

ANNEX 1
COMPOSITION OF DCELECTROTECHNICAL DIVISION COUNCIL

Central Power Research Institute

Shri V. S. Nanda Kumar *Chairman*

Bureau of Indian Standards

Shri Rajeev Sharma *Member Secretary*

Association of Indian Dry Cell

Shri Ravi Grover *Principal*

Areva T&D India Ltd (ALSTOM)

Shri M. Vijaykumaran *Principal*

Bureau of Energy Efficiency

Shri Ashish Saraswat *Principal*

Shri Saurabh Didi *Alternate*

Bharat Heavy Electricals Ltd.

Shri Babu B.Y. *Principal*

Shri A.C.Aron *Second Alternate*

Central Board of Irrigation & Power

Shri Kanjalia V. K. *Principal*

Shri Wahi P. P. *Alternate*

Central Electricity Authority

Smt Vandana Singal *Principal*

Shri Y.K.Swarnkar *Alternate*

CESC Limited

Shri Sukanta Basu *Principal*

Shri J. R. Bhattacharya *Alternate*

Crompton Greaves Ltd.

Shri Dineh Nimje *Principal*

Shri Ashok Kulkarni *Alternate*

Confederation of Indian Industry

Shri Anupum Kaul *Principal*

Central Power Research Institute

Dr R S Shivakumara Aradhya *Principal*

Shri M A Ansari *Principal*

Central Public Works Department

Shri K.K. Sharma *Principal*

Shri M.K. Verma *Alternate*

Development Commissioner Micro, Small &

Dr. S K Sahoo *Principal*

Shri Dhanendra Prasad *Alternate*

Ministry of Defence

Shri V.K. Chhabra *Principal*

Lt. Col Praveen Deo *Alternate*

Delhi Electricity Regulatory Commission

Nomination Awaited *Principal*

DG Factory Advisory Services & Labour

Shri Sumit Roy *Principal*

Shri Upendra Singh *Alternate*

Directorate General of Mines Safety

Shri Dharmendra Kumar *Principal*

Shri B.K. Panigrahi *Alternate*

Directorate General of Supplies & Disposals

Shri S.K. Kataria *Principal*

Shri P. Singhal *Alternate*

Shri Anil Gupta *Second Alternate*

Department of Industrial Development

Shri S.K. Jain *Principal*

Shri Yusufzai Khan M.Z. *Alternate*

Delhi Transco Ltd

Shri R.S.Meena *Principal*

Shri B.L.Gujar *Alternate*

Kerala Electricity Board

Shri G. Srinivasan *Principal*

Electrical Contractors Association of

Shri Anil Gachke *Principal*

Shri Pradeep Shah *Alternate*

Engineers India Ltd.

Shri BR Bhogal *Principal*

Shri Parag Gupta *Alternate*

Electric Lamp & Component Mfrs. Assn of

Shri Shyam Sujan *Principal*

Electrical Research & Development

Dr. M. K. Shah *Principal*
Shri H.K. Mishra *Alternate*
Dr. Dr. V. Shrinet *Second Alternate*

Federation of Association of Small Industries

Shri Ramesh Khanna *Principal*
President *Alternate*

IEEMA

Director Genral *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 Dilip Kumbhat *Principal*
Dr Prakash Barjatia *Alternate*

National Hydroelectric Power Corporation

Shri Ratish Kumar *Principal*
Shri Janardan Choudhary *Alternate*

Nuclear Power Corporation of India Ltd

Shri Sanjay Sarkar *Alternate*
Shri P. Ananda Rao *Alternate*

National Physical Laboratory

Shri Mittal M.K. *Principal*

National Test House

Shri Thanu *Principal*
Shri Dutta D.K. *Alternate*

NTPC Ltd

Shri Pramod Kumar *Principal*
Shri Dinakar Devate *Alternate*

Electricity-cum-PCEI

Shri Aswini Kumar Das *Principal*
Shri Sudhansu Sekhar Pati *Alternate*
Shri Rajan Kumar Nayak *Second Alternate*

Power Grid Corporation of India Limited

Shri Omman Chandy *Principal*

Research Design & Standards Organisation

Shri A L Mathur *Principal*
Shri Kishore Kumar *Alternate*
Shri Sanjiv Swarup *Second Alternate*

Rural Electification Corporation Ltd.

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

Reliance Energy Ltd.

Shri Krishna kumar P, *Principal*

Siemens Ltd.

Shri Girish Karnik *Principal*
Shri Rattan Bhardwaj *Alternate*

The Tata Power Co Ltd,

Shri Pillai *Principal*
Shri D. Raina *Alternate*

Voluntary Organisation in Interest of

Shri K C Chaudhary *Alternate*

ANNEX 1
COMPOSITION OF
ET 01 BASIC ELECTROTECHNICAL STANDARDS

Jamia Milia Islamia		Shri Sharma S.P.	<i>Principal</i>
Dr. Mini Thomas	<i>Chairman</i>	Nuclear Power Corporation of India Ltd	
Bureau of Indian Standards		Shri N.Sankaranarayanan	<i>Principal</i>
Ms Neha Agarwal	<i>Member Secretary</i>	Shri Sriramrao	<i>Alternate</i>
ABB Ltd.		National Physical Laboratory	
Dr Shendre Yogesh	<i>Principal</i>	Dr V.N. Ojha	<i>Principal</i>
Shri Khandkar A.A.	<i>Alternate</i>	National Test House	
Bharat Heavy Electricals Ltd.		Smt Uma Bhakta	<i>Principal</i>
Shri S K R Meena	<i>Principal</i>	Shri S.K. Dutta	<i>Alternate</i>
Shri Sunil Bokade	<i>Alternate</i>	Power Grid Corporation of India Limited	
Central Electricity Authority		Shri Subir Sen	<i>Principal</i>
Smt Vandanda Singal	<i>Principal</i>	Shri Y.K. sehgal	<i>Alternate</i>
Shri Pawan Gupta	<i>Alternate</i>	Research Design & Standards Organisation	
Central Power Research Institute		Shri B. S. Bodh	<i>Principal</i>
Dr. N. Vasudev	<i>Principal</i>	Shri Bhatnagar Sumit	<i>Alternate</i>
Dr Pradeep M Nirgude	<i>Alternate</i>	Rural Electrification Corporation Ltd.	
Central Public Works Department		Shri Dinesh Kumar	<i>Principal</i>
	<i>Principal</i>	Shri P.S. Hariharan	<i>Alternate</i>
Shri M.K.Verma	<i>Alternate</i>	Siemens Ltd.	
DG Factory Advisory Services & Labour		Shri Kaustuv Roy	<i>Principal</i>
Shri Sushil Kumar	<i>Principal</i>	Shri Dinesh Pawar	<i>Alternate</i>
Shri Jai Narayan	<i>Alternate</i>	Shri Amit Kumar Saha	<i>Alternate</i>
Electrical Contractors Association of		Tamil Nadu Electricity Board	
Shri Anil R. Gachke	<i>Principal</i>	Shri C.Santhana Gopala	<i>Principal</i>
Shri Pradeep Shah	<i>Alternate</i>	Shri K. Gopinathan	<i>Alternate</i>
Engineers India Ltd.			
Shri J.M. Singh Baweja	<i>Principal</i>		
Shri U.A. Patro	<i>Alternate</i>		
Shri Varun Bansal	<i>Second Alternate</i>		
Electrical Research & Development			
Dr. Vinod Gupta	<i>Principal</i>		
Shri H. K. Mishra	<i>Alternate</i>		
IEEMA			
Shri J.Pande	<i>Alternate</i>		
Larsen & Toubro Ltd			

**ANNEX 1
COMPOSITION OF**

ET 02 SOLID ELECTRICAL INSULATING MATERIALS

Electrical Research & Development		Nomination awaited	<i>Principal</i>
Dr. V.Srinet	<i>Chairman</i>	IEEMA	
3 M Indian Ltd.		Vivek Arora	<i>Principal</i>
RS Madahava Murthy	<i>Principal</i>	Shri K. Seetharaman	<i>Alternate</i>
Kaushik Banik	<i>Alternate</i>	Indian Institute of Science, Bangalore	
Permeet Singh	<i>Second Alternate</i>	Nominated awaited	<i>Principal</i>
Bureau of Indian Standards		Lakshmanan Isola Ltd	
Ms. Neha Mangal	<i>Member Secretary</i>	Shri Basu A.K.	<i>Principal</i>
ABB Ltd.		Shri Shukla A.K.	<i>Alternate</i>
Shri Gagan Mehra	<i>Principal</i>	National Hydroelectric Power Corporation	
Bhabha Atomic Research Centre		Shri M.G. Gokhale	<i>Principal</i>
Shri Ramteke P.K.	<i>Principal</i>	Smt. Shubhra Shah	<i>Alternate</i>
Shri Santosh S.	<i>Alternate</i>	National Test House	
Bharat Heavy Electricals Ltd.		Shri Md. Najmuddin	<i>Principal</i>
Shri J. M. Jagadishwa	<i>Principal</i>	Shri S.K. Menon	<i>Alternate</i>
Shri Laxmi Rajam M	<i>Alternate</i>	NTPC Ltd	
Shri Akshay Dave	<i>Second Alternate</i>	Shri D.K. Chaturvedi	<i>Principal</i>
Central Electricity Authority		Shri P.K. Basu	<i>Alternate</i>
Shri Vivek Goel	<i>Principal</i>	Power Grid Corporation of India Limited	
Smt Kavita Jha	<i>Alternate</i>	Shri Mukesh Mathur	<i>Principal</i>
Cummins Generators		Permali Wallace Ltd.	
Nomination awaited	<i>Chairman</i>	Shri Kodesai SK	<i>Principal</i>
Central Power Research Institute		Dr. B. S. Parmar	<i>Alternate</i>
Smt. S. Ganga	<i>Principal</i>	Sabic Research & Technology Pvt. Ltd.	
Dr. Rajan Sundar	<i>Alternate</i>	Shri Sunil Kumar Rauto	<i>Principal</i>
Shri P Saddashiva Murty	<i>Alternate</i>	Schneider Electric India Pvt. Ltd.	
Ciba Specialty Chemicals (India) Ltd.		Shri Satheesh Kumar	<i>Principal</i>
Nominated awaited	<i>Principal</i>	Senapathy Whiteley Ltd.	
Elantas Beck India Ltd.		Shri Ravishankar Raju	<i>Principal</i>
Shri Kulthe Abhay	<i>Principal</i>	Shri S A Govindraju	<i>Alternate</i>
Shri S.V. Joshi	<i>Alternate</i>	Shriram Institute for industrial Research	
Electrical Research & Development		Dr. P.K. Kaicker	<i>Principal</i>
Shri M.J Patel	<i>Principal</i>	Dr. R.K. Raina	<i>Alternate</i>
Dr. S.M. Fainikar	<i>Alternate</i>		
GE Plastics			

Siemens Ltd.

Shri Ashish Shere *Principal*

Shri Pradeep Ranade *Alternate*

Senapathy Whiteley Pvt. Ltd

Shri Tushar Udgata *Principal*

Shri S. A. Govindaraj *Alternate*

Toshiba Transmission & Distribution

Shri Kosuke Sasage *Principal*

Universal Cables Ltd.

Nomination awaited *Chairman*

U L India Pvt. Ltd.

Shri Prasad Shankarappa *Principal*

Shri V. Manjunath *Alternate*

Shri Kantha Guru Sharan *Alternate*

ANNEX 1
COMPOSITION OF
ET 03 FLUIDS FOR ELECTROTECHNICAL APPLICATIONS

Bureau of Indian Standards		Shri V. N. Nagaraja Rao	<i>Principal</i>
Ms Meghna Mudgal	<i>Member Secretary</i>	Dr. D. Ravindra	<i>Alternate</i>
ABB Ltd.		Shri G.R. Viswanath	<i>Second Alternate</i>
Shri P. Ramachandran	<i>Principal</i>	Punjab State Electricity Board	
Shri Tarun Garg,	<i>Alternate</i>	Nomination awaited	<i>Principal</i>
ALSTOM Transmission and Distribution		U.P. Rajya Vidyut Utpadan Nigam Ltd	
Shri M. Vijayakumaran	<i>Principal</i>	Shri Girish	<i>Principal</i>
Shri Abhilash Mishra	<i>Alternate</i>	ECE Industries Ltd.	
Ms Tanvi Srivastava	<i>Second Alternate</i>	Nomination awaited	<i>Principal</i>
Apar Industries Limited		ELICO Limited	
Dr. T.C.S.M. Gupta	<i>Principal</i>	Shri T. V. Shiva Rao	<i>Principal</i>
Shri Jagannathan D.V.	<i>Alternate</i>	Shri R. B. V. V. N. Raju	<i>Alternate</i>
Shri Sanjay Abhyankar	<i>Second Alternate</i>	EMCO Ltd.	
Bharat Heavy Electricals Ltd.		Nomination awaited	<i>Principal</i>
Shri S.K.Gupta	<i>Principal</i>	Electrical Research & Development	
Shri G.Lalwani	<i>Alternate</i>	Dr. M.J. Patel	<i>Principal</i>
Bharat Petroleum Corporation Limited		Dr Vikram C. Patel	<i>Alternate</i>
Dr. A. Rajendiran	<i>Principal</i>	GETCO	
Shri Kashinath Sutar	<i>Alternate</i>	Nomination awaited	<i>Principal</i>
Dr. Bharat L.Newalkar	<i>Second Alternate</i>	Hindustan Petroleum Corporation Ltd	
B.R. Industrial Services		Shri Amitabh Kumar Jain	<i>Principal</i>
Shri Shirish L. Deshmukh	<i>Principal</i>	Shri Abhijit Sarkar	<i>Alternate</i>
Cargill India Private Limited		Shri Rak Kumar Meena	<i>Second Alternate</i>
Shri Rajaram Shinde	<i>Principal</i>	IEEMA	
Shri Udipt Agarwal	<i>Alternate</i>	Chairman-Electr Insulating	<i>Principal</i>
Central Electricity Authority		Shri K. Seetharaman	<i>Alternate</i>
Shri Pankaj gupta	<i>Principal</i>	Indian Oil Corporation Ltd.	
Shri B.R. Allwani	<i>Alternate</i>	Dr. S.K.Majumdar	<i>Principal</i>
CESC Limited		Dr. A. K. Jaiswal	<i>Alternate</i>
Shri Chakraborty Sanjay	<i>Principal</i>	Indian Transformers Manufacturers	
Shri Bose R.N.,	<i>Alternate</i>	Shri Ashok Kumar Kaul	<i>Alternate</i>
Crompton Greaves Ltd.		M&I Materials India Pvt. Ltd	
Dr Venkatasasami. A	<i>Principal</i>	Shri Nitin Satija	<i>Principal</i>
Shri Krishnan S.	<i>Alternate</i>		
Central Power Research Institute			

Nuclear Power Corporation of India Ltd

Shri Sanjeev Kumar Tiwari *Principal*

Smt. Gunjan *Alternate*

NTPC Ltd

Shri Dinkar Devate *Principal*

Shri S. D. Singh *Alternate*

Power Grid Corporation of India Limited

Shri B.N. De. Bhowmic *Principal*

Shri Gunjan Agarwal *Alternate*

Research Design & Standards Organisation

Shri Sujeet Mishra *Principal*

Shri Arvind Kumar *Alternate*

Raj Petro Specialities Pvt. Ltd.

Shri Nalin J Nanavati *Principal*

Shr Daya Shukla *Alternate*

Savita Chemicals Ltd.

Shri Ramnath Nayak *Principal*

Dr C. S. Narasimhan *Alternate*

Shri Vinod K. Rishi *Second Alternate*

Siemens Ltd.

Shri Dilip Khandekar *Principal*

Tamil Nadu Electricity Board

Chief Engineer *Principal*

Executive Engineer *Alternate*

Tata Power Company Ltd

Shri Ramchandran Pillai *Principal*

Shri Chintamani Chitnis *Alternate*

Universal Petrochemicals Ltd.

