## HAND BOOK 2012



# METROLOGY SOCIETY OF INDIA NEW DELHI

## HAND BOOK 2012



### METROLOGY SOCIETY OF INDIA

National Physical Laboratory Dr. K.S. Krishnan Marg New Delhi-110 012 http://www.metrologyindia.org

#### Published by

Metrology Society of India National Physical Laboratory

Dr. K.S. Krishnan Marg New Delhi-110 012

Tel.: 91-11-45609325, 25841739

Fax: 91-11-45609310

#### Editor in Chief

#### A.K. Bandyopadhyay

#### **Editors**

Anil Kumar Sukhvir Singh Saood Ahmad Goutam Mandal Harish Kumar

#### **CONTENTS**

Foreword	V
Preface	vii
Introduction	Xi
Executive Council	xiii
Past Presidents of the Society	xiv
Past Secretaries of the Society	xiv
List of Members	1
Rules and Regulations	143
Regional Branches	163
Publications	164
Committees	169

#### **FOREWORD**

Metrology is the science of measurement, embracing both experimental and theoretical determinations at any level of uncertainty in any field of science and technology. The role of Metrology is important in our modern life, ranging from daily needs of day to day to the frontier areas of science and technology. It is with pleasure that we present this 5th edition of the handbook of Metrology Society of India (MSI). It is meant to provide MSI members, users of metrology and the other concerned with a simple yet comprehensive source of information on constitution, rules, regulation and details of all the members of the society.

It is the continuous efforts of MSI to propagate Metrology through conferences, workshops, trainings and other activities. It also provides opportunities to its members to enhance their knowledge by exposing them to special lectures organized periodically. A research journal, MAPAN-Journal of Metrology Society of India is being published quarterly dedicated to the measurement science since 1985. MSI has also started a Newsletter which is a quarterly publication dedicated to the events of metrology from the year 2011.

The main purpose of this handbook is to increase awareness of metrology and to establish a common metrological understanding and frame of reference by propagating the aims and objectives of the Society. Since metrology evolves in line with scientific and technological advances it is necessary to update and enhance "MSI-Handbook" to take account of this evolution. I am very confident that this new edition of MSI Hand Book will prove to be useful and valuable document for its members.

A team comprising of Mr. Anil Kumar, Sukhvir Singh, Saood Ahmad, Gautam Mandal, Harish Kumar and Jagmohan Kapor have put all their efforts and hard work to bring out this edition of 2012. On behalf of the Executive Council, I would like to put on record our appreciation for their sincere efforts.

R. C. Budhani President

#### **PREFACE**

Metrology Society of India has published HAND BOOK in the years 1999, 2002, 2004 and 2007 consisting of a list of members alongwith their addresses and other details, rules & regulations and other important information related to the Society. The purpose was to have a document for active interaction amongst the members of the Society. The HAND BOOK was found very useful, hence the present Executive Council suggested to revise and publish "HAND BOOK-2012".

Efforts have been made to update all the relevant information in this Hand Book. While every care has been taken to incorporate the latest information, there may be some inadvertent errors in a few cases. It is requested that any error or omission may be brought to the notice of the General Secretary, MSI, so that they may be rectified in the subsequent edition.

The editors wish to express sincere gratitude to Prof. R. C. Budhani, President, MSI for his constant guidance and valuable suggestions at all stages of publishing this Hand Book. The editors are also thankful to Dr. V. N Ojha, General Secretary, MSI, members of the Executive Council and different committees for their enormous help and assistance provided by them in collection of various information. The support from all the members of the society is gratefully acknowledged.

The editors welcome suggestions from members for the improvement in the scope and contents of this Hand Book.

Anil Kumar Sukhvir Singh Saood Ahmad Goutam Mandal Harish Kumar

#### RECENT SUCCESSES OF MSI

In the 19<sup>th</sup> General Body Meeting held on 25<sup>th</sup> January, 2008, it was resolved that MSI would be pan Indian:

- International conferences may be held every three years at NPL, New Delhi but the annual national conference may be held by rotation and through the process of bidding as has been done in the other societies in the country.
- 2. MAPAN should be published by the International Publishers by SPRINGER Inc., New Delhi.
- 3. MSI should have branches in the different parts of the country.

It is a great satisfaction that within the span of three years, we have been able to implement all these promises. We had AdMet - 2011 and Admet 2012 were held at Bangalore and Pune respectively. International Conference AdMet-2013 is scheduled to be held at NPL, New Delhi.

From 1st January, 2012, publication of MAPAN- JMSI, including printing, will be the overall responsibility of M/s SPRINGER Inc, New Delhi. Meanwhile, we have started publication of MSI NEWSLETTER from 2011. Through this letter, we have created a common platform to establish two-way communications among the MSI members to address the challenging needs of Metrology. As the precision measurement or Metrology aims at reducing the variety in industrial products, interchangeability of component parts and sub-systems and ensuring the quality and reliability of the product, we have to revitalize and improve the Forum in spreading the awareness of the importance of Metrology to the grass root level in the entire country - Laboratories, Industries, Academic Institutions and Universities. We have started branches MSI (SR), MSI (ER) and now MSI (WR) and in future, we hope to do MSI (NR) also. Finally, it may be remembered that the subject of Metrology is not taught in schools or colleges but the importance of the field is understood widely. We have inducted many new student members in the recent years to encourage the formation of student chapter. A new SI chart was released and distributed free of cost among the students and other stake holders.

A.K. Bandyopadhyay

Vice President and Chairman, Publication Committee Editor In Chief, MAPAN

#### INTRODUCTION

Metrology is the science of precision measurements, plays a vital role in the technological, industrial and economical development of the country. The technological process starts with research and development followed by industrial production, market transaction and finally the products reaching the consumer inside or outside the country. In this chain, precision measurements are needed in R & D activities, for the inspection of materials/components/sub-systems and quality control during the product process and then during the testing and evaluation of the final product for performance and reliability.

Standardization which aims at reducing the variety in industrial products, interchangeability of component parts and sub-systems and finally, ensuring the quality and reliability is also based on precision measurements. Similarly, consumer protection in trade and commerce as well as in public health and safety measures also requires use of precision instruments. It is often said that status of industrial advancement of a country can be judged by the status of metrology in the country. Development of measurement science is also instrumental sometimes in generating new techniques of production, in facilitating innovations and their subsequent utilization. Thus adequate metrological facilities and infrastructure are a pre-requisite for technological & industrial development. The techniques of measurements are getting more and more sophistication with the advance of technology and today, the latest scientific concepts are being utilized in metrology.

Metrology Society of India was instituted in 1984 and registered under Registration of the Society Act XXI of 1860 keeping the above views. Its main objective is to provide a platform on which metrologists could meet and exchange their views and experiences. It also interacts with industries requiring application of metrology, science and sophisticated instrumentation was almost absent. All the persons engaged in and connected with metrology may become the members of the Society. This Society has broadly six types of membership depending upon their experiences in the field of metrology as follows:

- i. Honorary Fellow
- ii. Fellow
- iii. Member
- iv. Associate Member
- v. Student Member
- vi. Corporate Member

At present, the society has 4 Honorary Fellows, 207 Fellows, 893 Members, 181 Associate members 194 Student members and 126 Corporate members. The Society functions through four advisory committees namely (a) Programme Committee, (b) Membership Committee, (c) Publication & Information Committee and (d) Education Committee. The objectives of these committees are as follows:

- a. Programme Committee: This committee is responsible for making programmes on different type of academic activities of MSI such as organization of international and national conferences, seminars and workshops etc. Till now, 7 International and 27 conferences/workshops have been organized by MSI. A series of popular lectures on metrology have been held. Eminent scientists, technologists and industrialists have already delivered the lectures in this series.
- b. Membership Committee: This committee is responsible to enroll the new members for MSI. It examines the applications received for different types of membership and recommends to EC for approval. It also maintains the membership register.
- c. Publication & Information Committee: This committee is mainly responsible for quarterly publication of 'MAPAN- Journal of Metrology Society of India' exclusively dedicated to Measurement Science. The articles are being published after refereeing. Since 2006, the publication of MAPAN-JMSI is officially associated with National Physical Laboratory, New Delhi. Now the full contents of the journal is available on the website of the Society. The committee is also responsible for "Information" base publication of the Society e.g. publication of HAND BOOK, Information Brochure and Proceedings of different Workshops and Courses, conducted by the Society. In addition, it has the responsibility for maintenance and updating of the web site of the Society.
- d. Education Committee: This committee is responsible for preparing the syllabus to organize different training courses on various fields of metrology.

The MSI is also having the southern regional branch. It has its office in Bangalore and has been working well. At present, 60 members are registered with this branch.

#### EXECUTIVE COUNCIL (2010 - 2012)

President : Dr. R.C. Budhani

Vice Presidents : Dr. P. Banerjee

Dr. A.K. Bandyopadhyay

General Secretary : Dr. V.N. Ojha

Joint Secretary : Dr. Sanjay Yadav

**Treasurer** : Dr. Mahavir Singh

Elected Members : Sh. Anil Kumar

Dr. A.K. Agrawal

Dr. (Mrs.) Rina Sharma

Dr. Sukhvir Singh

Dr. P.C. Jain

Sh. Anil K. Suri Sh. Anil K. Govil

Sh. A.C. Gupta

Dr. Pradeep Mohan

Dr. Ranjan Sen

**Ex-officio Member** : Dr. Ranjan Sen

(Chairman, Eastern Regional Branch)

Dr. K. Chandrasekar

(Chairman, Southern Regional Branch)

Co-opted Members : Mr. G.J. Gyani, QCI, New Delhi

Mr. Anil Relia, NABI, New Delhi Mr. Ramesh R. Iyer, CII, Pune

Mr. R.S. Murthy, M/s SICC, Bangalore Mr. B.H. Prasad, DRDL, Hyderabad

Invitees : Mr. B.N. Dixit, Legal Metrology,

New Delhi

#### **PAST PRESIDENTS**

Dr. Kailash Chandra : 1984 - 1989

Mr. M. Mukutomani : 1989 - 1992

Dr. B. S. Mathur : 1992 - 1994

Prof. E.S.R. Gopal : 1994 - 1998

Dr. Krishan Lal : 1998 - 2003

Dr. Vikram Kumar : 2003 - 2009

Prof. R.C. Budhani : 2010 - 2012

#### **PAST SECRETARIES**

Dr. S.V. Gupta : 1984 - 1991

Dr. Sharwan Kumar : 1991 - 1992

Sh. V.P. Wasan : 1992 - 1994

Dr. R.P. Singhal : 1994 - 2005

Dr. R.K. Garg : 2005 - 2009

Dr. V.N. Ojha : 2009 - 2012

## **CORPORATE MEMBERS**

Cor. Member M/s. Aditya Auto Products & Engg. (1) Pvt. Ltd.

(CM 117 )#13E, Kiadb Ind. Area Dodda Ballapur, Bangalore-561203; [Tel.: 080-22367000,

E-mail:jayarajan@adityaauto.com].

Cor. Member M/s Advance Technical Systems (CM 065), 305,

Pankaj Tower, Plot No. 06, L.S.C., Mayur Vihar, Phase-I, Delhi-110 091; [Tel.: 011-22752919, Fax: 011-

22752942].

Cor. Member Aeronautical Development Establishment

(CM 083), DRDO, Ministry of Defence, CV Raman

Nagar, Bangalore-560 093 (Karnataka).

Cor. Member M/s AIMIL Ltd. (CM 026), A-8, Mohan Coop.

Industrial Estate, Mathura Road, New Delhi -110 044; [Tel.: 011-30810200, Fax: 011-26950011,

E-mail: info@aimil.com].

Cor. Member M/s Alka Lab. (CM 060), 311-316, Ashiana Trade

Centre, P.O. Adityapur, Jamshedpur - 13.

Cor. Member M/s Askib Engineers (P) Ltd. (CM 074), 47, Lanin

Sarani, P.O. Box No. 8927, Kolkata-700 013.

Cor. Member M/s Autometers Ltd. (CM 043), B-1, Sector-2, Noida

-201 301, (UP).

Cor. Member M/s Avery India Ltd. (CM 003), 50-59, Sector 25,

Ballabgarh-121 004, Haryana ; [Tel.: 0129-4094400, Fax: :129-4094591, 2234091, E-mail:

sales@queryindia.net].

Cor. Member M/s BAGSON (CM 004), 78, South Anarkali, Som

Bazar, Near Preet Vihar, Delhi-110 051; [Tel.: 011-22417878, 22549874, Fax: 011-22457878, E-mail:

sales@bagson.com].

Cor Member M/s Baker Mercer (I) Pvt. Ltd. (CM 016), 33/1/2, Nagar Road, Pune-410 014; [Tel.: 020-66093800, Fax: 020-66093888, E-mail: bakerbmi@bakergauges.com]. Cor. Member M/s Banbros Engg. Pvt. Ltd. (CM 076), 105, Usha Chambers, New Raidhani Enclave, Delhi-110 092. Cor. Member M/s Bharat Dynamics Ltd. (CM 084), (Ministry of Defence), Bhanur-508 305, Distt. Medak (A.P.). Cor. Member M/s Bharat Heavy Electricals Ltd. (CM 036), Piplani, Bhopal-462 022 (M.P.). Cor. Member M/s Bharat Heavy Electricals Ltd. (CM 059), Khailer, Jhansi-284 120; [Tel.: 0510-241211 (11 lines), E-mail: postmaster@bhelihs.co.in]. Cor. Member M/s Bhilai Steel Plant (CM 066), Bhilai. Cor. Member M/s Central Institute of Plastics (CM 079), Min. of Chem. & Fertiliser, Govt. of India, B-27, Amausi Indl. Area, Lucknow-226 008. Cor Member M/s Crompton Greeves Ltd. (CM 073), New 29-31-32, Industrial Area Mandeep, Bhopal-462 046; [Tel.: 07480-408281/2, 408323, Fax: 07480-408208].

Cor. Member M/s. Central Manufacturing Technology Institute, (CM 125), Tumkur Road, Bangalore 560022; [Tel.: 080-233755081, E-mail: directratre@cmti.india.net].

Cor. Member M/s Craftsman Automation Pvt Ltd (CM 087), 15, LML Colony, Amman Kulam Road, Coimbatore-641037.

Cor. Member: M/s. Dimensions (CM 109), 128, 19th Cross, CHBS Layout Vijaynagar, Bangalore; [Tel.: 080- 23143921, 23143914, E-mail: marketing.dimensions@gmail.com].

Cor. Member M/s. Eastern Calibrators (CM 098), 1, Anil Roy Road, Kolkata-700 029; [Tel.: 033-24647740].

Cor. Member M/s. Electro Meter Corporation (CM 096), P5 CIT Road, Scheme-LV, Kolkata-700014 (W.B.).

Cor. Member M/s Electronics Corporation of India Ltd. (CM 015), Standards & Quality Assurance Group, Industrial Development Area, Cherlapalei, Hyderabad-500 762.

Cor. Member Electronics Regional Test Laboratory (North) (CM 088) S Block, Okhla Industrial Area, Phase II, New Delhi-110 020; [Tel.: 011-26386206/6498/6118, Fax: 011-26384583, E-mail: erllorth@stqc.nic.in].

Cor. Member Electronics Regional Test Laboratory (CM 068), Kettron House, Vellayambalam, Thiruvananthapuram - 33.

Cor. Member Electronics & Quality Development Centre (CM 086), B-177/178, GIDC Electronics State, Sector -25, Gandhi Nagar-382 024 (Gujrat); [Tel.: 079-23287120/22/23/24, Fax: 079-23287121, E-mail: customer@eqdc.in, gm@eqdc.in].

Cor. Member M/s. Electronics Test and Development Centre (CM 124), 100 Feet Ring Road, Peenya Industrial Estate, Peenya, Bangalore-560058; [Tel.: 080- 2894252/2839992, E-mail: kchandra03@gmail.com, gnanabhushan@gmail.com].

Cor. Member M/s Ensons Gages & Tools (P) Ltd. (CM 061), 409, Creative Industrial Estate, N.M. Joshi Marg, Mumbai -400 011; [Tel.: 022-23079676, Fax: 022-23082851 E-mail: info@ensonsgages.com].

Cor. Member M/s. ERTL (East) (CM 103), Block - DN, Sector - V, Salt Lake City, Kolkata-400 023; [Tel.: 033-23672366/23679472, E-mail: saibal@stqc.nic.in].

Cor. Member M/s. Essjay Technomeasure Pvt. Ltd. (CM 105), Hit

Road, Ichapur, Howrah-711 104; [Tel: 033-26774145, 033-26670835, E-mail:tecnomeasure@rediffmail.com].

Cor. Member M/s. Essjay Technomeasure Pvt. Ltd. (CM122), HIT

Road, Ichapur, Howrah-711104; [Tel.: 2677414, 26670835, E-mail: technomeasure@radiffmail.com].

Cor. Member Fluid Control Research Institute (CM 046),

Kanjikode (West), Palakkad-678 623; [Tel.: 0491-2566120/206, Fax: 0491-2566326, E-mail:

feri@ferrindia.com].

Cor. Member M/s. Fluke South East Asia (CM 116), 16/1, Ground

Floor, S.P. Complex, Lal Bagh Road, Bangalore-27; [Tel.: 08040322007, 9686834343, E-mail:

*jaison.isaac@fluke.com]*.

Cor. Member M/s Gatrad Engg. Corporation (CM 085), 248, GIDC

Industrial Estate, Telephone Exchange Road, Odhav, Ahmedabad-382 415 (Gujrat); [Tel.: 079-22870002, 65433218, Fax: 079-22973414, E-mail:

gatrad@gatrad.com].

Cor. Member M/s. Glastronix (CM 115), Plot # 21E2, 2nd

 $Phase, Peenya\,Industrial\,Area, Bangalore-560058$ 

[Tel: 08028395924, E-mail: info@glastronix.com].

Cor. Member: M/s. Hematic Motors Pvt. Ltd (CM 120), # B-67,

E 68, MIDC, Karadundil Area , Tasawade-415109, Karad, Satara; [Tel.: 02164-258424/28, Mb.:

09890248201, E-mail: raqmdurgkar@gmail.com].

Cor. Member M/s Hema Engineering Industries Ltd. (CM 089)

1/3 K.M., Khandsa Road, Gurgaon-122 001 (Haryana); [Tel.: 0124-2370740/41/42/43/44, Fax: 0124-

2370747, E-mail: info@hamaengineering.com].

Cor. Member M/s. India Govt Mint (CM 102), Shahid Bhagatsingh Road, Fort, Mumbai-400 023; [Tel.: 022-22703184/

85,E-mail: mumbaimint@gmail.com].

Cor. Member M/s. Industrial Enggineering Instruments (CM 108),

203, 12th Main, 3rd Phase, Peenya Industrial Area, Bangalore-560 058; [Tel.: 080-28394520, E-mail:

info@ieicos.com].

Cor. Member M/s. Inspection Survey & Surveillance (India) Pvt. Ltd.

(CM 104), 21, Park Lane, 1st Floor, Kolkata-700 016;

[Tel.: 033-22294440, 22293651].

Cor. Member M/s. Jaganaths Slip Gauges & Co. (CM 099), 28,

Gurpada Halder Road, Kalighat, Kolkata-700 026;

[Tel.: 033-24668373].

Cor. Member M/s Japsin Test House (CM 070), 3610-12, Japsin

Mansion, Parmanand Street, Daryagani, New Delhi-

110 002.

Cor. Member M/s Lawkin Ltd. (CM 052), SV Road, Chitalsar,

Manpada, Thane-400 607; [Tel.: 022-25883333, Fax:

022-25893030].

Cor. Member M/s LEIMCO (CM 011), 119, Madhai Industrial Estate,

Khopat, Thane (Maharashtra).

Cor. Member M/s Maruti Udyog Ltd. (CM 071), Palam-Gurgaon

Road, Gurgaon-122 015; [Tel.: 0124-2346721].

Cor. Member M/s MCCOY Research & Calibration Lab. (CM

**080)**, 886, East Park Road, Karol Bagh, New Delhi-110 005; *[Tel.: 011-23555886, 30967483, Fax: 011-*

*23555886*].

Cor. Member M/s. Measure Techno Lab. (CM 123), 2 BT Road

(Jayanti Cenama Complex), Barrackpore, Kolkata -

700120; [E-mail: measuretechno@yahoo.co.in].

Cor. Member M/s Micro Flat Datums Mfrs (CM 053), 25-26,

GIDC, Vitthal Udyog Nagar, Vallabh-Vidyanagar - 388 121, Dist. Anand (Gujarat); [Tel.: 02692-235730,

235205 Fax: 02692-236577, 235332].

Cor. Member Mitutoyo South Asia Pvt. Ltd. (CM 126), C-122,

Okhla Industrial Area, Phase -I, New Delhi-110 020; [Tel.: 011-26372090, E-mail: delhi@mitutoyoindia.com;

microflat@gmail.com].

Cor. Member M/s Multitek (CM 077), B-21, CEL Aparments, B-

14, Vasundhara Enclave, Delhi-110 096.

Cor. Member: M/s Nagman Instruments and Electronics (P) Ltd.

(CM 093), Nagman Complex, Block 'A', Chennai, Bangalore, Nazerathpet (VIA), Chembarambakkam, Chennai-602 123; [Tel.: 044-2681 1700/01/02, Fax:

044-26811703, E-mail: support@nagman.com].

Cor. Member: National Test House (Eastern Region) (CM 054),

11/1 Judges Court Road, Alipore, Kolkata-700 027. CM 101; [Tel.: 033-24793510, Fax: 033-24498026,

*E-mail: nthkol-wb@nic.in].* 

Cor. Member: M/s Neon Test and Calibration Lab (CM 092),

8/1A/1 Keyatala Road, Kolkata-700 020.

Cor. Member M/s. Nutech Calibrators and Engineers (CM 101),

28/6 & 7, Tollygunge Circular Road, Kolkata-700 053;

[Tel.: 033-65137382, E-mail: nutech\_call2006@rediffmail.com].

Cor. Member Opto-Electronics Factory (CM 027), Ministry of

Defence, Raipur, Dehra Dun-248 008, (Uttarakhand); [Tel.: 0135-2787101, Fax: 0135-2787181, E-mail:

off.ofb@nic.in].

Cor. Member Perfect Calibration Centre Pvt. Ltd (CM 114), #

40 71st Cross, 5th block, Rajaji nagar, Bangalore; [Tel.: 080-23155577,23155588,E-mail:perfectbir@yahoo.in,

Srikanthperfect@gmail.com].

Cor. Member M/s Prisms India Private Ltd. (CM 094), C-92, Pipdic Industrial Estate Mettupalayam, Pondicherry-605 009; [Tel.: 0413-2277059, Fax: 0413-2250328, E-mail: prisms@vsnl.com]. Cor. Member Research, Design & Standards Organization (CM 025), Manak Nagar, Lucknow-226 011. Cor. Member M/s Sartorius India (P) Ltd. (CM 081), No. 10, 3rd Phase Peenya, 6th Main, Bangalore-560 058. Cor. Member M/s. Sartorious Mechatronics India Private Ltd. (CM 112), # 69/2 & 69/3, NH-48, Jakkashandra, Nelamangala, Bangalore-562123; [Tel.: 080-43505250, E-mail:mechatronics.india@sartorius.com1. Cor Member M/s Saw Pipes Ltd., (CM 075), A-1, UPSIDC Indl. Area, Nandgaon Road, Kosi-kalam, Mathura-281 403. Cor. Member M/s S.B. Quality Solutions (CM 090), 35/A, Ganesh Krupa, Swanand Society, Lane no. 3, Sahakar Nagar No. 2. Pune-411 009; [Tel.: 020-24227408, E-mail: ssdhumal@sbaindia.com1. Cor. Member M/s Secure Meters Pvt. Ltd. (CM 028), P.O. Box. No. 20, Udaisagar Road, Udaipur-313 001. M/s Senapathy Whiteley Pvt. Ltd. (CM 057), P.O. Cor. Member Box. No. 10, Achalu, Ramanagaram - 571511, (Karnataka).

Cor. Member Senior Quality Assurance Estt. (Armament) (CM 029), Cossipore, Kolkata-700 002.

Cor. Member Senior Quality Assurance Establishment (Electronics) (CM 058), Ministry of Defence, Kolkata -700 022.

Cor. Member M/s Shanker Wires Products Industries (CM 007)

B. Deoghar-814 112 (Jharkhand); [Tel.: 06432-222427, Fax: 06432-222682, E-mail:

info@weihgts.swpi.com].

Cor. Member M/s Shiva Metrology Instruments (P) Ltd. (CM 072),

Plot No. 65/E5, Hootagallery Indl. Area, Mysore-571

186; [Tel.: 0821-2403443].

Cor. Member M/s Size Control Gauges & Tools (P) Ltd. (CM 067),

218, Poornima Towers, 397, Shankar Seth Road, Pune - 411 037; [Tel.: 020-24445345, 56220146, Fax: 020-

24443486, E-mail: sizecontrol@vsnl.com].

Cor. Member Small Industries Testing & Research Centre

(CM 055), 83 & 84, Avarampalyam Road K.R.Puram, P.O. Coimbatore-641 006; [Fax: 0422-2562612,

2560473, E-mail: sitarcinfo@sitare.com].

Cor. Member M/s Sofisticated Test & Instrumentation Centre

(CM 069), Cochin University, of Science and technology, Kochi-682 022 (Kerala); [Tel.: 0484-2575908, 2576697,

Fax: 0484-2576699, E-mail: site@vsnl.com].

Cor. Member M/s Sona Steering Systems (CM 049), 38/6, Delhi-

Jaipur Road, Gurgaon-122 001, (Haryana).

Cor. Member M/s Sudipta Dasgupta (CM 121), 21, Park Lane, Ist

Floor, Kolkata-700 016; [Tel.: 033-22293651/4440,

E-mail: insurvey@cal2.vsnl.net.in].

Cor. Member M/s Sushma Industries Calibration Centre (CM

**107)**, # 18E, Block A, List 'C' Main Road, 2<sup>nd</sup> Phase, Peenya Industrial Area, Bangalore - 560 058; [Tel.: 080- 28395273, 28397463, E-mail:

calibration@sushmaindustries.com].

Cor. Member

M/s S.V. Precision Instruments (CM 078), Shed No. 11A & 11B, Kukatpally, Hyderabad-500 072, Andhra Pradesh; [Tel.: 040-23079359/5387, 0522-2437646, 2436910, Fax: 040-23079485, E-mail: info@svprecisions.com; cipettko@gmail.com].

Cor. Member

M/s Syscon Calibration Centre (P) Ltd. (CM 118) No. 66, Electronics City, Hosur Road, Bangalore-560 100; [Tel.: 080-28522695, E-mail: sysconcalibration@vsnl.net].

Cor. Member

M/s Tajima ASA Bhanu Tools Ltd. (CM 064), 302, Saaz Apts. Road No. 1, Banjara Hills, Hyderabad-500 034.

Cor. Member

M/s. Techno India (CM 100), Balitikuri Chakpara Howrah-711 113.

Cor. Member

M/s. TECUMSEH Products India Pvt. Ltd. (CM 119), Balanagar Township, Hyderabad-500 037; [Tel.: 040-23074965, E-mail: koteswararao.vaddadi@tecumseh.com].

Cor. Member

M/s. The Pyree Solutions (CM 111), #164, 10<sup>th</sup> Main, Peenya Industrial Area, Phase 3, Bangalore -560 058; [Tel.: 9845309821/41177505, E-mail: pkpyree@yahoo.com].

Cor. Member

M/s Titan Industries Ltd. (CM 062), Watch Division, 3 Sipcot Industrial Complex, Hosur-635 126 (Tamilnadu); [Tel.: 04344-664199, Fax: 04344-276037, E-mail: corpcomm@titan.co.in].

Cor. Member

**M/s. Transcal (CM 110)**, # 158, 9th Corss, Samplge Road, Malleswaram, Bangalore-580003; [*Tel.: 080-23344723, 41281022, MB. 9243104789, E-mail: info@transcal.co.in*].

Cor. Member M/s Trimos Metrology (I) Pvt. Ltd. (CM 082), 52,

Arun Talkies Building, Dapodi, Pune-411 012.

Cor. Member M/s. TTL Mech. Pvt. Ltd. (CM 106), 9D Gopala

tower, 25 Rajendra Place, Delhi; [Tel.: 011-45062022,

E-mail: snath@ttlinida.com].

Cor. Member M/s. TVS Motor Company Ltd. (CM 113), # 102,

Sweet dreams apartments, 1st A Cross, 33rd main,

GTM Layout, Ist Stage, Bangalore.

Cor. Member M/s Unique Instruments & Mfrs. (P) Ltd. (CM 063),

423, Peenya Industrial Area, IV Phase, 3<sup>rd</sup> Main, 11<sup>th</sup> Cross Road, Bangalore-560 058; [Tel.: 080-2836 2766/1766, Fax: 080-2836 0927, E-mail: info@unique-

instruments.com].

Cor. Member M/s Weightronics (CM 091), 172-173, Modern Indl.

Estate, Part-A Bahadurgarh-124507, Distt. Jhajjar (Haryana); [Tel.: 01276-323868/268 165, E-mail:

info@weightronics.net].

Cor. Member M/s. Yadav Measurements Pvt. Ltd. (CM 095),

1168-89, Adarsh Nagar, Sector 4, Hiran Magri,

Udaipur-313002 (Rajasthan)

Cor. Member : M/s. Young Engg. Calibration Ser vices Pvt. Ltd.

(CM 097), 'Utsav Bhavan', Kamardanga Road, Ichapur, Howrah-711 104; [Tel.: 033-32585881, 26771412,

E-mail: info@yeagroup.org].

## **FELLOWS/MEMBERS**

Hon. Fellow

**HOSSAIN M. Kamal (HF 013)**; Ph.D., National Physical Laboratory, Hempton Road, Taddington, Middlesex, U.K.

Hon. Fellow

VENUGOPALAN, P. (HF 014); b. Mar 29, 1948; M. Tech.; Ex-Director, DRDL; Sp.: Mech. Engg.; Office: Defence Research and Development Laboratory (DRDO), Kanchan Bagh, Hyderabad-500 058; [Tel.: 040-24340511; 24340546; Fax: 040-24340109; E-mail: director@drdl.ernet.in] Home: Director's Residence, Defence Research and Development Laboratory (DRDO), Kanchan Bagh, Hyderabad-500 058; [Tel.: 040-24340511; 24340546; Fax: 040-24340109].

**Fellow** 

AGRAWAL, Arun Kumar (F 124); b. November 15, 1947; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Home: A-605, Satyam Apartment Plot # 5, Sector 18-A, Dwarka, New Delhi-110018 [Ph: 09811707279 Res.: 011- 49700950, E-mail: contact 2aka@yahoo.co.in]

Fellow

AGGARWAL, Pradeep Kumar (F 145); b. August 26, 1959; B.E. (Mech.), MBA; Asst. General Manager, Vehicle Inspection; Member: SAE International, USA; Office: Maruti Udyog Limited, Palam Gurgaon Road, Gurgaon-122 015 (Haryana); [Tel.: 0124- 2346721/ 3402; Fax: 0124-2341304; E-mail:PK.Aggarwal@maruti.co.in]; Home: HP-35, Maurya Enclave, Pitampura, Delhi; [Tel.: 011-27321253, M.: 09891810526].

