Ms. P. K. Selvi	<i>Alternate</i>	Dr. U.C. Pandey	<i>Principal</i>
Central Power Research Institute		Shri V.C. Sethi	<i>Alternate</i>
Shri V.V. Pattanshetti,	<i>Principal</i>	Voluntary Organisation in Interest of	
Dr. C. Jayarama Naidu	<i>Alternate</i>	Shri H. Wadhwa	<i>Principal</i>
Electronics & Computer Software Export		Shri K. C. Chaudhary	<i>Alternate</i>
Shri D.K. Sareen	<i>Principal</i>		
ELCINA			
Shri Raju Goel,	<i>Principal</i>		
Electric Lamp & Component Mfrs. Assn of			
Shri Shyam Sujan	<i>Principal</i>		
Shri H.S. Mamak	<i>Alternate</i>		
Shri Rajeev Chopra	<i>Second Alternate</i>		
IEEMA			
Shri Amitabha Sarkar,	<i>Principal</i>		
Shri J. Pande	<i>Alternate</i>		
Shri Sudeep Sarkar	<i>Second Alternate</i>		
Indian Institute of Toxicology Reseach			
Dr. R. C. Murthy	<i>Principal</i>		
In personal Capacity			
Dr. N.C. Trehan	<i>Principal</i>		
Indian Society of Lighting Engineers			
Sh. S. Venkataramani	<i>Principal</i>		
Sh. N. Nagarajan	<i>Alternate</i>		
Department of Information Technology			