Shri Halwasiya P.K. *Principal*

Shri Smt Aparna Naik *Alternate*

ANNEX 1
COMPOSITION OF
ET 06 ELECTRICAL INSULATORS AND ACCESSORIES

NTPC Ltd,		West Bengal State Electricity Board	
Shri S.S.Mishra	<i>Chairman</i>	Nomination awaited	<i>Principal</i>
Bureau of Indian Standards		Electrical Research & Development	
Ms. Neha Agarwal	<i>Member Secretary</i>	Shri A.S. Khopkar	<i>Principal</i>
Aditya Birla Insulators Co.		Smt S.S.Godkhindi	<i>Alternate</i>
Shri Vikas Khosla	<i>Principal</i>	GETCO	
Shri Debashis Chakraborty	<i>Alternate</i>	Nomination awaited	<i>Principal</i>
A P Transco		Goldstone Infrastructure Ltd.	
Shri S. Subramaniam	<i>Alternate</i>	Col (R) M B Jauhri	<i>Principal</i>
Areva Transmission and Distribution		Shri B Kiran Kumar Reddy	<i>Alternate</i>
Smt Elizabeth Johnson	<i>Principal</i>	IEEMA	
Shri S. Mohan	<i>Alternate</i>	Shri Samir kumar Ghosh	<i>Principal</i>
Bharat Heavy Electricals Ltd.		Shri J. Pande	<i>Principal</i>
Shri S. Jithender Reddy	<i>Principal</i>	Shri Naveen Upreti	<i>Alternate</i>
Shri Upendra Deep	<i>Alternate</i>	Jaipur Glass & Potteries	
Shri Aseem Dhamija	<i>Second Alternate</i>	Shri Romana Karnail Singh	<i>Principal</i>
Central Electricity Authority		Shri Data Daya Kishan	<i>Alternate</i>
Shri P.K. Mishra	<i>Principal</i>	Karnataka Power Transmission Corpn Ltd	
Shri S. Chandra Sekhar Rao	<i>Alternate</i>	Shri Krishnamurthy Naik K.	<i>Principal</i>
CESC Limited		Shri K.Lakshminarayana	<i>Alternate</i>
Shri J. Basu Roy	<i>Principal</i>	Modern Malleable Ltd.	
Shri Tapash Roy	<i>Alternate</i>	Shri B.N. Jhunjhunwala	<i>Principal</i>
Central Power Research Institute		Shri Archit Jhunjhunwala	<i>Alternate</i>
Dr. N. Vasudev	<i>Principal</i>	Modern Insulators Ltd.	
Shri B.M. Mehra	<i>Alternate</i>	Shri L.K. Sachdeva	<i>Principal</i>
Shri Dharmesh.Y	<i>Second Alternate</i>	Shri Mukesh Vyas	<i>Alternate</i>
Ministry of Defence		Shri A.S.Chandermohansingh	<i>Second Alternate</i>
Col V Vijaya Gopal	<i>Principal</i>	NDPL	
Shri James Peter	<i>Alternate</i>	Shri Ashok Saraf	<i>Principal</i>
Department of Telecommunications		Shri Ashok Saraf	<i>Principal</i>
Shri Pradeep Nettur	<i>Principal</i>	National Test House	
Shri J.S.Yadav	<i>Alternate</i>	Shri S.K. Mathur	<i>Principal</i>
Epsilon Asia Group		Shri P.K. Bera	<i>Alternate</i>
Shri Neelesh Arora	<i>Principal</i>		
Shri Rex Pereira	<i>Alternate</i>		

NTPC Ltd

Shri S.D. Singh *Principal*

Ms Pal Anita *Alternate*

Power Grid Corporation of India Limited

Shri Rajesh Kumar *Alternate*

Punjab State Transmission Corp. Ltd,

Chief Engineer/TL *Principal*

Superintending Engineer, *Alternate*

Research Design & Standards Organisation

Shri V.K. Upadhyaya *Principal*

Shri Manoj Kumar *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar *Principal*

Shri P.S. Havihavan *Alternate*

Siemens Ltd.

Shri Milind Bhagwat *Principal*

Smt. Sujata J. Paranjape *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 K.S. Ramiah *Principal*

Dr. V. Sreeram *Alternate*

ANNEX 1
COMPOSITION OF
ET 07 LOW VOLTAGE SWITCHGEAR AND CONTROLGEAR

Novateur Electrical and Digital Systems		Smt Sumbul Munshi	<i>Second Alternate</i>
Shri Mukesh Chawla	<i>Principal</i>	Central Public Works Department	
Shri Suresh Deotalu	<i>Alternate</i>	Shri CE(E)PLP.	<i>Principal</i>
Bureau of Indian Standards		Shri Sandhu H.S	<i>Alternate</i>
Shri Sudheer Bishnoi	<i>Member Secretary</i>	Development Commissioner Micro, Small &	
ABB India Ltd.		Dr. S. K. Sahoo	<i>Principal</i>
Shri Dev Chandra Kuril	<i>Principal</i>	Shri Dhanendra Prasad	<i>Alternate</i>
BCH Electric Ltd.		Shri S.K. Saini	<i>Second Alternate</i>
Shri Patro UAK	<i>Principal</i>	Directorate General of Supplies & Disposals	
Brihan Mumbai Electric Supply & Transport		Shri Mishra P.K.	<i>Principal</i>
Shri U.Y. Vajandar	<i>Principal</i>	Shri Subramanian V.	<i>Alternate</i>
Shri K.D. Bhalerao	<i>Alternate</i>	TamilNadu Electricity Board	
Bharat Heavy Electricals Ltd.			<i>Principal</i>
Shri Meena Kesari	<i>Principal</i>		<i>Alternate</i>
Bharat Heavy Electricals Ltd.,Bhopal		Elmex Controls Pvt Ltd	
Shri Neelam Bhogal	<i>Second Alternate</i>	Shri Robin Virani	<i>Principal</i>
Bharat Heavy Electricals Ltd.,Hyderabad		Shri Vipul Ray	<i>Alternate</i>
Shri Ravi Jatoth	<i>Alternate</i>	Mrs. Neha Gandhi	<i>Second Alternate</i>
Ms Vijaya Bhaskar Anumula	<i>Second Alternate</i>	Electrical Research & Development	
Central Electricity Authority		Shri Goutam Som	<i>Principal</i>
Smt Vandana Singal	<i>Principal</i>	Mr H. K. Mishra	<i>Alternate</i>
Shri O.P. Suman	<i>Alternate</i>	GE Energy Management System	
CESC Limited		Shri Devendra K Sharma	<i>Principal</i>
Shri S.K. Pathak	<i>Principal</i>	Shri Dharamveer Bathla	<i>Alternate</i>
Shri Bratin Banerjee	<i>Alternate</i>	Hager Electro Private Limited	
Consumer Guidance Society of India		Shri Shirish V. Zope	<i>Principal</i>
Shri Goutam Bhatia	<i>Principal</i>	Havell's India Pvt. Ltd.	
Shri Raj Talreja	<i>Alternate</i>	Shri Suresh Duggal	<i>Principal</i>
Controls and Switchgear Co.		Shri Ankur Seth	<i>Alternate</i>
Shri Nadeem Khan	<i>Principal</i>	HPL-Electric and Power Pvt Ltd	
Shri K. Venugopal	<i>Alternate</i>	Shri Rishi Seth	<i>Principal</i>
Central Power Research Institute		Shri G N Shrama	<i>Alternate</i>
Shri S. Bhattacharyya	<i>Principal</i>		
Shri Swaraj Kumar Das	<i>Principal</i>		
Shri B R Vasudevamurthy	<i>Alternate</i>		

IEEMA

Shri H. T Mistry *Principal*
Shri Soeb Fatehi *Alternate*
Shri Anita Gupta *Second Alternate*

In personal Capacity

Shri Satya Prakash Sharma *Principal*

Jasper Engineers Pvt Ltd

Shri Mathur Arvind *Principal*
Shri Subhash C. Nijhawan *Alternate*
Shri Dharmendra Kumar *Second Alternate*

Larsen & Toubro Ltd

Shri Chandrashekhar Kore *Principal*
Shri Ritesh Kumar Patel *Alternate*

Nuclear Power Corporation of India Ltd

Shri B.G. Baliga *Principal*
Shri Ritesh M. Chovatia *Alternate*

NTPC Ltd

Ms Saroj Chelluri *Principal*
Shri Vikram Talwar *Alternate*

Power Grid Corporation of India Limited

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

Research Design & Standards Organisation

Shri A K Sharma *Principal*

Rural Electification Corporation Ltd.

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

Steel Authority of India Ltd.

Shri Priyajit Sarkar *Principal*
Shri Surendra Prasad *Alternate*

Schneider Electric India Pvt. Ltd

Shri Gajendra Babu *Principal*
Shri Amitabha Sarkar *Alternate*
Shri Anilesh K. *Second Alternate*

Siemens Ltd.

Shri Gautam Shetye *Principal*
Shri Prakash Vasvani *Alternate*
Shri Abhijit Biswas *Second Alternate*

Small Scale MCB Manufacturers Welfare Assn

Shri Pramod K. Jain *Principal*
Shri Rakesh Jain *Alternate*
Shri Narendar Kumar Verma *Second Alternate*

U L India Pvt. Ltd.

Shri Chandrakumar.S *Principal*

Western India Switchgear Mfrs. Association

Shri Shashin N. Shah *Principal*
Shri Chandresh N. Shah *Alternate*
Shri Dhaval C. Shah *Second Alternate*

**ANNEX 1
COMPOSITION OF**

ET 08 HIGH VOLTAGE SWITCHGEAR AND CONTROLGEAR

Bureau of Indian Standards		Shri B.R. Bhogal	<i>Principal</i>
Shri Sudheer Bishnoi	<i>Member Secretary</i>	Shri Harish Kumar	<i>Alternate</i>
ABB Ltd.		Electrical Research & Development	
Shri Yogesh Shendre	<i>Principal</i>	Mr A. S. Khopkar	<i>Principal</i>
Areva T&D India Ltd (ALSTOM)		Mr H. K. Mishra	<i>Alternate</i>
Shri N. Balasubramanian	<i>Principal</i>	GETCO	
Shri Rahul Parbhane	<i>Alternate</i>	Shri B.P. Soni	<i>Principal</i>
Brihan Mumbai Electric Supply & Transport		HIVELM INDUSTRIES	
Shri R.U. Patil	<i>Principal</i>	Shri Ramanna Prasad	<i>Principal</i>
Shri G.M. Bhagat	<i>Alternate</i>	IEEMA	
Bharat Heavy Electricals Ltd.,Bhopal		Chairman, MV-HV	<i>Principal</i>
Shri M Azam Khan	<i>Principal</i>	Shri Anil Mehta	<i>Alternate</i>
Smt Neelam Bhogal	<i>Second Alternate</i>	Intertek	
Bharat Heavy Electricals Ltd.,Hyderabad		Shri Nandakumar. V. S	<i>Principal</i>
Shri Ravi Jatoth	<i>Alternate</i>	National Hydroelectric Power Corporation	
Shri Vijaya Bhaskar Anumula	<i>Second Alternate</i>	Shri Arvind Bhatt	<i>Principal</i>
Central Board of Irrigation & Power		Shri Kumar Ratish	<i>Alternate</i>
Shri P.P. Wahi	<i>Principal</i>	Nuclear Power Corporation of India Ltd	
Shri Vishan Dutt	<i>Alternate</i>	Shri V.H. Manohar	<i>Principal</i>
Central Electricity Authority		Shri George Sebastian.	<i>Alternate</i>
Shri Y.K. Swarnkar	<i>Principal</i>	NTPC Ltd	
Smt Kavita Jha	<i>Alternate</i>	Shri A.K. Gupta	<i>Principal</i>
CESC Limited		Shri S.P. Hambarde	<i>Alternate</i>
Shri J. R. Bhattacharya	<i>Principal</i>	Power Grid Corporation of India Limited	
Shri Rajarshi Ghosh	<i>Alternate</i>	Shri Gangadharan	<i>Principal</i>
Crompton Greaves Ltd.		Shri R.K. Tyagi	<i>Alternate</i>
Shri Potnis S.B.	<i>Principal</i>	Rajasthan Rajya Vidyut Prasaran Nigam ltd	
Shri S.S. Kale	<i>Alternate</i>	Shri Ram B.	<i>Principal</i>
Central Power Research Institute		Shri Jangid D.S	<i>Alternate</i>
Shri M.K. Wadhvani	<i>Principal</i>	Rural Electification Corporation Ltd.	
Shri S. Sudhakara Reddy	<i>Alternate</i>	Shri Dinesh Kumar	<i>Principal</i>
Shri M S Takkher	<i>Second Alternate</i>	Shri Hariharan P.S.	<i>Alternate</i>
Maharashtra State Transco Ltd		Reliance Infrastucture Ltd	
Chief Engineer(EHVT)	<i>Principal</i>	Shri Sajjad Rizvi	<i>Principal</i>
Engineers India Ltd.		Shri B. Baburaj	<i>Alternate</i>

S&S Power Switchgear Ltd

Shri Kalyanasundaram S. *Principal*

Schneider Electric India Pvt. Ltd

Shri Vinas Kumar M. Gajjar *Principal*

Shri Deepak Raorane *Alternate*

Siemens Ltd.

Shri Rattan K Bhardwaj *Principal*

Shri Manoj Belgaonkar *Alternate*

Tata Power Company Ltd

Shri P.K. Jain *Principal*

Ms A.S. Desai *Alternate*

Vensun Techo Links (P) Ltd.

Shri J. mahendran *Principal*

ANNEX 1
COMPOSITION OF ET 09 POWER CABLES

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

Brihan Mumbai Electric Supply & Transport

Shri S.G. Dhisle *Principal*

Shri N.N. Samuel *Alternate*

Bharat Heavy Electricals Ltd.

Shri Bijay Kumar Chattar *Principal*

Shri Nagabhushan A *Alternate*

Central Board of Irrigation & Power

Shri S.C. Nakra *Principal*

Shri P Padmanabhan *Alternate*

Cable Corporation of India Ltd.

Shri Dutta S.K. *Principal*

Shri Rao. E.J. *Alternate*

Shri Rajesh Gulati *Second Alternate*

Central Electricity Authority

Director (Substation) *Principal*

AD-1 *Alternate*

CESC Limited

Shri Kirit Rana *Principal*

Shri Aranab Guha *Alternate*

Coal India Ltd.

Shri Rai T. *Principal*

Shri Roy S.K. *Alternate*

Central Power Research Institute

Smt Meena K.P. *Principal*

Smt Thirumurthy *Alternate*

Central Public Works Department

Shri Mukesh Vij *Principal*

Shri S.K. Chawla *Alternate*

Development Commissioner Micro, Small &

Shri B.N.Sudhakara *Principal*

Shri Dhanendra Prasad, *Alternate*

Shri S.K. Saini *Second Alternate*

Ministry of Defence

Shri R.N. Sinha, SE *Principal*

Col. R.N. Ballaney *Alternate*

Directorate General of Mines Safety

Shri R. Ramachandiran *Principal*

Shri B. N. Mishra *Alternate*

Directorate General of Supplies & Disposals

Shri Singhal P *Principal*

Shri Saleem A. *Alternate*

TamilNadu Electricity Board

Superintending Engineer *Principal*

Executive Engineer/CDD *Alternate*

Reliance Energy Ltd

Shri Aggarwal Ravi *Alternate*

Electrical Research & Development

Shri N.R. Pandya *Principal*

Shri Patel Shailesh *Alternate*

Finolex Cables Ltd.

Shri Pundlik C.B. *Principal*

Shri S.S. Buva *Alternate*

GETCO

Shri A.A. Joshi *Principal*

Havell's India Pvt. Ltd.

Shri Sanjeev Vyas *Principal*

Shri Anil Sharma *Alternate*

IEEMA

Principal

Ms Pragati Sohoni *Alternate*

Jaipur Vidyut Vitaran Nigam Ltd

Shri Arjun Singh *Principal*

KEC International Limited

Shri Yogendra S. Tiwari *Principal*

Shri Anil Muley *Alternate*

Shri Bhoopendra Singh *Second Alternate*

Lapp India Pvt Ltd

Shri Kumar Krishna S. *Principal*

NICCO Corporation Ltd.

Shri Saha Debasis *Principal*

Shri Avijit Chakraborty *Alternate*

NTPC Ltd

Shri Deepak Trehan *Principal*

Paramount Cables

Shri R.K. Marwaha *Principal*

Shri Arun Sharma *Alternate*

Power Grid Corporation of India Limited

Shri Sudhakar Gupta *Principal*

Shri Bhaskar D.A *Alternate*

Polycab Industries

Smt Anil Kumar *Principal*

Smt Rajani Pande *Alternate*

Shri Pinaki Loha *Second Alternate*

Raychem RPG Pvt Ltd.

Shri Amit Bhatia *Principal*

Shri R.S. Anekar *Alternate*

Shri Shrinivas Shripat *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 S. V. Deshmukh *Principal*

Shri R. K. Sheth *Alternate*

Universal Cables Ltd.

Shri B.B. Pathak *Principal*

Shri C.S. Mohanty *Alternate*

ANNEX 1
COMPOSITION OF
ET 10 PRIMARY CELLS AND BATTERIES

Electrical Research & Development

Shri Gautam Brahmabhatt *Chairman*

Bureau of Indian Standards

Shri Shyam Kumar *Member Secretary*

Association of Indian Dry Cell

Shri Ravi Grover *Principal*

Shri S. Kumaraswami *Alternate*

Central Electrochemical Research Institute

Dr. Ananth M.V. *Principal*

Dr. Venkatakrishnan N. *Alternate*

Consumer Education and Research Centre

Ms Shweta Mahajan *Principal*

Ms Shveta Sheth *Alternate*

Central Institute of Mining & Fuel Research

Dr. Harendra Singh *Principal*

Ministry of Defence

Shri Y A Kambli *Principal*

Alternate

Directorate General of Supplies & Disposals

DDQA *Principal*

Shri Seneet Kumar *Alternate*

Department of Industrial Policy & Promotion

Shri K. K. Sinha *Principal*

Shri S Pandey *Alternate*

Shri Zakaria Khan Yusufzai *Second Alternate*

Electrical Research & Development

Shri Satish S. Chetwani *Principal*

Shri Rakesh Patel *Alternate*

Electronics Regional and Test Laboratory

Shri Shri J P Vatsa *Principal*

Ms Poonam Singh *Alternate*

Eveready Industries India Ltd.