Fellow

**AGARWAL, Ravinder (F 194)**; b. October 20, 1964; Ph.D.; Professor; Sp.: Biomedical Instrumentation; Office: Head, USIC, Electrical and Electronics Engineering Department, Thapar Institute of Engineering and

Technology, P.O. Box-32, Patiala-147 001; [Tel.: 0175-393058; Fax: 0175-393005; E-mail: ravinder@tiet.ac.in]; Home: Warden, Hostel-C, TIET, P.O. Box-32, Patiala-147 001; [Tel.: 0175-393169].

Fellow

AGGARWAL, Suresh Kumar (F 181); b. Jan 06, 1953; Ph.D. (Chemistry); Scientist; Sp.: New Analytical Chemistry, Fuel Chemistry Division, Bhabha Atomic Research Centre, Trombay, Mumbai-400 085; [Tel.: 022-25593740; Fax: 022-25505151; E-mail: skaggr@barc.gov.in]; Home: 1006, Sunflower, Neelkanth Garden, Govandi (E), Mumbai-400 088; [Tel.: 022-25565694; E-mail: skaggr2002@rediffmail.com].

Fellow

AGRAWAL, Vijai Kumar (F 078); b. February 1, 1939; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Microwaves & Optical Communication; Home: 27, Aravali Apartments, Alaknanda, New Delhi-110 019; [Tel.: 011-26452879].

**Fellow** 

AHMED, Syed Farooq (F 140); b. January 9, 1955; D.Sc., P.G.D.B.M; Director, International Hospital & Res. Instt.; Sp.: Phytochemistry; Fellow: Royal Society of Health (London); Office: The Himalya Drug Company, 20, Najafgarh Road, New Delhi-110015; [Tel.: 011-25933035; Fax: 011-25454332; E-mail: sfarooq@satyam.net.in]; Home: 321-D, Okhla Village, New Delhi-110 025; [Tel.: 011-55673459].

**Fellow** 

BANDYOPADHYAY, Ashis Kumar (F 192); b. April 18, 1954; Ph.D; Scientist; Sp.: Pressure Metrology and Studies of Materials under High Pressure, Office: Vacuum and Pressure Standard, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608476/8593/9481; E-mail: akband@nplindia.ernet.in]; Home: 45, NPL Apartment, Vikaspuri, New Delhi-110 018; [Tel.: 011-28547923; M: 9868841947].

BANERJEE, Parameswar (F 086); b. May 10, 1949; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; [E-mail: pbanerjee@nplindia.ernet.in, paramban@yahoo.com]; Home: 12/14, MS Building, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel.: 011-28744318].

Fellow

BATRA, Virendra Kumar (F 025); b. September 14, 1936; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Home: M-372, (GF), Guru Harkishan Nagar, Paschim Vihar, New Delhi-110 087; [Tel.: 011-25267721].

Fellow

BHARGAVA, Deepak (F 136); b. November 14, 1946; B.E. (E & C); M-78 Govindpur Colony, MIG Flats, Allahabad-211 004; [Tel.: 0532-541963; E-mail: deepak\_bhargava@ chequemail. com].

Fellow

BHATNAGAR, Kameshwer Nath (F 024); b. February 20, 1934; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home; H-322, Naraina Vihar, New Delhi-110028; [Tel.: 011-25792881].

Fellow

BHOLA, Om Parkash (F 030); b. January 22, 1937; B.Sc., Ex-Tech. Officer, National Physical Laboratory, New Delhi-110 012; *Home: F-28, Faridkot House Lane, Copernicus Marg, New Delhi-110 001; [Tel.: 011-23388273].* 

**Fellow** 

BINDAL, Vishwa Nath (F 051); b. December 25, 1930; Ph.D; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home: F-139, Mansarovar Garden, New Delhi-110 015; [Tel.: 011-25192397; Fax: 011-25915912; E-mail: vnbindal@yahoo.co.in].

BISWAS, GAUTAM (F 205); Office: Central Mechanical Engineering Research Institute, M.G. Avenue, Durgapur-703 209.

Fellow

**BUDHANI**, R.C. (F 197); Ph.D., Sp.: Physics Condensed Matter Physics, Director, National Physical Laboratory, New Delhi-110 012; [Tel.: 91-11-45609201, 45609301; Fax: 91-11-45609310; E-mail: dnpl@mail.nplindia.ernet.in]

Fellow

CHANDRA, Kailash (F 001); b. November 10, 1934; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home: E-46, Green Wood City, Near South City I, Gurgaon-122 001; [Tel.: 0124-2582165].

**Fellow** 

CHANDRA, Mukesh (F 180); b. September 19, 1948; Ph.D.; Sp.: Applied Ultrasonics, Underwater Acoustics; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home: 21 Bhargava Lane, Boulevard Road, Delhi-110 054; [Tel.: 011-23959279, 23972321].

Fellow

CHANDRASEKHARAN, S. (F 027); b. August 5, 1937; B. Tech. (Mech.); Quality System Consultant; Sp.: Standardisation and Quality Management Systems; Office & Home: 308 Govindam Apartments, Marathahalli ITPL Main Road, Munnekolala, Marathahalii, Bangalore-560 037; [Tel.:080-28543083; E-mail: bis.s.chandra@gmail.com].

Fellow

CHAUDHURI, Bimal (F 201); b. July 01, 1944, M.E. (Mettalurgy), Vice Principal, Institute of Instrumentation & Metrology, Office: Institute of Instrumentation & Metrology, P-5, C.I.T. Road Scheme, LV, Kolkata-700 014; [E-mail: support@iimkol.org]

CHAUDHARY, Krishan Pal (F 178); b. January 15, 1956; Ph.D.; Scientist; Sp.: Dimensional Standard, Office: Length & Dimensional Standard, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608673/9507; E-mail: kpc@nplindia.ernet.in]; Home: 3870, Rangpuri, Near Mahipalpur, New Delhi-110 037; [Tel.: 011-26782924; M. 9871213638].

**Fellow** 

CHAUDHURI Mihir Kumar (F 167); b. October 2,1942; AMIE; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Sp.: Force Measurment; Home; 37, NPL Apartments, Block-H3, Vikaspuri, New Delhi-110 018; [Tel.: 011-25544804; E-mail: mkchaudhuri@yahoo.com].

Fellow

CHHABRA, Kailash Chander (F 045); b. October 2, 1942; B.E (Elec.&Tel.); Ex-Senior Director ERTL(N) & CEO, STQC; Home: 23, NPL Apartments, Vikaspuri, New Delhi-110 018; [Tel.: 011-28545836, 47052023; M.:9818087753; E-mail: kc\_chhabra@hotmail.com, kcchahhabra@yahoo.com].

Fellow

CHITNIS, Vijay Trimbak (F 075); b. August 16, 1948; Ph.D. (Engineering); Ex-Scientist; Sp.: Optoelectronics, National Physical Laboratory, New Delhi- 110 012; Home: A-403, Krishan Kunj, Plot No. 19, Pocket-6, Nasirpur Road, Dwarka, New Delhi-110 045; [Tel.: 011-25053144].

Fellow

**DAHAKE, Sopan Laxman (F 021)**; b. February 4, 1934; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; *Home: "MANISHA", Nagai Corner, Pathardi Road, Indira Nagar, Nashik-422 009; [Tel.: 0253-398418].* 

DAHIYA, Hukam Singh (F 071); b. October 6, 1942; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; *Home: C/o Ms. Renu Rathi, 5/125, 2nd Floor, (Front), Tihar I, Subhash Nagar, New Delhi-110 027.* 

Fellow

**DANDAWATE, Vasant Dattatraya (F 022)**; b. March 10, 1937; Ph.D; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; *Home: 74, NPL Apartments, H-3 Block, Vikaspuri, New Delhi-110 018; [Tel.: 011-25558370].* 

Fellow

DAS, Mati Lal (F 171); b. May 14, 1946; M.S; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Home: 168-B, Pocket-C, Mayur Vihar, Ph-II, New Delhi-110 091; [Tel.: 011-22474814].

Fellow

DASGUPTA, Mrinal Kanti (F 039); b. November 10, 1936; B.Sc. Engg. (Mech.); Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home: B4/116 Paschim Vihar, New Delhi-110 063; [Tel.: 011-25686535].

Fellow

**DIXIT, B.N. (F 199)**; Director, (Legal Metrology), Ministry of Consumer Affairs, Food and Public Distribution, Department of Consumer Affairs, Krishi Bhawan, New Delhi-110 002; [Tel.: 23389489, 23386194; E-mail: dliwm-ca@nic.in].

Fellow

GARG, Rakesh Kumar (F 133); b. December 8, 1952; Ph.D.; Scientist & Quality Manager; Sp.: Calibration & Measurement in Optical Radiation region; Office: Quality Management System, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609378; E-mail: rkgarg@nplindia.ernet.in]; Home: E-20, Balaji

Society, Plot No. 7, Sector 3, Dwarka, New Delhi-110 075; [Tel.: 011-25097064; 09810705309].

Fellow

GOPAL, Erode Subramanian Raja (F 101); b. May 12, 1936; Ph.D.; Ex-Director, National Physical Laboratory, New Delhi- 110 012; Office: Emeritus Professor, Department of Physics, Indian Institute of Sciences, Bangalore-560 012; [Tel.: 080-22932529; Fax: 080-23602602, 080-23600683; E-mail: gopal@physics.iisc.ernet.in]; Home: 100/1, XI Cross, 7<sup>th</sup> Main Corner, Malleswaram, Bangalore-560 003; [Tel.: 080-23347449].

**Fellow** 

GOVIL, Anil Kumar (F 104); b. September 11, 1952; M.Sc.; Scientist; Sp.: Electrical & Electronics Measurement; Office: HF & MW Standards, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609312/9344/9316; E-mail: akgovil@nplindia.ernet.in]; Home: 241, Aravali Apartments, Alaknanda, New Delhi-110 019; [Tel.: 011-26033446, M. 9811769107].

**Fellow** 

**GUMBER, Vijay Kumar (F 160)**; b. October 31, 1957; Ph.D.; Scientist; Sp.: Super-conducting Thin Films and Microwave Devices; Office: ISTAG, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608562; E-mail: vkumar@nplindia.ernet.in]; Home: G-11, CSIR Scientist Apartments, Maharani Bagh, New Delhi-110 065; [Tel.: 9811590414].

Fellow

**GUPTA, Akhilesh Chandra (F 070)**; b. August 7, 1945; M.Sc.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; *Home: 18-B, Pocket 'C', MIG Flats, Ashok Vihar, Phase-III, Delhi-110 052; [Tel.: 011-27455479, M. 9811927922].* 

Fellow

**GUPTA, Anil Kumar (F 152)**; b. April 2, 1951; Ph.D. (Engg.); Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; *Home: ER-11, Inder Puri, New Delhi-110 012; [Tel.: 011- 25834949].* 

Fellow

GUPTA, Ashok Kumar (F 103); b. January 1, 1944; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Office: National Physical Laboratory, New Delhi-110012; [E-mail: akgupta@nplindia.ernet.in]; Home: Flat No. 3, Millennium Apartment, E-10A, Sector 61, Noida-201301; [Tel.: 0120-2581048, 9818321414; E-mail: k\_gupta@yahoo.co.in].

Fellow

GUPTA, Devinder (F 132); b. May 7, 1952; Ph.D.; Scientist; Sp.: Infrared and Raman Spectroscopy; Office: EPR & IR Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608335; E-mail: dgupta@nplindia.org]; Home: F-24/80, Sector-3, Rohini, Delhi-110 085; [Tel.: 011-27519540].

Fellow

**GUPTA, Mahesh Chander (F 060)**; b. January 1, 1941; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; *Home: F-17, Sarita Vihar, New Delhi-110 044; [Tel.: 011-26946164].* 

**Fellow** 

GUPTA, Prabhat Kumar (F 185); b. January 15, 1957; M.Sc.; Scientist; Sp.: Metrology in Chemistry, Office: Analytical Chemistry Section, National Physical Laboratory, New Delhi-110 012; [Tel.:011-45608232; E-mail: prabhat@nplindia.ernet.in]; Home: 170, Pragati Apartments, Punjabi Bagh Club Road, Paschim Vihar, New Delhi-110 063; [Tel.: 011-25214591].

Fellow

**GUPTA**, **Satya Vir (F 006)**; b. January 8, 1933; Ph.D.; Ex-Sceintist, National Physical Laboratory,

New Delhi- 110 012, *Home: 269/B-5, Sector-8, Rohini, Delhi-110 085* [*Tel.: 011-27279372; E-mail: svg@nda.vsnl.net.inl.* 

Fellow

**GUPTA, Suresh Kumar (F 154)**; b. July 22, 1947; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; *Home: 108/C-11, Sector-3, Rohini, Delhi-110 085; [Tel.: 011-27513979, 09811937408].* 

Fellow

**GUPTA, Vijay Kumar (F 168)**; b. August 17, 1941; B.E. [Elec., Electronics and Telecomunication]; Home: B-3/112, Paschim Vihar, New Delhi-110 063; [Tel.: 011-25269990; Fax: 011-25288888; E-mail: vijay-gupta-m@yahoo.com].

Fellow

GYANI, Girdhar J. (F 177); b. September 1, 1949; M.E; Director Gen., QCI; Sp.: Electrical Engg.; Office: Quality Council of India, 2nd floor, Institute of Engineers Building, Bahadur Shah Zafar Marg, New Delhi-110 002; [Tel.: 011-23379321; Fax: 011-23379621; E-mail: sg@qcin.org]; Home: 112, Munirka Enclave, New Delhi-110 067; [Tel.:9810730040; E-mail: gyani@hotmail.com].

Fellow

HANJURA, Ashok Kumar (F 172); b. March 24, 1950; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Home: Flat No. 110, Plot No. 11&12 Shalimar Garden Ext.I, Sahibabad-201 005, Ghaziabad (U.P.); [Tel.: 0120-2611471].

**Fellow** 

HUSAIN, Mushahid (F 126); b. January 18, 1952; Ph.D.; Professor; Sp.: Amorphous Semiconductors, Conducting Polymer, Nanomaterials/Carbon Nanotubes; Office: Department of Physics, Jamia Millia Islamia, New Delhi-110 025; [Tel.: 011-26988332,

26831717/339; Fax: 011-26830337; E-mail: mush.ph@jmi.ernet.in, mush\_phys.@redeffmail.com]; Home: 43-Mujeeb Bagh, Jamia Nagar, New Delhi-110 025; [Tel.: 011-26927419].

Fellow

JAIN, Kamlesh Kumar (F 112); b. February 4, 1949; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Home: A-2/94, Safdarjang Enclave, New Delhi-110 029; [Tel.: 011-26186895].

**Fellow** 

JAIN, Nemi Chand (F 109); b. October 5, 1940; B.E. (Mech.); Consultant; Sp.: Metrology; [E-mail: nemikota2003@yahoo.co.in]; Home: 2-KA-11, Vigyan Nagar, Kota-324 005 (Raj.); [Tel.: 0744-2423443].

**Fellow** 

JAIN, Prakash Chandra (F 004); b. October 5, 1931; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Home: 112, Prasad Nagar, Old MIG Flats, New Delhi-110 005; [M. 9871215124; E-mail: pcjvj@yahoo.co.in].

**Fellow** 

JOSHI, Kundal Chandra (F 031); b. January 18, 1937; Ph. D.; Ex.-Scientist, National Physical Laboratory, New Delhi- 110 012; Home: EA 346, Maya Enclave, Hari Nagar, New Delhi-110 064; [Tel.: 011-25128851; E-mail: kanta\_joshi@yahoo.com].

**Fellow** 

KACKER, Rakesh (F 200); M.A. Economics, Additional Secretary, Department of Consumer Affairs, Ministry of Consumer Affairs, Food and Public Distribution, Krishi Bhawan, New Delhi-110 002.

Fellow

**KANDPAL**, **Hem Chandra (F 099)**; b. November 15, 1954; Ph.D.; Scientist; Sp.: Optical Radiation Standards; *Office: Optical Radiation Standards, National* 

Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608315; E-mail: hckandpal@nplindia.ernet.in]; Home: 700 Double Storey, New Rajinder Nagar, New Delhi-110 060; [Tel.: 011-28741068].

Fellow

KANIYUR, Abdul Rahiman (F 137); b. September 10, 1937; B.E. (Mech.); Home: C-15, Industrial Estate, Coimbatore-641 021; [Tel.: 0422-2872964; Fax: 1-408-293-2266/837; E-mail: rahiman37@telebot. com].

Fellow

KHANDUJA, R.S. (F 147); b. April 16, 1939; M.E. (Electronics); Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; *Home: A-74, Ashok Vihar, Phase-3, New Delhi-110 052; [Tel.: 011-27462161* 

Fellow

**KOTHARI, Prafulla Chandra (F 098)**; b. August 9, 1948; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012.

Fellow

KOTNALA, Ravinder Kumar (F 149); b. October 2, 1957; Ph.D.; Scientist; Sp.: Electronic, Magnetic and Super-conducting Materials; Office: Magnetic Standards, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608599; E-mail: rkkotnala@nplindia.ernet.in]; Home: D-935, Laxmi Bai Nagar, New Delhi-110 023; [M. 9811237051].

Fellow

KUMAR, Anil (F 166); b. April 27, 1959; M.E. (Mech.); Scientist; Sp.: Mass & replated quantities, Office: Mass Standards, National Physical Laboratory, New Delhi-110 012; [Tel.: 45608348; E-mail: anilk2134@gmail.com]; Home: C-302, Vivek Vihar, Phase-I, Delhi-110 095; [M.:9818244100].

Fellow

**KUMAR, Ashok (F 067)**; b. May 5, 1951; Ph.D.;

Scientist; Sp.: Ultrasonics and Acoustics; Office: Acoustics and Ultrasonics Standards Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608380; E-mail: akumar@nplindia.ernet.in]; Home: 336, Prodyogiki Apartments, Plot 11, Sector 3, Dwarka, New Delhi-110 075; [Tel.: 011-45649609; M.: 9899866855].

Fellow

**KUMAR, Vikram (F 176)**; b. July 8, 1947; Ph.D. (Elect.Engg); Ex-Director, National Physical Laboratory, New Delhi- 110 012; Sp.: Semiconductor Physics & Technology.

Fellow

KUTTAN, Appu K. (F 141); b. June 12, 1955; Ph.D.; Teaching & Consultancy; Sp.: Instrumentation & Control Engg.; Office: Mech. Engg. Department, KREC, Surathkal; Srinivasnagar-574 151; [Tel.: 0824-2475984; Fax: 0824-2476090; E-mail: kuttan@krec.ernet.in]; Home: L-31, KREC Campus, Srinivasnagar-574 151; [Tel.: 0824-2475178].

Fellow

LAL, Krishan (F 129); b. March 15, 1941; Ph.D., D.Sc. (h.c.); President, INSA; Ex-Director, National Physical Laboratory, New Delhi- 110 012; Sp.: Solid State Physics, Materials Characterization, High Resolution X-ray Diffraction Techniques and Certified Reference Materials; Office: National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609104/8513; M. 91-9810002640E-mail: klal@nplindia.org, PresINSAklal@gmail.com]; Home: C-116, Ground Floor, Front Portion, Inder Puri, New Delhi-110 012, [Tel.: 011-25836680].

Fellow

LANKALAPALLI, Veera Gangadhara Rao (F 097); b. April 24, 1941; M.Sc. (Tech.); Ex-Scientist, NIO, Goa; Sp.: Physical Oceanography; Home: Flat No. 301, Padmavathi Plaza, Mehdi Jung Colony, Moula Ali, Hyderabad-500 040; [Tel.: 040-27128882; E-mail: lvgrao@yahoo.com].

Fellow

LAXMI, Shobhay (Ms) (F 143); b. February 28, 1943; Ph. D.; Ex-Add. Director, Sp.: Chemistry; *Home: Sector - 7C, 989, Faridabad; [Tel.: 0129-25241989].* 

Fellow

**LUTHRA, Ram Krishan (F 023)**; b. October 11, 1939; M.A. (Maths); Ex-Scientist, National Physical Laboratory, New Delhi-110 012, Sp.: Primary Temperature Standards; *Home: 18/4, Kalkaji, Near Desh Bandhu College (Main Gate), New Delhi-110 019; [Tel.: 011-26436577].* 

Fellow

MAHAJAN, Kushal Kumar (F 128); b. December 12, 1939; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Radio Science, Atmospheric & Space Physics; Fellow: Indian National Science Academy, *Home: C1/121, Janak Puri, New Delhi-110058; [Tel.: 011-25536334, 09810092120].* 

Fellow

MAHAJAN, Surender Kumar (F 107); b. May 1, 1946; Ph. D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Precision Electrical Measurement; Home: 25/19, Shakti Nagar, Delhi-110 007; [Tel.: 011-23843361, 09810222616; E-mail: mahajan\_surender@yahoo.co.in].

Fellow

MANNA (F 204); Director, Office: Central Glass & Ceramic Research Institute, 196, Raja Sc Mullick Road, Kolkata - 700032.

Fellow

MANRAI, Santosh (Ms.) (F 052); b. February 17, 1939; M.A. (Mathematics); Ex-Scientist, National

Physical Laboratory, New Delhi-110 012; Sp.: Photometry, Colour Measurement; *Home: A-204, Krishan Kunj, Plot No. 19, Nasir Pur Road, Dwarka, Phase- I, New Delhi-110 045; [Tel.: 011-25038522].* 

Fellow

MISRA, Sarat Chandra (F 081); b. September 15, 1939; Ph.D; Ex-Scientific Officer; Sp.: Radiation Metrology; Office: Bhabha Atomic Research Centre, Trombay, Mumbai-400 085; [Tel.: 022-25505274; Fax: 022-25505151; E-mail: scmishra@ magnum.barc. ernet.in]; Home: 1A, Purnima, DAE Apts., B.G. Kher Marg, Mumbai-400 006; [Tel.: 022-23693693].

Fellow

MOHANAN, Vellur (F 072); b. July 13, 1947; Ph.D; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Home: Kailath House, Venginisseri, Distt. Trichur, Kerala-680 575; [M: 0989119433; E-mail: vmohanan47@gmail.com, vmohanan.nplindia.org].

Fellow

MUKHERJEE, Shaktidev (F 148); b. October 17, 1948; Ph.D.; Associate Professor, Sp.: Measurement & Instrumentation; Office: Department of Electrical Engg., IIT, Roorkee-247 667; [Tel.: 01332-285585; E-mail: shmeefee@iitr.ernet.in]; Home: D-5, Hill View Apartment IIT, Rorkee-247 667.

Fellow

NANDGOPAL, G.V. (F 183); b. July 01, 1951; B.E, Scientist, Director (Grade-I); Sp.: Mech. Engg.; Office: Directorate of Reliability & Quality Assurance, Defence Research and Development Laboratory(DRDO), Kanchan Bagh, Hyderabad-500 058; [Tel.: 040-24583084, 24344340; Fax: 040-24344340; E-mail: nandugv@rediffmail.com]; Home: Director, Directorate of Reliability & Quality Assurance, Defence Research and Development Laboratory(DRDO), Kanchan Bagh,

Hyderabad-500 058; [Tel.: 040-24583084, 24344340; Fax: 040-24344340; E-mail: nandugv@rediffmail.com].

Fellow

NANGIA, Shiv Nandan (F 002); b. July 8, 1940; B.E.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Viscosity Standards and Measurements; Home: B2-144, Janakpuri, New Delhi-110 058; [Tel.: 011-25531789].

Fellow

**NATH, Mohinder (F 012)**; b. March 23, 1931; B.Sc.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Mass Metrology; *Home: A-3/221, Paschim Vihar, New Delhi-110 063; [Tel.: 011-25267504].* 

Fellow

OJHA, Vijay Narain (F 115); b. September 9, 1958; Ph.D.; Scientist; Sp.: Metrology (Thermal & Electrical), Semiconductors, Superconductors; Office: National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609325/9365; E-mail: nojha@nplindia.ernet.in]; Home: 9/11, M.S. Building, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [M.: 9958993385].

Fellow

**OM, Prakash (F 066)**; b. January 1, 1946; Ph.D; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Optical Measurements & Instrumentation; *Home: 13/16, Vasundhra, Ghaziabad-201 010; [Tel.: 0120-4880255].* 

**Fellow** 

PATNI, Ashok Kumar (F 202); b. June 26, 1964; AMIE; Chief Executive; Sp.: Calibration Activities; Office: C & I System, H-13 (d), Electronic Complex, Road No. 1, I.P.I.A., Kota-324 005; [Tel.: 0744-2434994; Fax:0744-2435443; E-mail: ashokjainpatni@rediffmail.com]; Home: 2-GA-38, Vigyan Nagar, Kota-324 005; [Tel.: 0744-2423883; Fax: 0744-2435443].

Fellow

PIR, Hari Krishan (F 190); b. June 1, 1951; B.E. (Electronics & Commun.), PGDCA; Scientist; Sp.: Medical Instrumentation; Office: CSIO, S&M Centre, IInd Floor, CSIR Complex, Pusa Campus, New Delhi-110 012; [Tel.: 011-25733791, 25733794; Fax: 011-25736290]; Home: B-85, Chetak Apartments, Plot No. 27/2, Sector-9, Rohini, New Delhi-110 085; [Tel.: 011-27865729].

Fellow

PRADHAN, Man Mohan (F 108); b. February 10, 1938; Ph. D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Infrared Spectroscopy and Instrumentation; Home: C-5A, MIG Flats, Mayapuri, New Delhi-110 064; [Tel.: 011-25143933].

Fellow

RAJAMANI (F 062); b. June 15, 1943; B.E. (Mech.); Manager; Sp.: N.D.T., Co-ordinate Measuring of Machines, Composites used in Aerospace applications; Office: Aircraft Division, Hindustan Aeronautics Ltd., Bangalore-560 017; [Tel.: 080-25263361]; Home: 740, 10th Cross, 10 'A' Main, II Stage Indiranagar, Bangalore-560 038; [Tel.: 080-25258373].

**Fellow** 

RAM, Ram Sagar (F 084); b. February 3, 1945; Ph.D.; Ex-Member, U.P. PSC; [E-mail: ramsagar2000@yahoo.com]; Home: Flat No. 47, NPL Apartments, Vikaspuri, New Delhi-110 018; [Tel.: 011-25621307].

**Fellow** 

RAMACHANDRAN, Rama Devi (Ms) (F 157); b. January 26, 1942; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Analytical Chemistry; Home: 234, D.D.A., S.F.S. Flats, Vasant Enclave, New Delhi-110 057; [Tel.: 011-26145943].

Fellow

RAMAMOORTHY, B. (F 191); b. March 18, 1955; Ph.D.; Professor; Sp.: Metrology and Computer Aided

Inspection, Manufacturing; Office: Deptt of Mechanical Engg. IIT Madras, Channai-600 036; [Tel: 044-22574674; Fax: 044-22570509]; Home: C21, III Coop Road, IIT Madras, Chennai-600 036; [Tel: 044-22576674; E-mail:ramoo@iitm.ac.in].

Fellow

**RAO, S.U.M. (F 134)**; b. August 20, 1951; M.Sc. (Physics); Ex-Scientist, National Physical Laboratory, New Delhi- 110 012.

**Fellow** 

RAYCHAUDHURI, Arup Kumar (F 146); b. March 1, 1952; Ph.D.; Director, S.N. Bose, National Centre For Basic Science, Ex-Director, National Physical Laboratory, New Delhi-110 012; Sp.: Solid State Physics Office: Director, S. N. Bose National Centre of Basic Sciences, JD Block, Sector 3, Salt Lake, Kolkata-700 098.

Fellow

RUSTAGI, Vijay Kumar (F 105); b. October 16, 1947; B. Tech. (Electronics); Ex-Scientist, National Physical Laboratory, New Delhi- 110 0127; Home: Flat No. 9259, Sector 'C', Pocket 9, Vasant Kunj, New Delhi-110070; [Tel.: 011-26893038, 09891566859; E-mail: vkrustagi@yahoo.com, rvkumar.47@rediffmail.com].

Fellow

SAMPATH, Kumar (F 005); b. September 7, 1938; M.Sc.; Consultant; Sp.: Standardisation, Quality Assurance; Office & Home: 105, Amar Jyoti Kunj, Mayur Vihar, Phase I, Delhi-110 091; [Tel.: 011-2254165].

Fellow

**SAMUEL**, James Reginald (F 093); b. May 2, 1942; B.E., M.B.A.; Management Consultant; Sp.: Quality and Environment Management; Office & Home: M/s Stellar Consultants, 506, I Cross, 8th Block, Koramangala, Bangalore-560 095; [Tel.: 080-25710755; Fax: 080-25710427; E-mail: stellar@consultant.com].

Fellow

SARKAR, Ajit Kumar (F 158); b. November 1, 1943; Ph.D., Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Sp.: Analytical Chemistry; *Home: Flat No. 11, NPL Apartments, H-3 Block, Vikas Puri, New Delhi-110 018: [Tel.: 011-25545750, M: 9810672330].* 

Fellow

SAXENA, Anil Kishore (F 131); b. December 20, 1954; M.E. (Electronics); Scientist; Sp.: Precision Measurement of L, C, R, AC Voltage Ratio and DC High Voltage; Office: DC High Voltage Standard, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609419/8693/9236; E-mail: aksaxena@nplindia.ernet.in]; Home: 138 MIG Flats, Pocket B, Sector 14, Phase II, Dwarka, New Delhi-110 075; [Tel.: 011-25078428, M. 9213382882].

Fellow

**SAXENA**, **G.M.** (**F 153**); b. March 17, 1951; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; *Home: Flat No. 831, Rama Apartments, Plot No. 2, Sector 11, Dwarka, New Delhi-110 075; [Tel.: 011-24918924].* 

Fellow

SENGUPTA, Amitava (F 118); b. March 8, 1953; Ph.D.; Scientist; Sp.: Time & Frequency Standards; Office: Time & Frequency Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608343/9224;E-mail: sengupta@nplindia.org]; Home: K-2072, Chittaranjan Park, New Delhi-110 019; [Tel.: 011-26274267].

Fellow

SHARMA, Desh Raj (F 087); b. July 20, 1951; Ph.D.; Scientist; Sp.: Vacuum Science & Metrology; ExScientist, National Physical Laboratory, New Delhi-110 012; Home: Flat-4, NPL Apartment, H-Block, Vikaspuri, New Delhi-110 018; [Tel.: 011-28542263].

Fellow

**SHARMA**, J.K.N. (F 064); Ex-Scientist, National Physical Laboratory, New Delhi-110 012.

Fellow

SHARMA, Jugdish Chander (F 435); b. October 22, 1953; Ph.D.; Scientist; Sp.: Electrical Engg.; Office: National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609446; E-mail: jes28@nplindia.ernet.in]; Home: 1A/2, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel.: 011-28742098].

Fellow

SHARMA, Navneet Kumar (F 188); b. December 8, 1948; B.E. (Electronics); Ex-Scientist; Sp.: Instrumentation;, CSIR Complex, New Delhi-110 012; [Tel.: 011-25733791, 25733794; Fax: 011-25736290]; Home: EA-123, First Floor, Inderpuri, New Delhi- 110012; [Tel.: 011-25835400].

Fellow

SHARMA, Omkar (F 182); b. January 20, 1952; M.Sc.; Ex-Scientist; National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608317/9220; E-mail: osharma@nplindia.ernet.in]; Home: 2, NPL Apartments, Vikaspuri, New Delhi-110 018; [Tel.: 011-28547584].

Fellow

SHARMA, Rina (Mrs) (F 179); b. May 12, 1963; Ph.D.; Scientist; Sp.: Length Standards, Frequency Stabilized Lasers, Laser based Measurements; Office: Length Standards, National Physical Laboratory, New Delhi-110012; [Tel.: 011-45609275/9381; E-mail: rina@nplindia.ernet.in]; Home: 60, TRSA, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel. 011-28743281].

Fellow

SHARWAN, Kumar (F 003); b. August 17, 1940; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; *Home: A-506, Mahindra Apartments, D-Block, Vikas Puri, New Delhi-110018; [Tel.: 011-*

25555381, 25546900, 9818086997; E-mail: qis\_skc @rediffmail.com].

**Fellow** 

SINGH, Bhikham (F 207); b. April 2, 1964; Post Dip. (Applied Electronics & Microwave Technology); Sr. Tech. Officer; Sp.: Temp. & Humidity Metrology; Office: Humidity Standard, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608281, E-mail: bhikham@nplindia.org]; Home: E-8, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel.: 28741892, M. 9212258284].

Fellow

SINGH, Joginder (F 083); b. November 2, 1939; Ph. D.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Sp.: Radiometry, Reflectometry, IR Sensors, Thermometry, Calibration & Measurment; Home: Flat 68, NPL Apartments, Vikas Puri, New Delhi-110 018; [Tel.: 011-25500137, 25541089].

**Fellow** 

SINGH, Mahavir (F 184); b. October 6, 1961; Ph. D.; Scientist; Sp.: Acoustic Metrology; Office: Acoustics, Ultrasonics & Vibration Section National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609319; E - m a i I : m a h a v i r @ n p I i n d i a . o r g , mahavir.acoustics@gmail.com]; Home: D II -11,, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel.: 011-28745497; M.: 91-98 71693346].

Fellow

SINGH, Mahi Pal (F 156); b. July 20, 1952; M.Sc.; Scientist; Sp.: Fire Safety Science; Office: Fire Research Laboratroy, Central Building Research Institute, Roorkee-247 667; [Tel.: 01332-272630, 272235/4475; Fax: 01332-272272, 272543; E-mail: general@cbri.ren. nic.in]; Home: CBRI Colony, Shantinagar, Roorkee-247 667; [Tel.: 01332-275622].

Fellow

SINGAL, Sagar Pal (F 069); b. March 15, 1934; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Consultant Scientist cum Advisor; Sp.: Acoustics Environmental Noise, Air Pollution Associated Micro-Metrology, Acousting Remote Sensing; Home: K-7A, Saket, New Delhi-110 017; [Tel.: 011-26857837].

**Fellow** 

SINGH, Sukhvir (F 196); b. August 15, 1956; Ph.D.; Scientist; Sp.: Electron Microscopy; Office: Electron Thin Film & Ion Microscopy Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 45608394; E-mail: sukhvir@nplindia.ernet.in]; Home: 7/57, Ilnd Floor, Old Rajinder Nagar, New Delhi-110 060; [Tel.: 011-45170096].

Fellow

SINGH, Ved Ram (F 079); b. February 24, 1946; Ph.D. (Elect. Engg.); Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Bio- medical Measurements and Standards, Sensors & Transducers, Instrumentation, Medical Ultrasonics.

Fellow

SINGH, Yashpal (F 130); b. May 7, 1956; Ph.D.; Scientist; Sp.: Temperature Metrology; Office: Temperature & Humidity Standards, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609390, E-mail: ypsingh@nplindia.org, ypsing56@yahoo.in]; Home: 5/36, First Floor, Old Rajinder Nagar, New Delhi-110 060; [Tel.: 011-25811328, M. 9868842861].

Fellow

SINGHAL, Raghunandan Prasad (F 111); b. July 12, 1947; Ph.D. (Engg.); Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Dimensional Metrology, Quality Systems, Project Engineering & Assessmens; Home: 90, Savita Vihar,

Vikas Marg Extension, Delhi-110 092; [Tel.: 011-22161380, 22166435; M.: 09873014369].

Fellow

**SOOD**, **A.K.** (**F 203**); IISc. Bangalore, Chairman, Research Council, National Physical Laboratory, New Delhi-110 012.

Fellow

**SRIVASTAVA, Navin Kumar (F 123)**; b. October 17, 1948; M.Sc.; Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; *Home: EA-337, Maya Enclave, Near Hari Nagar Clock-Tower, New Delhi; [Tel.: 011-25126801].* 

Fellow

SUBRAMANYA, Kypu Nunjunda Sastry (F 096); b. November 20, 1935; B.Sc., DME; Technical Consultant; Sp.: Measurement and Standardisation Metrology; Home: 672 "Veda Prasada" 22nd 'A' Cross 18th Main, Banashankari, II Stage, Bangalore-560 070; [Tel.: 080-26717821; E-mail: kypusubramanya @ yahoo. co.in].

Fellow

SUDERSANAN, M. (F 173); b. February 10, 1946; Ph.D; Ex. Scientific Officer, BARC, Mumbai; *Home: 5, Savitha, Chheda Nagar, Chembur, Mumbai-400089; [Tel.: 022-25283227].* 

Fellow

**TEWARI, Devi Saran (F 175)**; b. Aug. 14th, 1944; B.Sc. (Chemical Enginnering); Ex-Director, NABL; Home: B-203, Vigyan Vihar, GH-19, Sector-56. Gurgaon-122 011.; [Tel.: 0124-4112677; M.: 9968151381; E-mail: dstewari@hotmail.com].

Fellow

**TREHAN, Jagdish Chander (F 135)**; b. November 26, 1937; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; *Home: PP 40, Maurya Enclave, Pitampura, New Delhi-110 088; [Tel.: 011-27327705].* 

Fellow

TRIPURARI Lal (F 114); b. September 20, 1949; M.Sc. (Physics), M.Sc. (Mathematics), Mass Metrology; Ex-Scientist, National Physical Laboratory, New Delhi-110 012, Home: 146, Pink Apartment, Sector 18B, Dwarka, New Delhi-110 075; [M.: 991194635; E-mail: tlal@sify.com].

Fellow

YADAV, Sanjay (F 206); b. August 5, 1962; Ph.D. (Physics); Scientist EII; Sp.: Instrumentation, Sensor Transducers, Pressure Metrology; Office: Pressure & Vacuum Stds., National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608526].

Fellow

YADAVA, Rajvir Singh (F 073); b. December 25, 1942; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Electrical and Electronic Standards and Calibration, Testing of Micro-wave Components; Home: EA-67, SFS, Flats, G-8 Area, Rajouri Garden, Maya Enclave, New Delhi-110 064; [Tel.: 011-25120309, 25125147].

Fellow

VAISHYA, Jagdish Sharan (F 100); b. November 15, 1942; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Photometry & Radiometry; *Home: C1A/41B, Janakpuri, New Delhi-110 058; [Tel.: 011-25500452].* 

**Fellow** 

VARMA, Satya Prakash (F 077); b. January 13, 1943; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Infrared Spectroscopy, Instrumentation, Standards & Calibration; Home: 81, NPL Apartments, Vikaspuri, New Delhi-110 018; [Tel.: 011-25527699].

Fellow

VIJ, Brij Bhushan (F 092); b. April 10, 1936;

MIE; Sp.: Research activity in Time/calenders; *Home:* 335, Vikas Kunj, Vikaspuri, New Delhi-110 018; [Tel.: 011-25590335; E-mail: decical-vij@yahoo.com, metricvij@hotmail.com].

Fellow

WASAN, Ved Parkash (F 019); b. October 5, 1933; AMIE (Electrical); , Ex-Scientist, National Physical Laboratory, New Delhi- 110 012; Sp.: Temperature Metrology; Home: EC-198, Maya Enclave, New Delhi-110 064; [Tel.: 011-25120459; M.: 09213388671].

Fellow

YUDHISTHER, Kumar (F 195); b. June 6, 1959; Ph.D.; Tech. Officer; Sp.: Ultrasonics, NDT and Measurement Standards; Office: Acoustics and Ultrasonics Shock & Vibration Standards, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609302; E-mail:ykyadav@nplindia.org, yudhisther59@gmail.com]; Home: E-24, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel.: 011-25948836;M.: 9871384701].

Fellow

**ZAIDI, Zahid Hussain (F 089)**; b. December 31, 1942; Ph.D.; Ex-Professor, JMI and Ex-Vice Chancellor, Rohilkhand University, Bareilly; Sp.: Spectroscopic Characterization of Materials; *Home: B-1, Gulmohar Avenue, Tikona Park, Jamia Nagar, New Delhi-110 025; [Tel.: 011-26840007].* 

## LIFE MEMBERS

AGARWAL, Ashish (M 562); b. July 25, 1966; Ph.D.; Scientist; Sp.: Quantum Optics and Laser Physics; Office: Time and Frequency Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-25742610-12/2407; Fax: 011 25726938; E-mail: ashish @nplindia.ernet.in]; Home: DRSA-33, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel.: 011-28743530].

Member

AGARWAL, Ashutosh (M 695); b. May 27, 1975; M.Sc, B.Ed; Metrological Assistant; Sp.: Electronics; Office: Legal Metrology Unit, D/o Consumer Affairs, M/o Consumer Affairs, Food & P.D, Krishi Bhavan, New Delhi-110 001; [Tel.: 011-23386194; Fax: 011-23385344; E-mail: ashuwal@yahoo.com]; Home: 17/12, Second Floor, Old Rajinder Nagar, New Delhi-110 060; [Tel.: 011-25810618].

Member

AGARWAL, Shyam Kishore (M 584); b. November 23, 1948; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Low Temperature, High Temperature Super Conductivity, Quantum Hall Effect; Home: 47, Ramakrishna Apartments, Plot-10, Sector-9, Rohini, Delhi-110 085; [Tel.: 011-27867139].

Member

AGGARWAL, Narender Kumar (M 080); b. September 3, 1944; B.Sc.; Ex-Technical Officer; National Physical Laboratory, New Delhi-110 012; Sp.: Dimensional Metrology; *Home : 95, First Floor, E-2 Block, Sector 16, Rohini, New Delhi-110 085.* 

Member

AGGARWAL, Ritander (M 537); b. November 24, 1949; AMIE (Mech.); Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home: 139A, SFS Flats, Gulabi Bagh, Delhi-110 007; [Tel.: 011-23651306].

**Ajay Kumar, M.V. (M 843)**; b. Dec. 01, 1971, B.E. (Electronics), *Office: Ajay Sensors & Instruments, #45/17, Gubbanna Ind. Garden, 12th 'A' Cross, 6th Block, Rajajinagar, Bangalore-560010; [Tel.: 080-23304997; E-mail: ajaysensors@yahoo.com].* 

Member

AL-OQAIL, Abdul Aziz Suliman (M 254); b. May 10, 1948; Diploma (Tech.); Metrologist; Sp.: Instrumentation & Dimensional Metrology; Office: National Measurement & Calibration Lab. (SASO), P.O. Box 3437, Riyadh-11471, S. Arabia; [Tel.: 00966-1-4489369/175; Fax: 00966-1-4464622]; Home: P.O. Box 9714, Riyadh-11423, Saudi Arabia; [Tel.: 00966-1-2330319; 096655419608].

Member

ALOYSIUS, R.P. (M 750); b. March 31, 1995, Ph.D. (Physics), Scientist, Sp. Magnetic Standrds, *Office: National Physical Laboratory, New Delhi-110012 [Tel.: 011-45608638] Home: TRSA-58, NPL colony, New Rajinder Nagar, New Delhi-110 060; [M.: 9868968775].* 

Member

AMBARESHUDU, A. (M 104); b. June 13, 1948; B.E. (Mech.); Mechanical Testing and Calibration Laboratory; Sp.: Mechanical Measurements; Office: National Test House, Govt. of India, Taramani, Chennai-600 113; [Tel.: 044-22352374; Fax: 044-22351158]; Home: 26/7, C.P.W.D. Quarters, Besant Nagar, Chennai-600 090; [Tel.: 044-24902387].

Member

ANANDACHE, Shitalkumar Vamanrao (M 702); b. Jan 23, 1976; B.E (Mech), MBA; Sp.: Calibration of Material testing machines, Measuring Instruments & Gauges; Office & Home: 19/506, 55A, Yashwant Colony, Ichalkaranji-416 115. Dist. Kolhapur [Tel.: 0230-2422457; Fax: 0230-2423351; E-mail: klp\_vganand@sancharnet.in].

ANANTAPADMANABHA, V. (M 858); b. Sept. 21, 1962, M.E. (Mech.) Scientist; Office: Central Manufacturing Technology Institute, Tumkur Road, Bangalore-560 022; [Tel.: 080-2218380; E-mail: mnt@cmti-india.net].

Member

**ANKIT, K. (M 863)**; b. March 17, 1987, B.E. (Mech.); Office: Central Manufacturing Technology Institute, MNT Dept., Tumkur Road, Bangalore - 560 022; [Tel.: 080-22188388; E-mail: ankitkrishna@gmail.com].

Member

ARORA, Manju (Ms) (M 688); b. April 15, 1960; Ph.D.; Sr. Tech. Officer (3); Sp.: Characterization of materials by EPR and IR Spectroscopy; Office: EPR & IR Spectroscopy Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 45608570/8615/8309; E-mail: marora@nplindia.ernet.in]; Home: C-3A/14C, Janak Puri, New Delhi-110 058; [Tel.: 011-25623347].

Member

ARUN, Vijaykumar Devraj (M 450); b. February 6, 1955; M.Sc., P.G. Dip. (Instrumentation); Scientist; Sp.: Pressure and Vacuum Metrology; Office: Vacuum and Pressure Standard, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608451; E-mail: arun@nplindia.ernet.in]; Home: E-1, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel.: 011-28745943; M.: 9968331484].

Member

ARYA, Bhuwan Chandra (M 415); b. January 1, 1953; Ph.D.; Scientist; Sp.: Atmospheric Physics; Office: Radio and Atmospheric Science Division, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608378/8654; E-mail: bcarya@nplindia.ernet.in]; Home: C-312, Plot No. 11, Sector 3, Prodyogiki Apartments, Dwarka, New Delhi-110 075; [Tel.: 011-25071284].

**ASHOK Battineni (M 735)**; b. April 22, 1959; L.M.E; Tech. Officer; Sp.: Calibration of Machine Tools, *Office: Quality Control Div., Directorate of Reliability & Quality Assurance, DRDL, Kanchan Bagh, Hyderabad-500 058; [Tel.: 040-24583957; Fax:040-24583895; E-mail: ashokbattineni@gmail.com]; Home: Quarter No D-14/1D.R.D.O Township, Kanchan Bagh, Hyderabad-500 058; [Tel.: 040-24348069].* 

Member

**ASHOK**, **S.** (**M 864**); b. Jan. 01, 1982, M.Phil (Biophysics); Scientist; *Office: Shriram Institute for Industrial Research*, 14 & 15, Sadarmangala Indl. Area, Whitefield Road, Bangalore-48; [Tel: 080-23388753; E-mail: ashokshridhar@in.com].

Member

BABU, V. (M 432); Tech. Officer; Sp. Length & Dimension, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609272], Home: B129-F-2, Ramprastha Colony, Ghaziabad-20101; [E-mail: virendra\_babu@nplindia.org].

Member

BAGCHI, S.N. (M 540); b. December 8, 1946; M.Tech.; Sp.: Applied Optics, Office: Vibration Engg. Department, Resistoflex, B-103, Sector-V, Noida; [Tel.: 0120-2420321/2; Fax: 0120-2421417; E-mail: resistoflex@vsnl.com]; Home: B-62, C.E.L. Apartments, Vasundhara Enclave, Delhi-110 096.

Member

BALAJI, Palakonda Ravishankar (M 664); b. July 15, 1970; M.Tech.; Scientific Asst. (Mech.); Sp.: Testing & Calibration; Office: National Test House (N.R.), Kamla Nehru Nagar, Ghaziabad-201 001; [Tel.: 0120-2789813; Fax: 0120-2789883; E-mail: nthur@vsnl.net]; Home: 16, NTH Staff Colony, Kamla Nehru Nagar, Ghaziabad-201 001; [Tel.: 0120-2788824; E-mail: write2balu@yahoo.com].

BALARAM, Vysetti (M 539); b. June 1, 1951; Ph.D.; Scientist; Sp.: Geochemistry; Office: National Geophysical Research Institute, Hyderabad-500 007; [Tel.: 040 - 23434607; Fax: 040-23434651; E-mail: balaramv1951@yahoo.co.in]; Home: 12-.13-610, Nagarjuna Nagar, St No. 20, Tarnaka, Secundrabad-500 017; [Tel.: 040-23434800].

Member

BALASHANMUGAN, N. (M 856); b. July 24, 1961, B.E. (Mech.) Scientist E & Project Head (NMTC); Office: Central Manufacturing Technology Institute, Tumkur Road, Bangalore-560 022; [Tel.: 080-22188380; E-mail: Balashanmugam@cmti-india.net]

Member

BANDARU, Hari Prasad (M 571); b. August 1, 1967; M.E.; Scientist; Sp.: Production Engg.; Office: QCD/DR&QA, Defence Research and Development Laboratory (DRDL), Kanchan Bagh, Hyderabad-500 058; [Tel.: 040-24583451/3895; Fax: 040-24341855]; Home; Flat No. G1, Ratna Mansion, D. No. 1-9-50/1-9-50/A, New Dilsukh Nagar, Near Vijay Public School, Hyderabad-500 060; [Tel.: 040-24054006; E-mail: bhp67@yahoo.co.in].

Member

BANERJEE, Indranil (M 686); b. October 20, 1973; Diploma (Mech.); Sp.: Calibration (Force & Hardness); Office & Home: 60, Rishi Arabindo Sarani, 1<sup>st</sup> Floor, Kolkata-700 090; [Tel.: 033-65219467; E-mail: indranilmsn@yahoo.com].

Member

BASAVARAJU, K.N. (M 697); b. July 1, 1958; Dip.(Elect. Engg.); Tech. Officer; Sp.: Photometry; Office: TEC Building, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608561,E-mail: knbraju@nplindia.ernet.in, M. 09868956341]; Home:

No.1, A- Block, PKT-3, DDA Flat, Bindapur (Dwarka) P.O.-Uttam Nagar, New Delhi-110 059; [Tel.: 011-65068705].

Member

BATRA, Arun (M 646); b. October 27, 1968; B.E. (Electronics and Indl. Engg.); Director; Sp.: Dimensional Metrology; Office: ATA Auto Industrial Pvt. Ltd., G-1154, DSIDC Industrial Park, Narela, Delhi-110040 [Tel.: M.: 09871166330]; Home: C-33, Sai Apartments, Sector-13, Rohini, Delhi-110085; [Tel.: 011-27566604].

Member

BHANOT, Navneet (M 622); b. September 17, 1969; Post Dip. (Machine Tools), PGD (Management); Branch Manager; Sp.: Management; Office: Mitutoyo South Asia (P) Ltd., C-122, Okhla Industrial Area, Phase I, New Delhi-110 020; [Tel.: 011-26372091, 26372092; E-mail: bhanot@rediffmail.com].

Member

BHAT, Shulakshina (M 846); b. March 21, 1960; B.Sc.; Office: National Physical Laboratory, NewDelhi-110 012 [Tel.: 01145608563; E-mail; skoul@mail.nplindia.ernet.in].

Member

BHATNAGAR, Abha (Mrs) (M 748); b. July 06, 1952; B.Sc; Tech. Officer; Sp.: Certified Reference Materials; Office: IRM Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608376; E-mail: abhab@nplindia.ernet.in]; Home: C-34, Arya Nagar Apartments, Plot N. 91, IP Extension, Delhi-110 092; [Tel.: 011-22720246].

Member

BHATNAGAR, Shailendra Kumar (M 041); b. December 4, 1956; M.E. (Instrumentation); Managing Director; Sp.: Microcontroller Based Systems; *Office* 

& Home: Rohits' Measurons (India) Pvt. Ltd., 24/6, Civil Lines, New Hardwar Road, Roorkee-24; [Fax: 01332-274950].

Member

**BHATIA, Gopal (M 720)**; Ph.D.; Ex-Scientist; Sp. Carbon; National Physical Laboratory, New Delhi- 110 012, *Home: Res. 24/5 Old Rajinder Nagar, Delhi-110 060; [E-mail: gbhatia@nplindia.org].* 

Member

BHOSALE, Krishna Mukund (M 730); b. June 01, 1970; PG Dip. (Instrumentation); Technical Director; Sp.: Calibration of Instruments; Office: Universal Instruments, Akshay Complex, G/P-64, G-BIK,MIDC, Chinchwad, Pune-411 019; [Tel.: 020-27456326; E-mail: universalinstru@vsnl.net]; Home: Radika, Flat No:3 Plot No-9, Sect.-20, Chinchwad, Pune-411 019; [Tel.: 09850008149].

Member

BIJENDRA Pal (M 638); b. February 08, 1968; B.E. (Electronics & Communication); Tech. Officer; Sp.: Measurement and Calibration in LF&HF Voltage, Current & RF Power; Office: Electrical & Electronics Standards, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609613/9344; E-mail: bijendra@nplindia.ernet.in]; Home: 5/118, Chiranjiv Vihar, Ghaziabad-201 002; [Tel.: 9899450181].

Member

BIRADAR, Ashok M. (M 717); b. Oct 14, 1955; Ph.D; Scientist; Sp: Condensed Matter Physics; Office: Liquid Crystal Displays Group, National Physical Laboratory, New Delhi-110 012.; [Tel.: 011-45608569/8262; E-mail: abiradar@nplindia.ernet.in]; Home: 46/6, Ilnd Floor, East Patel Nagar, New Delhi-110 008; [Tel: 25735722; M.: 9213609238].

BULSARA, Amritlal Narshibhai (M 034); b. February 18, 1926; Dip. (Mech.); Ex-Tech. Officer, National Physical Laboratory, New Delhi-110 012; Home: 14, Gayatri Nagar, Nana Bazar, Vallabh Vidhya Nagar-388 120.

Member

CHAKRAVARTY, B.C. (M 716); b. Aug 02, 1952; Ph.D.; Sp.: Silicon and Silicon Devices; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; [E-mail: bcchakravarty@yahoo.com].

Member

CHAKRAVARTY, Tushar Kanti (M 305); b. January 5, 1948; AMIE (Mech.); Ex-Scientist, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608586/8609]; Home: B-52, CSIR Scientist Apartments, Maharani Bagh, New Delhi-110 065; [Tel.: 28742377].

Member

CHAND, Kailash (M 166); b. July 6, 1932; M.Sc.; Sp.: Photometry; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; *Home: 107/B, Sri Nagar, Shakur Basti, Delhi-110 034; [M.: 9810626588].* 

Member

CHAND, Suresh (M 310); b. May 10, 1954; Ph.D.; Scientist; Sp.: Polymer Physics, Xeroradiography; Member: New York Academy of Sciences; Office: National Physical Laboratory, New Delhi-110 012; [Tel.: 45609202]; Home: 623, 2<sup>nd</sup> Floor, Double Story, New Rajinder Nagar, New Delhi-110 060; [Tel.: 011-28742487].

Member

CHANDRA, Kant (M 719); b. April 15, 1963; Diploma (Mech Engg.); Sr. T.O. (3); Office: Nano Materials Lab, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609486]; Home: SU 162, Pitampura, New Delhi-110 034; [Tel.: 011-27341329].

CHATTOPADHYAY, Dipak Kumar (M 680); b. Jan 22, 1938; B.Tech(Hons.); Home: Flat No.B-82(8<sup>th</sup> Floor), Block-B, Type II Central Govt. Quarters, Tollygunge, Kolkata-700 040; [Tel.: 033-24210932].

Member

CHATTERJEE, Arundhati (Ms) (M 189); b. June 8, 1955; M.Tech. (Microwave Electronics); Scientist; Sp.: Time & Frequency Standard; Office: Time & Frequency Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608601]; Home: D-10, Hauz Khas, New Delhi-110 016; [Tel.: 011-26853530].

Member

CHAWLA, Santa (Ms) (M 600); b. January 4, 1955; Ph.D.; Scientist; Sp.: Laser, Thermoluminescence and Semiconducting Crystals; Office: Time & Frequency Stds., National Physical Laboratory, New Delhi-110 012; [Tel.:45609242; E-mail: santa@nplindia.ernet.in]; Home: 188, MIG Flats, Prasad Nagar, New Delhi-110 005; [Tel.: 011-25756962].

Member

CHELLAMALAI, M. (M 860); b. June 06, 1958; ME (Machine Tool Engineering); Scientist; Office: Central Manufacturing Technology Institute, MNT Dept., Tumkur Road, Bangalore-560 022; [E-mail: chellammalai@gmail.com].

Member

CHHOTEY Lal (M 629); b. July 11, 1950; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home: 83, MIG, A-00, Sector 2, Rohini, New Delhi-110 085; [Tel.: 011-27524739].

Member

**CHOPRA**, **Rajeev (M 721)**; Ph.D.; *[Tel.: 011-45609361]*; *Home: I-11, DDA Flats, Prasad Nagar, New Delhi-110 005; [Tel.: 011-2741323]*.

Member

CHOUDHARY, Krishna Chandra (M 886); B. Jan 01, 1967; Ph.D. (Soil Sc.); Joint Controller; Office: Legal Metrology, Ranchi, Lakshmi Niwas, Krishi Bhawan, Kanke Road, Ranch, Jharkhand; Home: Flat No. 307, Shivalaya

Apartment, Chandani Chowk, Kanke Road, Ranchi, Jharkhand; [Tel.: 0651-2231764].

Member

CHOWDHURY, Rathindra Nath (M 339); b. April 18, 1952; Ph.D.; Total Quality Management Counsellor; Sp.: Chemical Engineer; Member: American Institute of Chemical Engineers; Office: TQM Division, C.I.I., 4<sup>th</sup> Floor, Core 4A, India Habitat Centre, Lodhi Road, New Delhi-110 003; [Tel.: 011-24682226, 24682223, 24682230-35; Fax: 011-24682223]; Home: H-64-B Saket, New Delhi-110 017; [Tel.: 011-26563373, 26528323].

Member

**DAKSHINAMURTHY, V.R. (M 500)**, b. July 21, 1942; M.E. (Power); Management Consultant; Sp.: Control Systems; *Office & Home: 82, 17<sup>th</sup> Main Road, BSK, 1 Stg, II Blk, Bangalore-560 050; [Tel.: 080-26629948; Fax: 080-26629948].* 

Member

DAS, A.N. Vittal (M 844); b. April 19, 1957; B.Sc. (Analysis & Processes); Senior Research Associate; Office: ITC Ltd., ITC R&D Centre, Peenya, Bangalore; [Tel.:080-28394351; M.:. 9448904101; E-mail: a.vittaldas@itc.in].

Member

**DASGUPTA, A. (M 840)**; b. Nov. 25, 1952; M.Sc.; Technical Officer; *Office: HFPL Bangalore, AMR-11 Row House, Nandani Layout, Bangalore-560 096; [Tel: 9945536126; E-mail: chitraani@yahoo.com].* 

Member

**DESHMUKH, Kishore Madhukar (M 549)**; b October, 27, 1955; Dip. (Electronics & Telecomm. Engg.); Manager; Sp.: Product Certification/Metrology; Office & Home Padmashri# 68, Sahawas Society, Karrenagar, Pune-411 052; [Tel.: 020-25459065; E-mail: kimade@hotmail.com].

**DEV, Atul (M 706)**; b January, 25, 1971; B.Tech. (Mech.); Scientist; Sp.: Quality Management, Dimensional Metrology & Calibration; *Office: Centre for Advance Mech. Engg., DEAL, DRDO, Raipur Road, Dehradun-248 001; [Tel.: 0135-2787083/84; Fax: 0135-2787290/265]; Home: SO-1/3, DEAL Colony, Raipur Road, Dehradun-248 001; [Tel.: 0135-2788788; E-mail: atuldevji@yahoo.co.uk].* 

Member

**DKHAR, laithrangsur (M 882)**; b. Jan. 01, 1976; B.E. (Civil); Inspector; *Office: Department of Legal Metrology, Meghalaya, Shilong - 793 001; Home: Near IIM main gate Lumbasuk-Anonthymmai, Shillong - 793014 [M.: 9774025252; E-mail: iaithrangsuk@yahoo.co.uk].* 

Member

**DIXIT, Ganga Prasad (M 518)**; b. December 6, 1952; B.E. (Mech.), MCA; Scientist; Sp.: Machine Desig, Office: TEC Bldg, CFCT, National Physical Laboratory, New Delhi-110 012; [Tel.: 45608441/8610/8589; E-mail: gpdixit@nplindia.ernet.in, dixit\_gp@yahoo.co.in]; Home: J-43, Pratap Vihar, Sector 12, Ghaziabad-201 009; [Tel.: 08010840080].

Member

**DHAWAN, Jagdish Kumar (M 171)**; b. April 2, 1945; B.E. (Mech.); Ex-Scientist; National Physical Laboratory, New Delhi-110 012; *Home: B-204, Krishan Kunj Appartments, Plot No. 19, Pocket 6, Nasirpur Road, Dwarka, Phase-I, New Delhi-110 045; [Tel.: 011-25039344].* 

Member

**DHAMODHARASWAMY, Nagaraj (M 522)**; b. May 1, 1973; B.E.(E.C.E.); Scientist; Sp.: Calibration & Electrical Testing; *Office: Shriram Institute for Industrial Research, 14 & 15 Sadarmangala Industrial Area, White Field Road, Bangalore-560 048 [Tel.: 080-28410165,* 

28410172; Fax: 080-28410189; E-mail: sitarc@vsnl.com]; Home: Old No.: 292, New No.: 595, Edayar Street, Coimbatore-641 001; [Tel.: 0422-2398189; E-mail: dnagarajebe@yahoo.com].