Dr. N.C. Chaklanobish *Principal*

Shri Ezhil Arasan *Alternate*

Indo National Limited

Shri M. Sankara Reddy *Principal*

Shri V. Madhusudhan Reddy *Alternate*

National Physical Laboratory

Dr. R B Mathur *Alternate*

National Test House

Shri B R Mandal *Principal*

Shri P Rajanikanth *Alternate*

Panasonic Energy India Company Ltd.

Shri C.D. Mistry *Principal*

Shri R.J. Bhambhani *Alternate*

Voluntary Organisation in Interest of

Shri H. Wadhwa *Alternate*

Shri Ashim Sanyal *Second Alternate*

ANNEX 1
COMPOSITION OF
ET 11 SECONDARY CELLS AND BATTERIES

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

AMCO Batteries Limited

Shri S. Sankara Pandian *Principal*

Shri N. S. Pandurang *Alternate*

Amar Raja Batteries Ltd.

Shri C. Niranjan Kumar *Principal*

Shri Jasmeet Singh *Alternate*

Sh. Ramesh Banu C. B. *Second Alternate*

Bharat Battery Mfg. Co. Pvt. Ltd.

Shri Saha S.P. *Principal*

Shri Goswami B.K. *Alternate*

Central Electricity Authority

Director (Substation) *Principal*

Dy Director (Substation) *Alternate*

Central Electrochemical Research Institute

Smt. Dr. N. Kalaiselvi *Principal*

Dr. A. Manuel Stephan *Alternate*

Central Institute of Road Transport

Shri Saste D.P. *Principal*

Shri V. P. Godbole *Alternate*

Central Power Research Institute

Shri Rajashekar P. Mandi *Principal*

Shri S. Jothibasua *Alternate*

Central Public Works Department

Shri P.K. Garg *Principal*

Shri M.K. Verma *Alternate*

Development Commissioner Micro, Small &

Dr. S.K.Sahoo *Principal*

Shri Dhanendra Prasad *Alternate*

Shri S.K. Saini *Second Alternate*

Ministry of Defence

Shri Y A Kambali *Principal*

Lt Col K D Singh *Alternate*

Directorate General of Mines Safety

Shri B. K. Lama *Principal*

Shri B.N. Mishra *Alternate*

Directorate General of Supplies & Disposals

Shri P. Singhal *Principal*

Shri Sanjeet Kumar *Alternate*

DIT

Sh. Arun Sachdeva *Principal*

Ms. Asha Nangia *Alternate*

Department of Telecommunications

Shri Bhatia K.L. *Alternate*

Directorate of Tech. Dev. & Prod. (AIR)

WGCD Sharma S.B. *Principal*

Shri C.V. Bhaskara *Alternate*

Electrical Research & Development

Shri G. V. Brahmhatt *Principal*

Shri Rakesh Patel *Alternate*

Exide Industries Ltd.

Dr. D. Sen Choudhury *Principal*

Shri Subhankar Chakrabarty *Alternate*

Shri A.D. Kang *Second Alternate*

HBL Power Systems Limited

Shri Brajesh Kumar *Principal*

Shri M. Raghavendra Readdy *Alternate*

High Energy Batteries (India) Limited

Dr. G.A. Pathanjali *Principal*

Shri J. Srirengarajan *Alternate*

Indian Cellular Association

Shri Pankaj Mohindroo *Principal*

Shri Ambrish Bakaya *Alternate*

Kirloskar Batteries Pvt. Ltd.

Shri Sreedhara S.V. *Principal*

Shri B.S.Shrinivasan Rao *Alternate*

Ministry of New & Renewable Energy

Dr. Pradeep Chandra Pant *Principal*

Shri Prabir Kumar Dash *Alternate*

Nuclear Power Corporation of India Ltd

Shri S.K. Roy *Principal*

Shri Shakti Prasad Panda *Alternate*

National Test House

Shri D.K. Karmakar *Principal*

Shri S. Sinha *Alternate*

NTPC Ltd

Shri S. Samanta *Alternate*

Power Grid Corporation of India Limited

Shri Prasad Sai *Principal*

Telecom Engineering Centre

Shri Ram Krishna *Principal*

Smt. Laxmi *Alternate*

Tata Power Company Ltd

Shri Anand Buddhiwant *Principal*

ANNEX 1
COMPOSITION OF
ET 12 MEASURING EQUIPMENT FOR BASIC ELECTRICAL QUANTITIES

Bureau of Indian Standards

Smt Supriya Minz *Member Secretary*

Automatic Electric Ltd.

Shri U.P. Tandel *Principal*

Shri Tendulkar D.H. *Alternate*

Shri Tandel U.P. *Alternate*

All India Instruments Mfrs & Dealers

Shri Goliya P.C. *Principal*

BSES Rajdhani Power Limited

Shri Subha Rao P.V. *Principal*

Shri Bhirud S.G. *Alternate*

BSES, DELHI

Nomination Awaited *Principal*

Central Electricity Authority

Shri T.K. Saha *Principal*

Shri C.K. Kesana *Alternate*

CESC Limited

Shri Sraboni Bhattacharya *Principal*

Shri Nilanjan Saha *Alternate*

Central Scientific Instruments Organization,

Nomination Awaited *Principal*

Central Scientific Instruments Organization,

Dr Jaiswal V.K. *Principal*

Shri Pathania D.S. *Alternate*

Council of Scientific & Ind. Research

Shri Dharendra Bansal *Principal*

Shri Shashi Moitra *Alternate*

Ministry of Defence

Brig M N Davaya *Principal*

Shri Prabhas Kumar *Alternate*

Department of Industrial Policy & Promotion

Shri Jain S.K. *Principal*

Engineers India Ltd.

Nomination Awaited *Principal*

Nomination Awaited *Alternate*

Elster Metering Private Ltd

Shri Prashant C. Karnik *Principal*

Shri Kanitkar A.P. *Alternate*

Electrical Research & Development

Mr. Nirav Taunk *Principal*

Smt. Padma Kumar *Alternate*

Electronics Regional and Test Laboratory

Nomination Awaited *Principal*

Shri H.K.Mishra *Alternate*

Instrument Designs Development & Facilities

Nomination Awaited *Principal*

Institute for Design of Elec. Meas. Instruments

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. Thomas John *Principal*

Dr. M.S. Ansari *Alternate*

National Test House

Shri A. Das *Principal*

Shri S.K. Menon *Alternate*

NTH, Ghaziabad

Nomination Awaited *Principal*

Nomination Awaited *Principal*

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 *Alternate*

Standardisation Testing & QC Directorate

Shri R.P. Sondhi *Chairman*

ANNEX 1
COMPOSITION OF
ET 13 EQUIPMENT FOR ELECTRICAL ENERGY MEASUREMENT AND LOAD CONTROL

Central Electricity Authority		Shri Ajay Sharma	<i>Principal</i>
Smt Anjali Chandra	<i>Chairman</i>	Shri Anil Bhide	<i>Alternate</i>
Bureau of Indian Standards		Elymer International Pvt. Ltd	
Smt Supriya Minz	<i>Member Secretary</i>	Shri Jagmohan Jogishwar	<i>Principal</i>
Adani Power, Gujarat		Shri Vipin Panwar	<i>Alternate</i>
Shri Uday trivedi	<i>Principal</i>	Electrical Research & Development	
Shri Manoj Taunk	<i>Alternate</i>	Dr Vinod Gupta	<i>Principal</i>
Bureau of Energy Efficiency		Shri Tejas Mistry	<i>Alternate</i>
Shri Saurabh Diddi	<i>Principal</i>	Shri U.C. Trivedi	<i>Second Alternate</i>
Ms. Meenakshi	<i>Alternate</i>	Expert	
Bangalore Electricity Supply Company		Shri Subrata Biswas	<i>Principal</i>
Shri Umashankara. K	<i>Principal</i>	Genus Innovation Limited	
Shri S.K.Prabhakar	<i>Alternate</i>	Shri Bharat Mathur	<i>Principal</i>
BSES Rajdhani Power Limited		Shri Darab Singh	<i>Alternate</i>
Shri Rajesh Bansal	<i>Principal</i>	Genus Power Infrastructures Ltd	
Shri Vishal Natani	<i>Alternate</i>	Shri R.S. Rathore	<i>Principal</i>
Central Board of Irrigation & Power		Shri Mayak Jain	<i>Alternate</i>
Shri K.P. Singh	<i>Principal</i>	HPL-Electric and Power Pvt Ltd	
Shri S.K. Batra	<i>Alternate</i>	Shri C.P.Jain	<i>Principal</i>
Central Electricity Authority		Shri Sundeep Tandon	<i>Alternate</i>
Shri R.K. Verma	<i>Principal</i>	Shri Rajesh Banthia	<i>Second Alternate</i>
Smt Vandana Singhal	<i>Alternate</i>	IEEMA	
CESC Limited		Shri J.Pandey	<i>Principal</i>
Shri Udayan Ganguly	<i>Principal</i>	Shri Anil Mehta	<i>Alternate</i>
Ms. Sushmita Sen	<i>Alternate</i>	Shri Anupam Banerjee	<i>Second Alternate</i>
Shri Santosh Chattopadhyay	<i>Second Alternate</i>	India Smart Grid Forum	
Central Power Research Institute		Shri Reji Kumar	<i>Principal</i>
Shri Sawale B.A.	<i>Principal</i>	Shri Hem Thukral	<i>Alternate</i>
Shri M.Pradish	<i>Alternate</i>	Kalki Communications Technologies Ltd	
Shri V Suresh	<i>Second Alternate</i>	Shri Vinoo S Warriar	<i>Principal</i>
Development Commissioner Micro, Small &		Shri Balagopalan Nathoor	<i>Alternate</i>
Dr. S.K.Sahoo	<i>Principal</i>	Larsen & Toubro Ltd	
Shri Dhanendra Prasad	<i>Alternate</i>	Shri R.M. Bhakta	<i>Principal</i>
Shri S.K. Saini	<i>Second Alternate</i>	Shri Sanjay Ahuja	<i>Alternate</i>
Elster Metering Private Ltd			

Landis & Gyr.Ltd.

Shri Anand Srivastava *Principal*
Shri Rameshwar Dubey *Alternate*
Shri Pradip Ranjan Dutt *Second Alternate*

Narnix Technolabs Pvt. Ltd.

Shri N.Kishor Narang *Principal*

National Physical Laboratory

Shri M.K. Mittal *Principal*

Power Grid Corporation of India Limited

Shri Atul Kumar Bali *Principal*
Shri Sundeep Reddy *Alternate*

Paschim Gujarat Vij Company Limited

Shri S. N. Gediya *Alternate*

Rural Electification Corporation Ltd.

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

Schneider Electric India Pvt. Ltd

Shri Girish Thorat *Principal*

Secure Meters Ltd.

Shri Surendra Jhalora *Principal*
Shri Madhur Srivastava *Alternate*
Shri Rajnish Kr. Ameta *Second Alternate*

Tamil Nadu Generation and Distribution

Shri M. Chandran *Principal*
Shri C. Muralidaran *Alternate*
Shri M. Mathivanan *Second Alternate*

Tata Power Delhi Distribution Limited

Shri Subhadip Ray *Principal*
Shri Nitin Manjara *Alternate*

ANNEX 1
COMPOSITION OF
ET 14 ELECTRICAL WIRING ACCESSORIES

Central Public Works Department

Shri Prabhakar Singh *Chairman*

Bureau of Indian Standards

Ms. Neha Agarwal *Member Secretary*

All India Plastic Manufacturers Association

Shri Manoj Gada *Principal*

Anchor Electronics & Electricals Pvt. Ltd.

Shri Yogesh Sonawane *Principal*

Shri Himanshu Sharma *Alternate*

Shri Ajay Yadav *Second Alternate*

Central Electricity Authority

Shri R K Verma *Principal*

Consumer Education and Research Centre

Smt Shweta Mahajan *Principal*

Smt Shveta Seth *Alternate*

Consumer Guidance Society of India

Shri Anil K. Dhumak *Principal*

Shri Shenoy *Alternate*

Central Public Works Department

Shri S.K. Chawla *Principal*

Shri Verma C.K. *Alternate*

Development Commissioner Micro, Small &

Shri B.N.Sudhakara *Principal*

Shri Dhanendra Prasad *Alternate*

Shri S.K. Saini *Second Alternate*

Delhi Electrical Accessories BIS Licensees

Shri Khera Adarsh *Principal*

Shri Mange Ram Gupta *Alternate*

Shri Ajit Singh *Second Alternate*

Ministry of Defence

Shri Y A Kambali *Principal*

Lt Col K D Singh *Alternate*

Directorate General of Supplies & Disposals

Shri Mishra P.K. *Principal*

Shri Pandey R.S *Alternate*

Directorate of Industries & Commerce (TN)

Shri N. Parthasarathy *Principal*

Shri K. Venkaeswar *Alternate*

Electrical Contractors Association of

Shri Anil Gachke *Principal*

Shri Pradeep Shah *Alternate*

Shri Kamlesh Shah *Second Alternate*

Electrical Inspection Department, Maharashtra

Shri S.R. Nalawade *Principal*

Electrical Research & Development

Dr. G. V. Brahmabhatt *Principal*

Mr. Rakesh Patel *Alternate*

Shri Nailesh S. Kadia *Second Alternate*

Fine Switchgears, Phagwara

Shri Sethi Mohinder *Principal*

Shri Sethi Ashok *Alternate*

Honeywell Electrical Devices and Systems

Shri Dilip Singh *Principal*

Shri Dhiraj Kumar *Alternate*

Kinjal Electricals Pvt Ltd

Shri Jain R.K. *Principal*

Shri Mohit Jain *Alternate*

Legrand (India) Pvt Ltd.

Shri V S Mainker *Principal*

Shri V A Tilekar *Alternate*

Shri Suresh Deotalu *Second Alternate*

National Test House

Shri D.G Basumatary *Principal*

Shri P. Somu *Alternate*

Shri Anil K. Pandey *Second Alternate*

Public Works Department, Maharashtra

Shri Hemant M Sali *Principal*

Rex Polyextrusions

Shri Sanjay B. Dandekar *Principal*

Shri Tejas S.Dandekar *Alternate*

Sainico Industries

Shri Yash Saini *Principal*

Schneider Electric India Pvt. Ltd

Shri P V Jaison *Principal*

Shri Gurveen Singh Sachdev *Alternate*

Shri Suresh Raja *Second Alternate*

Voluntary Organisation in Interest of

Shri K C Chaudhary *Principal*

Western India Electrical Accessories

Shri KISHORE K. NANDU *Principal*

Shri ASHOK V. MARU *Alternate*

Shri Rajesh Jaggi *Second Alternate*

Shri Rajesh Jaggi *Second Alternate*

ANNEX 1
COMPOSITION OF ET 15 ROTATING MACHINERY

rites		Shri S.K. Saini	<i>Second Alternate</i>
Shri A.K.M Sharma	<i>Chairman</i>	Ministry of Defence	
Bureau of Indian Standards		Shri B. N. Guruprasad	<i>Principal</i>
Ms Neha Mangal	<i>Member Secretary</i>	Shri P. Rajkumar	<i>Alternate</i>
ABB Ltd.		Directorate General of Supplies & Disposals	
Shri Balasubramaniam R.	<i>Principal</i>	Shri R.S. Pandey	<i>Principal</i>
Shri Pradeep Pareek	<i>Alternate</i>	Shri Akhilesh Kumar	<i>Alternate</i>
All India Electrical Moter Association		Electrical Research & Development	
Shri Sanjay P. Jadia	<i>Principal</i>	Shri R.P. Singh	<i>Principal</i>
Bureau of Energy Efficiency		Dr. S. H. Chetwani	<i>Alternate</i>
Shri Saurabh Diddi	<i>Principal</i>	Representative of ET 33	
Shri Manjeet Singh	<i>Alternate</i>	Shri Gokhale Shirish	<i>Principal</i>
Bharat Bijlee Ltd.		Representative of HMD 20	
Shri Dilip N. Bhawe	<i>Principal</i>	Shri Gowrisankar J.	<i>Principal</i>
Mrs. Anjali Ranade	<i>Alternate</i>	Shri Deshpande S.D.	<i>Alternate</i>
Bharat Heavy Electricals Ltd.,Bhopal		Shri Bhootra K.C.	<i>Second Alternate</i>
Shri A.K.Varshney	<i>Principal</i>	International Copper Association Ltd	
Shri Nisheeth Khare	<i>Second Alternate</i>	Shri Hemanth kumar	<i>Principal</i>
Bharat Heavy Electricals Ltd.,Hyderabad		Shri Mayur Karmarkar	<i>Alternate</i>
Shri Chandrasekhar E	<i>Principal</i>	IEEMA	
Shri Upendra Deep	<i>Alternate</i>	chairman-Rotating Machines	<i>Principal</i>
Central Board of Irrigation & Power		Shri Anil Mehta	<i>Alternate</i>
Shri V.K. Kanjalia	<i>Principal</i>	Indian Institute of Technology (Delhi)	
Shri P.P. Wahi	<i>Alternate</i>	Prof S.S. Murthy	<i>Principal</i>
Central Electricity Authority		KSB Pumps Ltd.	
Shri Sanjay Srivastava	<i>Principal</i>	Shri D.S. Khanna	<i>Principal</i>
Shri Sanjay Sharma	<i>Alternate</i>	Shri S.C. Patil	<i>Alternate</i>
Chief Electrical Inspectorate (Tamil Nadu)		Marathon Electric Motors (India) Ltd	
Shri N. Thiruvazhi Marpha	<i>Principal</i>	Shri Subrata Biswas	<i>Principal</i>
Shri M. Sadasivan	<i>Alternate</i>	Shri Rajiv Ranjan	<i>Alternate</i>
Consumer Education and Research Centre		M.N.Dastur & Co.(P) Ltd.	
Smt. Shweta Mahajan	<i>Principal</i>	Shri S. Sampath	<i>Principal</i>
Development Commissioner Micro, Small &		Shri K. B. Venkateswara Rao	<i>Alternate</i>
Dr. S.K. Sahoo	<i>Principal</i>		
Shri Dhanendra Prasad	<i>Alternate</i>		

Nuclear Power Corporation of India Ltd

Shri Pandariganthan S. *Principal*

Shri Sanjeev Kumar Tiwari *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.