Member

DHAR, Ajay (M 722); Scientist; Office: Metal Aloys Group, 23 HEPP, National Physical Laboratory, New Delhi-110 012; [Tel: 45609472; E-mail: adhar@nplindia.org].

Member

**DHIRUVA, Manish S. (M 744)**; b. November 11, 1963; B.Com; Director; Sp.: Audit & A./cs; *Office: SAPLE's SCALES (India) Pvt Ltd.*, 194-B, Gaiwadi, Girgaon, Mumbai-400 004.; [Tel.:022-32412795; Fax: 022-24016538; E-mail: saples@vsnl.net]; Home: 50, Ram Sadan, K.A.S. Road, Matunga, Mumbai-400 019; [Tel.: 022-32412795; Fax: 022-24016538].

Member

**DOSHI, Veerkumar Shivalal (M 658)**; b. Sept. 16, 1934; B.A.; Ex-Serviceman; Sp.: Electrical cosultant, *Home: 2/20, Rajendra Nagar, Duttapada Road, Borivali East, Mumbai-400 066; [Tel.: 022-28705422; M.: 09821606963]*;

Member

**DURAI, R. (M 884)**; b. July 30, 1958; B.Sc. (Chem), MBA; Dy. Controller; *Office: Labour Department, INHB Building, Surampaki 4 Road Erode, 45-31/31A II Lane, Wearers Colony, Salai Road, Woriur, Trihi- 620 003 (Tamil Nadu); [M.: 0938282035].* 

Member

**DUTT, Mahesh K. (M 678)**; b. Mar 07, 1965; M.E; Asst. Professor; Sp.: Metal Casting Science & Engg.; Office: Basav Academy of Engg., Gangondanahalli Main Road, Nagasandra Post, Bangalore-560 073.; [Tel.:080-28393613; E-mail: mahdutt@yahoo.com]; Home: 'DATTATRI' # 131, 42nd Cross, 8th Block, Jayanagar, Bangalore; [Tel.: 080-26633865].

**GADODIA, Rajendra Kumar (M 652)**; b. Oct. 17, 1942; M.Sc.; *Home: 7/2, B.D. Estate, Lancer's Road, Timparpur, Delhi-110054; [Tel.: 011-23815662].* 

Member

GANGURDE, Vasant Karbhari (M 741); b. Jan 14, 1972; Dip. (Mechanical); CEO, Calibration Laboratory; Sp.: Metrology; Office & Home: 7/3, 'Ram Setu' Ramkrishna Nagar, Ambad satpus, Link Road, Ambad, Nasik-422 010; [Tel.: 0253-2387965; M.: 09422267736; Fax: 0253-2387965].

Member

GANDHI, Sanjeev (M 466); b. May 23, 1967; B. Tech. (Electronics) MBA; Incharge- Operations; Sp.: Portable Metrology Reverse Engg. Scanning; Home: A-36, Viklap Apts. Plot-92, I.P. Ext., Patpar Ganj, Delhi-110 092; [Tel.: 011-22425371, 22427911; M.: 09811151292; E-mail: sgandhi@gicpe.net].

Member

GARG, Anuj Kumar (M 740); b. Jan 15, 1979; A.M.I.E; Sr. Engineer; Sp.: Machanical; Office: AIMIL Ltd, Naimex House, A-8, MCIE, Mathura Road, New Delhi-110 044; [Tel.:011-30810287; Fax: 011-26950011; E-mail: anjugarg@aimil.com]; Home: 2/350, Trilok Puri, New Delhi; [M': 09811227522; E-mail: anuj\_garg2001@indiatimes.com].

Member

GARG, Satish Chand (M 613); b. January 5, 1946; M.Sc. Tech. (Electronics); Ex-Scientist, Office: RASD, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-25726957; Fax: 011-25726938; E-mail: scgarg@nplindia.ernet.in]; Home: A-2/253, Paschim Vihar, New Delhi-110 063; [Tel.: 011-25261564, 25285910].

Member

GARG, Naveen (M 769); b. April 15, 1979; M.Tech, (IITD); Scientist; Sp.: Acoustics, National Physical

Laboratory, New Delhi- 110 012; [Tel: 044-54609112; E-mail: ngarg@nplindia.org]; Home: TRSA-78, NPL Colony, New Rajinder Nagar, New Delhi-110 060.

Member

**GAUTAM, Chhail Behari Lal (M 252)**; b. May 26, 1931; B.Sc, M.I.E.T.E.; Ex-Tech. Officer, National Physical Laboratory, New Delhi- 110 012; *Home: 197, Gali No. 4-B, Durgapuri Extn., Delhi-110 093; [Tel.: 011-2275273].* 

Member

**GERA, Bhim Sain (M 301)**; b. March 3, 1950; Ph.D.; Ex-Scientist; National Physical Laboratory, New Delhi-110 012; [E-mail: bsgera@nplindia.ernet.in]; Home: B-75, West Patel Nagar, New Delhi-110 008; [Tel.: 011-25884841].

Member

GODIYA, Pradeep Madhavdas (M 465); April 18, 1962; H.S.C. NCTUT; Resident Manager (Production Support); Sp.: Precision Measuring Instruments; Office & Home: Room No. 112/Block No. 14, Sant Tukaram Nagar, Pimpri, Pune-411 018; [Tel.: 020-27423334].

Member

GOEL, Avdesh Kumar (M 747); b. July 26, 1957; M.E; Tech. Officer; Office: L.F.&H.F Impedance Standards, Division of Electrical & Electronic Standards National Physical Laboratory, New Delhi-110 012.; [Tel.: 011-25742610-11/2259].

Member

GOPI Krishna, S. (M 861); ME (Mech.); Scientist; Office: Central Manufacturing Technology Institute, Tumkur Road, Bangalore-560 022; [Tel.: 080-22188392; M.: 09686267268; E-mail: get2gopi@yahoo.co.in]

Member

GOSWAMI, M.B. (M 570); b. August 31, 1950; M.Sc. MBA; Ex-Head (Recruitment & Assessment Board); Sp.:

Research Planning and HRD; Office: Recruitment & Assessment Board, CSIR Complex, Annexe Building, Library Avenue, Pusa, New Delhi-110 012; [Tel.: 011-25737348, 25735678; Fax: 011-25733804; E-mail: rabcsir@rediffmail.com]; Home: 34, NPL Housing Society, Vikaspuri, New Delhi-110 018; [Tel.: 011-28545368].

Member

GOSWAMI, N. (M 046); Ex- Scientist, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-22301826].

Member

**GUNDE**, Jairaj (M 473); b. March 25, 1957; B.Sc.; Inspector, Legal Metrology Deptt.; *Office: Inspector, Legal Metrology, Suryapet-508 213 (A.P.); Home: 1-7-647/28, Ram Nagar, Hyderabad-500 048 (A.P.).* 

Member

GUPTA, J.K. (M 674); b. February 10, 1953; B.Sc. IETE; Technical Officer; Sp.: Temperature Standards; Office: National Physical Laboratory, New Delhi-110 012; [Tel.: 45609231/9369/8603; E-mail: jkgupta@nplindia.ernet.in]; Home: 15/17, M.S. Building, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel.: 011-28743402; M.: 9899872199].

Member

**GUPTA, Sita Ram (M 324)**; b. May 6, 1951; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; *Home: EA-168, Inder Puri, New Delhi-110 012; [Tel.: 011-25831446].* 

Member

GUPTA, Virendra Kumar (M 528); b. July 1. 1969; Dip. (Mech.); Sr. Tech. Assistant; Sp.: Pressure Metrology; Office: Pressure & Vacuum Stds., National Physical Laboratory, New Delhi-110 012; [Tel.011-45608526; E-mail: virendra@nplindia.ernet.in]; Home: A-151, DDA Flats, Pkt. 3, Bindapur, Uttam Nagar, New Delhi-110 059; [Tel.: 9868126428].

**GURUMOORTHY (M 609)**; b. May 9, 1945; B.E. (Mech.); *Home: E37/3, 6<sup>th</sup> "A" Main Road, K.H.B. Colony, I Stage, Basaveswaranagar, Bangalore-560 079; [Tel.: 23282791; M.: 09448683986].* 

Member

**HALDER, Sijit Kumar (M 635)**; b. July 8, 1948; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; *Home: 19, NPL Apartments, H3-Block, Vikaspuri, New Delhi-110 018; [Tel.: 011-28544718].* 

Member

HARI, Kishan (M 452); b. December 9, 1949; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; [E-mail: nplhkishan@gmail.com]; Home: 27, Rama Krishna Apartments, Sector-9, Plot No. 10, Rohini, Delhi-110 085; [Tel.: 011-27866386, M.: 9891556654].

Member

JAGADISH, S.M. (M 867); b. Aug. 08, 1972, B.E. (Mech), Principal; Office: Consultants Zero Defect Consultants, # 150, 12<sup>th</sup> Cross, 16<sup>th</sup> Main Sri manjunatha Society, BTM layout, I<sup>st</sup> Stage, Bangalore-560 029; [Tel: 080-26842672; E-mail: jagadish\_sm@yahoo.com].

Member

JAI, Bhagwan (M 704); b. April 8, 1949; Ex-Technical Officer; Sp.: Optical Radiation Standard; Office: Optical Radiation Standards, TEC Building, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609161; E-mail:jaibhagwan@nplindia.ernet.in]; Home: R-177, Vani Vihar, Uttam Nagar, New Delhi-110 059.

Member

JAIN, Anil (M 027); b. August 17, 1951; Ph.D.; Business; Sp.: Instrumentation; Office: Vaiseshika Electron Devices, 38 Industrial Area, Ambala Cantt.-133 001; [Tel.: 0171-2699827; E-mail: shunya@sanchar net.in]; Home: 3652/53, Opp. Kali Bari Temple, Ambala Cantt.-133 001; [Tel.: 0171-2642653; Fax: 0171-2699773, 2643170].

JAIN, Subodh Kumar (M 567); b. January 8, 1955; M.Sc.; Scientist; Sp.: Electronics; Office: D-60, National Council for Cement and Building Materials, Delhi-Mathura Road, Ballabgarh-121 004; [Tel.: 0129-2242051-56,4192309; Fax: 0129-5242100; E-mail: nccbm5@bol.net.in]; Home: 115/8, New Colony Extn., Opp. Green Vale Public School, Palwal, Distt. Faridabad (Haryana); [Tel.: 01275-241203].

Member

JAIN, Suresh Chand (M 587); b. October, 5, 1948; Mech. Engg.; [E-mail: sureshjain\_1100@yahoo.co.in]; Home: 802, Aman Castle, 4/22, Vaishali, Ghaziabad 201 010; [Tel.: 0120-4377802].

Member

JAIN, Sushil Kumar (M 565); b. January, 17, 1954; Ph.D.; Scientist; Sp.: Ultrasonics and Force Metrology; Office: Force & Hardness Standards Building, National Physical Laboratory, New Delhi-110 012; [Tel.:45608680/9469; E-mail: skjain@nplindia.ernet.in]; Home: 153, Vivekanand Puri, New Delhi-110 007; [Tel.: 011-23696863; M.: 9899699595].

Member

JAIN, Vipin (M 732); b. July 15, 1973; M. Tech. (Mech.); Scientist,; Sp.: Materials & Metallurgical Engineering; Office: HEPP, Metals & Alloys Group, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608698/9433; E-mail: vipin@mail.nplindia.ernet.in]; Home: 34/45, West Patel Nagar, New Delhi-110 008.

Member

JALLA, A.K. (M 290); b. December 15, 1946; MA (Prev.); Business; Vice President, Overseas Operation, CE Corp, USA; Sp.: Marketing; Office & Home: D-6, Pamposh Enclave, New Delhi-110 048; [Tel.: 011-26231971; M.: 09810299917; Fax: 011-6465381; E-mail: ak@engineer-cec.com].

JAISWAL, Shiv Kumar (M 630); b. February 26, 1970; M.Tech. (Electrical Power System); Scientist; Sp.: Fluid Flow Metrology, Office: National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609426; E-mail: skjaiswal@nplindia.ernet.in]; Home: DRH-17, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel.: 28742575; M.: 09958618375].

Member

JAISWAL, Vijai Krishna (M 051); b. August 15, 1947; Ph.D.; Ex-Scientist, CSIO; Office: Hony Director, Kelvin Laboratories SCO: 64FF, Sector-47, Chandigarh-160 047; [Tel.: 09316130819; E-mail: kl@yours.at; www.yours.at/kl]; Home:2084/3, Sector-45C; Chandigarh-160 047; [Tel.: 0172-2612436; E-mail: dr.v.k.jaiswal@gmail.com].

Member

JANAKIRAM, S.D. (M 404); b. January 10, 1947; B.E. (Mech.), NFNLP, USA; Principal, HAL, Bangalore; Sp.: Neuro Linguistic Programming, Total Quality Assurance, HRD; Office: Principal, HAL Management Academy, Vimanapura Post, Bangalore-560 017; [Tel.: 080-25236598; Fax: 080-25236598]; Home: 21/20, Craig Park Layout, M.G. Road, Bangalore-560 001; [Tel.: 080-25584886; E-mail: janakiramsd@hotmail.com].

Member

JOKHAN, Ram (M 460); b. June 30, 1965; B.E. (Mech.); Tech. Officer; Sp.: Cryogenics Plants; Office: Cafeteria, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608474/8475/8575; E-mail: jram@nplindia.org, vimalurmil@yahoo. co.in]; Home: H.No.8, C-Block Extn., Vikas Nagar, Hastsal, New Delhi-110 059; [Tel.: 09968273488].

Member

**KADOLI, Ravikiran (M 593)**; b. October 19, 1967; M.Tech.; Sr. Lecturer; Sp.: Advanced Manufacturing Engineering; *Office: Deptt. of Mech. Engg. K.R.E.C.* 

Surathkal, P.O. Srinivasnagar-574 157; [E-mail: rkkadoli@rediffmail.com]; Home: C/o F.C. Kadoli, AP-18, KREC Campus, Surathkal, P.O. Srinivasnagar-574 157; [Tel.: 2477461].

Member

KAMALKAMNNAN, M.M. (M 876); b. May 09, 1967; M.Phil (Management); Deputy controller of Legal Metrology; Office: Labour department, 10/5 old no. 23/5, P.V. Kail Street, Mylapore, Chennai-600 004, Tamil Nadu; [Tel: 9841016277, E-mail: mmkamalkanna@gmail.com].

Member

KAMALUDDEEN, Inayathullah (M 521); b. January 29, 1963; B.E. (Mech.), B.G.L.; Workshop Instructor; Sp.: Industrial Management & Quality Control; Office: Annamalai Polytechnic College, Chettinad-630 102; [Tel.: 04565-273256]; Home: Faridha Illam, Plot No. 10, AKM Layout Third Street, Nehru Nagar, Karaikudi-630 006; [Tel.: 04565-227070].

Member

KANDASWAMY, Sakthivel (M 408); b. December 1, 1962; B.E. (Mech.); Manager (QA); Sp.: Aircraft / Helicopter jigs/Tooling (QA); Office: Aircraft Research & Design Centre, Hindustan Aeronautics Ltd., M.H. Colony, Bangalore-560 037; [Tel.: 080-25233035/387; Fax: 080-25235005]; Home: No.: 28, II Cross, R.R. Layout, Vijanapura, Opp. Jubilee School, Bangalore-560 016.

Member

KARFA, Mrityunjay (M 012); b. January 2, 1945; M.Sc. (Physics); Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home: 46, NPL Society, Vikaspuri, New Delhi-110 018; [Tel.: 011-25592713].

Member

KAUL, Chaman Lal (M 667); b. August 16, 1948; M.Tech.; Quality Consultant; Office: Quality Software

Solutions, 1253, Sector-D, Pocket-I, Vasant Kunj, New Delhi-110 070; [Tel.: 011-26891928]; Home: 1253, Sector-D, Pocket-I, Vasant Kunj, New Delhi-110 070 [Tel.: 011-26891928].

Member

**KEWAL, Krishan (M 169)**; b. September 15, 1941; IETE, B.Sc.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; *Home: B-3/260, Paschim Vihar, New Delhi-110 063; [Tel.: 011-25261285].* 

Member

KHALADKAR, Shrikant Gopal (M 872); b. September 8, 1948; M.E. (Elec.); Retd. Joint Director; Home: Matru-Chhaya, Vishnu Nagar, Naupada, Thane - 400 602; [M.: 09322854955, E-mail: sgk2009@gmail.com].

Member

KHANNA, Ravi (M 827); Diploma in Instruments Technology; Sp. Instrumentation Workshop, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609272; E-mail: khanna@nplindia.org]; Home: B-1/305, Mayur Apartment, Sector-09, Rohini, New Delhi-110 085; [Tel.: 027862953].

Member

KHATTAR, Jagdeep (M 746); b. Nov 08, 1973; Diploma in Tool & Die making; CEO; Sp.: Development & Design; Office: Jagdeep Industrial Graphics, B-163, Karampura, New Delhi-110 015.; [Tel.: 09350103773; Fax: 25432307]; Home: B-163, Karampura, New Delhi-110 015.; [Tel.:011-2543230, 2541592; M.: 9350103773; E-mail: jagdeepindustrialgraphics@yahoo.com].

Member

**KHANNA, Ravi Mohan (M 303)**; b. July 16, 1943; B.Sc., D.M.I.T.; Ex-Scientist, *Tel.: 011-45609272*; *Home: 43/3, Ashok Nagar, New Delhi-110 018; [Tel.: 011-25409924]*.

KHARE, Neeraj (M 367); b. August 16, 1958; Ph.D.; Professor, Sp.: Superconductivity & Magnetism; Office: Indian Institute of Technologyy, New Delhi; Home: E-173, Naraina Vihar, New Delhi-110 028; [Tel.: 011-25780792].

Member

KHULLAR, Faqir Chand (M 076); b. September 15, 1943; Ex- Scientist, National Physical Laboratory, New Delhi-110 012; Home: E-6, New Multan Nagar, New Delhi-110 056; [Tel.: 011-25263150].

Member

KIMOTHI, Shri Krishna (M 602); b. November 15, 1944; M.Tech. (Communication and Radar Engg.); Home: 3, Surya Kiran Apartments, D-Block, Vikaspuri, New Delhi-110 018; [Tel.: 011-28535768, 43801098; M.: 09312045092; E-mail: skkimothi@yahoo.com].

Member

KIRAN, Usha (M 889); b. Aug. 04, 1970, M.E., Tech. Officer C; Office: LF, HF Impedance & DC Standards, National Physical Laboratory, New Delhi-110 012; [Tel: 011-45608233, E-mail: kiranuk@nplindia.org].

Member

KISAN, Zaware Balasaheb (M 642); b. June 1, 1961; DME; Asstt. Controller; Sp.: Weights and Measure; Office: 629, Arun Chambers, Tavdeo, Mumbai-400 034; [Tel.: 022-23526275]; Home: 452 Krishna Nagar, Dr. Ambedkar Road, Parel, Mumbai-400012; [Tel.: 022-24708460].

Member

KITTUR, Jayanth K. (M 870); b. Aug. 21, 1966; M.E. (Production Engg.); Sp.: Metrology; Office: Karnataka Law Society, Gogate Institute of Technology 'Sona', S.V. Road, Angal, Belgaum-590 006; [Tel: 0831 248003, E-mail: jayant.kittur@gmail.co].

Member

KONDEKAR, R.R. (M 623); b. April 26, 1972; B.E.

(Mech.); Managing Partner; Sp.: Mechanical; *Office: K.C. Precision, M 107/5/2, MIDC Industrial Area, Waluj, Aurangabad-431 136.* 

Member

KOPPARTI, Srinivasa Rao (M 335); b. August 16, 1965; B.E. (Mech.); Incharge, Dimensional Metrology Lab.; Sp.: Dimensional Metrology; Office: Deputy Director, Advanced Training Institute, Guindy, Chennai-600 032; [Tel.: 044-22341211; Fax: 044-22341460; E-mail: calibration@vsnl.net]; Home: B-2, S-6, Paris Apartments, Mettust, Guindy, Chennai-600 032; [Tel.: 044-22456476].

Member

KRISHNAMOORTHY, Padur Anantaraman (M 183); b. June 6, 1946; B.E. (Mech.).

Member

KUDALE, Arun Laxmanrao (M 673), b. December 8, 1947; B.E. (Mech.); Vice Chancellor, Dnyaneshwar Vidyapeeth; Sp.: Calibration & Testing Instuments, Office: Kudale Calibration Laboratory Pvt. Ltd., 133 D/2, "Vijaya-Laxman" Building, Parvati Darshan, Society, Pune-411 030; [Tel.: 020-24331229; Fax: 020-24331508; E-mail: kclpl@vsnl.com]; Home: 'Ravikiran' 60 St. Patrics Town, Hadapsar, Pune-411 013; [Tel.: 020-26812719; E-mail: kundale@vsnl.com].

Member

**KUMAR, Gadi Giridhar (M 873)**; b. July 26, 1966; B.Tech; Senior Manager; *Office: R&D, BEML Limited, BEML Nagar K.G.F., Karnataka-563115; [Tel.: 08153-279420; E-mail: gvp@beml.co.in].* 

Member

**KUMAR**, Harish (M 819); b. Oct. 02, 1981; B. Tech (Mechanical & Auotmation); Scientist; Sp. Force & Torgue Metrology; Office: Force Standard Building, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608672; E-mail: harishkec@gmail.com].

**KUMAR, Harish (M 851)**; b. Dec. 30, 1968; M.C.A; Technical Officer; *Office: National Physical Laboratory, New Delhi-110 012; [E-mail: harish@mail.nplindia.ernet.in]*.

Member

KUMAR, Shashi P.V. (M 855); b. Oct. 19, 1950; PGDBA (Prod. Mgt.); Joint Director; Sp.: Design, Calibration Metrology, Office: Central Manufacting Technology Institute, Tumkur Road, Bangalore -22; [Tel: 080-23371516; E-mail: pvs@cmti-india.net].

Member

**KUMAR, Anil S.B. (M 850)**; b. Aug 05,1984; B.E. (Instn); Sp.: Renewable Energy; *Office: Consulting Engineering, # 982, Ist Floor, 4th Main, 2E Cross, 3rd Stage, 3rd block, Basaveshwar Nagar, Bangalore; [Tel: 08023238324; Mob.: 9901903281; E-mail: sbanilkumar@gmial.com].* 

Member

**KULSHRESTHA**, Monika Jain (Ms) (M 689); b. April 13, 1971; Ph.D.; Scientist; Sp; Atmospheric and Analytical Chemistry, *Office: RASD, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608383; E-mail: monikak@nplindia.or].* 

Member

KULSHRESTHA, Umesh Chandra (M 690); b. December 1, 1968; Ph.D; Scientist; Sp; Atmospheric and Analytical Chemistry; Office; Indian Institute of Chemical Technology, Analytical and Environmental Chemistry Division, Hyderabad-500 007; [Tel.: 040-27160123/ 2665; Fax: 040-27160757; E-mail: umeshiict@rediffmail.com]; Home :7-30A-136, Bapuji Nagar, Nacharam, Hydrabad-500 076; [Tel.: 040-2715895].

Member

KSHIRASAGAR, Vasudev Krishnappa (M 349); b. August 11, 1936; MBA; Consultant.

LAKSHMINARAYANA, Gowra Aswathanarayana Setty (M 628); b. March 13, 1939; B.Sc.; Retd. Manager (Calibration); Office & Home: Shri Ramakrishna Calibration Laboratory, Paramahansa, 101 AECS First Stage, Sanajayanagar, Bangalore-560 094; [Tel.: 080-23415466; Fax: 080-23334804].

Member

LALL, Bhagwant Singh (M 424); b. May 10, 1964; Dip. (Mech.); Tech. Officer; Sp.: Dimensional Metrology and Sewing Machine Testing; Office: Mechanical Engg. Research & Development Organisation, Gill Road, Ludhiana-141 006; [Tel.: 0161-2490716, 0161-2490328; Fax:0161-2491572; E-mail: merado@jla.vsnl.net.in]; Home: 4394, Urban Estate, Phase-2, DUGRI, Near - Kandhari Store, Ludhiana; [Tel.: 0161-2562639].

Member

LANGALIA, Mahesh Chimanlal (M 590); b. September 7, 1972; M.Sc. (Material Science); Engineer; Office: Essar Steel Ltd., HSMQAQC-Deptt., Hazira-Surat, Surat-394 270; [Tel.: 0261-2873129, 2873142; E-mail: mlangalia@essar.com]; Home: 22/167, Khatodara Colony, Behind G.H.Board Office, Near Udhana Darwaja Surat-395 002; [Tel.: 0261-2399514].

Member

**LUTHRA, Sunidhi (M 892)**; b. Nov. 30, 1984; Grade IETE, T.A. Gr II(I); Technical Assistant; *Office: National Physical Laboratory, New Delhi-110 012; [Tel.: 45609344; E-mail: sunidhi.madan@gmail.com].* 

Member

MAHAJAN, Pandurang Narayan (M 653); b. November 11, 1939; DME, DIEM, DQM, D in QA & ISO 9000; Sp.: Quality Control & Assurance; Home: B-1/32, Mahindranagar, Haji Bapu Road, Malad (E) Mumbai-400 097; [Tel.: 022-28779067].

MAHATO, Indrajeet (M 853); b. Jan.17, 1974; AMIAE (Equivalent to B. Tech) Auto Mobile Engg.; Office: G-44, Government Colony, South Park, PO Bistupur, Jamshedpur, Jharkhand; [Tel.: 06576622870/56/57/58; E-mail: inder\_jsr@yahoo.co.in].

Member

MAKAM, V. Manjunath (M 677); b. June 26, 1965; B.E. (Mechanical); D.G.M. (Quality Assurance); Sp.: Mechanical; Office: Michell Bearings India Pvt. Ltd, 8D, Attebele Industrial Area, Bangalore-562 107; [Tel.: 080-7820202; Fax: 080-7820302; E-mail:manjunath@michellindia.com]; Home: 495, 4<sup>th</sup>A Cross, 7th main, Vijaynagar 2nd stage, Bangalore-560 040; [Tel.:080-23300086; E-mail: mmakam@yahoo.com].

Member

MANDAL, Goutam (M 773); b. January 01, 1975; B.E. (Electrical Engg.); Sp.: Mass Metrology; Office: National Physical Laboratory New Delhi-110 012; [Tel.: 011-45609367; E-mail:goutam@nplindia.org]; Home: TRSA-83, NPL Colony; [M.: 9953641103].

Member

MANGAL, M.L. (M 656); b. May 22, 1948; B.E. (Production.); Propieter and Chief Executive; Sp.: Machine Tools, Tool room and Quality Assurance; Office: S.V. Engineering Centre, Plot No. E-3, Sanjay Colony, Sector-23, Faridabad-121 005; [Tel.: 0129-2230242; Fax: 0129-2232748; E-mail: nileshmangal@sify.com.]; Home: House No.1677, Sector-E, Faridabad-121 006; [Tel.: 0129-4016771].

Member

MANJUL, Suresh Shridhar (M 621); b. November 13, 1954; Ph.D., MCA; Scientist; Sp.: Radiometry, Office: SFSD/EOSG/SEDA, Space Application Centre (ISRO), Ahmedabad-380015; [Tel.: 079-26914219, 079-26914388; E-mail: ssmanjul@sac.isro.gov.in]; Home: E-2/18,Vikram Nagar, ISRO Quarters, Behind

ISKON Temple, Ambli Bopal Road, Ahmedabad-380 058; [Tel.: 079-26861624].

Member

MANJUNATH, H.R. (M 849); b. Nov. 08, 1963; M.E. (Electronics & Controls) Engineer Officer; Office: Instrumentation Division, Central Power Research Institute, Newbel Road, P.B. No. 8066, Bangalore-80; [Tel.: 08023518212; E-mail: hrmnath@yahoo.com].

Member

MANOJ, Prabhakar (M 698); b. September 10, 1969; B.Sc., B Ed.; Asst. Controller; Sp.: Legal Metrology; Office: 11 Choughan Slathia, Mubarak Mandi, Jammu-180 001; [Tel.: 0191-2548922; Fax: 0191-2548922]; Home: Quality Typewriters, Mubarak Mandi, Jammu-180 001; [Tel.:09419140535; E-mail: manojprabhakar123@yahoo.com].

Member

MARJARA, Nitin (M 879); b. March 03, 1980; B.Tech. (Instrumentation), Metrological Asstt.; Office: Dept. of Consumer Affairs, Shastri Bhawan, New Delhi-110 001; Home: 19, Panchdeep Apartment, Vikaspuri, New Delhi-110 018; [Tel: 011-23386194; E-mail: nitinmarjara@rediffmail.com].

Member

MAURYA, Kamlesh Kumar (M 634); b. August 1, 1964; Ph.D.; Scientist; Sp.: Growth of single crystal, Characterization, HRXRD; Office: CGC Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608295/9270/8490; E-mail: kkmaurya@nplindia.ernet.in]; Home: DRH-#3, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel.: 011-28741670; M.: 9958993370].

Member

MEHER, Harchand (M 828); b. April 25, 1945; M.Sc. Engg. (Mech); Chief Executive Officer, Precisio Calibration Laboratory, Plot No. 644, karma Villa,

Bhubaneswar-751 015; [Tel: 0674-2558250; Fax: 0674-2558250; E-mail: meher\_calibration @yahoo.co.in].

Member

MEHER, Jayanta Kumar (M 829); b. July 6, 1967; M.Sc.; Technical Manager; Precision Calibration Laboratory, Plot No. 644, karma Villa, Bhubaneswar-751 015; [Tel.: 0674-2558250. Fax: 0674-2558250. E-mail: meher\_calibration @yahoo.co.in].

Member

MEHER, Manoj Kumar (M 830); b. July 14, 1971; B.Sc. (Engg.); Deputy Qaulity Manager, Precision Calibration Laboratory, Plot No. 644, karma Villa, Bhubaneswar-751 015; [Tel.: 0674-2558250; Fax: 0674-2558250; E-mail: meher\_calibration @yahoo.co.in].

Member

**MEHROTRA**, **Ranjana** (M 724); Scientist, Ph.D., Quantum Phenomenson & Application, NPL, New Delhi [011-45608366, M.: 09811507909]; Home: A-207, Sector 26, Noida-201301; [Tel.: 0120-2521889].

Member

MEHARKURE, Vasant Domaji (M 633); b. November 6, 1962; B.E., D.B.M; Scientist; Sp.: Metallurgy, Mechanical Testing and Metrology; Office: National Test House, F-10, MIDC, Marol, Andheri (E), Mumbai; [Tel.: 022- 28327276; Fax: 022-28341767]; Home: Sector 10, B-20/001 Shantinagar, Mira Road (E), Thane 401 107; [Tel.: 022-28129140].

Member

MITTAL, Jagdish Prasad (M 607); b. January 1, 1963; Dip. (Mech. Engg.); Small Industry Promotion Officer (Mech.); Sp.: Calibration; Office: Regional Testing Centre (NR), Shahid Captain Gaur Marg, Okhla, New Delhi-110 020; [Tel.: 011-26312587, 26312671]; Home: A-2, St. No. 1, Near Nalanda Public School, Uttri Chhajjupur, Shahadra, Delhi-110 094; [Tel.: 011-2287332].

MITTAL, Mukesh Kumar (M 017); b. August 1, 1954; M. Tech. (Controls & Instrumentation); Scientist; Sp.: Power Engineering; Office: AC Power & Energy Standards, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609335]; Home: 4/8, West Patel Nagar, New Delhi-110 008; [Tel.: 011-25882212, M.: 09818026093].

Member

MITTAL, Pramod Kumar (M 036); b. September 17, 1940; B.Sc., M.A. (Eng.); Ex. Tech. Officer, National Physical Laboratory, New Delhi-110 012; *Home: C-212, Sector 20, NOIDA-201 301; [Tel.:95120-2533986,4320489; M.: 09868474141].* 

Member

MODAK, Omprakash Madhusudan (M 563); b. May 24, 1945; D.M.E., MDBA; Home: Flat No. 3, Omshivshakti Housing Society, SNo 17/1/1, Padamavati Dhanakawadi, Pune-411 043; [Tel.: 020-2422316; M.: 09890044692; E-mail: ommodak@giaspn01.vsnl.net.in].

Member

**MOHAMMAD, Salahuddin (M 470)**; b. December 19, 1942; M.Sc; *Home: 6.1- 255/35C, Khairtubad, Hyderabad-500 004; [Tel.: 040-2211533].* 

Member

MOHAMMAD, Saleem (M 453); b. July 1, 1954; M. Sc. (Physics); Tech. Officer; Sp.: Electronics; Office: LF & HF Impd. Stds, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609317/8693]; Home: B-7, New Jafrabad, Delhi; [Tel.: 011-22820792, M.: 9540332944].

Member

MOHAN, M.V. (M 410); b. November 6, 1950; B.E. (Mech.); Home: H.N. 385, 4B Main Sri Maruthu Coop. Hsg. Scociety Layout, Vasanthapura, Bangalore-560 061; [Tel.: 080-26665848].

Member

MOHANRAM, J (M 868); b. Feb. 22, 1953, Electrical

Engineering, Manager; Office: Calibration and Testing, G.B. Central Laboraory, (NABL Laboratory) Tiruchirapalli, B 20 Developed Plots Estate, Thuvakudi, Tiuchirapplli, Tamil Nadu-620 015; [Tel.: 0431-2351626; E-mail: jayaramanmohanram@gmail.com].

Member

MOHAN Lal (M 538); b. July 12, 1947; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012.

Member

MOONA, Girija (M 888); b. April 08, 1981; B. Tech.; Scientist; Sp.: Dimension Metrology: *Office: Length Dimension Stds, National Physical Laboratory, New Delhi-110012;* [Tel.: 011-45608684; E-mail: moonag@nplindia.org].

Member

MUKESH, Kumar (M 513); b. October 30, 1965; Dip. (Mech.); Tech. Officer; Sp.: Metrology; Office: Dimensional Metrology, National Physical Laboratory, New Delhi-110 012; [Tel.: 011 45608684/9507]; Home: 125-B, DDA Flat, Sunlight Colony-II, Ashram, New Delhi-110 014; [Tel.: 011-26926508].

Member

MUKHERJI, Ashok Kumar (M 606); b. June 6, 1957; P.G. Diploma in M.S.M and B.M.; Sp.: Mechnical Instrument Calibration; Office: Regional Testing Centre (NR), Okhla Indl. Estate, New Delhi-110 020; [Tel.: 011-26312587; Fax: 011-26847973]; Home: B-144, Kendriya Vihar, Sector 51, Noida (U.P.); [Tel.: 0120-2574151].

Member

MUKHOPADHYAY, Prabhat Ranjan (M 172); b. Feb. 1, 1942; B.Sc (D), A.M.I.E.; Ex-Scientist; Home: ABAKASH Co-operative Housing Society Ltd., Flat No. 6, Sector-2A, Bidhannagar, Durgapur-713 212; [Tel.: 0343-2537821].

NAMA, Yogesh Kumar (M 552); b. June 1, 1968; Graduate (Elect.), PGDMM, PGDIM; Prjoect Manager; Sp.: Metering and Meter Testing; Office: ZERA GmbH, HAUPT STR. 392, Konigswinter-53639, Germany: [Tel.: +49 2223 704125; Fax: +49222370470; E-mail: y.nama@zera.de]; Home: Winzer STR-20 Konigswinter-53639, Germany.

Member

NANDAM, Srinivasa Rao (M 869); b. June 25, 1978; B. Tech (Mech), Scientist, Sp. Adv. Mfg. Engg and Preicision Engg.); Office: D.M.R.L., Kanchanbagh, Hyderabad, Andhra Pradesh-500 058; Home: H.No. 24-25A Sita Meadows, Badangpet, Hyderabad, Andhra Pradesh; [Tel.: 24586564; M.: 09493813323; E-mail: srinivas\_nandau@rediffmail.com].

Member

NARAYANA, Sharma (M 659); b. December 18, 1965; AMIE (Electronics & Commn. Engg.); Sp.: Marketing Consultancy; Office & Home: Flat 201, Vasanth Villas, 23, Mallikarjuna Temple Street, Basavanagudi, Bangalore- 560 004; [Tel.: 080-26520045; E-mail: sharmanarayana@yahoo.com].

Member

NARENDRANATH, S. (M 468); b. June 24, 1966; M. Tech.; Lecturer; Sp.: Production Engineering; Office: Dept. of Mech., K.R.E.C., Srinivasa Nagar, Surathkal-574 157; [Tel.: 0824-2475984/236; Fax: 0824-2476090]; Home: AL-24, K.R.E.C. Campus, Srinivasa Nagar, Surathkal-574 157.

Member

**NATH, Omkar (M 020)**; b. October 18, 1945; Ph.D.; Ex. Scientist, National Physical Laboratory, New Delhi-110 012; *Home: C-141, Vikaspuri, New Delhi-110 018; [Tel.: 011-25594442].* 

NAVINCHANDRAN, R. (M 431); b. November 20, 1950; Dip. (Electrical); Fellow Member: Standard Engineers; System Co-ordinator; Office & Home: No. 5, 'SHREE NIVAS' 3<sup>rd</sup> Main, 1<sup>st</sup> Cross, New Extension, Krishnarajapuram, Banagalore-560 036; [Tel.: 080-25610128, 25612593; M.: 09845879808; E-mail:navin 57@vsnl.net1.

Member

NAYAK, Dattatraya Damodar (M 507); b. December 20, 1953; B.E. (Mech.); Business (Mfg. & Trading); Sp.: Mfg. of Inspection Gauges; Office: 409, Creative Industrial Estate, N.M. Joshi Road, Chinchpokli (West), Mumbai-400 011; [Tel.: 022-23079676; Fax: 022-23082851]; Home: 73, Olympus, M.M. Chottani Road, Mahim (W), Mumbai-400 016; [Tel.: 022-24455331].

Member

NAZARE, Ashok Krishnarao (M 625); January 5, 1949; DME/DMM; Managing Director; Sp.: Calibration and Second Part Inspection Contacts; Office: GP-67, PARAS Complex, Thermax Chowk, Chikhali Road, Chinchwad, Pune- 411 019; [Tel.: 040-27478831; Fax: 040 4552; E-mail: tushar\_nazare @vsnl.com]; Home: Nirmal Apartment, Phase 2, Krishana Nagar, Sector -20, Plot No. 12, Chikhali Pradhikaran, Chinchwad, Pune -411 019; [Tel.: 9822089138].

Member

**NEGI, Pramendra Singh (M 300)**; b. September 1, 1957; M. Tech. (Microwave Electronics); Scientist; Sp.: Microwave Metrology; *Office: Microwave Standards, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608322/9313; E-mail:psnegi@nplindia.ernet.in]; Home: 224-C, PKT-B, Phase-2; Mayur Vihar, Delhi-110 091; [M.: 9811149002].* 

Member

NEHRA, Ashok Kumar (M 668); b. September 22,

1964; Post Diploma; Managing Director; Sp.: Instrumentation; Office: Belz Instruments Private Ltd., 132-133A, H.S.I.D.C. Sector- 59, Faridabad-121 004; [Tel.: 0129-2415646; Fax: 0129 - 4055855; E-mail: belz@airtelbroadband.in]; Home: 5L-123, NIT, Faridabad-121 001; [M.: 09810197068; Fax: 0129-2414855].

Member

**NEMA, Kailash Narayan (M 533)**; b. June 30, 1948; Dip. (Mech.); Manager; Sp.: Instrumentation; *Home: MIG-36, Sector 9A, Saket Nagar, Bhopal-462 023; [Tel.: 0755-2584464].* 

Member

**NEOGI, Sunanda (M 742)**; b. Sep 20, 1973; Dip. (Mechanical).; Quality Manager; Sp.: Mechanical; *Office & Home: TEST MECH.*, 61/2 S.N. Banerjee Road, Kolkata-700 014; [Tel.: 033-55216189; Fax: 033-22469779; E-mail: testmech@rediffmail.com].

Member

NIJHAWAN, Satish Kumar (M 395); b. April 8, 1947; Post Dip. (Referigeration & Air Condi.); Ex. Tech. Officer, National Physical Laboratory, New Delhi-110 012; Sp.: Resistance Thermometry; Home: A/8/120, Sector 16, Rohini, Delhi-110 085; [Tel.: 011-27290882].

Member

OM, Prakash (M 739); b. May 10, 1966; B.E. (Mech.); Technical Officer; Sp.: Pressure & Vacuum Metrology; Office: R.N. 14H, Vacuum & Pressure Standard, TEC Building, National Physical Laboratory, New Delhi-110 012; [Tel.: 45608476/9476; E-mail: om@mail.nplindia.ernet.in, prakashsurbhi09@gmail.com] Home: NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel: 28741985; M.: 08800498192].

Member

**PALYAM, Ramesh (M 347)**; b. September 6, 1945;

MS (Thermal Instrumentation); Engineer; Sp.: Thermal Instrumentation; Office: #18, Miltan Corner, 2<sup>nd</sup> Cross, 2<sup>nd</sup> Main, SSI Area, Rajajinagar, Bangalore-560 010; [Tel.: 080-23355238; Fax: 080-3388349]; Home: Sri Ranga Nilaya, 1014/C, 4<sup>th</sup> 'M' Block, Rajajinagar, Bangalore-560 010; [Tel.: 080-23388349].

Member

PANT, R.P. (M 544); b. October 15, 1960; Ph. D.; Scientist; Sp.: Magnetic Fluid Research; Office: EPR Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608309/8615; E-mail: rppant@nplindia.ernet.in]; Home: B-604, Crescent Apartment, Plot No:2, Sector 18A, Dwarka, New Delhi-110 075; [Tel.: 011-28032140; M.: 9811718404].

Member

PARDEEP, Kumar (M 525); b. May 14, 1968; Ph.D; Professor; Sp.: Characterization of Materials; Office: Department of Applied Sciences & Humanities, Galgotias College of Engineering and Technology, 1, Knowledge Park, Phase-II, Greater Noida-201300; [Tel.: 45608533/8690]; Home: D-94, East of Kailash, New Delhi-110 065; [Tel.: 011-28539308; M.: 9810208817; E-mail: pk bir@yahoo.co.in].

Member

PARDEEP, Mohan (M 230); b. August 18, 1950; Ph.D.; Scientist, Sp.: Vacuum Standards, Vacuum Physics & Technology; Office: Vacuum & Pressure Stds., National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608533/8690; E-mail: pardeep@nplindia.ernet.in]; Home: 8, Parmarth Apts., Vikaspuri-I, New Delhi-110 018; [Tel.: 011-28539308, M.: 9810208817].

Member

**PATEL**, Kamlesh (M 708); b. Nov. 09,1977; M.Tech.; Scientist; Sp.: RF and Micorwave Metrology, Thin Film Solar Cells; *Office: Physics of Energy Harvesting, National* 

Physical Laboratory, New Delhi-110 012; [Tel.: 45608648; E-mail: kpatel@nplindia.org].

Member

PATNAIK, Hari Sankar (M 885); b. May 08, 1973; LLB; Senior Inspector; Office: Controller of Legal Metrology, Bhubneshwar, Orissa, Legal Metrology, Atpost-chatrapur (ganjam), Orissa; [M.: 09437432416; E-mail: harishsp@gmail.com].

Member

PODDAR, Hari Nandan Prasad (M 334); b. November 4, 1948; B.E. (Mech.); Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Computer aided modelling & Machining; *Home: 27/21, East Patel Nagar, 2<sup>nd</sup> Floor, New Delhi-110 008; [Tel.: 011-25850249].* 

Member

**POONAWALLA, Mnumdi Noman (M 649)**; January 3, 1936; B.E. (Mech.); [E-mail : weightscales@rediffmail.com]; *Home: 2414/A, East Street, Pune-411 001; [Tel.: 020-26343343].* 

Member

PRASAD, Jagan Nath (M 620); b. December 8, 1961; B.Sc., M.V.S.; Tech. Officer; Sp.: Co-ordination of Testing & Calibration; Office: Transport Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608229/8429]; Home: G-2, NPL Colony, New Rajindar Nagar, New Delhi-110 060.

Member

PREM, Kumar V.R. (M 524); b. September 7, 1949; M.E. (Production); Deputy Director; Office: CVRDE, Min. of Defence, AVADI, Chennai-600 054; [Tel.: 044-26380670; Fax: 044-26383661]; Home: Type-V, Quarter No. 29, CVRDE Officer's Quarters, AVADI, Chennai-600 054; [Tel.: 044-26371434].

PUNTAMBEKAR, Chandrakant Madhusudan (M 526); b. April 20, 1964; B.E. (Mech.); Chief Executive; Sp.: Calibration of Instruments, Consultancy; Office: Kudale Calibration Laboratory Pvt. Ltd., 133 D/2, Parvati Darshan Society, Near Sane Guruji Smarak, Pune-411 030; [Tel.: 020-24331229, 24332923; Fax: 020-24331508; E-mail: kclpl@vsnl.com]; Home: A4/17, S. No. 12/1/1, Nimbaj Nagar, Anand Nagar, Wadgaon (BK.) Pune-411 051; [Tel.: 020-24348447].

Member

RACHURI, Vijay Kumar (M 573); b. August 15, 1957; B. Tech. (E.C.E.); Sr. Manager; Sp.: Electronic; Office: Elect. & Inst. Lab, 90-BLDG, BHEL, R.C. Puram, Hyderabad-500 032; [Tel.: 040-23182478; M.: 09440980624; E-mail:rvk-r@bhelhyd.co.in]; Home: Plot no. 59, BHEL-HIG-Ph.-II, Madinaguda, Hyderabad-500 050; [Tel.: 040-23045864; E-mail: rvkbhel@yahoo.com.].

Member

RADHAKRISHNAN, M.N. (M 596); b. June 29, 1945; B.Sc. & IETE; Sp.: Electronics & Telecommunication, Consultancy Services; Office & Home: 20/1 IV Main Road, Malleswaran, Bangalore-560 003; [Tel.: 23347690; E-mail:bahajics@hotmail.com].

Member

RAGHAVENDRAN, S (M 610); b. November 9, 1949; B.E.; Director; Sp.: Electrical Engg.; Office: R Kowlali Enterprises P Ltd., 107, Pranava Complex, 5<sup>th</sup> Cross, Malleswaram, Bangalore-560 003; [Tel.: 080-23343839; F-mail: rkowlagi@vsnl.com]; Home: 18/51, I Main Road, Maruti Extn. Bangalore-560 021; [Tel.: 080-23321922].

Member

**RAINA**, **Sunita** (M 847); b. April 3, 1982; B.Sc.; Technical Officer; *Office: National Physical Laboratory*,

New Delhi-110 012; [Tel.: 011-45608376; E-mail: sraina@mail.nplindia.ernet.in].

Member

**RAJAN, S. (M 611)**; b. May 27, 1967; Dip. (Electrical & Electronic Commun.); Team Leader; Sp.: Calibration, Fluid Systems; *Office: Fluid System Physical Laboratory, Plot No. 22, 13<sup>th</sup> Cross, Doak Nagar, Madurai-625 010; Home: 126, Thirumalai Colony, 7<sup>th</sup> Street, Madurai-625 010 (TN).* 

Member

RAJESH, Kumar (M 448); b. November 9, 1967; B.E. (Mech.); Scientist; Sp.: Force & Hardness Metrology; Office: Force & Hardness Std., National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608516; E-mail: kumarr@nplindia.ernet.in]; Home: 141/D-7, Sector-6, Rohini, Delhi-110 085; [M.: 09871154967; E-mail: rajeshkumarh33@yahoo.com].

Member

RAJESH Kumar (M 618); b. November 10, 1960; Dip. (Electronics & Telecommun.), M.A.; Inspector; Sp.: Legal Metrology; Office: 1651, UE, Sector 13, HUDA, Distt. Bhiwani (Haryana).

Member

**RAJPUT, S.S. (M 723)**; b. July 01, 1957; Ph.D.; Scientist; Sp.: Electronics; *Office: LF&HF Impedance Standards.* 

Member

RAM, Raj Nath (M 546); b. January 1, 1957; M.Sc.; Scientist; Sp.: Solid State Physics, Metrology; Office: National Test House, Kamla Nehru Nagar, Ghaziabad-201 001; [Tel.: 0120-2789906, 2789813; Fax: 0120-2789883]; Home: P-68, Sanjay Nagar, Sector-23, Ghaziabad-201 001; [Tel.: 0120-2785031].

Member

**RAM, Swarup (M 311)**; b. March 14, 1945; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-

110 012; Home: 64A, R-Block, Dilshad Garden, New Delhi-110 095; [Tel.: 011-22138461; M.: 09899041690].

Member

RAMALINGESWAR, Rao M (M 738); b. Nov 18, 1975; Diploma (Mechanical Engg.); Tech. Asst.; Sp.: Mech. Engg.; Office: Defence Research & Development Laboratory, Kanchan Bagh, Hyderabad-500 058; [Tel.: 040-24340021; Fax: 040-24583895]; Home: Plot No. 56, H. No. 4-480/8, Road No. 06, New Balaji Nagar, Vaishali Nagar (P.O.), Saroor Nagar, Ranga Reddy (Dist.), Hyderabad-500 079; [Tel.: 040-24583511, 24583512; Fax: 040-24583895].

Member

RAMANAN, N. (M 672); b. June 3, 1969; Diploma (Mech Engg.); Proprietor; Sp.: Air Filters for Cleanroom & HVAC Application; Office: IMPEC FILTERS, 70, Oragadam Road, Ist Floor, Ambattur, Chennai-600 053; [Tel.: 044-26570322; Fax: 044-26570495; E-mail: ramanankn@yahoo.com]; Home: Plot No.124, Nehru Street, Jak Nagar, Thirumullaivoyal, Chennai-600 062; [Tel.: 044-55269085].

Member

RAMDASS, Venkatasamy (M 428); b. May 6, 1938; LME, DMM, DPM; Engg. Consultant, Ex-DGM, Ashok Leyland Ltd.; Sp.: Machine Tool Maintenance and Rebuilding; Home: H-52, 7<sup>th</sup> Cross. ASTC New HUDCO, Hosor-635109; [Tel: 04344-265753; E-mail: rtnramdas@vsnl.net].

Member

RAO, Kharul Ravindra Vyankat (M 845); b. May 31, 1964; M.Tech. (Design Engg.) IIT; Vice President; Office: TVS Motor Company Ltd., Heista Hoscer, Tamil Nadu - 635109; [Tel.: 04344-276780; E-mail: arkharul@yahoo.com].

**RAO, Shankar (M 531)**; b. December 28, 1949; Dip. (Elect.) Engineer; *Home: 114, Karmvir Nagar, JK Road, Bhopal-462 021; [Tel.: 0775-2786705].* 

Member

RAO, V. Kateshwara (M 839); b. Jan.06, 1964; B.E. (Electrical); Dy. GM; Office: M/s. TECUMSEH Products India Pvt. Ltd., Balanagar township, Balanagar, Hydrabad -500 037; [Tel.: 040-23074934, E-mail: koteswararao, raddadi@ecumseh.com].

Member

RATHOD, Ramsing Fattu (M 643); b. June 1, 1971; D. E. E.; Assistant Controller of Legal Metrology; Office: Registrar, Dist. Consumer Forum, Bhandara, Near Akil Sabhagrah, Ganeshpur Road, Bhandara-441 904 (Maharashtra); [Tel.: 07184-254467]; Home: C/O Manoj's Vaidya, Front of Rangari Hospital, Sai Mandir Road, Takiyaward, Bhandara-441 904; [E-mail: ruchirathod@sancharnet.in].

Member

RAVAT, Kul Bhushan (M 669); b. March 11, 1961; B.E. (Electrical); Sp.: Calibration of Electrical & Electronic Instruments; Office: Room No. 101 D, DC High Voltage Standards, National Physical Laboratory, New Delhi-110012; [Tel.: 011-45609236/8233; E-mail: kbravat@nplindia.ernet.in]; Home: E-124, 2<sup>nd</sup> Floor, Saket, New Delhi-110 017.

Member

**REDDY, Kommidi Niranjan (M 859)**; b. July 04, 1970; B. Tech (Mech.); Sp.: Precision manufacturing and Metrology; Scientist; *Office: Central Manufacturing Technology Institute, MNT Dept., Tumjur Road, Bangalore-560 022; [E-mail: Kommidi\_niranjan@yahoo.com].* 

Member

**REDDY, T. Narendra (M 862)**; b. May 19, 1987; B.Tech. (Electronics); Apparentice Officer; *Office*:

Central Manufacturing Technology Institute, MNT Dept., Tumkur Road, Bangalore-560 022; [E-mail: narufivestar@gmail.com].

Member

REVATHY, Arunugam Pooswamy (Ms) (M 670); b. March 11, 1974; M. Tech.; Scientist; Sp.: Laser & Electro Optical Engg.; Office: Mission Sensor Technology Division, Aeronautical Development Estableshment, DRDO, C.V. Raman Nagar, Bangalore - 560 075; [Tel.: 080 - 25057960-61; Fax: 080-25283188; E-mail: revathy@ade.ernet.in, revamohan@yahoo.com]; Home: Scientist Hostel, 3/903, Phase-I, DRDO Township, C.V. Raman Nagar, Bangalore-560 093; [Tel.: 044-25244931].

Member

RICHHARIYA, G.D. (M 532); b. July 1, 1950; B.Sc. (Maths); Ex-Incharge, Instrument Maintenance Section; Sp.: Calibration and Maintenance; [E-mail: library@bpl.bhel.co.in]; Home: M-35/9A, Saket Nagar, Bhopal- 462 024; [Tel.: 0755-2580448].

Member

ROY, B.K. (M 703); b. May 6, 1946; B.Sc.; Ex. Tech. Officer, National Physical Laboratory, New Delhi-110 012; Home: 51-C, J&K Pocket, Dilshad Garden, Delhi-110 095; [Tel.: 011-22115036].

Member

**ROY, Sukumar (M 893)**; b. Oct. 23, 1970; Professor & Head of Biomedical Engineering, Netaji Subhash Engineering College, Techno City, Garia, Kolkata -700 152; [M.: 09433408287; E-mail: sroybme@gmail.com].

Member

SADANAND, G.A. (M 734); b. November 4, 1954; Diploma (Mech. Engg.); Technical Officer; Sp.: Mechanical; Office: Defence Research & Development Laboratory, Kanchan Bagh, Hyderabad-500 058; [Tel.: 040-24340021/3512; Fax: 040-24583895].

**SADANANDA**, **Murthy R.** (M 619); b. January 6, 1951; B.Tech (Mech.); CEO; Sp.: Torque, Force and Pressure; *Office: Shushma Industries Calibration Centre, No. 18E, Block 'A', 1st C Main, IInd Phase, Peenya Industrial Area, Banaglore-560 058.* 

Member

SAHA, Subir (M 541); b. November 5, 1964; M. Tech.; Sp.: Metallography and Metrology; Office: Dynatech Engineers, 18/3, Masih Garh, Nr, Sukhdev Vihar, Church Road, New Delhi-110 025; [Tel.: 011-26322919, 26323820; Fax:011-26323821; E-mail: subirs@ndf.vsnl.net.in]; Home: K-2041, Chittaranjan Park, New Delhi-110 019; [Tel.: 011-26275059].

Member

**SAHU, Archana (M 875)**; b. Sept. 20, 1981; B.Tech (Elec & Comm), Technical Asstt. Gr. III(2); *Office: LF & HF Voltage, Current Microwave Standards, National Physical Laboratory, New Delhi-110012 [Tel.: 011-45609312; E-mail: archana@nplindia.org].* 

Member

**SAHU, Krishna Ram (M 881)**; b. Aug. 04, 1975; B. Tech.; Inspector; *Office: Dept. of Weight & Measures, At Post Deori, via Bagbahra, Dist. Mahasamund (C.G.) - 423 449; [M.: 09752684686].* 

Member

SAIN, Alok (M 475); b. January 1, 1961; B.E. (Elect.); Joint Director; Sp.: Pressure and Temperature; Office: Electronics Regional Test Laboratory (East) DN Block, Sector-V, Salt Lake City, Kolkata-700 091; [Tel.: 033-23347543; Fax: 033-23349472; E-mail: aloke@ertle.ernet.in]; Home: CA-229, Sector-1, Salt Lake city, Kolkata-700 064; [Tel.: 033-23372010].

Member

**SAINI, K.K. (M 718)**; b. Dec. 10, 1955; Ph. D.; Scientist; Sp.: Materials; *Office: Spectech Shed, National* 

Physical Laboratory, New Delhi-110012; Home: A-90, HIL Apartment, Sector 13, Rohini, New Delhi-110 085; [M.: 09968003165].

Member

**SAMBYAL, Vinod Singh (M 660)**; b. March 31, 1963; M. Phil (Physics); Assistant Controler; Sp.: Solid State Physics, *Office: Weights & Measures (Legal Metrology);* [Tel.: 0191-2548922];

Member

**SANDEEP, T. (M 865)**; b. Nov. 30, 1985; B.E. (Mechanical); Junior Scientist; *Office: Shriram Institute for Industrial Research, Plot No. 14 & 15, Sadarmangala Industrial Area, Whitefield Road, Bangalore - 560 048; Home: # 43, Krishna Krupa, Ist Main, 1st Cross, Munnekolala, Marathahalli Post, Bangalore-560 037; [M.: 09886914239; E-mail: Sandeepnair53@Gmail.com].* 

Member

SANJEEV (M 543); b. June 1, 1974; M. Tech. (Inst.); Research Scientist; Sp.: Electronics Instrumentation, Calibration & Control; Office: National Research & Technology Consortium, Plot-15, Sector-3, Parwanoo-173 220 (H.P.); [Tel.: 01792-233675; Fax: 01792-234107; E-mail: sktyagi25@hotmail. com]; Home: S/o Sh. R.N. Tyagi, VPO - Mukari-250 626, Distt. Baghpat (U.P.); [Tel.: 0121-274221].

Member

**SANJID, Mahammad Arif (M 891)**; b, May 03, 1976; M.Sc.; Office: National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609507, E-mail: sanjid@mail.nplindia.org].

Member

SAOOD, Ahmad (M 751); b. December 15, 1974;, M. Tech.; Scientist; Office: LF & HF Voltage, Current and Microwave Standards, National Physical Laboraory, New Delhi-110 012; [Tel.: 011-45609312; M.: 91-9868639303; E-mail: ahmads@nplindia.org]; Home:

9912, First Floor, Gali Parde Wali, Nawab Ganj, Azad Market, Delhi-110 006.

Member

SARKAR, Soumen (M 569); b. October 1, 1959; M.S., MBA; Calibration Laboratory Incharge; Sp.: Information Technology; Office: Usha Martin Limited (Alloys and Steel Div.) P.O. Box 147, Jamshedpur-831 001; [Tel.: 0657-3982226, 0657-3982200; Fax: 0657-2386056; M.: 09835116950; E-mail: soumen\_sarkar@ushamartin.co.in]; Home: Flat No. A-3/1, "Gangotri Home"1, South Park, Bistapur, Jamshedpur-831 001; [Tel.: 0657-2425764; E-mail: sarkar\_soumen@hotmail.com].

Member

SAXENA, Dinesh (M 490); b. July 1, 1960; Dip. (Mech.); Sr. Engineer; Sp.: Precision Measurement; Office: Quality Control-T, Bharat Heavy Electricals Ltd., Hardwar -249 403 (Uttaranchal); [Tel.: 01334-285694; Fax: 01334-225891; E-mail: dsaxena@bhelhwr.co.in]; Home: House No. Q-106, Shivalik Nagar, Phase-III, BHEL, Hardwar-249 403 (Uttaranchal); [Tel.: 01334-232219].

Member

SAXENA, Mithlesh (Ms) (M 185); b. February 26, 1944; Grad. I.E.T.E.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home: 148, Doctors' Apartments, Vasundhra Enclave, Delhi-110 096; [Tel.: 011-22488142].

Member

SAXENA, Rajiv Kumar (M 583); b. December 28, 1956; B.Sc.; Technical Officer; Sp.: Porosity and Indian Reference Material; Office: IRM Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-245608376; E-mail: rksaxena@nplindia.ernet.in]; Home: BA/44-A, Janakpuri, New Delhi-110 058; [Tel.: 011-25997213].

Member

**SAXENA, Tushya Kumar (M 275)**; b. July 1, 1955;

Ph.D.; Scientist; Sp.: Automation and Software Development; Office: Electronic Technical Services, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609374; E-mail: tksaxena@nplindia.ernet.in]; Home: Flat No. 196, Geeta Apartments, Block-17, Geeta Colony, Delhi-110 031; [Tel.: 011-22029396].

Member

SEBASTIAN, Jojy (M 848); MBA in Marketing, Director; Office: Nona Technologies Pvt. Ltd., 47, 12<sup>th</sup> Cross Sadhashiva temple road, R.S. Palaya, M.S. Nagar, Bangalore-560 033 [M.: 09845065179; E-mail: jojy.sebastian@nonatechnologies.com].

Member

**SEN, Pinaki Ranjan (M 315)**; b. June 18, 1955; B.Sc.; Tech. Officer; Sp.: Characterization of Carbon Material & Products; *Office: Carbon Technology Unit, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609402; E-mail: pinaki@nplindia.ernet.in]; Home: A-45, F.F. Chittaranjan Park, New Delhi-110 019; [Tel.: 011-26272285; M.: 9868102285].* 

Member

SEN, Ranjan (M 650); b. July 28, 1958; Ph.D. (Engg.); Scientist; Sp.: Metrology & Tribology; Office: Head, Metrology Group, CEMRI, Durgapur-713 209; [Tel.: 0343-5510251; Fax: 0343-2548204; E-mail: rsen@emeri.res.in]; Home: MS IV/E-2, CMERI Colony, Durgapur-713209; [Tel.: 0343-2566404; E-mail: sen\_ranjan@hotmail.com].