Smt. Madhupriya *Principal*

Shri V. K. Pal *Alternate*

South India Engineering Mfrs. Association

Shri T. C. Thiagarajan *Principal*

Shri V. Krishankumar *Alternate*

Shri K. K. Rajan *Second Alternate*

Siemens Ltd.

Shri Pradeep Ranade *Principal*

Shri Hitesh Vakil *Alternate*

Shri Ashish Shera *Second Alternate*

Scientific and Industrial Testing and

Shri K. Gunabal *Principal*

Shri A M Selvaraj *Alternate*

SJVN

Shri R.P. Singh *Principal*

Shri R.K. Bansal *Alternate*

Testing Electrical Standards Lab

Shri L. S. Sharma *Principal*

Toshiba- Mitsubishi- Electric Ind. System

Nomination Awaited *Principal*

ANNEX 1
COMPOSITION OF ET 16 TRANSFORMERS

Bureau of Indian Standards

Shri Shyam Kumar *Member Secretary*

ABB India Ltd.

Shri Abhay Kumar Agrawal *Principal*

Shri Tarun Kumar Garg *Alternate*

Shri Ankur Tiwari *Second Alternate*

Areva T&D India Ltd (ALSTOM)

Shri Maneesh Jain *Principal*

Shri Abhilash Mishra *Alternate*

Ms Tanvi Srivastava *Second Alternate*

Bureau of Energy Efficiency

Shri Saurabh Diddi *Principal*

Shri Sumit Solanki *Alternate*

Brihan Mumbai Electric Supply & Transport

Shri S.R. Kolekar *Principal*

Shri S Y Gaikwad *Alternate*

Bharat Heavy Electricals Ltd.

Shri J. S. Kuntia *Principal*

Shri Rajeev Agarwal *Alternate*

Shri Aravind Kulshreshtha *Alternate*

Shri Shri. S.K. Gupta *Second Alternate*

BSES Rajdhani Power Limited

Smt. Meenakshi Dhar Banerji *Principal*

Ms. Seema Shekhawat *Alternate*

Copper Alliance Asia

Shri Hemanth Kumar *Principal*

Cargill India Private Limited

Shri Rajaram Shinde *Principal*

Central Board of Irrigation & Power

Shri P.P. Wahi *Principal*

Shri Vishan Dutt *Alternate*

Central Electricity Authority

Shri R.K. Verma *Principal*

Smt. Vandana Singhal *Alternate*

CESC Limited

Shri S. Bhattacharya. *Principal*

Shri Rajrshi Ghosh *Alternate*

Crompton Greaves Ltd.

Shri Manish Yadav *Principal*

Shri Vikrant Joshi *Alternate*

Shri Sanjay Kolhe *Second Alternate*

Coal India Ltd.

Shri Gopal Krishna Sharma *Principal*

Shri Ashim Guha *Alternate*

Central Power Research Institute

Shri M.k. Wadhvani *Principal*

Shri S. Sudhakar Reddy *Alternate*

Central Public Works Department

Shri C.K. Varma *Principal*

Shri D.K. Tulani *Alternate*

CTR Manufacturing Industries Ltd.

Shri S.A.Vyas *Principal*

Shri B.D. Raut *Alternate*

Shri O.C.Kolombkar *Second Alternate*

Development Commissioner Micro, Small &

Shri B.N.Sudhakara *Principal*

Shri Dhanendra Prasad *Alternate*

Shri S.K. Saini *Second Alternate*

EMCO Ltd.

Ms Anagha Dixit *Principal*

Ms Ujwala Rane *Alternate*

Electrical Research & Development

Shri Kapil Sharma *Principal*

Dr H K Mishra *Alternate*

GETCO

Shri Y.V. Joshi *Principal*

Hitachi Metals

Shri K Thukaram *Principal*

International Copper Association LtdShri Hemanth kumar *Principal*Shri Mayur S. Karmarkar *Alternate***IEEMA**Chairman-Transformer Divi. *Principal*Shri J. Pande *Alternate*Shri Uttam Kumar *Second Alternate***In personal Capacity**Shri P.K.Mukherjee *Principal***Indian Transformers Manufacturers**Shri J. M. Malik *Principal*Shri B Lal *Alternate***Jaipur Vidyut Vitaran Nigam Ltd**Shri Arjun Singh *Principal***M&I Materials India Pvt. Ltd**Shri Nitin Satija *Principal*Shri Amit Kumar *Alternate***National High Power Test Laboratory Pvt.**Shri D. P. Tamoli *Principal*Shri Rohit Saxena *Alternate***NTPC Ltd**Shri Dinkar Devate *Principal*Shri Anil Kaushik *Alternate***Power Grid Corporation of India Limited**Shri Goswami M.M. *Principal*Shri Aggarwal Sudhir *Alternate***Rural Electification Corporation Ltd.**Shri Dinesh Kumar *Principal*Shri Kanaka Raju E. *Alternate***Siemens Ltd.**Shri C Jayasenan *Principal*Shri Ravi Dhage *Alternate***Shri Krshna sudarshan urja pvt.**Shri Ajay Sanghi *Principal*Shri Kartik Sanghi *Alternate***Transformers & Rectifier (I) Ltd.**Shri V. K. Lakhiani *Principal*Shri A.S. Jhala *Alternate***Toshiba Transmission & Distribution**Shri Jacob George *Principal***Tata Power**Shri Chintamani Chitness *Principal***Tata Power Delhi Distribution Limited**Shri Nilesh Kane *Principal*Shri Amit Gupta *Alternate***Transcon Industries**Shri Amar Pal Gampa *Principal***SOUTHERN Power Distribution Company of**Shri Nomination awaited *Principal***Telangana Utility**Shri Nomination awaited *Principal***Vijai Electricals Ltd.**Shri T.K. Ganguli *Principal*Shri D.V. Sridhara *Alternate*Shri P.S. Rao *Second Alternate***West Bengal State Electricity Distribution**Shri Nomination awaited *Principal***West Bengal Utility**Shri Nomination awaited *Principal*

**ANNEX 1
COMPOSITION OF
ET 17 INDUSTRIAL ELECTROHEATING EQUIPMENT**

G.A. Danieli India Ltd

Chairman

Bureau of Indian Standards

Smt Gupta Manju

Member Secretary

Bharat Heavy Electricals Ltd.

Shri Krishna Rao S.V.

Principal

Chief Electrical Inspectorate (Tamil Nadu)

Shri Eswaramurthi A.

Principal

Alternate

Confederation of Indian Industry

Shri Nandi Rajat

Principal

Directorate General of Supplies & Disposals

Shri Mishra P.K.

Principal

Alternate

GEC Alsthom India Ltd

Shri Chatterjee S.

Principal

Graphite India Ltd.

Shri Jaun A.K.

Principal

Shri Chandrasekhar A.G.

Alternate

Heavy Engineering Corporation Ltd.

Shri Murthy M.V.R.

Principal

Shri Dutta N.S.

Alternate

Shri Sinha R.P.

Second Alternate

KEC International Limited

Shri Balasubramanyam V.

Principal

Shri Vibhute V.B.

Alternate

Mishra Dhatu Nigam Ltd.

Shri Sastry M.P.

Principal

Shri Raghavan N.

Alternate

M.N.Dastur & Co.(P) Ltd.

Principal

Shri Ghosh Tapan Kr.

Alternate

Nuclear Power Corporation of India Ltd

Shri Kanan M.K.

Principal

Shri Puri B.R.

Alternate

Ordnance Factory Project

Shri Q. Ahmed

Principal

Shri V.N.R. Naidu

Alternate

Steel Authority of India Ltd.

Shri Nagraj V.

Principal

Shri Mitra S.

Alternate

Steel Furnace Association of India

Shri Shirish M. Oturkar

Principal

Shri Uninayar M.S.

Alternate

ANNEX 1
COMPOSITION OF
ET 18 INDUSTRIAL PROCESS MEASUREMENT AND CONTROL

Engineers India Ltd		Shri S R Bhatnagar	<i>Principal</i>
Ms. R.Priamvada	<i>Chairman</i>	Shri Anupam Srivastava	<i>Alternate</i>
Bureau of Indian Standards		Fluid Control Research Institute	
Ms. Meghna Mudgal	<i>Member Secretary</i>	Shri M. Suresh	<i>Principal</i>
ABB Ltd.		Dr Radhakrishnan. V	<i>Alternate</i>
Shri Ravishnkar T.R.	<i>Principal</i>	Forbes Marshall Ltd	
Shri Rajesh Raina	<i>Alternate</i>	Shri Ramani Iyer	<i>Principal</i>
Shri G. Balaji	<i>Second Alternate</i>	Shri Rajesh B. Kulkarni	<i>Alternate</i>
Bureau of Energy Efficiency		Shri Tushar A. Nazare	<i>Alternate</i>
Shri Saurabh Diddi	<i>Principal</i>	Institute for Design of Elec. Meas. Instruments	
Shri Manjeet Singh	<i>Alternate</i>	Shri Rasal S.V.	<i>Principal</i>
Bharat Heavy Electricals Ltd.		Shri Khaladkar S.G.	<i>Alternate</i>
Shri Seetharaman	<i>Principal</i>	IEEMA	
Shri Ramani	<i>Alternate</i>	Shri Pande J.	<i>Principal</i>
Shri V M Selvaraaj	<i>Chairman</i>	Smt Gupta Anita	<i>Alternate</i>
Shri Ramani	<i>Chairman</i>	Instrumentation Ltd.	
Bharat Heavy Electricals Ltd.,Hyderabad		Shri Gupta S.C.	<i>Principal</i>
Shri Prakash R Khadilkar	<i>Second Alternate</i>	M.N.Dastur & Co.(P) Ltd.	
Chemtrols Industries Limited		Shri Subrata Pal	<i>Principal</i>
Shri Nandajumar K.	<i>Principal</i>	Shri Debasish Ghosh	<i>Alternate</i>
Central Scientific Instruments Organization		NTPC Ltd	
Shri Goel D.P.	<i>Principal</i>	Shri Sen Abhijit	<i>Principal</i>
Shri Malhotra J.M.	<i>Alternate</i>	Oil & Natural Gas Commission	
Department of Electronics		Shri C.R. Raju	<i>Principal</i>
Shri Kumar Jatinder	<i>Principal</i>	Shri J.R. Martin	<i>Alternate</i>
Electronics Corporation of India Ltd.		Reliance Industries Ltd.	
Shri Prabhakara Rao R.V.	<i>Principal</i>	Shri Bhattacharya Ranjan	<i>Principal</i>
Shri Suryanarayana V.V.	<i>Alternate</i>	Shri Keyur Vora	<i>Alternate</i>
Engineers India Ltd.		Shri Anchalkar Umesh R.	<i>Second Alternate</i>
Ms. R. Priyamvada	<i>Principal</i>	Rockwin Flow Meters Pvt. Ltd.	
Shri Rajiv Gupta	<i>Alternate</i>	Shri Shankar Mathur	<i>Principal</i>
ELICO Limited		Shri Vishnu Prakash	<i>Alternate</i>
Shri Shivarao T.V.	<i>Principal</i>	Steel Authority of India Ltd.	
Shri R B V V N Raju	<i>Alternate</i>	Shri Ashis. Jha	<i>Principal</i>
Emerson Network Power		Shri Atanu Roy	<i>Alternate</i>

Siemens Ltd.

Shri Sameer Prakash *Principal*

Shri Anil Nayak *Alternate*

Vijayesh Instruments Pvt. Ltd.

Shri Vishwas Kale *Principal*

Yokogawa IA Technologies India Private

Shri Satish Kumar *Principal*

Shri Naveen Kashyap *Alternate*

ANNEX 1
COMPOSITION OF
ET 19 HIGH VOLTAGE ENGINEERING

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

ABB Ltd.

Dr. Jashavant Patel *Principal*

Shri Shendre Yogesh *Alternate*

Areva T&D India Ltd (ALSTOM)

Shri Elizabeth Johnson *Principal*

Bharat Heavy Electricals Ltd.

Dr M. Mohan Rao *Principal*

Shri A.Pradeep *Alternate*

Shri Gauri Shankar Naik *Second Alternate*

Central Board of Irrigation & Power

Shri G.N. Mathur *Principal*

Shri P.P. Wahi *Alternate*

Central Electricity Authority

Yogendra Kr. Swarnkar *Principal*

Alternate

CESC Limited

Shri Manik Basu *Principal*

Shri S.Purkayastha *Alternate*

Crompton Greaves Ltd.

Shri Govindan T.P. *Principal*

Central Power Research Institute

Dr Pradeep M.Nirgude *Principal*

Dr K.A.Aravind *Alternate*

Dr. Dharmesh Yelamanchi *Second Alternate*

Electrical Research & Development

Shri A.S. Khopkar *Principal*

Shri H. K. Mishra *Alternate*

GETCO

Shri B.B. Chauhan *Principal*

Ms. Asha Agravatt *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 V. H. Manohar *Principal*

Shri Jayanth Kumar Boppa *Alternate*

NTPC Ltd

Shri Venkadeswaran S. *Principal*

Power Grid Corporation of India Limited

Shri R.K.Sarkar *Principal*

Dr. Subir Sen *Alternate*

Siemens Ltd.

Shri Ashish Dua *Principal*

Shri Kaustuv Roy *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*

ANNEX 1
COMPOSITION OF
ET 20 ELECTRICAL INSTALLATIONS

Engineers India Ltd

Ms Sumita Ananad, *Chairman*

Bureau of Indian Standards

Shri Sudheer Bishnoi *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 & Transport

Shri A.S. Sewakhande *Principal*

Shri M.R. Dharaskar *Alternate*

Central Electricity Authority

Shri Upendra Kumar *Principal*

Shri Santosh Kumar *Alternate*

Chief Electrical Inspectorate (Kerala)

Er. K.K. Unni *Principal*

Er. Premachandra Vhas. E.R. *Alternate*

Chief Electrical Inspectorate (Madhya

Shri Mujalde S.S. *Principal*

Shri Dubey A.K. *Alternate*

Chief Electrical Inspector, Nagaland

Shri Er. I.V. Chishi *Principal*

Chief Electrical Inspectorate (Orissa)

Shri G.C. Choudhury *Principal*

Er Sk Habibur Rehman *Alternate*

Chief Electrical Inspectorate (Tamil Nadu)

Shri N. Thiruvanzhi Marpha *Principal*

Shri Thiru.S. Appavoo, BE *Alternate*

Chief Electrical Inspectorate(Uttranchal)

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 S Chopra *Alternate*

Development Consultant Limited

Shri Pradeep Banerjee *Principal*

Shri Das Ranjit K. *Alternate*

Ministry of Defence

Brig Girish Joshi *Principal*

Dr Ram Verma *Alternate*

DG Factory Advisory Services & Labour

Shri Sushil Kumar *Principal*

Shri Tanoj Chandan *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 Anil R. Gachke *Principal*

Shri Pradeep Shah *Alternate*

Shri Satish Y. Kazi *Second Alternate*

Engineers India Ltd.

Ms. Shalini Verma *Principal*

Shri Rohit Kumar Singh *Alternate*

Garden Reach Shipbuilders & Engineers

Cdr. Soumitra Bhaduri *Principal*

Cdr. T.K. Guha Roy *Alternate*

GETCO

Shri B.B. Chauhan *Principal*

Hindustan Shipyard Ltd.