Member

SHAHA, Vallabh Vithaldas (M 701); b. December 1, 1946; B.E (Electronics & Telecom.); Scientific Officer; Sp.: Standardization of Radioactivity; Office: Head, Radiation Standards Section, RSSD, BARC4, Mumbai-400 085.; [Tel.: 022-25595074; Fax:022-25505151; E-mail: vvshaha@barc.gov.in];

Home: 9C,Kanchan Junga, Anushaktinagar, Mumbai-400 949; [Tel.: 022-25569227].

Member

SHANKAR, R. (M 671); b. May 21, 1969; Diploma (Electrical & Electronics Engg); Proprietor; Sp.: Design, Manufacturing & Testing of Air Filters for HVAC & Clean room Application; Office: M/s Pure Air Techniques, No. 70 Ground Floor, Oragadam Road, Ambattur, Chennai-600 053; [Tel.: 044-26570495, 26570322, 26570281; Fax: 044-26570495; E-mail: impecshankar@yahoo.com]; Home: Plot.No.125, Nehru Street, Jak Nagar, Thirumullaivoyil, Chennai-600 062; [Tel.: 044-55269079].

Member

SHANKARNATH, C (M 737); b. June 01, 1961; Dip. (Mech); Senior Technical Assistant; Sp.: Mechanical; Office: Defence Research & Development Laboratory, KanchanBagh, Hyderabad-500 058; [Tel.:040-24583442; Fax:24583895; E-mail: c\_shankarnath@yahoo.com]; Home: Flat No 26A, 6<sup>th</sup> Block, Janapriya Flats, Brindavan Colony, Savoor Nagar, Hyderabad-500 058(A.P); [Tel.: 040-24045119; Fax: 040-24583895].

Member

SHARAN, Promode Chandraram (M 336); b. January 6, 1943; B.Sc.; Ex-Tech. Officer, National Physical Laboratory, New Delhi-110 012; Home: C2/143, Janak Puri, New Delhi-110 058; [Tel.: 011-25504561].

Member

SHARMA, C.P. (M 715); b. October 10, 1946, Ph. D. (Chemistry), Ex-Scientist, National Physical Laboratory, New Delhi-110 012; [M.: 9811161972]; Home: 276, Kadambari Apartment, Sector -9, Rohini, N.Delhi-110 085; [Tel.: 011-27563069].

SHARMA, Dinesh Chandra (M 822); b. April 30, 1978; B.Tech. (Mech.); Technical Assistant; Sp.: Mass Metrology, Office: National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609367; E-mail: dineshiitd@rediffmail.com].

Member

SHARMA, Gauri Datt (M 711); b. September 2, 1958; M.E. (Ploymer Technology.); Technical Officer; Sp.: Mechanical; Office: Polymeric and Softmaterials, Engg. Materials, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609202; E-mail:gdsharma@nplindia.ernet.in]; Home: 6/8 MS Building, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel: 011-28741521].

Member

**SHARMA, Prem Kumar (M 555)**; b. April 5, 1967; M.Sc.; Consultant; Sp.: Metallurgical analysis; *Office: E-78, Phase IV, Focal point, Ludhiana-141 010; [Tel.: 0161-2675387; Fax: 0161-2676177]; Home: House No. HM-188, PHB Colony, Focal Point, Ludhiana-141 010; [Tel.: 0161-2675022; M.: 098142-68206].* 

Member

SHARMA, Promod Kumar (M 002); b. July 15, 1958; B.E. (Mech.); Joint Director; Sp.: Quality System; Office: Bureau of Indian Standards, Manak Bhawan, 9-Bahdur Shah Zafar Marg, New Delhi-110 002 [Tel.: 011-23236311, 23215947; Fax: 011-23234062]; Home: 2/93, Roop Nagar, Delhi-110 007; [Tel.: 011-23935988].

Member

SHARMA, Ravi Shanker (M 245); b. March 6, 1938; M.Sc., Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home: 11/G, Dharampura Colony, Najafgarh, New Delhi-110 043; [Tel.: 011-55935584].

Member

SHARMA, Sudhir Kumar (M 792); Ph.D.; Scientist;

Office: Radio & Atmopheric Sciences, National Physical Laboratory, New Delhi-110 012.

Member

SHARMA, Vijay (M 295); b. September 1, 1958; M.Sc. (Applied Mathematics); Technical Officer; Sp.: Numerical Techniques & Programming; Office: Central Computer Facility, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608594; E-mail: vsharma@nplindia.ernet.in]; Home: 1B-2, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [Tel: 011-28741499].

Member

SHIVADASAN, V.M. (M 403); b. November 6, 1966; M. Tech.; Sp.: Mechanical Engineering (Automotive Engg.); Office: Officer Commanding, Light Repair Workshop; 13 Mechanised Infantry, C/o 56 APO; [Tel.: 0751-2369711]; Home: 891 'Gokul' (PO) Maruthi Seva Nagar Subbainapalya, Banaswadi Road; Bangalore-560 033; [Tel.: 080-25461250].

Member

SHIVAKUMAR, S. (M 411); b. May 7, 1967; Dip. (Electronics); Chief Executive; Sp.: Instrumentation (Test & Measurement); Office: ProbeCal Solutions, #72, 1st Floor, NKM Complex, K. Kamaraj Road, Bangalore-560 042; [Tel/Fax: 080-25541513, Tlx.: 0845-2199; E-mail: probecal-solutions@vsnl.net]; Home: B4-111, BDA Quarters, Kalaballi, New MEG Centre, Ulsoor, Bangalore-560 042; [Tel.: 080-25360030].

Member

SIBAL, Rasik Bihari (M 553); b. March 25, 1971; Dip. (Auto. Engg.); Tech. Asstt.; Sp.: Temperature Metrology; Office: Temperature Stds, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609390]; Home: Site No. 1, DDA Plot, New Rajinder Nagar, New Delhi; [M.: 9868783355].

**SIDDALINGAPPA, V. (M 866)**; b. June 01, 1959; B.E. (E&C); Director; *Office: Electronic Test & Development Centre, 100 ft Road, Peenya Industrial Estate, Ist Stage, Bangalore-560 058; [E-mail: sidda2020@yahoo.com].* 

Member

SINGH, Ajeet (M 417); b. January 1, 1968; B. Tech., M.S.; Scientist; Sp.: DC Metrology, Computer Applications; Office: DC Standard, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608233/9325]; Home: B-174/6, Shalimar Garden, Ext. II, Sahibabad-201 005 (Ghaziabad).

Member

SINGH, Amar Partap (M 515); b. March 21, 1967; M. Tech. (Instrumentation); Asst. Professor; Sp.: Medical Electronics & Intelligent Instrumentation; Office: Deptt. of Electrical & Instrumentation Engg., S.L.I.E.T., Longowal-148 106 (Sangrur), (Punjab); [Tel.: 01672-284732; Fax: 01672-283657]; Home: Mahal Mubarak Colony, Sangrur-148001 (Punjab); [Tel.: 01672-283770, 284733].

Member

**SINGH, Amreek (M 890)**; b. Dec. 11, 1960; I.T.I; Office: Gr. II(4), National Physical Laboratory, New Delhi-110 012 [Tel.: 011-45609313; E-mail: amreek@nplindia.org].

Member

**SINGH, Anshul (M 877)**; b. Dec. 14, 1974; B.E. (Mech.); Asstt. Director; *Office: RRSL, Gauhati ; Home: G-i/F, DDA Flats Munirka, New Delhi-110 067 [M.: 991217585; E-mail: adrrsl@gmail.com].* 

Member

**SINGH, Battal (M 745)**; b. Nov 14, 1973; M.Sc. (Physics); Dy. Tech. Manager; Sp.: Material; *Office: Bharti Automation (Pvt) Ltd., 227 IInd & III<sup>rd</sup> Floor, Main* 

Market, Mayur Vihar, Phase-I, New Delhi-110 092; [Tel.: 22790222; Fax: 22790222; E-mail: bhartiapl@yahoo.co.in]; Home: Gali No-3; Village-Chhalera, Sector-44, Noida (U.P); [Tel.: 0120-2501637; M.: 9312308495; E-mail: singh\_battal@yahoo.co.in].

Member

SINGH, Dharam Pal (M 545); b. June 15, 1949; Ph.D.; Ex-Tech. Officer, National Physical Laboratory, New Delhi-110 012; [E-mail: drjat2000@yahoo.com].

Member

SINGH, Janardan (M 496); b. June 25, 1944; Ph.D.; Ex. Scientist, NPL New Delhi; Sp.: Electroceramics, Ferroelectric Ceramic Materials & Piezoelectric, Ultrosonics and Under-water Acoustics Transducer Devices & Techniques; Home: 5, NPL Housing Society, Near H-3 Block, Vikaspuri, New Delhi-110 018; [Tel.: 011-25537247; 09810239677].

Member

SINGH, Mandeep (M 375); b. September 18, 1966; M.E. (Computer Science); Assistant Professor (Instrumentation); Sp.: Instrumentation and Control; Office: EIED, Thapar Institute of Engineering and Technology, Patiala-147 001; [Tel.: 0175-2393058; E-mail: mandeep@tiet.ac.in]; Home: 194, Ajit Nagar, Patiala-147 001; [Tel.: 0175-2227085].

Member

SINGH, Manju (Ms) (M 837); b. June 26, 1974; B.Tech. (Electronics and Communication Engineering); Scientist; Sp.: Software Development for Automation, Office: Quantum Phenomena & Application, National Physical Laboratory, New Delhi-110 012; [Tel.: 45609412; E-mail: singhm@nplindia.org]; Home: TRSA 53, NPL Colony, New Rajinder Nagar, New Delhi-110 012.

Member

**SINGH, Mukund Kumar (M 880)**; b. Dec. 31, 1963; M.Sc.; Inspector; *Office: Central Lab Patna, Raja Bajar* 

BEIT Road, Patna-15; Home: Flat No. D/2 PAGF apartments, New Yappur Road No. 01, Gardanibagh, Patna; [M.: 09431041327; E-mail: mukundkumarsingh@yahoo.com]

Member

**SINGH Nahar (M 612)**; b. April 15, 1967; Ph.D.; Scientist; Sp.: Physical Chemistry; *Office: Analytical Chemistry Section, National Physical Laboratory, New Delhi-110 012*; [Tel.: 011-45608392].

Member

**SINGH, Naib (M 209)**; b. January 20, 1948; AMIE; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; *Home: C-1/127 A, Lawrence Road, Delhi-110 035; [Tel.: 011-27187292].* 

Member

**SINGH, Raj (M 299)**; b. April 16, 1948; A.M.I.E., Ex-Scientist; National Physical Laboratory, New Delhi-110 012; [Tel.: 011-25742610- 12/2466]; *Home: H. No. 126, T-Block, Uttam Nagar, New Delhi-110 059; [Tel.: 011-25333309].* 

Member

SINGH, Ran Vijay (M 729); b. February 5, 1972; M.E.; Asstt. Professor; Sp.: Production; Office: Gold Field Instututeof Technology & Management Vill: Chhainsa, Ballabgarh; [E-mail: adlakha123@yahoo.co.uk]; Home: 761/23, Joshi Road, Karol Bagh, New Delhi-110 005.; [M.: 09899955272; E-mail: rvs\_5272@yahoo.com].

Member

SINGH, Shailendra (M 878); b. Aug. 08, 1980; B.E. (Electronics); Metrological Asstt; Office: Deptt. of Consumer Affairs, Shastri Bhawan, New Delhi-110 001; Home: 20/A Shakti Nagar, Chiriyatola, Line Par, Moradabad-244 001; [Tel.: 011-23386194; E-mail shail\_amit@rediffmail.com].

**SINGH, Ved (M 497)**; b. May 15, 1940; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; *Home: A-16E, DDA Flats, Munirka, New Delhi-110 067; [Tel.: 011-26105169].* 

Member

SINGHANIA, Shekhar (M 743); b. Jan 12, 1962; Graduate; Partner; Office: Weigh India, Plot No.137, Functional Industrial Estate, Patparganj, New Delhi-110 092.; [Tel.: 011-22166336; Fax:011-22166334; E-mail: weighindia@rediffmail.com]; Home: B-46, S.R.M. Society 106, I.P. Extension, Delhi-110 092; [Tel.: 011-32929529].

Member

SINHA, Sanjeev (M 332); b. February 25, 1958; Ph.D.; Scientist; Sp.: Mass Metrology, *Office: Mass Standards, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608502]; Home : B-1, Sector 7, Plot No. 15, St. Columbus C.G.H.S. Ltd., Dwarka, New Delhi-110 075; [Tel.: 011-25085829].* 

Member

SOM, Jnanendra Nath (M 277); b. March 13, 1946; Ph.D.; Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Home:: B-404, Krishan Kunj, Nasirpur Road, Pkt-6, Plot 19, Dwarka, Phase-I, New Delhi-110 045; [Tel.: 011-25039771; M.: 09312903124].

Member

**SOMENAHALLI, Srinivas Aswath Narayan Rao** (M 472); b. May 16, 1969; Dip. (Mech.); Technician; Sp.: Calibration, Gauge Control, Inspection & Metrology Related Activities; *Office: Hindustan Aeronautics Limited, AROC, LCA Complex, Bangalore-560 037; [Tel.: 080-25233035/330]; Home: 600, Floor, 4<sup>th</sup> Main, 3<sup>rd</sup> Cross, Hanumanth Nagar, Bangalore-560 019.* 

Member

**SONI DAYA (Ms) (M 693)**; b. November 25, 1975;

Ph. D.; Scientist; Sp: Analytical Chemistry; Office: Analytical Chemistry Section, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608563; E-mail: dsoni@nplindia.ernet.in]; Home: WZ-255, Street No.-8, Sadh Nagar, Palam Colony, New Delhi-110 045; [Tel.: 25087470].

Member

**SONI, Praveen (M 883)**; b. April 23, 1975; B.E. (Mech.); Inspector; *Office: Legal Metrology, Distric Industries Centre, Civil Lines, Ajmer (Rajasthan) [Tel.: 0415-2627791; M.: 09530040044; E-mail: ersony@indiatimes.com].* 

Member

SRINIVASAN, Perumal (M 752); b. June 15, 1966; M.Sc.; Scientist; Sp.; Manufacturing Engineering; Office: Central Workshop Facility, National Physical Laboratory, New Delhi- 110 012.

Member

**SRIRAMA, K.L. (M 842)**; b. Nov. 12, 1970; B.Sc. (Material Testing); *Office: M/s. Chemical and Mattallugical lab.*, #57, f<sup>st</sup> Floor, Petechannappa Industrial Estate, Kamakshipalya, Magadi Road, Bangalore-560 079; [Tel.; 08023285931; E-mail: cml.blr1997@gmail.com, ].

Member

**SRIVASTAVA**, **Avanish Kumar (M 852)**; Ph.D. (Metallurgy); Scientist; *Office: Electron & Ion Microscopy Section, National Physical laboratory, New Delhi-110 012; [Tel.: 011 45609308; E-mail: aks@mail.nplindia.ernet.in].* 

Member

SRIVASTAVA, Manmohan Krishna (M 327); b. November 23, 1950; M.Sc.; Ex-Scientist, + National Physical Laboratory, New Delhi-110 012; Sp.: Superconducting Materials; Home: C4B/13, 305A, Janakpuri, New Delhi-110 058; [Tel.: 011-25545916].

Member

SRIVASTAVA, Pankaj (M 894); b. June 3, 1980,

M.Tech; Scientist; Office: DRDO, IRDE, Dehradun; [Tel.: 0135-2782441, E-mail: pankaj\_knite@rediffmail.com]; Home: H. No. 237, Sahodarpur (West), Pratapgarh-230 001 (U.P.).

Member

SUBBAIAH, P. Kasi (M 648); b. Sep.13, 1977; Dip. (Elect. & Electronics Engg.); Sr. Quality Advisor; Sp.: Uncertanity of Measurements & Six Sigma Approach by reading Variance; Office: M/s Lucas - TVS Ltd. Padi, Chennai-600 050; [Tel.: 044-26258211]; Home: No.2, Koil Cross Street, Gandhi Nagar, Ambattru, Chennai-600 053; [Tel.: 044-26584727; E-mail: KASISAN1@rediffmail.com].

Member

SUBRAHMANYAM, Rajalakshmi (Ms) (M 436); b. August 7, 1955; B.E. (Mech.); Director (Quality Control); Sp.: Mechanical Engg.; Office: Bureau of Indian Standards, IV Cross Road, CIT Campus, T.T.T.I. Taramani P.O., Chennai-600 113; [Tel.: 044-22541442; Fax: 044-22541087]; Home: Flat 3B, Aditya Appt. 38, Balakrishnan Street, Valmiki Nagar, Thiruvanmiyur, Chennai-600 041; [Tel.: 044-4454339; E-mail: rls@md3.vsnl.net.in].

Member

**SUDAMA (M 705)**; b. February 1, 1966; M.C.A; Tech. Officer; Sp.: Advance Electrical Measurement; Office: TEC-8, Optical Radiation Standards, National Physical Laboratory; New Delhi-110 012; [Tel.: 011-45608561; E-mail: sudama@ mail.nplindia.ernet.in]; Home: 38A/D, Vikas Vihar, Vikas Nagar, New Delhi-110 059; [M.: 09968350839].

Member

**SUDHINDRA, A. (M 854)**; b. March 22, 1955; B.E.; Quality Assurance; *Office: Additional Director, Diagnostics, Cables & Capacitors Division, Central Power Research* 

Institute, Sir C.V. Raman Road, Bangalore-560 080; [Tel.: 080-23604435; E-mail: sudhi@cpri.in].

Member

**SURESH, P.M. (M 874)**; b. June 27, 1970; Ph.D; Director; Office: R&D, East West Institute of Technology, # 66 Rudrakshi, I<sup>st</sup> Cross, Near BMTC Bus Depot Channasandra, Subramanyapura Post, Karnatak-560 061; Home: # 63 Off Magad Road, Vishwaneedan Post, Bangalore, Karnataka-560 091.

Member

SURI, Anil Kumar (M 319); b. July 13, 1954; Post Diploma (Industrial Electronics); Tech. Officer; Sp.: Instrumentation; Office: Time & Frequency Section, National Physical Laboratory, New Delhi-110 012; [Tel.:011-45609318/8245; E-mail: anilsuri@mail.nplindia.ernet.in]; Home: A-45, Sector 40, Noida (U.P.); [Tel.: 27110427; M.: 9811928370].

Member

TAAK, Ishwar Singh (M 568); b. January 3, 1956; Dip. (Mech.); Tech. Officer; Sp.: Fluid Flow Measurement; Office: Fluid Flow Standards Group, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45609475]; Home: QRS No. 22, Double Story, Vishal Enclave, Near P.S. Rajouri Garden, New Delhi-110 027; [Tel.: 011-202264299; M.: 9968680084].

Member

TANWAR, Lakhan Singh (M 003); b. June 1, 1948; Ph.D.; Ex-Professor, NSIT, New Delhi; Sp.: Opto-Electronic Instrumentation; Office: Director, Tanson Instrument, B-7, AE-II, Near Sector 37, Fardabad-121 003; [M.: 9810966488, E-mail: Istanwar@gmail.com].

Member

**TANWAR, Randhir Singh (M 626)**; b. November 15, 1952; M.Sc.; Scientist; Sp.: Solar UV Measurements; *Office: National Physical Laboratory, New Delhi-110 012*;

[Tel.: 011-45608368/8357; E-mail: tanwar@mail.nplindia.ernet.in]; Home: No. WZ-498 (H 104), Nariana, New Delhi-110 028; [Tel.: 011-25778323].

Member

TARANATH, B.N. (M 841); b. May 28, 1942; B.E. (Mech); Head; Office: Precision Engg. CMTI "Anagha" 2<sup>nd</sup> Floor, Maitri Apartments 176, first main, Kamalanagar, Bangalore; [Tel.: 080-23224502; M.: 9880106760; E-mail: taranathbn@gmail.com]

Member

TITUS, Seelakumar (M 564); b. September 6, 1963; Ph.D.; Scientist; Sp.: High Pressure; Office: Force and Hardness Standard, National Physical Laboratory, New Delhi-110 012; [Tel.: 011485608674, E-mail: titus@nplindia.ernet.in]; Home: TRSA-81, NPL Colony, New Rajinder Nagar, New Delhi-110 060; [M.: 9810824686].

Member

**TRIPATHI, S. Swarupa (Ms) (M 770)**; Ph.D.; Scientist; *Office: Analytical Chemistry, National Physical Laboratory, New Delhi-110 012.* 

Member

**VADALIA, Prakash Nagardas (M 651)**; b. Jan 31, 1956; B.E.; Sp.: Electrical Appliances; *Office & Home:* 14/15, Jain Bhavan, 2<sup>nd</sup> floor, 4<sup>th</sup> Mamlatdar Wadi, Malad (W) Mumbai-400 064; [Tel.: 022-28827626; Fax: 022-28822756; E-mail: heatron@vsnl.com].

Member

VAPTA, Rajendra Kumar (M 662); b. May 4, 1946; B.Sc., AMIE; Consultant; Sp.: Electrical Metrology; Home: 13, MIG, B Sector, Indrapuri, Bhopal-462 021; [Tel.: 0755-2589852; E-mail: rkvapta@sancharnet.in].

Member

VEERACHARY, S. (M 733); b. July 5, 1948; Diploma

(Mech.); Ex-Technical Officer; Sp.: Mech. Engg.; Office: DRDL, Kanchan Bagh, Hyderabad-500 058; [Tel.:040-24583954; Fax: 040-24583895]; Home: H.No 3-1-422 Maithry Nagar Colony, L.B Nagar, Hyderabad-500 074.; [M.: 09948111669].

Member

VEERESHA Y. Rudrappa (M 559); b. March 16, 1968; B.E. (Electrical); Senior Engineer QA; Sp.: Quality Control; Office: W.S. Test System Limited. 27th Km, Bellary Road, Bangalore-562 157; [Tel.: 080-28467389; Fax: 080-28467633; E-mail: mwbil@bgl.vsnl.net.in]; Home: 21, Block-2, S-MIG-B, Shirke Apartments, 5th Phase, Yelahauka New Town, Bangalore-560 065; [Tel.: 080-28461958; E-mail: YR-veeresha@rediffmail.com].

Member

**VENKATES, Chitnis Shreedhar (M 871)**; M.E. Production Engg., Professor; *Office: Gogte Institute of Technology, Udyamag, Belgaum - 590 008; [Tel: (0831) 2441207/2441909; E-mail: svchitis@git.edu].* 

Member

**VERMA, Surendra Singh (M 170)**; b. December 11, 1950; B.Sc. Engg. (Mech.); Ex-Scientist, National Physical Laboratory, New Delhi-110 012; Sp.: Cryogenic Plants; *Home: C-1/93, Janakpuri, New Delhi-110 058; [Tel.: 011-25503921].* 

Member

VIJAYKUMAR, V. (M 675); b. April 4, 1978; B.E. (E&C); Sr. Test Engg.; Sp. Electro Technical Caliration; Office: TRANSCAL, 158, 9<sup>th</sup> Cross (Near City Central Library), Sampig Road, Malleswaram, Bangalore-560 003; [Tel.: 080-23344723; Fax: 080-23440676; E-mail: vicky\_hanur@yahoo.co.in]; Home: S/o K Venkatachalapathy Setty, Cloth Merchant, SK P T Street, Hanur-571 439; [Tel.: 08224-768877].

Member

VINOD, Prakash (M 857); b. June 16, 1966; MBA (Finance); Scientist; Office: MNT Dept., Central

Manufacturing Technology Institute, Tumkur Road, Bangalore-560 022; [Tel.: 080-22188243; E-mail: Pvinod321@yahoo.com].

Member

VIRENDRA Babu (M 274); b. January 11, 1954; B.E. (Industrial Engg.); Technical Officer; Office; Dimensional Metrology, National Physical Laboratory, New Delhi-110 012; [Tel.: 011-45608686/9272; E-mail: virendra\_babu@nplindia.ernet.in, virendra\_babu@yahoo.com]; Home: B-129 (F-2) Ramprastha Colony, Ghaziabad-201 011; [Tel.: 95120-4114936].

Member

VRISHABENDRA, M.V. (M 437); b. July 25, 1939; B.E. (Electronics.); Ex Scientist, ISRO; Sp.: Instrumentation and Electronics; Home: 783 2<sup>nd</sup> D Cross, 8<sup>th</sup> Main, III<sup>rd</sup> Stage, III<sup>rd</sup> blk, Basweswaranagar, Bangalore-560 079; [Tel.: 0802330499; E-mail: ajaysensors@vsnl.com].

Member

YASAS, K. Vasudeva (M 895); b. December 13, 1964; General Manager; Office: AIMIL Ltd., Naimex House, Mohan Co-Operative Industrial Estate, New Delhi-110 044; [Tel.: 022-26102718; E-mail:yasas.vasudeva@gmail.com]; Home: KKV Ysas, A-28/C, DDA Flats, Munirka, New Delhi-110 067.

Member

**ZULFEQUAR, Mohammad (M 399)**; b. January 2, 1964; Ph.D.; Professor; Sp.: Experimental Solid State Physics, Amsphorus semiconductors; *Office: Department of Physics, Jamia Millia Islamia, New Delhi-110 025; [Tel.: 011-26831717/339, 26988332; Fax: 011-26830337; E-mail:zulfe\_ph@jmi.ernet.in, mzulfe@rediffmail.com]; Home: A-19, Flat No. B-2, Apex Complex, Okhla Vihar, Jamia Nagar, New Delhi-110 025; [Tel.: 011-26848624].* 

## **ASSOCIATE MEMBERS**

- Assoc. Member BHAWSAR, K.K. (AM 160); b. Sept. 25, 1964; M.Sc.; Dy. Controller Legal Metrology; Office: 4 Balaji Nagar, Narela Shankari Near J.K. Road, Bhopal-462 021; [Tel.: 0755-2683117; E-mail: kishor.bhawasar@yahoo.co.in].
- Assoc. Member CHAUHAN, K.S. (AM 159); b. Dec. 05, 1972; B.E. (Electronic Instrumentation); Deputy Controlle weights & Measures; Office: Deptt. Govt. of MP 32 A, Sector C, Vaishali Nagar, Indore; [Tel.: 0731-2484938; E-mail: kirtirajc@gmail.com].
- Assoc. Member DAR, Nazir Ahmad (AM 161); b. June 22, 1971; B.Ed.; Inspectro Legal Metrology; Office: Legal metrology department, J&K Governement, Civil Secretariate, Sringagar Rangar tensil Chadoora distt. Budgam, J&K-191 113; [M.: 09419025912; E-mail: dar.nazir71@yahoo.com].
- Assoc. Member HARODE, Lalit (AM 171); b. May, 25, 1968; LLB; Assistant Controller; Office: Legal Metrology Organization, Maharashtra, 43/A, Shankar Nagar, Nagpur; [E-mail: lbharode@yahoo.com].
- Assoc. Member Imchen, K. Takeeth (AM 165); b. June 18, 1967; B.Sc.; Inspector, Office: Legal Metrology & Consumer Proection, Nagaland, Kohima-222 862; [M.: 09436600384].
- Assoc. Member JANA, Sajal Kanti (AM 166); b. April 24, 1955; B.Ed; Joint Controller; Office: Legal Metrology, West Bengal, 112, Gouranga Sarani P.O. Haltu, Kolkata; [E-mail: sajaljana@yahoo.in].
- Assoc. Member KUMAR, Mukesh (AM 153); b. Jan. 01, 1973; LLB; Assistant Controller; Office: Govt. of U.P., 7-wala qudar Road, Lucknow; [E-mail: aclmknp@rediffmail.com].
- Assoc. Member KUNDU, Samir (AM 175); b. Sept. 05, 1974;

Diploma (Mech.); Office: Essjay Technomeasure Pvt. Ltd., Anjana Complex, NIT Krishnapur Chowk, Adityapur, Jamshedpur; [Tel.: 0657-6541960].

Assoc. Member MAHENDER (AM 172); b. Jan. 05, 1982; M.Sc.; Legal Metrology; Office: Behind Police Station, NH-5, N.I.T Ferobh-121 001; Home: Village Andher N.I.T., Faridabad Sec. 21D, Faridabad; [M.: 09416758757].

Assoc. Member MALLIKARJUNA, CM (AM 151); b. June 18, 1953; M.Sc (Geoscience); Dy. Controller; Office; Legal Metrology, No. 1, Aliagbard, Govt. of Karnataka, Bangalore; [Tel.: 23389488].

Assoc. Member **PRADHAN, Chandrahas (AM 157)**; B.E. (Metallurgy); Inspector Weights & Measures; *Office: Chakradhar Nagar, Raigarh, Chattisgarh-496 001; [M.: 09977909191].* 

Assoc. Member RAMCHANDRA, Bhagat Pravin (AM 180); b. June 26, 1963; Dip (Mech.); Inspector; Office: Legal Metrology, Brack No. 16, Old Dissilory, Commission Office Compond, Nasik Road-422 110; Home: P.R. Bhagati 12, Bramcharya, Sriram Nagar, Vinay Nasgar, Nasik-422 006; [Tel.: 0253-2455696, 2597508; Fax: 0253-2462366; E-mail: pravinbhagat2410@redifmail.com].

Assoc. Member Raveesha, N. (AM 155); b. Dec. 31, 1969; B.E.(Civil); Inspector of Legal Metroogy; Office: Dept. of Legal Metrology, Govt. of Karnataka, Jayanog Sub Division, Bangalore; [M.: 09008247131; E-mail: raveesh1969@gmail.com].

Assoc. Member RAWAT, Kaushal Singh (AM 168); b. May 6, 1965; B.A.; Sr. Inspector; Office: Legal Metrology, Haridwar; Home: Rishikul Asram, Haridwar (Uttarakhand); [M.: 09410333425].

Assoc. Member Saseendran K.V. (AM 162); b. April 27, 1965; B.Ed.;

Assist. Controller; Office: Manjeri Malapuram, Kerala, Home: Akkalath (H) Macicheri, payyanvr. Kanpur, Kerala; [M.: 09961486768].

Assoc. Member Sharma, Hanuman Sahai (AM 170); Feb. 2, 1955; M.Sc. (Math); Office: Inpector Legal Metrology, District Industries Centre, Jaipur (Rural); Home: Ka-9, Shri Ram Colony, Ramnagar Sodala, Jaipur; [Tel.: 0141-2294675].

Assoc. Member SHARMA, Kush Ram (AM 181); b. April 05, 1959; Matric; Inspector; Office: Inspector Legal Metrology (W&M), Solan Circle, Solan; Home: Happy Flower Cottage, Jawahar Colony Bhatta, Kuffer Sanauli, Shimla-171 006 (Himchal Pradesh); [Tel.: 09129068401].

Assoc. Member SINGH, Kumar Neeraj (AM 154); b. June 27, 1972; M. Phill; Geology Assistant Controller; Office: U.P. 116, Civil Lines, Agra (UP); [E-mail: Kumar271a@gmail.com].

Assoc. Member SINGH, Laitonjam Nripendra (AM 179); b. March 1, 1957; B.Sc.; Spl. (BTC-LM); Asstt. Controller; Office: Uripok Khoisnam Leikai, Imphal West, Manipur-795 001; [M.: 09436840251; E-mail: nripendlaitonjam@gmail.com].

Assoc.Member SINGH, Pritpal (AM 173); b. Feb. 08, 1975; Diploma (Mech) SBTE; Office: Legal Metrology, Abohar District, Firozpur, Punjab, 2A-70, Janata Nagar Dhuri, Sangrur, Punjab; [M.: 09814017696].

Assoc. Member **SOLANKI, C.L. (AM 169)**; b. Jan. 02, 1952; M.Sc.; *Office: Inpector Legal Metrology, District Industries Centre Pali, Rajasthan , 250, Janta Colony, College Road , Pali (Marwar), Rajasthan; [Tel.: 02932 220490].* 

Assoc. Member SRIVASTAV, Saurabh Kumar (AM 176); July 05, 1976; B.Sc.; Inspector; Office: Dept. of Weigt &

Measures, C.G. State; Home: Mangal Road, Near Punchmukhi Hanuman Mandir, Vill. & IPO Mangla, Dist, Bilaspur (C.G.)-495001; [M.: 09752684686].

Assoc. Member SUMER, F.F. (AM 156); B. Tech (Mech.); Inspector of Legal Metrology; Office: Jaintia Hills, Distt. Jowai, Meghalaya; [M.: 09436106187].

Assoc. Member SUNDARI, B. Gopi (AM 167); b. Sept 25, 1957; Diploma (Labour laws); Asstt. Controller; Sp.: Weights and Measures; Office: ACLM, Commission of labour D.M.S. Complex, Teynampet, Chennai-600 006; [Tel.: 044-24321438].

Assoc. Member THAKUR, Gopal Singh (AM 158); b. July 01, 1957; B.Com.; Weights & Measures; Office: Jawopur Market Parking, Bhilai Power House Durg, Home: Thakur Villa, main road New Rajendra Nagar, Raipur, Chhattisgarh; [Tel.: 0771-2413635].

Associ. Member **TSUKNUNG AO (AM 164)**; b. April 3, 1954; B.A.; Joint Controller; *Office: Legal Metrology & Consumer Protection, Nagaland, Kohima; [M.: 09402433654].* 

Assoc. Member **TYAGI, Raj Kumar (AM 152)**; b. July 2, 1960; M. Phil (Maths); Dy. Director; Office: Regional Reference Standard Lab. 1491DC, Vatva Industrial Estate, Ahmadabad-382445; [E-mail: rktyagi\_dd@yahoo.co.in].

Assoc. Member Umasankar M.S. (AM 163); b. March 23,1964; B.Sc. (Maths); Assistant Controller; Office: Dept. of Legal Metrology, Ernakulam-691 012, Kerala [M.: 09495167760].

Assoc. Member VISHWANATHAN, G. (AM 174); b. Jan. 31, 1962; M.Sc. (Maths); Inspector; Office: Cirlce III, 6, Balu Pillai Colony, Mannarpuram, Trichurapalli-620020, Tamil Nadu; [M.: 09443447269]

Assoc. Member YADAV, N.K. (AM 177); b. April 22, 1955; B.A., LLB; Asstt. Controller; Office: Controller Legal Metrology, Bhopal M.P.; Home: Kunjan Nagar Phase II, Hoshangabad Road, Bhopal M.P. [Tel: 09425373126; Fax: 07552768638; E-mail: nkyadav2204@yahoo.in].

## STUDENT MEMBERS

ABHILASHA, Nandini (SM 181); b. July 01, 1990; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09038421272; E-mail: hinandini09@gmail.com].

Stud. Member

ACHARJEE, Arghya Kamal (SM 111); b. Oct. 24, 1992; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9547113214; E-mail: arghyakamalacharjee@gmail.com].

Stud. Member

**ALI, SK Tanjil (SM 136)**; b. Aug. 04, 1990; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09051936572]*.

Stud. Member

**BABU**, **D.V. Anand (SM 38)**; b. June 20, 1990; BE (Mech); *S.K.P. Engineering College, Tiruvannamalai- 606 611*, *Tamil Nadu; [M.: 9962172603; E-mail: dvanandbabu@gmail.com, ]*.

Stud. Member

**BALAJI, L. (SM 03)**; b. Feb. 08, 1991; B.E. (Mech); College: *S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; [Tel.: 0461-2334321; M.: 09489291541].* 

Stud. Member

**BALAJI, P. (SM 17)**; b. June 17, 1992; B.E. (Mech); *S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu.* 

Stud. Member

BANERJEE, Aishwarya (SM 64); b. Jan. 03, 1990; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: aishwarya\_lone@liv.in].

Stud. Member

**BANERJEE, Aritra (SM 124)**; b. Oct 10, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152*; [M.: 9681627948; E-mail: aritra.banerjee766@gmail.com].

**BANERJEE, Ayon (SM 154)**; Feb. 05, 1990; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152*; [M.: 09830122434; E-mail: ayon5000@gmail.com].

Stud. Member

BANERJEE, Debapriya (SM 178); b. Feb. 12, 1990; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9330831750; E-mail: queendebopriya@gmail.com].

Stud. Member

**BANDYOPADHYAY, Amlan (SM 60)**; b. July 15, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152*; [Tel.: 9748447402; E-mail: amlan.banerjee.90gmail.com].

Stud. Member

**BASU, Gaurab (SM 59)**; b. April 10, 1987; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 9748489818; E-mail: gbgotorglory@gmail.com]*.

Stud. Member

**BASU, Upasana (SM 170)**; b. May 10, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9674117709; E-mail: upasanabasu10@gmail.com].* 

Stud. Member

Bhattacharjee, Abhijeet (SM 129); b. May 15, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9038655587; E-mail: krazykid.abhijeet@gmail.com].

Stud. Member

BHATTACHARJEE, RUBEL (SM 80); b. Feb. 02, 1989; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: 1989rubel@gmail.com].

Stud. Member

BHATTACHARYA, Rajdip (SM 165); b. June 09, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9674834323; E-mail: rajdipkane@yahoo.in].

BHATTACHARYA, Rituparna (SM 193); b. May 19, 1992; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 098303516420 E-mail: ritu.bhatta10@gmail.com].

Stud. Member

BHATTACHARYA, Sohela (SM 95); b. Sept. 13, 1992; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9432097503].

Stud. Member

BHATTACHARYA, Sylvia (SM 120); b. March 19, 1991; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.:9038875311; E-mail: bhattacharya.sylvia@gmail.com].

Stud. Member

BHOUMIK, Rajkumar (SM 144); b. Jan. 01, 1989; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 973435002; E-mail: rajkumarbhoumik@gmail.com].

Stud. Member

**BHUNAI, Suvrojoti (SM 188)**; b. Nov. 28, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9903789434; E-mail: suvrojotiB274@gmail.com].* 

Stud. Member

**Biswas, Megha (SM 99)**; b. Oct. 09, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9748171150; E-mail: adorable\_megs97@yahoo.co.in].* 

Stud. Member

**BIWAS, Subhra Kanti (SM 148)**; b. Oct. 26, 1989; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mal: guitarmaniac89@gmail.com]*.

Stud. Member

**BOOPATHI, D (SM 44)**; b. May 20, 1991; BE (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; Home: Adaiyur Vill 684 Street Tiruvannamalai-606 611; [E-mail: boopathid124@gmail.com, Mob:9751482706]

CHAKRABORTY, Arindam (SM 182); b. Oct. 02, 1990; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: drinkdeep.ac@gmail.com].

Stud. Member

CHAKRABORTY, Debasis (SM 77); b. Aug. 15, 1989; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: debashis405@gmail.com].

Stud. Member

CHAKRABORTY, Saurabh (SM 133); b. Feb. 01, 1992; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: saurabh01@gmail.com].

Stud. Member

CHAKRABORTY, Shreyosi (SM 169); b. Nov. 16, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 8002856740; E-mail:sshreyasi.c@gmail.com].

Stud. Member

CHAKRABORTY, Soham (SM 147); b. Aug. 16, 1990; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09830388084; E-mail: netsurferpro@yahoo.in].

Stud. Member

CHAKRABORTY, Swati (SM 130); b. March 10, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: swatiprat@rediffmail.com].

Stud. Member

CHATTOPADHYAY, Ashistarv (SM 191); b. Nov. 18, 1991; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09641724600; E-mail: ashistaru.com@gmail.com].

Stud. Member

CHATTERJEE, Chandralekha (SM 173); b. April 12, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09831595247; E-mail: chandralekha04@gmail.com].

CHAUDHURI, Jhelum Ray (SM 159); b. Feb. 12, 1992; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9051670160; E-mail: jhelum4u@gmail.com].

Stud. Member

**CHAUDHARY, Aryakanya (SM 177)**; b. March 23, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09477481123, E-mail: aryakanyachoudhary@gmail.com].* 

Stud. Member

**DAS, Abhi (SM 160)**; b. Nov. 30, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: dasabhi30@gmail.com].* 

Stud. Member

DAS, Aloke (SM 114); b. June 06, 1991; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: Daloke85@rediffmail.com].

Stud. Member

**DAS, Anwesha (SM 102)**; b. Feb. 11, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9038135134; E-mail: anwesha.das.119@gmail.com].* 

Stud. Member

**DAS, Arunava (SM 61)**; b. Oct. 02, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152;* [Tel.: 033-24361285; M.: 9433411383].

Stud. Member

**DAS, Nirnoy (SM 179)**; b. May 21, 1991; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09831322782; E-mail: nirnoydan@gmail.com].* 

Stud. Member

**DAS, Pallabi (SM 150)**; b. Sept. 11, 1990; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 8902646201; E-mail: paglipallabi@gmail.com]* 

**DAS, Priyanka (SM 174)**; b. June 29, 1992; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 099038447119; E-mail: priyanka.d119@yahoo.com]*.

Stud. Member

**DAS, Rajesh (SM 166)**; b. Feb. 03, 1992; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09231630171; E-mail: Rajeshdas066@gmail.com]*.

Stud. Member

Das, Rangana (SM 131); b. Jan. 20, 1992; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09051463007].

Stud. Member

DAS, Sandip (SM 107); Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09038324569; E-mail: sandip898186@yahoo.com].

Stud. Member

**DAS, Saptrishi (SM 01)**; B. Tech.; Ill<sup>rd</sup> year Student; Office: 2, Subhash Nagar, 2<sup>nd</sup> By Iane, Dum Dum Cantonment, Kolkata-700 065.

Stud. Member

**DAS, Sonhita (SM 83)**; b. Oct. 30, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09230359024; E-mail: sonhitadas@gmail.com].* 

Stud. Member

**DAS, Sreetama (SM 105)**; b. June 12, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 7278745810; E-mail: sreetama.nsec1014@gmail.com]*.

Stud. Member

**DAS, Soumik (SM 73)**; b. Dec. 25, 1991; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700* 152; [Tel.: 033-24361285; mikdas.das@gmail.com].

Stud. Member

**DAS, Tuhin (SM 142)**; b. Sept. 05, 1990; B. Tech.;

Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9635208516; E-mail: tuhingnx@gmail.com].

Stud. Member

**DAS, Poulomi (SM 184)**; b. Sept. 15, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09038696508; E-mail: 15.perfect.pop@gmail.com].* 

Stud. Member

**DASGUPTA, Abishek (SM 78)**; b. Nov. 11, 1991; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: abhishek199157@yahoo.com]*.

Stud. Member

**DASGUPTA, Abhrajyoti (SM 168)**; b. Oct. 02, 1991; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 7602153969; E-mail: nightcreaterx8@gmail.com]*.

Stud. Member

**DEBNATH, Samosree (SM 189)**; b. Sept. 04, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9674845973; E-mail; sizzlingsamosree@gmail.com]*.

Stud. Member

**DEEBAN, N (SM 40)**; b. Sept, 23, 1991; BE (Mech); S.K.P. Engineering College, Tiruvannamalai-606611, Tamil Nadu; Home: 1/585, Kamaraj Nagar, Kannarpalaya, Karamadai, Coimbatore- 641101, Tamil Nadu.

Stud. Member

**DEVA, Asit Krishna (SM 117)**; b. March 10, 1991; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09804051347; E-mail: asitdeva@gmail.com]*.

Stud. Member

DHAL, Shyama Pada (SM 180); b. May 21, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09932370799].

**DIPAYAN, H (SM 57)**; b: May 24, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 095631174484; E-mail: diplu@india.comalder].* 

Stud. Member

**DUTTA, Prity (SM 143)**; b. Sept. 20, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 081010851200 E-mail: prity.thecutegirl@gmail.com]*.

Stud. Member

**DUTTA, Indranil (SM 145)**; b. Jan. 14, 1987; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [E-mail: indranil.dutta321@gmail.com]*.

Stud. Member

**DUTTA**, **Sanjay Kumar (SM 163)**; b. Jan. 05, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09614928741; E-mail: Sanjaydutta60@gmail.com].* 

Stud. Member

**ELANGOVAN, B (SM 04)**; b. Sept. 28, 1991; BE (Mech); *S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; Home : 35/2 Krishna Doss Main Road, Mangalapuram, Perambur, Chennai-600 012; [M.: 9043684544; E-mail: Elangovan 136gmail.com].* 

Stud. Member

**GANESH, K (SM 41)**; b. March 10, 1991; BE (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; Home: No. 05, Vimalapuram, 3<sup>rd</sup> Street, Manali; [M.: 9677156603; E-mail: ganesh\_bmw@yahoo.com].

Stud. Member

GANGOPADHYAY, Ipsita (SM 104); b. Dec. 20, 1990; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09874353292; E-mail: ipsita1990@gmail.com].

Stud. Member

**GHOSH, Arup (SM 137)**; b. Sept. 06, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9136248090; E-mail: ithearup@gmail.com].* 

**GHOSH, Kaustav (SM 158)**; b. Aug. 14, 2011; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9831111418; E-mail: bhuto\_3000@yahoo.co.in].* 

Stud. Member

**Ghosh, Titir (SM 90)**; b. Aug. 14, 1992; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: titir@14gmail.com].

Stud. Member

GHOSH, Srijit (SM 149); b. Jan. 16, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9051583717; E-mail: srijit16thmay@gmail.com].

Stud. Member

GHOSH, Souvik (SM 125); b. Nov. 11, 1989; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 8017462496; E-mail: souvik-ghosh49@gmail.com].

Stud. Member

**GUHA**, **Arnab (SM 52)**; b. Nov. 08, 1989; B.E. (Mech.); *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09874986395; E-mail: guha.arnab89@gmail.com].* 

Stud. Member

**GUPTA, Shukla (SM 84)**; b. Aug. 27, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: shukla4u007@gmail.com].* 

Stud. Member

**HAIT, Milan (SM 152)**; b. March 13, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152. [M.: 09163180886; E-mail: milan.nsec@gmail.com]*.

Stud. Member

HALDER, Chiranjit (SM 88); b. April 01, 1991; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9832969603; E-mail: Chiranjit.halder@gmail.com].

HALDER, Ritesh Kumar (SM 153); Dec. 03, 1992; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09007947759; E-mail: hrehu312@gmail.com].

Stud. Member

HARIPRASAD, N. (SM 05); b. Oct. 29, 1991; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; Home: 366, Prasad Nivas, Pound Street, Muthurmapatti, Virudhunagar-626 001, Tamil Nadu; [Tel.: 0456228941; M.: 08056766041].

Stud. Member

HARISHANKAR, B (SM 06); b. May 03, 1992; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai - 606 611, Tamil Nadu; [M.: 09994072561].

Stud. Member

**HUSSAIN**, **Shadab (SM 110)**; b. July 24, 1992; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 8013257916; E-mail: Shadab.Hussain1992@yahoo.com]*.

Stud. Member

**JAGADEESH, S.D. (SM 27)**; b. July 27, 1991; B.E. (Mech); *S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; [M.: 09789559896; E-mail: sdjagadeesh@gmail.com].* 

Stud. Member

JAGANNATH, D. (SM 07); b. March 01, 1992; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; [M.: 09655504028].

Stud. Member

Kanungo, Debanjan (SM 69); b. Nov. 18, 1990; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 0943211320; E-mail: debanjan.kanurago@yahoo.com].

Stud. Member

KARMAKAR, Subrata (SM 89); b. Oct. 16, 1990; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9674225978; E-mail: subrata610@gmail.com].

KAR, Chiranjit (SM 135); April 15, 1991; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 08100947134; E-mail: chiranjit.netajit@gmail.com].

Stud. Member

KARTHIKEYAN, D. (SM 20); b. June 05, 1988; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai- 606 611; Tamil Nadu.

Stud. Member

KARTHIKEYAN, G. (SM 08); b. June, 22, 1991; B.E. (Mech). S.K.P. Engineering College, Tiruvannamalai - 606 611, Tamil Nadu; Home: 618, Vinayagar, Koil Street, Chinnakayampattu (V), Pakkiripalayam Post, Thiruvannamalai-606 709 Tamil Nadu; [M.: 9787159174].

Stud. Member

KARTHIRAJA, S. (SM 09); b. June 05, 1992. B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; Home: 87/70A Bharathi Nagar, Tirupattur Vellore, Tamil Nadu-836 601.

Stud. Member

KHATUN, Yasmin Ara (SM 140); b. May 26, 1990; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09804416832; E-mail: yasminarakhatun@gmail.com].

Stud. Member

KIRAN, U. (SM 10); b. Feb. 11, 1991; B.E. (Tech).; S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; Home: Udaya Bhavan, Cherukunnam, Kurathikad (P.O.) Mavelikara, Alleppy, Kerala-690 104 [E-mail: kiranu42@gmail.com].

Stud. Member

**KOLE, Souraka** (SM 98); b. April 15, 1993; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09749335667; E-mail: souraka.kale@gmail.com]*.

Stud. Member

KOLEY, SUVAM (SM 79); b. March 26, 1990; B. Tech.; Netaji Subhash Engineering College, Techno City,

Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: koley1990@gmail.com].

Stud. Member

KUMAR, Anu Joyi (SM 68); b. Sept. 11, 1988; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09830555450,; E-mail: joyikumarau@yahoo.in].

Stud. Member

Kumar, Avnit (SM 101); b. Dec. 11, 1988; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285].

Stud. Member

KUMAR, D. Sharath (SM 46); b. June 14, 1991; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; [M.: 09790105061; E-mail: sarath mech14@gmail.com].

Stud. Member

KUMAR, M. Dhinesh (SM 21); b. April 15, 1989; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai -606611, Tamil Nadu; Home: Pudumannai (Viii) Kolakkaravadi (Post) Tiruvannamala (Dist.); [M.: 09629271752].

Stud. Member

KUMAR, M.K. Arun (SM 39); b. March 25, 1991; B.E. (Mech). S.K.P. Engineering College, Tiruvannamalai -606 611, Tamil Nadu; Home: 41/42, Sannathi Street, Nellore Pet, Gudiyatham, Vellore-632 602, Tamil Nadu.

Stud. Member

KUMAR, Mohinish Skakthi (SM 13); b. Nov. 29, 1991; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; Home: 117/a, Vedaputhupatty, Annanji Post Theni Dist.-625531, Tamil Nadu; [M.: 0915968208; E-mail: abhichinnu29gmail.com].

Stud. Member

**KUMAR, Prashant (SM 186)**; b. June 22, 1991; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152;* [M.: 09681992400; E-mail: prashantkumar2206@gmail.com].

**KUMAR, Prathajit (SM 185)**; b. Aug. 13, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09681992400; E-mail: parthajitdutta\_2007@rediffmail.com]*.

Stud. Member

KUMAR, P. Sathish (SM 45); b. Jan 29, 1991; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai - 606 611, Tamil Nadu Home: 45/19, Somavara Kula Steet, Tiruvannamalai-606 601; [M.: 07845652948; E-mail: satishkumarmech90gmail.com].

Stud. Member

**KUMAR, P. Vinoth (SM 51)**; b. April 10, 1991; B.E. (Mech); *S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; Home: 868, Pala Street, Valaythur village @ Vellore Dist., Tamil Nadu-632 504.* 

Stud. Memebr

**KUMAR**, **R. Jai (SM 42)**; b. May 05, 1991; B.E. (Mech); *S.K.P. Engineering College, Tiruvannamalai-606 611*, *Tamil Nadu [Tel.: 2277850 E-mail: Jaikumar@.om@qmail.com]*.

Stud. Member

KUMAR, R. Praveen (SM 15); b. Feb. 15, 1989; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu Home: G. Raman, Gunthur (Vill), Thathampatti (PO), Pochampalli, Krishnagir (Tamil Nadu); [Tel.: 9003638/28; Mob: 9750186999; E-mail: Fondpraveen@gmail.com].

Stud. Member

**KUMAR, Sourabh (SM 118)**; b. Jan. 05, 1992; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09674476481; E-mail: Sourab.kmr1992@gmail.com]*.

Stud. Member

**Kumar, Subodh (SM 75)**; b. Feb. 20, 1991; B. Tech, *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: vijaynsec@gmail.com]*.

KUMAR, Sudhanshu (SM 109); b. Feb. 05, 1991; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285].

Stud. Member

**KUMAR, S. Vinod (SM 34)**; b. June 15, 1992; B.E. (Mech); *S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; [ M.: 09360742833].* 

Stud. Member

**KUMAR, Venkadesh P. (SM 24),** b. Sept. 03, 1991; B.E. (Mech); *S.K.P. Engineering College, Tiruvannamalai -606 611, Tamil Nadu; [M.: 09047234090, E-mail: vendesh39gmail.com]*.

Stud. Member

**KUMAR, Vijay (SM 81)**; b. Dec. 17, 1989; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: vijay.nsec@gmail.com]*.

Stud. Member

**KUMARI, Poly (SM 141)**; b. May 08, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 08981580036; E-mail: poly.choudhary@gmail.com]*.

Stud. Member

**KUMARI, Smriti (SM 115)**; b. July 13, 1992; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 08820339185; E-mail: smritikmr2@gmail.com]*.

Stud. Member

**LAKHOTIA, Payel (SM 63)**; b. June 20, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152*; [Tel.: 03582-223374; E-mail: payel.lakhotia@gmail.com].

Stud. Member

MAITI, Debleena (SM 127); b. Dec. 15, 1992; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09674932695; E-mail: maitidebleena@yahoo.in].

MAITY, Abhishek (SM 85); b. June 08, 1989; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: Tel: 033-24361285; E-mail: abhiwakeuptodream@gmail.com].

Stud. Member

MAL, Abhinaba (SM 132); b. May 29, 1991; B. Tech, Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: mal.abhinaba@rediffmail.com].

Stud. Member

MANDAL, Anirban (SM 62); b. May 23, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 24361285/24363333; E-mail: anirbanmandal1991@yahoo.in].

Stud. Member

MANDAL, Anurag (SM 55); b. Nov. 15, 1990; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: (033) 24361285; E-mail: anuragmandal44@yahoo.in].

Stud. Member

MANNA, Ipsita (SM 97); b. Oct. 05, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 098005395840 E-mail: ipsita0510@gmail.com].

Stud. Member

MANIKANDAN, A (SM 12); b. June 21, 1990, B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai - 606 611, Tamil Nadu Home: 8, Mariyamman Kovil Street, Vedimoshiyanur, Tindivanam, Vellupram - 604 306, Tamil Nadu; [M.: 9791683662].

Stud. Member

MARIMUTHU, P (SM 14); b. May, 15, 1988; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai - 606 611, Tamil Nadu; [M.: 956643423; E-mail: Marimuthu819@gmail.com].

Stud. Member

MISHRA, Arpan (SM 92); b. March 13, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City,

Garia, Kolkata-700 152; [M.: 09641040071; E-mail: arpan.misra76@gmail.com].

Stud. Member

MISHRA, Ravi Shankar (SM 87); Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 91-800947182; E-mail: rmravi22@gmail.com].

Stud. Member

MITRA, Aditi (SM 103); b. Dec. 17, 1990; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09231849120; E-mail: adity1790@gmail.com].

Stud. Member

MITRA, Debanjana (SM 162); b. Dec. 15, 1991; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata -700 152; [M.: 09831006642; E-mail: debanjan1512@gmail.com].

Stud. Member

MONDAL, Arindam (SM 123); b. March 10, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09647951670; E-mail: arixox007@gmail.com].

Stud. Member

MONDAL, Phalguni (SM 134); Feb. 14, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09883627363; E-mail: mondalphalguni@rediffmail.com].

Stud. Member

MONDAL, Saikat (SM 155); b. April 05, 1991; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 0343-2562595; E-mail: sakira591@gmail.com].

Stud. Member

Mukherjee, Arpan (SM 74); b. Jan. 01, 1990; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: arpan.mukherjee@rocketmail.com].

Stud. Member

MUKHERJEE, Rupam (SM 76); b. March 11, 1991;

B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: ruptiger@gmail.com].

Stud. Member

**MUKHERJEE, Sabyasachi (SM 112)**; b. July 29, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09163588737; E-mail: sabyasachimukherjee2@gmail.com].* 

Stud. Member

MUKHERJEE, Sukanya (SM 172); b. April 09, 1992; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 08981661343; E-mail: ms.sukanyaD904@rediffmail.com].

Stud. Member

MUKHOPADHYAY, Sombudha (SM 156); b. Dec. 11, 1989; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09883416561; E-mail: fabsagi@gmail.com].

Stud. Member

NAGA, Reetoja (SM 121); b. Sept. 17, 1989; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.; 9433579365; E-mail: rnag579@gmail.com].

Stud. Member

NAGUMDER, Rajashi (SM 157); b. Dec. 18, 1989; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9433466995; E-mail: RajashiNagumder@gmail.com].

Stud. Member

**NATH, Mintu (SM 108)**; b. July 02, 1992; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: Mintu.Nath1992@yahoo.com]*.

Stud. Member

**PAL, Abhishek (SM 151)**; b. April 14, 1992; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09874741468; E-mail: xperienceabhishek92@gmail.com].* 

**PAL, Aniruddha (SM 139)**; b. Aug. 14, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09804252854; E-mail: palaniruddha.31@gmail.com]*.

Stud. Member

**PANDA, Srijita (SM 100)**; b. July 17, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 094747158590 E-mail: srijita.panda@gmail.com]*.

Stud. Member

**PANDEY, Arunima (SM 67)**; b. June 11, 1990; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09883013810; E-mail: arunimapandey11@gmail.com].* 

Stud. Member

**PANDIT, Suraj Kumar (SM 164)**; b. May 02, 1992; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09883582510; E-mail: surajkumar.051992@gmail.com]*.

Stud. Member

**PAUL, Shantanu (SM 146)**; b. June 18, 1992; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09836958886; E-mail: boss.addicted@gmail.com]*.

Stud. Member

**POOJA (SM 116)**, Sept. 16, 1992; B.Tech, *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09681532275; E-mail: pooja.parul.piyush@gmail.com]*.

Stud. Member

PRABHAT, Sristi (SM 113); b. Sept. 09, 1991; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 08820111940; E-mail: sristy91@gmail.com].

Stud. Member

**PRABHU, R (SM 43)**; b. May 05, 1991; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu, 5/146-A Kaliyamman Kovil Street, Nilavarapatty, Salem (Dist.) Tamil Nadu.

**PRANIT, Abhishek (SM 53)**; b. Aug. 08, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 0 9681126002; E-mail: abhishek.pranit@gmail.com]*.

Stud. Member

PRASSATH, E. (SM 37); b. May 15, 1992; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu [M.: 0805675415; E-mail: maniprasath73@gmail.com].

Stud. Member

**PODDER, Mrinmoy (SM 192)**; b. Jan. 07, 1992; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09836630833, E-mail: sanuee92@gmail.com]*.

Stud. Member

POOVANANTHAN, R (SM 16); b. Aug. 01, 1990; B.E. (Mech). S.K.P. Engineering College, Tiruvannamalai -606611, Tamil Nadu; Home: C. Rangarajan, 1/88 Dillaiyar Kovil St, Metpuludiyur (Post) Chengam, Tiruvannamalai-606 611, Tamil Nadu; [M.: 09225442378].

Stud. Member

PURUSHOTHANAMAN, S. (SM 49); b. Dec. 17, 1990. B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; [M.: 9944919826; E-mail: Purushothmech005@gmail.com].

Stud. Member

**RAJ, PREETY K. (SM 91)**; b. Sept. 13, 1992; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 24361285; E-mail: preetykraj@gmail.com].* 

Stud. Member

RAJAN, R. Sundar (SM 48); b. Jan. 01, 1991; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; Home: 111B/2, West Pondy Road, Valavances-605 108, Pondicherry, Tamil Nadu; [E-mail: sunderson007@yahoo.com].

Stud. Member RAJASEKARAN, B. (SM 33); b. June 02, 1992; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai- 606 611. Tamil Nadu: [E-mail: braiasekaran100@gmail.com].

Stud. Member RAJIV, S. (SM 22); b. Sept. 11, 1991; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; [M.: 9944378880; E-mail: srajiv100@gmail.com].

Stud. Member RAMU, M. (SM 23); b. Jan. 21, 1991; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; [M.: 9789221735].

Stud. Member RAVI, T. (SM 36); b. Dec. 05, 1990; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; [M.: 09688941709; E-mail: Kumar.travil19@gmail.com].

Stud. Member RAY, Soumyadeep (SM 94); b. July 10, 1992; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 91-9433456218; E-mail: ray\_soumyadeep@yahoo.com].

Stud. Member ROY, Alolika (SM 106); b. July 11, 1992; B.Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: royalolika@yahoo.in].

Stud. Member ROY, Animesh (SM 54); b. Nov. 15, 1990; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 8013470914; E-mail: animeshroy1437@gmail.com].

Stud. Member ROY, Ranjan Kumar (SM 71); b. Nov. 05, 1989; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9903658863; E-mail: mr.roy\_4u@rediffmail.com].

Stud. Member ROUSHAN, Subrato (SM 82); b. Sept. 25, 1990;

B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285].

Stud. Member

ROY, Mritunjay Kumar (SM 56); b. July 22, 1992; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9433524206; E-mail: mriroy.mritunjay@gmail.com].

Stud. Member

**RUDRA, Soubhik (SM 72)**; b. Nov. 05, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9874790946; E-mail: soubhikrudra@yahoo.in]*.

Stud. Member

**SAHA, Debajyoti (SM 70)**; b. July 17, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 2436-1285; E-mail: Techno90debajyoti@gmail.com].* 

Stud. Member

**SAHA, Debashish (SM 194)**; b. March 03, 1990; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9749227379; E-mail: debashish4youall@gmail.com]*.