Shri Sastri D.S. *Principal*

Indian Copper Promotion Council India

Shri Amol Kalsekar *Principal*

Shri Sanjeev Rajan *Alternate*

IEEMA

Principal

Smt Anita Gupa *Alternate*

Jaipur Vidyut Vitaran Nigam Ltd

Shri Arjun Singh *Principal*

Larsen & Toubro Ltd

Shri J.S. Sudershan *Principal*

Shri Maheswaran D. *Alternate*

Mazagon Dock Limited

Shri A.M. Joglekar *Principal*

Shri Parag Patil *Alternate*

Metallurgical & Engineering Consultants (I)

Shri Mishra G. *Principal*

Nuclear Power Corporation of India Ltd

Shri S. Pandariganthan *Principal*

Shri D.A. Bhaskar *Alternate*

NTPC Ltd

Shri Deepak Trehan *Principal*

Shri Vikram Talwar *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*

Schneider Electric India Pvt. Ltd

Shri Amitabha Sarkar *Principal*

Shri Suresh Raja *Alternate*

Shipping Corporation of India Ltd.

Shri Bodkhey *Principal*

Shri Takpere N.Y. *Alternate*

Siemens Ltd.

Shri Gautam Shetye *Principal*

Shri Rajesh Mangtani *Alternate*

Shri Kishor Yadao *Second Alternate*

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*

Tamilnadu Electrical Installation Engineers

Shri U. Baskran *Principal*

Shri K. Kannan *Alternate*

ANNEX 1
COMPOSITION OF
ET 21 ELECTRIC WELDING EQUIPMENT

Bharat Heavy Electricals Ltd.

Shri R Subbarayalu *Chairman*

Dr P.R. Venkateswara *Principal*

Shri V.R. Samuel *Alternate*

Bureau of Indian Standards

Ms. Neha Mangal *Member Secretary*

Ministry of Defence

Shri GS Kondhare *Principal*

Lt. Col. J.A. Hora *Alternate*

Directorate General of Supplies & Disposals

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*

National Institute of Technology,

Dr Akhilesh Swarup *Principal*

Dr Ashwani Kumar *Alternate*

Ordnance Factory Project

Shri Ahmed Q. *Principal*

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

Power Grid Corporation of India Limited

Shri Vinit Kumar Singh *Principal*

Shri Deepak Kumar Sahoo *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 Company

Shri Narayan *Principal*

Shri Dutta Roy A.K. *Alternate*

Tata Motors Ltd.

Shri Narayan *Principal*

Shri Dutta Roy A. *Alternate*

ANNEX 1
COMPOSITION OF
ET 22 ELECTRICAL APPARATUS FOR EXPLOSIVE ATMOSPHERES

Engineers India Ltd		Shri Y. K Gaur	<i>Alternate</i>
Shri Niraj Sethi	<i>Chairman</i>	DG Factory Advisory Services & Labour	
Bureau of Indian Standards		Shri Upendra Singh	<i>Principal</i>
Smt. Supriya Minz	<i>Member Secretary</i>	Shri Jai Narayan	<i>Alternate</i>
Baliga Lighting Equipment Pvt. Ltd.		Directorate General of Mines Safety	
Shri B.Ramesh Baliga	<i>Principal</i>	Shri G.L. Kanta Rao,	<i>Principal</i>
Shri K.Karunakaran	<i>Alternate</i>	Shri Madhukar Sahay	<i>Alternate</i>
Bharat Bijlee Ltd.		Engineers India Ltd.	
Shri Salil Kumar	<i>Principal</i>	Shri B.R.Bhogal	<i>Principal</i>
Smt. Anjali Ranade	<i>Alternate</i>	Mrs. Sumita Anand	<i>Alternate</i>
Bharat Heavy Electricals Ltd.		Ms. Rashmi Singh	<i>Second Alternate</i>
Shri H.K. Nigam	<i>Principal</i>	Electrical Research & Development	
Shri A.K. Varshney,	<i>Alternate</i>	Shri Ravi Prakash Singh	<i>Principal</i>
Shri Baboo Sonwane	<i>Second Alternate</i>	Shri Gautam Brahmhatt	<i>Alternate</i>
Centre for Fire,Explosive & Environment		Gilbarco Veeder Root India Private Limited	
Dr. S.C. Aggarwal	<i>Principal</i>	Shri Russy N. Master	<i>Principal</i>
Shri L.C. Ralte	<i>Alternate</i>	Shri Deepak Mehra	<i>Alternate</i>
Crompton Greaves Ltd.		Hindustan Petroleum Corporation Ltd	
Shri Dilip Pawar	<i>Principal</i>	Ms Rupali Kabi	<i>Principal</i>
Shri Bharat Barve	<i>Alternate</i>	Shri D.K. Sharma	<i>Alternate</i>
Confederation of Indian Industry		Shri Reji Mathew	<i>Second Alternate</i>
Shri K.Nandakumar	<i>Principal</i>	IEEMA	
Central Institute of Mining & Fuel Research		Chaiman of IEEMA Rotating	<i>Principal</i>
Dr. Arvind Kr. Singh	<i>Principal</i>	Ms Gupta Anita	<i>Alternate</i>
Shri Rajendra Kr.	<i>Alternate</i>	Uttam Kumar	<i>Second Alternate</i>
Shri Bhagirath Ahirwal	<i>Second Alternate</i>	Indian Flameproof Mfrs. Association	
Coal India Ltd.		Shri Gupta B.K.	<i>Principal</i>
Chief GM(S&R)	<i>Principal</i>	Shri R.H.Patel	<i>Alternate</i>
Suptd Engineer (E&M)	<i>Alternate</i>	Shri Nilesh Agarwal	<i>Second Alternate</i>
Central Power Research Institute		Intertek	
Shri G.B. Balraju	<i>Principal</i>	Shri Rakesh Chaurasia	<i>Principal</i>
Deptt. of Construction, Services & Estate		Shri Irfan Khan	<i>Alternate</i>
Shri D.K.Jain	<i>Principal</i>	Karandikar Laboratories Pvt. Ltd.	
Ministry of Defence		Shri Ajit Vasudev Karandikar	<i>Principal</i>
Sh. R.N Sinha	<i>Principal</i>	Shri Ravindra Keshav	<i>Alternate</i>

Oil Industry Safety Directorate

Nomination Awaited *Principal*

Shri Nomination Awaited *Alternate*

Oil & Natural Gas Commission

Shri Manoj Garg *Principal*

Shri Harsh Nupur Joshi *Alternate*

Petroleum and Explosives Safety

Dr. Yogesh Khare *Principal*

Shri K.Srinivasa Rao, *Alternate*

Reliance Industries Ltd.

Shri Kuldip Kumar Dhar *Principal*

Shri M. N. Bhagwan *Alternate*

Standardisation Testing & QC Directorate

Shri Biswajit Deb *Principal*

Tariff Advisory Committee

Shri Amit Saha *Principal*

ANNEX 1
COMPOSITION OF
ET 23 ELECTRIC LAMPS AND THEIR AUXILIARIES

Bureau of Indian Standards		Shri A.K.Saxena	<i>Principal</i>
Shri D Goswami	<i>Member Secretary</i>	Shri Arvind Kumar	<i>Alternate</i>
Bajaj Electricals Ltd.		Department of Electronics & Information	
Shri S. Chakraborty	<i>Principal</i>	Shri Arun Sachdeva	<i>Principal</i>
Shri Rahul Mahanoori	<i>Alternate</i>	Smt. Asha Nangia	<i>Alternate</i>
Bureau of Energy Efficiency		DG Factory Advisory Services & Labour	
Shri Ashok Kumar	<i>Principal</i>	Dr. S.N.Banerjee	<i>Principal</i>
Ms Deepshikha Wadhwa	<i>Alternate</i>	Shri R.N. Meena	<i>Alternate</i>
Shri Saurabh Diddi	<i>Second Alternate</i>	Directorate General of Supplies & Disposals	
Brihan Mumbai Electric Supply & Transport		Shri H.R. Sharma	<i>Principal</i>
Shri A.R. Talegaonkar	<i>Principal</i>	Ms Alka Chauhan	<i>Alternate</i>
Shri R.T. Shah	<i>Alternate</i>	Shri R.S.Pandey	<i>Second Alternate</i>
Binay Opto Electronics Pvt. Ltd.		Delhi Metro Rail Corporation Ltd	
Shri Vineet K. Rohatgi	<i>Principal</i>	Shri A K Garg	<i>Principal</i>
Consumer Association , Palakkad Kerala		Delhi Transco Ltd	
Shri R C Mathew	<i>Principal</i>	Shri R S Meena	<i>Principal</i>
Central Electricity Authority		Shri B L Gujjar	<i>Alternate</i>
Shri R.K. Verma	<i>Principal</i>	Energy Efficiency Services Limited	
Shri Sanjay Srivasata	<i>Alternate</i>	Dr. Saurabh Kumar	<i>Principal</i>
Shri Vivek Goyal	<i>Second Alternate</i>	Shri A Gulati	<i>Alternate</i>
Crompton Greaves Ltd.		Electric Lamp & Component Mfrs. Assn of	
Uma.lanka	<i>Principal</i>	Shri Shyam Sujan	<i>Principal</i>
Central Power Research Institute		Shri H.S. Mamak	<i>Alternate</i>
Shri M. Siddhartha Bhat	<i>Chairman</i>	Eon Electric Limited	
Shri R Sudhir Kumar	<i>Principal</i>	Shri V.P. mahendru	<i>Principal</i>
Shri N. Rajkumar	<i>Alternate</i>	Shri Dr. Rajat Mandal	<i>Alternate</i>
Central Public Works Department		Electrical Research & Development	
Shri J.M. Paswan	<i>Principal</i>	Shri G.V. Brahmhatt	<i>Principal</i>
Shri Mukesh Vij	<i>Alternate</i>	Shri N. L. Patel	<i>Alternate</i>
Shri C.K. Varma	<i>Second Alternate</i>	Shri Ashishsinh D. Pardeshi	<i>Second Alternate</i>
Development Commissioner Micro, Small &		Halonix	
Dr. S.K. Sahoo	<i>Principal</i>	Shri Deepak Gupta	<i>Principal</i>
Shri Dhanendra Prasad	<i>Alternate</i>	International Airport Authority of India	
Shri S.K. Saini	<i>Second Alternate</i>	Nominated Awaited	<i>Principal</i>
Ministry of Defence			

Indian Institute of Technology (Delhi)

Prof S.S. Murthy *Principal*

IIT, Kanpur

Nomination Awaited *Principal*

In personal Capacity

Shri P.K.Mukherjee *Principal*

Instapower Ltd.

Shri Himangshu R. Vaish *Principal*

Indian Society of Lighting Engineers

Shri Dr.Prakash Barjatia *Principal*

Dr Sandeep Grag *Principal*

Shri Prakash Barjatia *Alternate*

Jadavpur University

Dr. Saswati Mazumdar *Principal*

Dr B. Roy *Alternate*

Ledvance Pvt. Ltd.

Ms Bhavna Kasturia *Principal*

Shri Rajat S Mandal *Alternate*

MLS India Private Limited

Shri Krishan Sujan *Principal*

Dr Jerry Yao *Alternate*

Ministry of Environment & Forests

Nomination Awaited *Principal*

National Physical Laboratory

Dr. Ranjana Mehrotra *Principal*

NTPC Ltd

Shri Sanjay Seth *Principal*

Shri Vikram Talwar *Alternate*

Philips Electronics India Ltd

Shri Amal Sengupta *Principal*

Shri Chaudhuri Kunal *Alternate*

Shri Sunil S. Duggal *Second Alternate*

Energy Efficiency & Renewable Energy

Dr. (Mrs.) Parveen Dhamija *Principal*

Dr. Chandra Prakash *Alternate*

Surya Roshni Ltd.

Shri R.K. Jaggi *Principal*

Shri Sukanta Kundu *Alternate*

The Energy and Resources Institute

Shri Arvind Sharma *Principal*

Tata Power

Shri Pillai Ramachandran *Principal*

Tata Power Delhi Distribution Limited

Shri Sunil Singh *Principal*

Shri Jayanta Chatterjee *Alternate*

U L India Pvt. Ltd.

Shri V. Manjunath *Principal*

Shri Ajay Kumar Patidar *Alternate*

Voluntary Organisation in Interest of

Shri H. Wadhwa *Principal*

Shri K.C. Chaudhary *Alternate*

ANNEX 1
COMPOSITION OF ET 25 LIFTS AND ESCALATORS

Chief Electrical Inspectorate (Maharashtra)		Shri Jagdish Prashar	<i>Alternate</i>
Shri S. R. Bagde	<i>Chairman</i>		
Bureau of Indian Standards		Electrical Inspectorate Himachal Pradesh	
Ms. Meghna Medgal	<i>Member Secretary</i>	Shri D C Chowdhury	<i>Principal</i>
Assam Lift Inspectorate		Fire and Emergency Services & Fire Advisor	
Nomination Awaited	<i>Principal</i>	Shri M V Deshmukh	<i>Principal</i>
Central Electricity Authority		Shri S Warick	<i>Alternate</i>
Shri Moti Lal	<i>Principal</i>	FUJITEC India Pvt. Ltd.	
Shri P.C. Kureel	<i>Alternate</i>	Shri S. P. Rao	<i>Principal</i>
Govt. of Gujarat (IW),		Shri R Rajesh	<i>Alternate</i>
Mr. Vaishnav B.M.	<i>Principal</i>	Shri S.S. Balakrishnan	<i>Second Alternate</i>
Chief Electrical Inspectorate (Karnataka)		The Indian Institute of Architects	
Shri D.H. Basavaraju	<i>Principal</i>	Shri Vinay M. Parelkar	<i>Principal</i>
Shri Mohamad Javed Rabbani	<i>Alternate</i>	Shri Paresh Kapadia	<i>Alternate</i>
Chief Electrical Inspectorate (Tamil Nadu)		Johnson Lifts Private Limited	
Shri S Appavoo	<i>Principal</i>	Shri T. Subramanian	<i>Principal</i>
Shri D Karthikeyan	<i>Alternate</i>	Shri V.Karthikeyan	<i>Alternate</i>
Chief Electrical Inspectorate (WB)		Kolkata Metro	
Shri M. S Mukherjee	<i>Principal</i>	Shri D C Ray	<i>Principal</i>
Shri Bipul Hazra	<i>Alternate</i>	KONE Elevators India Ltd.	
Central Public Works Department		Shri P. Gurumoorthy	<i>Principal</i>
Shri Shri Pyare Lal	<i>Principal</i>	Shri U.Viswanathan	<i>Alternate</i>
Shri H.S. Sandhu	<i>Alternate</i>	Shri R. Mani	<i>Second Alternate</i>
Shri C K Verma	<i>Second Alternate</i>	Lerch Bates Private Limited	
Ministry of Defence		Shri A S Herwadkar	<i>Principal</i>
Brig Brig Sunil V Gaopande	<i>Principal</i>	Shri Prashant Kulkarni	<i>Alternate</i>
Shri Manoj Kumar	<i>Alternate</i>	Maharashtra Chamber & Housing Industry	
Delhi Fire Service		Shri Pratik Patel	<i>Principal</i>
Shri A.K. Sharma	<i>Principal</i>	Shri Diipesh Bhagtani	<i>Alternate</i>
Dr. G.C. Misra	<i>Alternate</i>	Office of the Labour Commissioner; Delhi	
Delhi Metro Rail Corporation Ltd		Shri Mukesh Kumar Sharma	<i>Principal</i>
Shri Manju Singhal	<i>Principal</i>	Shri Jogender Singh	<i>Alternate</i>
Shri Sumit Kumar Sharma	<i>Alternate</i>	Otis Elevator Co.(India) Ltd.	
Electrical Inspectorate, Haryana		Shri Vijay Jaychandran	<i>Principal</i>
Shri S.K. Kakkar	<i>Principal</i>	Shri Abhijit Dandekar	<i>Alternate</i>
		Shri Mr. H. N. Prashanth	<i>Second Alternate</i>

Public Works Department, Maharashtra

Shri S M Bhasme *Principal*

Shri N.I. Patil *Alternate*

Shri R P Bhople *Second 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*

Thyssenkrupp Elevator (India) Pvt. Ltd.

Shri Vishnu Parashar *Principal*

Shri Nitin Kadam *Alternate*

ANNEX 1
COMPOSITION OF
ET 28 SOLAR PHOTOVOLTAIC ENERGY SYSTEMS

National Institute of Solar Energy		Smt K. Swarupa	<i>Alternate</i>
Dr O. S. Sastry	<i>Chairman</i>	HBL Power Systems Limited	
Bureau of Indian Standards		Shri Manoj Jahagirdar	<i>Principal</i>
Shri Sumit Sengar	<i>Member Secretary</i>	Shri Pervez Haniff	<i>Alternate</i>
Amar Raja Batteries Ltd.		HENSEL	
Shri C. Niranjana	<i>Principal</i>	Shri Rajesh Ranjan	<i>Principal</i>
Shri C.B. Ramesh Babu	<i>Alternate</i>	Shri Rajesh Kulkarni	<i>Alternate</i>
Shri Jasmeet Singh	<i>Second Alternate</i>	Indian Institute of Technology (Delhi)	
Bharat Heavy Electricals Ltd.		Dr. Viresh Dutta	<i>Principal</i>
Shri M. Srinath	<i>Principal</i>	In personal Capacity	
Shri Lokabhiraman S	<i>Alternate</i>	Dr. T.C. Tripathi	<i>Principal</i>
Central Electricity Authority		Indian Renewable Energy Development	
Shri R.K. Verma	<i>Principal</i>	Dr. Debashish Majumdar	<i>Principal</i>
Ms. Vandana Singhal	<i>Alternate</i>	Shri Abhilakh Singh	<i>Alternate</i>
Central Electronics Ltd.		Shri K. Yeptho	<i>Second Alternate</i>
Dr. U.S. Taneja	<i>Principal</i>	Jadavpur University	
Central Power Research Institute		Nomination awaited	<i>Principal</i>
Shri M. Siddhartha Bhatt	<i>Principal</i>	Larsen & Toubro Ltd	
Shri Rajashekar, P. Mandi	<i>Alternate</i>	Shri Milan Kumar	<i>Principal</i>
Shri R. Sudhir Kumar	<i>Alternate</i>	Shri Kailash Chandra Pandey	<i>Alternate</i>
Central Public Works Department		Moser Baer India Ltd.	
Shri S.P. Baranwal	<i>Principal</i>	Shri MohanaKumar	<i>Principal</i>
Shri M.K. Verma	<i>Alternate</i>	Ministry of New & Renewable Energy	
Department of Industrial Policy & Promotion		Dr Ahmar Raza	<i>Principal</i>
Shri Ramasubramaniam T.	<i>Principal</i>	Non Conventional Energy Development	
Shri Ali Khan M.M.	<i>Alternate</i>	Shri Sharma Mahendra Pal	<i>Principal</i>
ECCO Electronics Pvt. Ltd.		Parakeet Power Pvt Ltd	
Shri Ramendra Singh Baoni	<i>Principal</i>	Shri Ramesh T Vadhada	<i>Principal</i>
Shri Hamendra Varshney	<i>Alternate</i>	Shri Dhruv R Vadhada	<i>Alternate</i>
Engineers India Ltd.		Rajasthan Electronics & Instruments Ltd	
Shri Parag Gupta	<i>Principal</i>	Shri Mukesh Bihari Mathur	<i>Principal</i>
Shri Raman Sood	<i>Alternate</i>	Shri Anil Kumar Sharda	<i>Alternate</i>
Shri Pritam Biswas	<i>Second Alternate</i>	Ritika Systems	
Electronics Test and Development Centre		Nomination awaited	<i>Principal</i>
Shri B. Satish Rao	<i>Principal</i>		

Rajasthan Renewable Energy Corporation

Shri Rajeeva Swarup *Principal*

Shri A.K. Pathak *Alternate*

Schneider Electric India Pvt. Ltd

Shri Jitendra Kulkarni *Principal*

Shri Vidyanayn Hammappa *Alternate*

Solar Energy Centre

Dr Rajesh Kumar *Principal*

Siemens Ltd.

Shri Umesh Sathe *Principal*

ST Microelectronics Private Limited

Shri Pradeep Kumar *Principal*

Shri Kaushik Saha *Alternate*

Sun Technics Energy Systems Pvt. Ltd.

Shri Sanoj James *Principal*

Shri Girish J.R. *Alternate*

The Tata Power Co Ltd,

Shri S. B. Lakhpathi *Principal*

Shri A Buddhiwant *Alternate*

The Energy and Resources Institute

Smt Mohanty Parimita *Principal*

Dr Arvind Sharma *Alternate*

Dr Richi B. Stephen *Second Alternate*

Titan Solar Energy Systems Ltd

Shri Anchala Pampapathy *Principal*

Shri G.K. Kotaiah *Alternate*

Tata Power Solar Co. Ltd.

Shri Balamurugan D. *Principal*

Shri Amit Singla *Alternate*

Shri Shachi Krishnamurthy *Second Alternate*

U L India Pvt. Ltd.

Shri Sriparn Saurabh *Principal*

Shri Srimathy *Alternate*

Shri Ashish Mathur *Second Alternate*

West Bengal Renewable Energy Development

Nomination awaited *Principal*

ANNEX 1
COMPOSITION OF ET 29 POWER CAPACITORS

Central Power Research Institute		Shri Dy. Director (Planning)	<i>Alternate</i>
Shri T. Bhavani Shanker	<i>Chairman</i>	Epcos India Pvt. Ltd.	
Bureau of Indian Standards		Dr Venkatesh Raghavan	<i>Principal</i>
Shri Ritwik Anand	<i>Member Secretary</i>	Shri Sachin Gogate	<i>Alternate</i>
ABB Ltd.		Electrical Research & Development	
Shri Vaibhav Kulkarni	<i>Principal</i>	Shri Shailesh Patel	<i>Principal</i>
Shri Sai Krishna Kumar B	<i>Alternate</i>	Shri Saunak Bhatt	<i>Alternate</i>
Bangalore Electricity Supply Company		GETCO	
Smt. G.Sheela	<i>Principal</i>	Shri B.S. Mahant	<i>Principal</i>
Shri Mohan Kumar.B.N	<i>Alternate</i>	Gujrat Urja Vikas Nigam Ltd	
Shri M.N. Siddalingappa	<i>Alternate</i>	Shri P.A. Shah	<i>Principal</i>
Bharat Heavy Electricals Ltd.		IEEMA	
Shri KULAMANI NAIK	<i>Principal</i>	Dr. Venkatesh	<i>Principal</i>
Shri K M Naik	<i>Alternate</i>	Ms Anita Gupta	<i>Alternate</i>
Central Electricity Authority		Inphase Power Technologies Pvt. Ltd.,	
Smt R.K.Verma	<i>Principal</i>	Shri Biswas Pannalal, AVP	<i>Principal</i>
Shri Y.K. Swarankar	<i>Alternate</i>	Shri Natesh Mayavel	<i>Alternate</i>
CESC Limited		Indian Society of Lighting Engineers	
Shri Nikhilesh De	<i>Principal</i>	Shri Gulshan Aghi	<i>Principal</i>
Shri Jayanta Paul	<i>Alternate</i>	Madhav Capacitors Pvt. Ltd.	
Central Power Research Institute		Shri B.D. Nikam	<i>Principal</i>
Shri V. Vaidhyanathan	<i>Principal</i>	Shri Vaibhav D Ambadkar	<i>Alternate</i>
Development Commissioner Micro, Small &		Meher Capacitors Pvt. Ltd.	
Shri B.N. Sudhakara	<i>Principal</i>	Shri Mustafa Wajid	<i>Principal</i>
Shri B.N. Sudhakar	<i>Principal</i>	Magnewin Energy Pvt. Ltd.	
Shri S.K. Saini	<i>Alternate</i>	Shri Vinod S. Bolaj	<i>Principal</i>
Shri Dhanendra Prasad	<i>Alternate</i>	Shri Vijaykumar S.	<i>Alternate</i>
Madhya Pradesh Power Transmission Corpn.		NDPL	
Shri R.K.Verma	<i>Principal</i>	Shri Ashok Saraf	<i>Principal</i>
Dr. V.K.Kashyap	<i>Alternate</i>	Shri Ashok Saraf	<i>Principal</i>
Maharashtra State Transco Ltd		Shri Ravindra Panage	<i>Alternate</i>
Shri D.D.Pradhan	<i>Principal</i>	Shri Ravindra Panage	<i>Alternate</i>
Shri S.B.Gundale	<i>Alternate</i>	National Test House	
Punjab State Electricity Board		Shri D.G. Basumatary	<i>Principal</i>
Shri Director, Design Sub-	<i>Principal</i>	Shri S.B. Nandakumar	<i>Alternate</i>

NTPC Ltd

Shri D.K.Gupta *Principal*

Power Grid Corporation of India Limited

Shri D.K.Gupta *Principal*

Shri Mahendra Saxena *Alternate*

Rural Electification Corporation Ltd.

Shri Dinesh Kumar, *Principal*

Shri P.S. Hariharan *Alternate*

Schneider Electric India Pvt. Ltd

Shri Ravindra Kulkarni *Principal*

Shri Anupam Majunder *Alternate*

Shri Srinivas MR *Alternate*

Shreem Elecric, Kolhapur Maharashtra

Shri Vishal Jagadale *Principal*

Shri Nagesh I Dhang *Alternate*

Siemens Ltd.

Shri Nileshwer *Principal*

Shri Amit Kumar Saha *Alternate*

The Tata Power Co Ltd,

Ms Deepa Joshi *Principal*

Shri G.T. Jawale *Alternate*

Shri Pillai Ramachandran *Second Alternate*

Universal Cables Ltd.

Shri Hement Talete *Principal*

Shri Ajay Joshi *Alternate*

ANNEX 1
COMPOSITION OF ET 30 SURGE ARRESTERS

Central Power Research Institute

Smt M.Kanyakumari *Chairman*

Bureau of Indian Standards

Shri Shyam Kumar *Member Secretary*

Bharat Heavy Electricals Ltd.

Smt Aruna Gulati *Principal*

Shri Rajnish Goyal *Alternate*

BSES Rajdhani Power Limited

Nomination Awaited *Principal*

Central Electricity Authority

Director (Substation) *Principal*

Dy Director (Substation) *Alternate*

CESC Limited

Shri Debashis Ghosh *Principal*

Shri Sukalayan Ghoshal *Alternate*

Crompton Greaves Ltd.

Shri Milind Zodage *Principal*

Shri John Yesuraj *Alternate*

Central Power Research Institute

Dr Pradeep M. Nirgude *Principal*

Smt P. Jithin Pauly *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 Tirtha Vishwakarma *Alternate*

Gujrat Electricity Board

Shri Bhatt J.K. *Principal*

Shri Shah A.R. *Alternate*

GETCO

Shri Y.V. Joshi *Principal*

IEEMA

Chairman-Surger Arrestors *Principal*

Smt Anita Gupa *Alternate*

Smt Anita Gupta *Alternate*

Indian Institute of Science, Bangalore

Prof L. Satish *Principal*

In personal Capacity

Dr. Channakeshava *Principal*

Karnataka Power Transmission Corpn Ltd

Shri Hanumanthaappa B.S. *Principal*

Shri Shyamasunder *Alternate*

Lamco Lighting Arrester Mfg.

Shri B. Rajaiah *Principal*

Shri Prakkasam N.S. *Alternate*

NDPL

Nomination Awaited *Principal*

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 Limited

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 Nileshwer *Principal*

Shri Amit Kumar *Alternate*

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

**ANNEX 1
COMPOSITION OF
ET 31 POWER ELECTRONICS**

Bureau of Indian Standards

Ms. Neha Agarwal *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*

Dr. Ghamandi Lal *Alternate*

Central Electricity Authority

Dr Prabhat Mohan *Principal*

Shri *Alternate*

Crompton Greaves Ltd.

Shri Dinesh Nimje *Principal*

CMAI

Shri Nomination Awaited *Principal*

Development Commissioner Micro, Small &

Dr. S. K. Sahoo *Principal*

Shri Dhanendra Prasad *Alternate*

Shri S.K. Saini *Second Alternate*

Ministry of Defence

Lt. Col S K Uniyal *Principal*

Shri M Kannan *Alternate*

Directorate General of Supplies & Disposals

Shri P.M. Wanzari *Principal*

Shri S.K. Jain *Alternate*

Emerson Network Power

Shri Ajoy Dilipsen Tamhane *Principal*

Electrical Research & Development

Dr. Vinod Gupta *Principal*

Shri Asheesh Dhaneria *Alternate*

Indian Institute of Technology (Delhi)

Nomination awaited *Principal*

INFINEON TECHNOLOGIES

Dr. Swaminathan *Principal*

Larsen & Toubro Ltd

Shri R.G. Rane *Principal*

Shri D N Purohit *Alternate*

MICROTEK International Pvt. Ltd.

Shri Jayanta Sengupta *Principal*

Shri Manoj Chawla *Alternate*

National Informatics Centre,

Shri Nomination awaited *Principal*

Nuclear Power Corporation of India Ltd

Shri George Sebastian *Principal*

Smt. Dhanashree V.Vyawahare *Alternate*

NTPC Ltd

Shri D.K. Chaturvedi *Principal*

Smt. C. Saroj *Alternate*

Phoenix Contact (India) Pvt Ltd

Shri Suresh Jan *Principal*

Shri Manchanda Ashish *Principal*

Shri Gaurav Mishra *Alternate*

Shri Rishi Sharma *Alternate*

Power Grid Corporation of India Limited

Shri B.B. Mukherjee *Principal*

Shri Vikas Bagadia *Alternate*

Research Design & Standards Organisation

Shri Sandeep Srivastava *Principal*

Shri V.K. Singh *Alternate*

Steel Authority of India Ltd.

Shri Rajesh Kumar Jain *Chairman*

Shri Rajeev Kumar Jha *Principal*

Shri Gulshan Kumar *Alternate*

State Bank of India,

Shri Bhawe A.W. *Principal*

Shri Nomination Awaited *Alternate*

Schneider Electric India Pvt. Ltd

Shri Thiagarajan *Principal*

Shri Milind Dighrasker *Alternate*

Siemens Ltd.

Shri Benhur Paul Kurapaty *Principal*

Shri Shailendra Waghulde *Alternate*

ST Microelectronics Private Limited

Shri Pradeep Kumar *Principal*

Shri Mohammad Zeya Wase *Alternate*

Standardisation Testing & QC Directorate

Shri R.C. Thakur *Principal*

Shri N.V. Chavan *Alternate*

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*

Voluntary Organisation in Interest of

Shri H S Wadhwa *Principal*

ANNEX 1
COMPOSITION OF
ET 32 ELECTRICAL APPLIANCES

Bureau of Indian Standards

Shri Ritwik Anand *Member Secretary*

Bajaj Electricals Ltd.

Shri K. Mani Nath *Principal*

Shri Harcharan Singh Bhatia *Alternate*

Shri Jagdish Mulimani *Second Alternate*

Bureau of Energy Efficiency

Mr Saurabh Diddi *Principal*

Shri Ashish Saraswat *Alternate*

BSH Household Appliances Mfg. Pvt. Ltd.,

Shri Madhanraj Ramalingam *Principal*

Shri Balasubramanian Anand *Second Alternate*

Central Electricity Authority

Shri Alok Gupta *Principal*

Shri R.K. Verma *Alternate*

Govt. of Gujarat (IW),

Shri Mishra N.J. *Alternate*

Consumer Education and Research Centre

Shri Shweta Mahajan *Principal*

Crompton Greaves Ltd.

Shri Shah S.R. *Principal*

Shri Mayur Nadkarni *Principal*

Shri Satyendra P Singh *Alternate*

Central Power Research Institute

Shri Rajshekar P. Mandi *Principal*

Shri D. Venkatesh *Alternate*

Central Public Works Department

Shri Mukesh Vij *Principal*

Shri A. K. Goel *Alternate*

Development Commissioner Micro, Small &

Dr. S.K. Sahoo *Principal*

Shri Dhanendra Prasad *Alternate*

Shri S.K. Saini *Second Alternate*

Ministry of Defence

Shri S.K. Mahajan *Principal*

Shri Manoj Kaushik *Alternate*

Directorate General of Supplies & Disposals

Shri Senjeet Kumar *Principal*

Shri Rakesh Kumar *Alternate*

Department of Industrial Policy & Promotion

Shri S.K. Jain *Principal*

Shri Mohd.Zakaria Khan *Alternate*

Electrical Appliances Mfrs. Association

Shri J.K. Oberoi *Principal*

Shri Ramesh Khanna *Alternate*

Shri Parkash Atam *Second Alternate*

Electrical Research & Development

Shri G. V. Brahmabhatt *Principal*

Shri Rakesh Patel *Alternate*

Electronics Regional and Test Laboratory

Ms Manjula Bhati *Principal*

Indian Fan Manufacturers' Association

Shri Uday. Mahajani *Principal*

In personal Capacity

Shri P K Mukherjee *Principal*

LG Electronics

Shri Gaurav Gupta *Principal*

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 Vivek Sharma *Second Alternate*

Racold Thermo Ltd.

Shri Mahesh Bhangale *Principal*

Shri Trishala Chougule *Alternate*

Research Design & Standards Organisation

Shri Prafulla Chandra *Principal*

Shri Suresh Chandra *Alternate*

Underwriters Laboratory, Bangalore

Shri V.Manjunath *Principal*

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*

ANNEX 1
COMPOSITION OF ET 33 WINDING WIRES

Bharat Heavy Electricals Ltd.

Shri Ratnanav Acharya *Chairman*

Bureau of Indian Standards

Shri Sudheer Bishnoi *Member Secretary*

Bharat Heavy Electricals Ltd.

Shri Ratnanav Acharya *Principal*

Bharat Heavy Electricals Ltd.,Hyderabad

Shri J.M. Jagadishwar Rao *Alternate*

Shri Laxmi Rajam M *Second Alternate*

Central Electricity Authority

Shro Vivek Goel *Principal*

Shri Faraz *Alternate*

Crompton Greaves Ltd.

Shri Agnihotri S.D. *Principal*

Shri Nadkarni M.P. *Alternate*

Central Power Research Institute

Dr. M. Moumita Naskar *Principal*

Development Commissioner Micro, Small &

Dr. S.K.Sahoo *Principal*

Shri Dhanendra Prasad *Alternate*

Shri S.K. Saini *Second Alternate*

Ministry of Defence

Brig MMS Bharaj *Principal*

Col P. P. Singh *Alternate*

Elantas Beck India Ltd.

Shri Bapu Gowade *Principal*

Ms Rakhee Telkar *Alternate*

Electronics Corporation of India Ltd.

Shri Atul Jain *Alternate*

Electrical Research & Development

Shri Shailesh Patel. *Principal*

International Copper Association Ltd

Shri Abhishek Dhupar *Principal*

Shri Sanjeev Ranjan *Alternate*

IEEMA

Shri Pragati Sohoni *Principal*

Shri Pande J. *Alternate*

Kirloskar Electric Company Ltd.

SHRI Umesh G. *Principal*

Larsen & Toubro Ltd

Shri Sudhir R.Kulkarni *Principal*

Shri Rajesh P. Sawant *Alternate*

Shri Kevin J. Fernandes *Second Alternate*

National Aluminium Company Ltd.

SHRI Pani B.S *Principal*

Shri Nair M.K.B *Alternate*

National Test House

Shri Jeyraj. K. *Principal*

Shri A. S. Negi *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*

Siemens Ltd.

Shri Ashish Shere *Alternate*

Winding Wires Assoc. of India

Shri Sudhir Agarwal *Principal*

Shri Anant Loya *Alternate*

ANNEX 1
COMPOSITION OF
ET 34 INSTRUMENT TRANSFORMERS

NTPC Ltd,		Shri Shailesh Patel	<i>Principal</i>
Shri Dinkar Devate	<i>Chairman</i>	Shri H K Mishra	<i>Alternate</i>
Bureau of Indian Standards		GETCO	
Shri Sudheer Bishnoi	<i>Member Secretary</i>	Shri Y.V. Joshi	<i>Principal</i>
ABB Ltd.		Shri Y.V. Joshi	<i>Principal</i>
Shri Ankit Joshi	<i>Principal</i>	Shri Y.V. Joshi	<i>Principal</i>
Ms. Geetha Joshi	<i>Alternate</i>	Gilbert & Maxwell Electricals Pvt. Ltd.	
Ms Diviya Taneja	<i>Second Alternate</i>	Shri Deshpande N.S.	<i>Principal</i>
Areva T& D India Limited		Shri Deshpande Pradeep	<i>Alternate</i>
Shri S. Mohan	<i>Principal</i>	Hivoltrans Electricals Pvt. Ltd.	
Shri Subhash Kulkarni	<i>Alternate</i>	Shri Akre G.V.	<i>Principal</i>
Brihan Mumbai Electric Supply & Transport		Shri Karia V.R.	<i>Alternate</i>
Shri R.S. Kale	<i>Principal</i>	Shri Chowdhury Roy.A.	<i>Second Alternate</i>
Shri K.D. Bhalerao	<i>Alternate</i>	Institute for Design of Elec. Meas. Instruments	
Bharat Heavy Electricals Ltd.		Shri S.V. Rasal	<i>Principal</i>
Shri Kulamani Naik	<i>Principal</i>	Shri Pradeep Gujarathi	<i>Alternate</i>
Shri P V K Bara	<i>Alternate</i>	IEEMA	
Central Board of Irrigation & Power		J. Pande	<i>Principal</i>
Shri Director Energy	<i>Principal</i>	Ms Pragati Sohoni	<i>Alternate</i>
Shri R.S. Chadha	<i>Alternate</i>	Ms Uttam Kumar	<i>Second Alternate</i>
Central Electricity Authority		JSL Industries Ltd	
Smt Vandana Singal	<i>Principal</i>	Shri B.A. Patel	<i>Principal</i>
Shri Pawan Gupta	<i>Alternate</i>	Shri A. D. Mistry	<i>Alternate</i>
Shri A.C. Arora	<i>Second Alternate</i>	Kapco Electric Pvt. Ltd.	
Crompton Greaves Ltd.		Shri S. D. Kulkarni	<i>Principal</i>
Shri D. John Yesuraj	<i>Principal</i>	Karnataka Power Transmission Corporation	
Shri Shailesh Mahajan	<i>Alternate</i>	Shri K.G. Romesh	<i>Principal</i>
Dr. Uday Sanvatsarkar	<i>Second Alternate</i>	Shri Krishnamoorthy	<i>Alternate</i>
Central Power Research Institute		Maharashtra State Electricity Board	
Shri S. Bhattacharya	<i>Principal</i>	Shri Sharadchandra Ambadas	<i>Principal</i>
Shri Swaraj Kumar Das	<i>Alternate</i>	Maharashtra State Electricity Transmission	
Madhya Pradesh Power Transmission Corpn.		Shri Madhusudan	<i>Alternate</i>
Shri Verma R.K.	<i>Principal</i>	National Hydroelectric Power Corporation	
Shri Shivara Singh	<i>Alternate</i>	Shri Rajesh Sharma	<i>Principal</i>
Electrical Research & Development		Shri M. Kannan	<i>Alternate</i>

Nortex MarketingShri S.K. Sharma *Principal*Shri S.K. Sharma *Principal*Shri Saseendran V. *Alternate*Shri Saseendran V. *Alternate***National Physical Laboratory**Dr. S.R.Gupta *Principal***NTPC Ltd**Shri S.D. Singh *Principal*Shri Subhash Thakur *Alternate***Power Grid Corporation of India Limited**Shri A.P. Gangadharan *Principal*Shri S.B.R. Rao *Alternate*Shri Dheeraj Srivastava *Second Alternate***Paras Power Engg. Pvt. Ltd.**Shri D. D. Kavi *Principal***Pragati Electricals Pvt. Ltd.**Shri Prashant. P. Gune *Principal*Shri Sajin K.T. *Alternate***Prayog Electricals Pvt. Ltd.**Shri Mantri Vinayak Jayant *Principal*Shri Desai Sharmrao *Alternate***Research Design & Standards Organisation**Shri Sujeet Mishra *Principal*Shri Arvind Kumar *Alternate***Siemens Ltd.**Shri Jyotirmoy Dutta *Principal*Shri Milind Bhagwat *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***Tamil Nadu Electricity Board**

EE/MRT/Chengalpattu

Principal

Executive Engineer

*Alternate***Vamet Electric Pvt. Ltd.**

Shri Gopal Choudhry K.

Principal

ANNEX 1
COMPOSITION OF
ET 35 POWER SYSTEM RELAYS

Indian Institute of Technology (MUMBAI)

Prof S.A.Soman *Chairman*

Bureau of Indian Standards

Ms. Neha Agarwal *Member Secretary*

ABB Ltd.

Shri V. Gopala Krishnan *Principal*

Shri Jagadish Anandrao *Alternate*

Areva T&D India Ltd (ALSTOM)

Shri Vivek Singal *Principal*

Shri H. Majid *Alternate*

Ashida Electronics Pvt. Ltd.

Shri Sujay Kulkarni *Principal*

Shri Suyash Kulkarni *Alternate*

Brihan Mumbai Electric Supply & Transport

Shri S. N. Pawar *Principal*

Shri S. S. Adlinge *Alternate*

Bharat Heavy Electricals Ltd.

Shri P. K.Upadhyay *Principal*

Shri K. Vyaghre Swara *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 Arghya Ghoshal *Principal*

Shri Nilanjan Saha *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 Metro Rail Corporation Ltd

Shri Ashish Arora *Principal*

Shri Subodh Pandey *Alternate*

Delhi Transco Ltd

Shri S.K. Sharma *Principal*

Shri B. L. Gujar *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 Corpn.

Shri Khorina B.P. *Principal*

Shri Shivraj Singh *Alternate*

Electrical Research & Development

Shri Gautam Som *Principal*

Shri H. K. Mishra *Alternate*

GETCO

Shri N.M.Sheth *Principal*

IEEMA

Chairman-MV/HV *Principal*

Shri Anil Mehta *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*

Indian Institute of Technology (MUMBAI)

Prof Soman *Chairman*

Shri S.A.Soman *Chairman*

Jyoti Ltd

Dr. Deepak Joshi *Principal*

Shri T.K.L. Narayanan *Alternate*

Nuclear Power Corporation of India Ltd

Shri V. Subba Rao *Principal*

Shri M.Ananthachari *Alternate*

NTPC Ltd

Shri Subhash Thakur *Principal*

Shri Arun Kumar Sharma *Alternate*

Power Grid Corporation of India Limited

Shri Kailash Rathore *Principal*

Shri Rajil Srivastava *Alternate*

Siemens Ltd.

Shri Kuldeep Tickoo *Principal*

Shri Govind Badhae *Alternate*

The Tata Power Co Ltd,

Ms. Deepa Joshi *Principal*

Shri A. Mukherji *Alternate*

Tata Consulting Engineers

Ms L.R. Patil *Principal*

Shri A.J. Joshi *Alternate*

ANNEX 1
COMPOSITION OF
ET 36 TOOLS AND EQUIPMENT FOR LIVE WORKING

Power Grid Corporation of India Limited

Shri Rajeev Kumar *Chairman*

Bureau of Indian Standards

Ms. Meghna Mudgal *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 P.K. Mishra *Principal*

Shri C.N. Devarajan *Alternate*

Central Power Research Institute

Shri Dr. Pradeep M Nirgude *Principal*

Shri Shri G. Pandian *Alternate*

Delhi Transco Ltd

Shri S.K. Sharma *Principal*

Shri Loveleen Singh *Alternate*

Haryana Vidyut Prasaran Nigam Ltd.

Shri Nomination Awaited *Principal*

Shri A.K. Diwan *Alternate*

TamilNadu Electricity Board

N Krishnamurthy *Principal*

N Kalappan *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 Transmission

Shri Nomination awaited *Principal*

Shri Nomination Awaited *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*

National Power Training Institute

Shri K.S. Venu Babu *Principal*

Shri L. Shivakumar *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*

Tamilnadu Transmission Corporation Limited

Shri N. Krishnamurthi *Principal*

Shri N. Kalappan *Alternate*

ANNEX 1
COMPOSITION OF
ET 37 CONDUCTORS AND ACCESSORIES FOR OVERHEAD LINES

Bureau of Indian Standards

Ms. Neha Mangal *Member Secretary*

Apar Industries Limited

Shri S.K. Jana *Principal*

Shri Harish Singh *Alternate*

Bharat Aluminium Co. Ltd.

Shri S. Prasad *Principal*

Shri N. Balakrishnan *Alternate*

Shri Kamal Karmakar *Second Alternate*

Cable & Conductor Mfrs. Association of India

Shri Sharma Alok *Principal*

Central Board of Irrigation & Power

Shri S.C. Nakra *Principal*

Shri Vishan Dutt *Alternate*

Central Electricity Authority

Shri R. K. Verma *Principal*

Dy Director (Transmission) *Alternate*

CESC Limited

Shri Arup Duttagupta *Principal*

Shri Tarun Kumar *Alternate*

Central Power Research Institute

Shri Anantha Babu M.D *Principal*

Shri D. Revanna *Alternate*

Development Commissioner Micro, Small &

Shri Sanjay Bisariya *Principal*

Shri S.V. Sharma *Alternate*

Shri S.K. Saini *Second Alternate*

Delhi Transco Ltd

Shri V. K. Gupta *Principal*

Smt. Kavita Shasrma *Alternate*

Haryana Vidyut Prasaran Nigam Ltd.

Shri Kausik H.C. *Principal*

Shri Gaba A.C. *Alternate*

Madhya Pradesh Power Transmission Corpn.

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.

Shri V.V. Salaskar *Principal*

Shri Rajesh Mangalvedhe *Alternate*

Galada Power & Telecommunication Ltd.

Shri D.C. Galada *Principal*

Shri E.K. Parekh *Alternate*

Shri Purushothama *Second Alternate*

Hindusthan Vidyut Products Ltd.

Shri M.K.Jhunjhunwala *Principal*

Shri O.P. Gupta *Alternate*

IEEMA

Chairman-Conductors *Principal*

Shri Naveen Upreti *Alternate*

Kalki Communications Technologies Ltd

Shri A. K. Singhal *Chairman*

KEC International Limited

Shri E.V. Rao *Principal*

Shri Pravin Mahajan *Alternate*

Kalpa Taru Power Transmission Ltd.

Shri B. B. Shah *Principal*

Shri Purnendu Chaubey *Alternate*

Modern Malleable Ltd.

Shri B.N. Jhunjhunwala *Principal*

Shri Archit Jhunjhunwala *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 Limited

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*

Sicame India Connectors Pvt Ltd.

Shri Shine Damodaran *Principal*

Shri Vijayakumar *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 Vivek T. Chari *Principal*

Shri Gopalan R.V. *Alternate*

The Tata Power Co Ltd,

Shri S. V. Deshmukh *Principal*

Shri Hemant Atre *Alternate*

Telecom Engineering Centre

Shri U.N. Bajpayi *Principal*

Shri A K Vohra *Alternate*

Tamil Nadu Electricity Board

Principal

Alternate

ANNEX 1
COMPOSITION OF ET 39 FUSES

Novateur Electrical & Digital Systems Pvt.

Shri Vimal Mahendru *Chairman*

Bureau of Indian Standards

Shri Ritwik Anand *Member Secretary*

Central Electricity Authority

Smt A. .K. Rajput *Principal*

Shri R.K. Verma *Alternate*

Central Power Research Institute

Shri M. K. Wadhvani *Principal*

Shri B.M.Mehra *Alternate*

Shri C.P. Jairam *Second Alternate*

Central Public Works Department

Shri C.K. Varma *Principal*

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

Directorate General of Supplies & Disposals

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*

Engineers India Ltd.

Shri U.A. Patro *Principal*

M/s Eaton Power Quality Pvt. Ltd.

Shri T. Pasupathi Rajan *Principal*

Shri P. Jayakumar *Alternate*

IEEMA

President (Switchgear) *Principal*

Ms Anita Gupta *Alternate*

Shri J. Pande *Alternate*

Larsen & Toubro Ltd

Shri Chandrashekhar Kore *Principal*

Shri G.R. Shetye *Alternate*

Legrand (India) Pvt Ltd.

Shri Suresh Deotalu *Principal*

Shri Rajan Parab *Alternate*

Shri Gagandeep Oberoi *Second 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*

RITES

Shri AKM Sharma *Principal*

Siemens Ltd.

Shri Sudhnaava Marathe *Principal*

Shri Sethunath Iyer *Alternate*

Tata Consulting Engineers

Shri V.K. Jain *Principal*

Shri Utpal Priyadarshi *Alternate*

Western India Switchgear Mfrs. Association

Shri Shashin N. Shah *Principal*

Shri Dhawal Shah *Alternate*

ANNEX 1
COMPOSITION OF
ET 40 HVDC POWER SYSTEMS

Power Grid Corporation of India Limited

Shri Oommen Chandy *Chairman*

Bureau of Indian Standards

Shri Ritwik Anand *Member Secretary*

ABB Ltd.

Shri R.S. Moni *Principal*

Shri Mridul Rawal *Alternate*

Areva T&D India Ltd (ALSTOM)

Shri Rakesh Singh *Principal*

Dr. Mepal Patel *Alternate*

Bhabha Atomic Research Centre

Shri Mahendroo P.N. *Principal*

Bharat Heavy Electricals Ltd.

Sh. Jai Singh Kuntia *Principal*

Shri S.K.Gupta *Alternate*

Central Electricity Authority

Dr. Prabhat Mohan *Principal*

Shri .M.S. Satija *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*

Indian Institute of Science, Bangalore

Prof Nagabhushana G.R. *Principal*

Dr. Satish L.

Alternate

Larsen & Toubro Ltd

Shri K. Rajaram

Principal

Shri D. Maheswaran

Alternate

Shri R.. Arora

Second Alternate

NTPC Ltd

Shri Ajit Kumar

Principal

Shri Pramod Kumar

Alternate

Power Grid Corporation of India Limited

Shri B. B. Mukherjee

Principal

Shri Deepak M Roy

Alternate

Siemens Ltd.

Shri Sunil Lalla

Principal

Shri Kaustuv Roy

Alternate

Shri Nileshwer

Second Alternate

Tata Consulting Engineers

Shri K.G. Krishnamurthy

Principal

Shri N.D. Chaoji

Alternate

Tamil Nadu Electricity Board

Shri Chief Engineer

Principal

Shri

Alternate

Vidyut Parsarn Nigam Ltd.

Shri Kaushik H.C.

Principal

W.S. Industries (India) Ltd

Shri P. Sridharan

Principal

Shri Kasturi K

Principal

Shri N.V. Ramkumar

Alternate

ANNEX 1
COMPOSITION OF
ET 42 WIND TURBINES

Centre for Wind Energy Technology(Stds. &		National Productivity Council	
Dr. S. Gomathinayagam	<i>Chairman</i>	Shri Sunil Kumar	<i>Principal</i>
Bureau of Indian Standards		POSOCO	
Shri Ritwik Anand	<i>Member Secretary</i>	Nomination awaited	<i>Principal</i>
Bharat Heavy Electricals Ltd.		RRB Energy Ltd.	
Nomination Awaited	<i>Principal</i>	Shri Sarvesh Kumar	<i>Principal</i>
Central Electricity Authority		Shri N. Ramshankar	<i>Alternate</i>
Shri A. K. Rajput	<i>Principal</i>	Rajasthan Renewable Energy Corporation	
Shri D. K. Srivastava	<i>Alternate</i>	Shri Sunit Mathur	<i>Principal</i>
Consumer Education and Research Centre		Shri Mukesh Vyas	<i>Alternate</i>
Nomination awaited	<i>Principal</i>	Suzlon Energy Ltd.,	
Central Power Research Institute		Shri Suresh Pillai	<i>Principal</i>
Shri S. Shyam Sundar	<i>Principal</i>	The Tata Power Co Ltd,	
TamilNadu Electricity Board		Shri S. B. Lakhapati	<i>Principal</i>
Chief Engineer	<i>Principal</i>	Shri V R Korgaonkar	<i>Alternate</i>
Superintending Engineer	<i>Alternate</i>	The Energy and Resources Institute	
Enercon (India) Ltd.		Nomination awaited	<i>Principal</i>
Shri M.P. Ramesh	<i>Principal</i>	Shri Amit Kumar	<i>Alternate</i>
Indian Institute of Science, Bangalore			
Prof V.T. Ranganathan	<i>Principal</i>		
Dr Vinod Johr	<i>Alternate</i>		
Indian Institute of Technology (MUMBAI)			
Prof B.G. Fernandes	<i>Principal</i>		
Jopasana Software and Systems Pvt. Ltd			
Nomination Awaited	<i>Principal</i>		
Karnataka Power Corporation Ltd.			
Shri G. Rathnamma	<i>Principal</i>		
Maharashtra State Electricity Distribution			
Nomination awaited	<i>Principal</i>		
National Aerospace Laboratories			
Dr. J. J. Isaac	<i>Principal</i>		
Shri Kanakamuthu	<i>Alternate</i>		
National Institute of Wind Energy			
Shri S.A. Mathew	<i>Principal</i>		
Shri A. Senthil Kumar	<i>Principal</i>		

ANNEX 1
COMPOSITION OF
ET 43 STANDARDIZ OF ENVIR ASPECTS OF
ELECTRICAL & ELECTRONICS PRODUCTS

Department of Electronics & Information		Dr. N.C. Trehan	<i>Principal</i>
Dr. Devashish Dutta	<i>Chairman</i>	Indian Society of Lighting Engineers	
Bureau of Indian Standards		Sh. S. Venkataramani	<i>Principal</i>
Smt Supriya Minz	<i>Member Secretary</i>	Sh. N. Nagarajan	<i>Alternate</i>
Bharat Electronics Ltd.		Department of Electronics & Information	
Shri H. S. Shashi Bhushana	<i>Principal</i>	Dr. Sandip Chatterjee	<i>Alternate</i>
Consumer Electronic and Home Appliances		Larsen & Toubro Ltd	
Shri Suresh Khanna	<i>Principal</i>	Shri C. S. Kore	<i>Principal</i>
Shri B. N. Praveen	<i>Alternate</i>	Shri Ganesh Ramchandra	<i>Alternate</i>
Centre for Materials for Electronics		Manufacturers Association for Information	
Dr. N. R. Munirathnam	<i>Principal</i>	Shri Anwar Shirpurwala	<i>Principal</i>
Dr. M. Ravi Prakasa Reddy	<i>Alternate</i>	Shri Amit Chadha	<i>Alternate</i>
Central Pollution Control Board		National Environmental Engg. Research	
Ms. Mita Sharma	<i>Principal</i>	Dr. Ghanshyam Laxman	<i>Principal</i>
Ms. P. K. Selvi	<i>Alternate</i>	Sh. Naresh N. Bokade	<i>Alternate</i>
Central Power Research Institute		E-Parisara Pvt Ltd.	
Shri M. Venkateshwara Rao	<i>Principal</i>	Shri Siba Bhusan Baral	<i>Alternate</i>
Dr P. Thomas	<i>Alternate</i>	Voluntary Organisation in Interest of	
Electronics & Computer Software Export		Shri H. Wadhwa	<i>Principal</i>
Shri D.K. Sareen	<i>Principal</i>	Shri K. C. Chaudhary	<i>Alternate</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 S. Suresh	<i>Second Alternate</i>		
Indian Cellular Association			
Shri Bijesh Kumar Roul	<i>Principal</i>		
IEEMA			
Shri Amitabha Sarkar,	<i>Principal</i>		
Shri Pande J.	<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			

ANNEX 1
COMPOSITION OF
ET 44 SAFETY OF MACHINERY

Bharat Heavy Electricals Ltd.		Nomination awaited	<i>Principal</i>
Shri T Bhaskaran	<i>Chairman</i>	National Institute of Technology,	
Bureau of Indian Standards		Shri K Sankaranarayananasamy	<i>Principal</i>
Ms. Meghna Mudgal	<i>Member Secretary</i>	NTPC Ltd	
ABB Ltd.		Nomination awaited	<i>Principal</i>
Shri Javed Ansari	<i>Principal</i>	Schneider Electric India Pvt. Ltd	
Shri S M R Prasad	<i>Alternate</i>	Shri Gajendra Babu	<i>Principal</i>
Bharat Bijlee Ltd.		Shri Anilesh Kaduthanum	<i>Alternate</i>
Nomination awaited	<i>Principal</i>		
Bharat Heavy Electricals Ltd.			
Shri E. Thirumavlavan	<i>Principal</i>		
Dr K. Muthukumar	<i>Alternate</i>		
Central Board of Irrigation & Power			
Nomination awaited	<i>Principal</i>		
Central Electricity Authority			
Nomination awaited	<i>Principal</i>		
Central Power Research Institute			
Shri N. Rajkumar	<i>Principal</i>		
Shri M. Janardhana	<i>Principal</i>		
Delhi Transco Ltd			
Nomination awaited	<i>Principal</i>		
Electrical Research & Development			
Shri G. V. Brahmhatt	<i>Principal</i>		
Shri Rakesh Patel	<i>Alternate</i>		
Shri Nailesh S. Kadia	<i>Alternate</i>		
IEEMA			
Shri Sarkar A.	<i>Principal</i>		
Smt Anita Gupta	<i>Alternate</i>		
Jyoti Ltd			
Nomination awaited	<i>Principal</i>		
Kirloskar Electric Company Ltd.			
Nomination awaited	<i>Principal</i>		
Larsen & Toubro Ltd			
Nomination awaited	<i>Principal</i>		
National Hydroelectric Power Corporation			

ANNEX 1
COMPOSITION OF ET 45 Power Quality

Consumer Association, Palakkad

Shri R.C. Mathew *Chairman*

Bureau of Indian Standards

Shri Sumit Sengar *Member Secretary*

ABB Ltd.

Shri Nomination Awaited *Principal*

AYT Engineering Pvt. Ltd.

Shri M Shahzad Alam *Principal*

Shri Saurabh Tripathi *Alternate*

Bureau of Energy Efficiency

Shri Nomination Awaited *Principal*

Central Electricity Authority

Shri Ravindra Kumar Verma *Principal*

Shri A. K. Rajput *Alternate*

Ms Vandana Singhal *Second Alternate*

Central Power Research Institute

P. Sada Siva Murthy *Principal*

Central Electricity Regulatory Commission

Nomination Awaited *Principal*

DEHN India Pvt. Ltd.

Shri Vikas Almadi *Principal*

Shri Brijesh Malik *Alternate*

Shri Devesh Jaiswal *Second Alternate*

Department of Electronics & Information

Nomination Awaited *Principal*

Delhi Transco Ltd

Shri Sunilesh Mohari *Principal*

Electrical Research & Development

Dr. Vinod Gupta *Principal*

Dr. S. H. Chetwani *Alternate*

International Copper Association Ltd

Manas Kumar Kundu *Principal*

K N Hemanth Kumar *Alternate*

Indian Institute of Technology (Delhi)

Nomination Awaited *Principal*

Indian Institute of Technology (Kanpur)

Nomination Awaited *Principal*

Ministry of Power

Shri Nomination Awaited *Principal*

Shri Nomination Awaited *Principal*

NTPC Ltd

Shri Nomination Awaited *Principal*

Power Grid Corporation of India Limited

Shri Rajesh Kumar *Principal*

Shri Manish Tiwari *Alternate*

Research Design & Standards Organisation

Shri Sujeet Mishra *Principal*

Shri Arun Kumar Sharma *Alternate*

Siemens Ltd.

Shri Nomination Awaited *Principal*

Tata Power

Shri Nomination Awaited *Principal*

**ANNEX 1
COMPOSITION OF**

ET 46 Grid Integration of Renewables

Ministry of New and Renewable Energy		Shri V. Balaji	<i>Principal</i>
Dr. P.C. Maithani,	<i>Chairman</i>	Schneider Electric India Pvt. Ltd	
Bureau of Indian Standards		Shri Surender Kumar	<i>Principal</i>
Smt. Supriya Minz	<i>Member Secretary</i>	Siemens Ltd.	
Amitasha Enterprises Pvt. Ltd.		Shri Vikram Gandotra	<i>Principal</i>
Shri Jasmohan Singh	<i>Principal</i>	The Tata Power Co Ltd,	
Areva T&D India Ltd (ALSTOM)		Shri Vijay V. Rane	<i>Principal</i>
Shri Rohit Poddar	<i>Principal</i>	Shri Nitin R Lothe	<i>Alternate</i>
Bharat Heavy Electricals Ltd.		The Climate Group	
Shri Rakesh Singh	<i>Principal</i>	Ms Parimita Mohanty	<i>Principal</i>
Shri Aruna Gulati	<i>Alternate</i>	The Energy and Resources Institute	
Central Electricity Authority		Shri K Ramanathan	<i>Principal</i>
Shri A.K. Rajput	<i>Principal</i>	Er. Alekhya Datta	<i>Alternate</i>
Shri D.K. Shrivastava	<i>Principal</i>	Tata Power Delhi Distribution Limited	
Central Power Research Institute		Shri Raj Kumar Rastogi	<i>Principal</i>
Shri James Ranjit Kumar	<i>Alternate</i>	Shri Lalit Wasan	<i>Alternate</i>
IEEMA			
Shri J.Pande	<i>Principal</i>		
Shri Vivek Arora	<i>Alternate</i>		
Indian Institute of Technology (Delhi)			
Pr. Sukumar Mishra	<i>Principal</i>		
Indian Institute of Technology			
Shri Suresh Sachdev	<i>Principal</i>		
India Smart Grid Forum			
Shri Reji Kumar Pillai	<i>Principal</i>		
Shri Akshay Ahuja	<i>Principal</i>		
Smt. C. Amritha	<i>Alternate</i>		
Narnix Technolabs Pvt. Ltd.			
Shri Narang N. Kishor	<i>Principal</i>		
National Hydroelectric Power Corporation			
Shri Rajesh Sharma	<i>Principal</i>		
Shri Himangshu Saha	<i>Alternate</i>		
NTPC Ltd			
Shri S.S. Mishra	<i>Principal</i>		
POSOCO			

RAILWAY ELECTRIC TRACTION EQUIPMENT, ETD 47

New Committee

Chairman: Shri Amitabh Nigam, RDSO

Proposed Composition

SL.No.	NAME OF THE ORGANIZATION
1.	ALSTOM
2.	CPRI
3.	CROMPTON GREAVES
4.	ERDA
5.	IIT KANPUR
6.	MEDHA SERVO DRIVES PVT. LTD
7.	mitsubishi electric
8.	SH A A SAHAY, RETD RAILWAY OFFICER
9.	RDSO. Sujit Mishra
10.	SHRI B S BODH, DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA (DFCCIL)
11.	SHRI SALABH GOYAL, DMRC
12.	SKIPPER SEIL

ANNEX 1
COMPOSITION OF
ET 48 UHV AC Transmission

Power Grid Corporation of India Limited		Shri Rajiv Gandhi	<i>Principal</i>
Shri B N De Bhowmick	<i>Chairman</i>	Shri S B R Rao	<i>Alternate</i>
Bureau of Indian Standards		Shri Ravindra Kumar Tyagi	<i>Second Alternate</i>
Ms Neha Mangal	<i>Member Secretary</i>	Raychem RPG Pvt Ltd.	
ABB Ltd.		Shri Sasi kumar	<i>Principal</i>
Shri Nihar Raj	<i>Principal</i>	Siemens Ltd.	
Shri Vishal Dubey	<i>Alternate</i>	Shri Srinivas Gopa	<i>Principal</i>
Aditya Birla Insulators Co.		Shri Rama.Palakurthy	<i>Alternate</i>
Shri Vikas Khosla	<i>Principal</i>	Transformers & Rectifier (I) Ltd.	
Areva T&D India Ltd (ALSTOM)		Shri Virendra Lakhiani	<i>Principal</i>
Shri Govind Shrivastava	<i>Principal</i>	Shri AniruddhaJhala	<i>Alternate</i>
Bharat Heavy Electricals Ltd.			
Shri Rakesh Singh	<i>Principal</i>		
Shri Dipak Kumar Mandal	<i>Alternate</i>		
Central Electricity Authority			
Shri S.K.R. Mohapatra	<i>Principal</i>		
Shri Y.K. Swarnkar	<i>Alternate</i>		
Crompton Greaves Ltd.			
Shri D Johnyesuraj	<i>Principal</i>		
Shri Manish yadav	<i>Alternate</i>		
Central Power Research Institute			
Dr. Pradeep M Nirgude	<i>Principal</i>		
Shri P Jithin Pauly	<i>Alternate</i>		
Kalki Communications Technologies Ltd			
Shri BIPIN B. SHAH	<i>Principal</i>		
KEC International Limited			
Shri E.V.Rao	<i>Principal</i>		
Kalpa Taru Power Transmission Ltd.			
Shri BIPIN B. SHAH	<i>Principal</i>		
Shri SUJAL B. SHAH	<i>Alternate</i>		
Larsen & Toubro Ltd			
Shri K Rajaram	<i>Principal</i>		
Oblum Electrical Industries Pvt Ltd			
Shri BALAGANGADHAR O	<i>Principal</i>		
Power Grid Corporation of India Limited			

ANNEX 1
COMPOSITION OF
ETD 49 ILLUMINATION ENGINEERING AND LUMINAIRES (New Committee)

SL.No.	NAME OF THE ORGANIZATION
1	Airports Authority of India Ltd
2	Bajaj Electricals Ltd
3	Binay Opto Electronics Pvt. Ltd
4	Bureau of Energy Efficiency
5	Central Electricity Authority
6	Central Power Research Institute
7	Central Public Works Department
8	Crompton Greaves Ltd
9	Development Commissioner (Micro, Small & Medium Enterprises)
10	Ministry of Defence
11	Directorate General of Supplies & Disposals
12	Dept. Of Electronics and IT, Govt. Of India
13	Delhi Metro rail Corporation
14	Electric Lamps and Component Manufacturers Association of India
15	Electrical Research & Development Association
16	Energy efficiency Services Ltd
17	Eon Ltd
18	Halonix
19	Shri P K Mukherjee, In Personal Capacity
20	Indian Society of Lighting Engineers
21	Ledvance Pvt Ltd
22	Jadavpur University
23	National Physical Laboratory
24	Nichi Corporation
25	NTPC Limited
26	Philips Electronics India Limited
27	RDSO
28	Surya Roshni Ltd
29	Tata Energy Research Institute (TERI)
30	Voluntary Organisation in Interest of Consumer Education
31	Consumer Association, Palakkad, Kerala

**ANNEX 1
COMPOSITION OF
ETD 50 - LVDC Power Distribution Systems**

SL NO.	ORGANIZATION
1.	IIT Chennai
2.	IIT Mumbai
3.	IIT, Karagpur
4.	CPRI, Banglore
5.	Schneider Electric
6.	Legrand India
7.	IEEMA
8.	L&T Mumbai
9.	M/s Crompton Greaves
10.	M/s TVS Lucas
11.	M/s Sun Edison Chennai
12.	M/s Claro Energy, Gopalganj, Patna
13.	M/s O-Energy
14.	M/s Amar Raja Batteries, Tirupati
15.	Solarsis
16.	MNRE New Delhi
17.	Narnix
18.	ISGF
19.	IIT Hyderabad
20.	CEA
21.	Radio Studio
22.	PGCIL
23.	General Manager (DDUGJY),Rural Electrification Corporation Limited
24.	Tata power
25.	CBIP
26.	ELCOMA
27.	Shri P K Mukherjee, In individual capacity
28.	Electrical otractors Association, Maharastra
29.	CESC

ANNEX 1
COMPOSITION OF
ETD 51 ELECTROTECHNOLOGY IN MOBILITY

- 1) Ministry of Heavy Industry
- 2) Mr, Sajid Mubashir, Director, Department of Science & Technology
- 3) India Smart Grid Foroum
- 4) Automobile Research authority of India
- 5) TATA Power Delhi Distribution Company Ltd
- 6) Reliance Energy (BSES)
- 7) CESC, Kolkata
- 8) Mahindra Reva
- 9) Nissan
- 10) Hero Group
- 11) Electric Motor manufacturer
- 12) Power electronics firm
- 13) CEA
- 14) PGCIL
- 15) NSGM
- 16) Battery manufacturer
- 17) VRDA
- 18) IIT delhi (Prof Sukumar Mishra)