Stud. Member

**SAMANTA, Sucheta (SM 119)**; b. Jan. 20, 1992; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9046956366; E-mail: Samanta.Sucheta8@gmail.com].* 

Stud. Member

**SAMANTHA, Abhishek (SM 02)**; June 18, 1991; B.E. (Mech); *S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; [M.: 8903501721; E-mail: abhishekmnt18@gmail.com]*.

Stud. Member

**SANYAL, Hashimita (SM 176)**; b. Jan. 12, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail:hsprinters1@gmail.com]*.

**SANYAL, Pranoy (SM 93)**; b. March 18, 1992; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9903146835; E-mail:prokuowsbest@gmail.com, ].* 

Stud. Member

**SARDAR, Avijit (SM 138)**; b. March 21, 1991; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9804148090; E-mail: avijitthegunner@gmail.com]*.

Stud. Member

**SARKAR, Ashmita (SM 122)**; b. Dec. 10, 1991; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 8981831203; E-mail: guria48@gmail.com*].

Stud. Member

**SARKAR, Kunal (SM 126)**; b. Aug. 22, 1992; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 8981708489; E-mail: babua\_sarkar@yahoo.com].* 

Stud. Member

**SARKAR, Sangita (SM 128)**; b. Sept. 16, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9874642887; E-mail: sarkar\_eie@ymail.com]*.

Stud. Member

**SATHISH, K. (SM 29)**; b. Jan. 05, 1990; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu.

Stud. Member

**SENGUPTA, Karanjit (SM 86)**; b. Aug. 17, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: rmravi22@gmail.com]*.

Stud. Member

**Sengupta, Ritwika (SM 183)**; b. Oct. 14, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152*; [ Tel.: 9836022789; E-mail: ritwika.14sengupta@gmail.com].

**SENGUPTA**, **Sourav** (**SM 96**); b. Aug. 23, 1991; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia*, *Kolkata-700 152*; [*M.: 8981428062*; *E-mail: sourav9291@gmail.com*].

Stud. Member

**SENGUPTA, Smita (SM 58)**; b. Nov. 28, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152;[Tel.: 0621-2281443; E-mail: aradhana.sengupta19@gmail.com].* 

Stud. Member

**SHAIKH, Asif (SM 190)**; b. April 05, 1992; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9153565755; E-mail: sheikh.asif.asif1@gmail.com].* 

Stud. Member

**SHAMS, Shafia (SM 171)**; b. Sept. 11, 1992; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 8981661343; E-mail: superbshafia1109@gmail.com]*.

Stud. Member

**SHAMIULLAH, M. (SM 35)**; b. Nov. 09, 1991; B.E. (Mech); *S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; [M.: 9677334777]*.

Stud. Member

**SHANKAR, Shiv (SM 65)**; b. June 12, 1990; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-2436185; E-mail: shivshankar12061990@gmail.com].* 

Stud. Member

SHREE, Shikha (SM 161); b. Nov. April 21, 1991; B. Tech.; Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 09234879497; E-mail:shree14@yahoo.com].

Stud. Member

**SINHA, Prakash Kumar (SM 187)**; b. Dec. 09, 1991; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 8100947399; E-mail: sinha.pks.pk@gmail.com]*.

Stud. Member

SIVAPRAKASAM, A (SM 19); b. June 12, 1991; B.E. (Mech) .; S.K.P. Engineering College, Tiruvannamalai - 606 611, Tamil Nadu; Home: Sukkampaliayam Village, Katampoondi Post, Thiruvannamalai-606 808, Tamil Nadu; [M.: 9655763476].

Stud. Member

**SUMAN, Saurabh (SM 66)**; b. Oct. 09, 1990; B.Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [Tel.: 033-24361285; E-mail: saurabhsuman0911@gmail.com]*.

Stud. Member

**SUNDARAM, S Shanmuaga (SM 32)**; b. Sept. 03, 1992; B.E. (Mech); *S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu.* 

Stud. Member

**SUNIL, I. Mazhar (SM 11)**; b. July 07, 1992; B.E. (Mech). *S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; Home: 40/8 Sarban Medu, Maratha Street, Vellore-632 012 [Tel.: 0416 2234545; M.: 8973454277; E-mail imsrevange@gmail.com].* 

Stud. Member

**Tewary, Souvik (SM 167)**; b. Sept. 08, 1991; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9038326991; E-mail: souviktewary@gmail.com]*.

Stud. Member

**THAKUR, Angana Das (SM 175)**; b. March 25, 1993; B. Tech.; *Netaji Subhash Engineering College, Techno City, Garia, Kolkata-700 152; [M.: 9874091565; E-mail: WEBLOB@gmail.com]*.

Stud. Member

**THAMILSARASU, P. (SM 30)**; b. Feb. 27, 1992; B.E. (Mech).; *S.K.P. Engineering College, Tiruvannamalai -606 611, Tamil Nadu*.

Stud. Member

THIRUVENGADAM, P. (SM 50); b. Jan. 12, 1991; B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai -606 611, Tamil Nadu; Home: No. 09, Vaniyar Street, Vandavasi, Tiruvannamalai (Dist.) Vardavasi; [M.: 9790643970; E-mail: thiru.vsi@gmail.com].

Stud. Member VIGNESWARAN, B. (SM 31); b. June 01, 1990; B.E.

(Mech); S.K.P. Engineering College, Tiruvannamalai- 606

611, Tamil Nadu.

Stud. Member VIJAYAKUMAR, K. (SM 18); b. April 08, 1991; B.E.

(Mech); S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; [E-mail: K.Vijaykumar856@qmail.in].

Stud. Member **VENKATESH S. (SM 47)**; b. Nov. 15, 1990; B.E.

(Mech). S.K.P. Engineering College, Tiruvannamalai- 606 611, Tamil Nadu; [Tel.: 9790537437; E-mail:

kuttirenkimech14@gmail.com].

Stud. Member VIVEKANANDHAN, R. (SM 26); b. Sept. 17, 1991;

B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai -606 611, Tamil Nadu; [Tel.: 8093830131; E-mail:

Machvivek17@gmail.com].

Stud. Member VIZHIVENDHAN, L. (SM 25); b. June 04, 1992;

B.E. (Mech); S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu; [M.: 9791412043; E-mail:

Vizhid@gmail.com].

Stud. Member YESURAJ, D. (SM 28); b. June 07, 1992; B.E. (Mech);

S.K.P. Engineering College, Tiruvannamalai-606 611, Tamil Nadu: [M.: 9751101581: E-mail:

rajyesu43@gmail.com].

# List of Members whose details are not known

Hon. Fellow	HF 011	SIROHI, R.S.
Hon. Fellow	HF 012	MCQILLAN, Stephen
Fellow	F 014	SEN, B.N.
Fellow	F 015	DAS, S.R.
Fellow	F 017	MALANI, G.D.J.
Fellow	F 040	CHANDRA, Suresh
Fellow	F 046	BUBANE, Shreyans Narayana Rao
Fellow	F 054	SCHOONOVER, R.M.
Fellow	F 059	KUMARASWAMY, M. P.
Fellow	F 061	NAYAK, U.P.
Fellow	F 076	WOKOT-UMA, Rogers
Fellow	F 091	MUKUTMONI, M.
Fellow	F 094	SCHEMBRI, Joseph
Fellow	F 095	JISCHA, Ing Michael
Fellow	F 119	SURYANARAYANA, N.V.
Fellow	F 121	SHARMA, Ashutosh
Fellow	F 144	BHATIA, S.M.
Fellow	F 162	RAY, Amal Kumar

Fellow	F 163	JAIN, R.K.
Fellow	F 170	MEDIRATTA, V. K.
Fellow	F 174	CHAKRABARTY, A.K.
Fellow	F 186	RAJNISH, Prakash
Fellow	F 187	HEGDE, Shoba (Ms)
Fellow	F 189	SINGH, Amrik
Fellow	F 193	SARPAL, A.S.
Member	M 021	RAM, Gurmej
Member	M 114	BHATIA, M.R.
Member	M 115	ROBERT, Opolot John
Member	M 123	CELESTINE, Charles H.
Member	M 145	SINGH, Ghasita
Member	M 191	SINGH, Harikesh
Member	M 210	VIRDI, S.S.
Member	M 258	BORODOLOI, R.P.
Member	M 262	VARGHESE, Kurain;
Member	M 364	MASCARENTHAS, C. Leo
Member	M 341	SHARMA, Ashok Kumar
Member	M 343	SHARMA, Vinod

Member	M 345	PONNIAH, M. David
Member	M 372	DATTARAM, Manohar Redkar
Member	M 373	MURTHY, L. Srinivasa
Member	M 374	GOYAL, Rajnish
Member	M 376	SINGH, Madan
Member	M 398	DAKSHINAMURTHY, C.S.
Member	M 406	KANNAN, T.R.
Member	M 419	MADANGOPAL, A.V.
Member	M 421	SESHASAYAN, K.
Member	M 423	PAUL, A.K.
Member	M 427	VEERAGHAVAN, V.S.
Member	M 430	ANANTH, M
Member	M 439	SRINIVASA, N.
Member	M 444	VEERARAGHAVAN, R.
Member	M 458	SOMAN, Biju
Member	M 469	GURUNATH, M. N.
Member	M 479	SEETHARAMARAO, T.
Member	M 482	VIJAY, Kumar P.
Member	M 499	VENKATARAMANI, N.

Member	M 499	VENKATARAMANI, N.
Member	M 505	PARASURAMAN, Gopal Krishan
Member	M 514	CHOPRA, Anil
Member	M 523	ARORA, Sunita (Ms)
Member	M 527	SHARMA, Shashi (Ms)
Member	M 548	RISHI, Swanand Nagesh
Member	M 550	МЕНТА, А.К.
Member	M 560	RAMESH, S.
Member	M 556	SHARMA, Saket
Member	M 654	MOHAMMAD Islam
Member	M 578	PATEL, Yunus V.
Member	M 594	MAHAMED, Anwar
Member	M 595	SRINIVASA, H.
Member	M 603	RAO, T. Ganeshwar
Member	M 627	MOHAMMAD Shahid
Member	M 636	SUDARSAN, B.
Member	M 637	SAILASH Kumar T.
Member	M 639	SIVANANDAN, Sunil
Member	M 640	GURUPRASAD, A.

Member	M 641	RAMESH, M. P.
Member	M 644	CHANDRASEKARAN, G
Member	M 645	SINGH, Shailendra Kumar
Member	M 647	BHARDWAJ, Dinesh
Member	M 655	GURU, Ravindra Nath
Member	M 665	BHASKAR, Yelchuru
Member	M 666	JAYARAM, N.
Member	M 661	TANWAR, S. Kumar
Member	M 676	TANWAR, Gurdial
Member	M 679	PURUSHOTTAM, P. Karandikar
Member	M 681	KIRTI KIRAN, M.N.
Member	M 682	ARABHAVI, M.B.
Member	M 684	REDDY, D. Venkta Ranga
Member	M 685	SINGH, Jasbir
Member	M 687	SINGH, Khem
Member	M 683	SINGH, Gurcharan Jit
Member	M 691	JOSHI, Micky Dushyant
Member	M 692	PREM, Prakash
Member	M 694	RAO, Suresh

Member	M 696	SINGH, Niranjan
Member	M 699	SINGH, Amar
Member	M 700	BHATNAGAR, Anuj Swarup
Member	M 707	PANWAR, V.V.S.
Member	M 710	PUTAMBEKAR, Uday Narayaa
Member	M 712	PUROHIT, Sachin Suhas
Member	M 713	SANDEEP, Kumar
Member	M 714	KUKDE, Sadanand Anant
Member	M 725	KULKARNI, Manohar Mahadeo
Member	M 726	BARMAN, Swapan
Member	M 728	SINGH, Ajay Veer
Member	M 731	RAO, S. Venugopal
Member	M 736	RAMBABU, P.
Member	M 749	MIT TAL, Susheel
Member	M 754	DEVASTHALE, Viraj
Member	M 755	KAPIL, J.C.
Member	M 753	VIRENDRA, Kumar
Member	M 756	SHARMA, Neeraj
Member	M 757	KILETI, Pradeep Kumar

Member	M 758	SAHEBRAO, Kadam Sitaram
Member	M 759	KAMALEKAR, Anandrao Vithoba
Member	M 760	GUPTA, NK
Member	M 761	JOSEPH, Leena (Ms)
Member	M 762	TRIPATHI, Sudesh H.
Member	M 764	SYED, Fazil
Member	M 766	RAMACHANDRA, Iyer Ramank
Member	M 767	PRASAD, Guru
Member	M 768	SHARMA, Diksha (Ms.)
Member	M 771	GOPAN, C.K.
Member	M 774	BADWAIK, Sanjay Raghunathaji
Member	M 776	RAJ, Kuldeep
Member	M 777	PRAKASH, Ved
Member	M 778	PATIL, Rajendra Laxman
Member	M 779	MEENAKSHI, A.S.
Member	M 780	MAJUMDER, Sumit
Member	M 781	DESWAL, Rajesh
Member	M 782	HASIJA, Anirudh
Member	M 783	Mathe, Prema Kumar

Member	M 786	PONRAM, R. Ashok;
Member	M 787	RASHMI
Member	M 784	DUTTA, Samik
Member	M 785	Zanpure, Anuja Mukund
Member	M 788	SINGH, Rajendra
Member	M 789	DAS, Tarit Baran
Member	M 790	KUMAR, Ajay
Member	M 791	SUBAIR, A. Mohamed Abdul Kader
Member	M 793	SAXENA, Mohit
Member	M 794	NAG, Sanjib Kumar
Member	M 795	CHAUHAN, Sippy Kalra
Member	M 796	MUKHERJEE, Souren Kumar
Member	M 797	DASGUPTA, Susovan
Member	M 798	DUTTA, Moumitra Sil
Member	M 799	DAS, Avijit
Member	M 800	BHATTACHARYYA, Debashis
Member	M 801	SARKAR, Susanta
Member	M 802	SIVAGURU, V.
Member	M 803	GHOSAL, Prakash

Member	M 804	GHOSH, Amal Kumar
Member	M 805	CHATTERJEE, Pradip Kumar
Member	M 806	BASU, Samar
Member	M 807	BHATTACHARYA, Shiladitya
Member	M 808	SADHUKHAN, Suvendu
Member	M 809	KANRAR, Surajit
Member	M 810	NASKAR, Shantanu Kumar
Member	M 811	Roy, Ajoy Kumar
Member	M 812	MAHANT, A.K.
Member	M 813	SINGH, Sunil Kumar
Member	M 814	PANYAM, Vinatha Sumanth
Member	M 815	Ravindra, Anuradha
Member	M 816	KULKARNI, D.B.
Member	M 817	Mhatre, Sachin G.V.
Member	M 818	VERMA, Angad
Member	M 820	ANWAR, KM Mostafa Anwar
Member	M 821	KHAN, Mala
Member	M 823	SINGH, Sujit Kumar
Member	M 824	CHOADHARY, Ashim

Member	M 825	RAO, Sudha VM
Member	M 826	MOITRA, Shashi
Member	M 831	AGGARWAL, Shankar Gopala
Member	M 832	Muchhal, Nitin
Member	M 833	Gupta, Kiran
Member	M 834	KAMBOJ, Vivek
Member	M 835	JAIN, Gaurav
Member	M 836	SINGH, Chatar
Assoc. Member	AM 149	SARDAR, Ashwini Kumar Singh
Assoc. Member	AM 150	Sharma, Dalip
Hon. Fellow	HF 012	MCQILLAN, Stephen
Hon. Fellow	HF 013	HOSSAIN M. Kamal

# **RULES AND REGULATIONS**

# 1. Definitions

In the regulations unless the context otherwise requires,

- (a) "Society" means Metrology Society of India.
- (b) "Council" means the Executive Council of the Metrology Society of India.
- (c) "Member" means Honorary Fellow, Fellow, Member, Associate Member, Student Member or Corporate Member of the Metrology Society of India.
- (d) "President", "Vice-President", "General Secretary", "Joint Secretary" and "Treasurer" mean respectively the President, Vice-President, General Secretary, Joint Secretary and Treasurer of Metrology Society of India.

# 2. Registered Office

The registered office of the Society shall be in the N.P.L. premises, Dr. K.S. Krishnan Marg, New Delhi - 110 012.

# 3. Aims and Objects

The Aims and Objects of the Society shall be as stated in the Memorandum of Association.

# 4. Membership

# 4.1 Eligibility

Membership of the Society shall be open to individuals without distinction of sex, race or nationality and to recognised bodies who subscribe to the aims and objects of the Society.

# 4.2 Limit to the number of members

The Society may have unlimited number of members.

# 4.3 Patrons

The Society may have Patrons to further its cause. A Patron shall be an individual with a record of meritorious service to any public cause and shall be enrolled only by invitation of the Council and his prior consent.

A Patron may also be enrolled by virtue of the office he holds, but in such a case, he shall cease to be a Patron when he relinquishes his office.

# 4.4 Classes of Membership

There shall be six classes of membership of the Society namely,

- i. Honorary Fellow
- ii. Fellow
- iii. Member
- iv. Associate Member
- v. Student Member
- vi. Corporate Member

# 4.5 Qualifications

The qualifications for the various classes of membership and mode of enrolment shall be governed by the following guidelines :

# 4.5.1. Honorary Fellow:

Honorary Fellow shall be an individual of outstanding professional distinction in the field of metrology or his/her admission will be conducive to the best interest of the society and shall be enrolled only by invitation of the Council and his prior consent. Such enrolments may not exceed five per year and the total number of Honorary Fellows shall not exceed 5 per cent of the total membership except in the formative stage.

# 4.5.2. Fellow:

An individual who is actively engaged in any field of metrology may become a Fellow by nomination from minimum two existing Fellow Members, one as proposer and second as supporter, provided that he/she satisfies the conditions stated under sub clauses A, B and C of 4.5.2.1

# 4.5.2.1.

# A. Minimum academic qualifications and experience

Α1

 He/she is a post-graduate in any field of engineering or has a Ph.D. degree in science or possesses an equivalent qualification as approved by the Council from time to time and ii. Has been engaged in any field of metrology for at least 15 years.

or

A2

- i. He/she is a graduate in any field of engineering or a postgraduate in science or possesses an equivalent qualification as approved by the Council from time to time and
- ii. Has been engaged in any field of metrology for at least 18 years.

**A3** 

- He/she is a graduate or three years diploma holder or possesses an equivalent qualification as approved by the Council from time to time and
- ii. Has been engaged in any field of metrology for at least 21 years.

And

B. Contribution in the field of Metrology

He/she has made significant contribution in any field of metrology as evidenced by :

- (a) Papers, technical reports, and books published.
- (b) Innovation in design of experiments, instruments or equipment.
- (c) Formation of specification for metrological instruments test methods or products.
- (d) Installation and repair of metrological instruments.
- (e) Design, manufacture and marketing of metrological instruments.
- (f) Teaching of metrology.
- (g) Total quality management.

And/or

C. He/she has acquired such a position in the field of metrology that his/her admission as a Fellow will be conducive to the best interest of the Society.

# 4.5.2.2. The council decides to enroll him/her as a Fellow.

## 4.5.3 Member:

Any individual actively engaged in any field of metrology may become Member on application to the Council provided that

## 4.5.3.1 he/she

- A. i. is Ph.D. in Science/Technology.
  - ii. has been engaged in any field of Metrology.

or

- B. i. is post graduate in Science/Technology.
  - ii. has been engaged in any field of metrology for at least three years.
- C. i. is Graduate or three year Diploma Holder or possesses an equivalent qualification as approved by the Council from time to time.
  - ii. has been engaged in any field of metrology for at least 5 years or
- D. i. has good educational background
  - ii. has 10 years of professional experience inclusive of some significant contribution in the field of metrology viz. research, development & design, planning, manufacture and marketing, repairs and maintenance, quality assurance, teaching and other allied assignment in the profession.
- 4.5.3.2. the Council decides to enrol him/her as Member.

# 4.5.4. Associate Member:

Any individual engaged in any field of metrology may become an Associate Member for period of maximum 5 years on application to the Council provided that

## 4.5.4.1. he/she

A. is a Graduate or three year Diploma Holder or possesses an equivalent qualification as approved by the Council from time to time.

- B. i. has good educational background
  - ii. has 5 years of professional experience in any field of metrology viz. research, planning, development & design, manufacture & marketing, quality assurance, repairs and maintenance, teaching and other allied assignment in the profession.
- 4.5.4.2. The Council decides to enroll him as Associate Member
- 4.5.4.3. Associate membership may be upgraded to the membership after 5 years residency on application and payment of the difference of the subscription.

# 4.5.5. Student Member:

Any individual may become a student member on application to the Council provided that he/she is a student of B.Sc., Diploma, B.E., B.Tech., M.Sc., Ph.D. and has interest in Metrology. Their membership tannure will be limited to their Course duration.

# 4.5.6. Corporate Member :

Any Public or private institution, Govt. Deptt., research laboratory or professional body, academic institution or organisation or firm engaged in activities related to metrology such as measurement standards, calibration, testing standardisaion, quality control, manufacture or supply of any type of measurement standard or a test/measuring instrument or equipment etc. may become a Corporate Member on application to the Council provided that the Council decides to enroll it as a Corporate Member. They shall have the right to nominate its representative for correspondence and vote. They shall have the right to change their nominee any time.

- 4.5.7. An individual, on application may in special case, also be enrolled as Fellow, Member or an Associate Member by virtue of the office he/she held/holds and was/is actively engaged in the field of metrology, provided the Council so decides.
- 4.5.8. The membership of an individual may be upgraded, on application, provided he/she fulfills the qualifications for the class of membership applied for and the Council so decides.

# 4.6. Fee and Subscription

4.6.1. Subscription of Fellows, Members, Associate Members, Student Members and Corporate Members shall be as follows :

Class of	Life Subscription		
Membership	Indian Member	Foreign Member	
	(INR)	(US\$)	
Fellow	2,500	125	
Member	2,000	100	
Associate Member	1,000	50	
Student Member Corporate Member	100 per amnum 10,000	5 per amnum 300	

- 4.6.2. The subscription from Student Member shall be collected for full duration of the course at the time of enrollement. For Ph.D. students, the subscription shall be collected for 3 years. In case, he completes his Ph.D. before 3 years and applies for full membership, the excess subscription paid by him will be adjusted against the subscription applied for full membership.
- 4.6.3. No admission fee or subscription shall be payable by the Patrons and the Honorary Fellows.

# 4.7. Rights & Privileges

- 4.7.1. Rights and privileges of Honorary Fellows, subject to the condition given in clause 4.7.2. of Fellows, Members, Associate Members, Student Members and Corporate Members shall be as follows:
- To be present in General Body meeting of Society,
- ii. To submit proposals to the Society,
- iii. To elect and be elected in any election of the Society,
- iv. To vote in General Body meeting of the Society by a single non-transferable vote,
- v. To use the Library, Information Centre or Museum/Exposition subject to such regulations as prescribed by the Council,
- vi. To attend and to offer papers and communications to be read in the symposia, colloquia, seminars etc. subject to such regulations as prescribed for symposia, colloquia, seminars, etc.,

- vii. To avail of any such facility or concession as may be pre-scribed from time to time by the Council,
- viii. To use, after his/her name, the abbreviated designation of his/her class, during his continuance as member, as follows:

Class of Membership	Abbreviated Designation
Honorary Fellow	Hon. F.M.S.I.
Fellow	F.M.S.I.
Member	M.M.S.I.
Associate Member	A.M.M.S.I.
Student Member	S.M.S.I.
Corporate Member	C.M.M.S.I.

- ix. To resign from the Society provided such resignations are sent to the Council and accepted by it, and
- x. Every Member of any class shall be under obligation to abide by the Memorandum of Association and Regulations of the Society.
- 4.7.2. Honorary Fellows shall have all the above rights and privileges except those given in (iii) and (iv) of clause 4.7.1.
- 4.8. Cessation of Membership
- 4.8.1. A member of any class shall cease to be a member if he/she voluntarily resigns and the Council accepts his/her resignation.
- 4.8.2. A member of any class shall cease to be a member when his/her membership is terminated by the Society for any act which is deemed to be prejudicial to the interest of the Society. However, membership shall not be terminated unless the member is given a reasonable opportunity to explain his/her position in the matter.

No membership shall be terminated unless the Council decides to do so by two third majority of the members present.

# 5. Management of the Society.

5.1. Maintenance of Membership Register

A classwise membership register shall be maintained.

# 5.2. Organization

The Society shall have two main organs namely: (i) General Body, and (ii) Executive Council.

# 5.3. General Body

All the members of the Society irrespective of their class shall constitute the General Body.

# 5.4. Meeting of the General Body

General Body shall meet at least once in a year and shall transact the following business at its annual meeting:

- i. consider and approve the annual report of the Society presented by the General Secretary,
- ii. consider and adopt the Audited Statement of Accounts for the previous year,
- iii. consider the Resolutions and Amendments, referred to it by the Council or by any member of the Society,
- iv. appoint auditors for the ensuing year, and
- v. transact such other business as may be brought forward with the permission of the Chair.

# 5.5. Special General Body Meeting

Special General Body meetings may be called by the President or General Secretary in consultation with the President or it may be requisitioned by one-third of the members of the General Body or fifty members, whichever is less.

# 5.6. Executive Council

5.6.1. Executive Council shall consist of at the most twenty one members out of which sixteen shall be elected members and the remaining five may be co-opted by the Council.

# 5.6.2. Executive Council shall be composed of the following

President	1
Vice-Presidents	2
General Secretary	1
Joint Secretary	1
Treasurer	1
Members	10

- 5.6.3. The Chairmen of the branches established by the Society as per provision of 5.13 shall be ex-officio members of the Executive Council.
- 5.6.4. Executive Council may meet as many times as exigencies demand, however, the Council shall meet at least three times in a year.
- 5.6.5. The tenure of the Executive Council shall be two years.
- 5.7. Election
- 5.7.1. The election of various office bearers of the Executive Council, as stipulated in clause 5.6.1 shall be held once in two years.
- 5.7.2. The election shall be held in the General Body meeting, the agenda for which includes "Election" as a specified item.
- 5.7.3. No candidate shall be entitled to contest for more than one post.
- 5.7.4. The election process shall be conducted and completed by a Returning Officer, duly appointed by the Council, as follows:
- a. The Returning Officer shall issue a notification for the election about three months in advance, announcing details of date and time for:
  - i. filing the nominations in a prescribed form,
  - ii. scrutiny,
  - iii. withdrawals, and
  - iv. elections.
- b. The nomination shall be proposed by one member and seconded by at least two members, all of whom are eligible for voting. The consent of the candidate with his signature and date shall accompany the nomination form which shall be complete in all respects.
- c. Time gap between the last date of filing the nominations and the date of election shall not be less than one month.
- d. A period of fifteen days shall be given for withdrawal of nominations.
- e. The final list of the candidates, after withdrawal along with a complete list of members, a ballot paper bearing a serial number and signature of the Returning Officer for vote, shall be sent to every member at least ten days before the date of election.

- f. Votes can be cast in person or through postal ballots; postal ballots shall reach Returning Officer before the closing time of the election.
- g. The votes cast by the members in person shall be by secret ballot.
- h. Every candidate shall be allowed to authorise one person to be present during the counting process.
- i. The Returning Officer shall, after the completion of counting process, announce the results of election and communicate the same in writing to the Executive Council.
- j. A defeated candidate shall have the right to appeal against an election result within fifteen days after the announcement of the election results. If the Returning Officer finds reasonable merit in the appeal, recounting shall be permitted by him in the presence of the candidate or the person authorized by him. For this purpose, all the votes shall be properly sealed and kept in custody of the Returning Officer for a period of three months.

# 5.8. Quorum

- 5.8.1. The quorum for the General Body shall be 1/5th of the total number of members on rolls or fifty members, whichever is less. In the absence of a quorum the General Body may adjourn for half an hour. Adjourned meeting may then be held which shall require no quorum.
- 5.8.2. The quorum for the Executive Council meeting shall be six members, however, if the quorum is not complete the meeting shall be adjourned for half an hour. Adjourned meeting may then be held which shall require no quorum.

# 5.9. Powers and Functions of the Executive Council

Subject to the provisions of these Rules and Regulations as well as the directions of the General Body at its Annual or Special meetings, the Council shall have all powers to carry on the business of the Society and take necessary action to further the aims and objects of the Society. In addition the Council shall have the following powers :

 to manage all the finances of the Society including the raising of funds and incurring expenditure for special purposes,

- ii. To superintend and coordinate the work of (a) the branches of the Society, (b) Library, (c) Information Centre, (d) Museum/ Exposition, (e) Publications and (f) any other activity of the Society,
- iii. To take legal action in conformity with the provision of the societies Registration Act XXI of 1860 for recovery of any sums or reparations due from members of any class, who after receiving due notice of their liabilities have refused or failed to discharge them,
- iv. to co-opt members as per provision of 5.6.1. and to fill up any vacancies occurring between two successive elections,
- v. to appoint salaried and honorary staff,
- vi. to appoint panels or sub-committees for specific purposes, and
- vii. to do such other things as are conducive to the achievement of the aims and objects of the Society.

# 5.10. Powers and Duties of Office Bearers

# 5.10.1. The President shall

- i. preside over all the meetings of the Council and the General Body,
- ii. have the powers to sanction expenditure incurred for the activities of the Society in any emergency, to be subsequently ratified by the Council, and
- iii. ensure that the records and other affairs of the Society are kept in order.
- 5.10.2. In the absence of the President, one of the Vice-Presidents authorized by the Council, shall exercise all the powers and duties of the President

# 5.10.3. The General Secretary shall

- have the power to convene the meetings of the Council and General Body in consultation with the President, or in his absence the Vice-President,
- ii. prepare the Minutes of the meetings,
- iii. conduct the correspondence,
- iv. present the annual reports and audited accounts to the General Body at its meetings,

- v. file suits on matters relating to or affecting the Society. (All suits against the Society will be filed in the name of the General Secretary).
- 5.10.4. The Joint Secretary shall
- i. assist the General Secretary,
- ii. discharge all such functions as are assigned, from time to time, by the Council, and
- iii. exercise all the powers and discharge all the duties of the General Secretary in his absence, with due authorisation by the Council.

# 5.10.5. The Treasurer shall

- i. be responsible for all sums of money which, from time to time, are received by the Society,
- ii. deposit the money and maintain the accounts in the bank,
- iii. maintain all day to day accounts of expenditure and receipt,
- iv. receive all payments to the Society and make all payments towards the expenditure as sanctioned by the Council,
- v. present the quarterly and annual accounts to the Council, and
- vi. get the accounts audited annually.

# 5.11. Meeting Notices

Notices of at least ten days shall be given for the Executive Council meetings, thirty days for the General Body meetings, fifteen days for special General Body meetings and three months for the General Body meetings in which elections are to be held.

## 5.12. Finances

- 5.12.1. The funds of the Society shall consist of subscriptions, donations, grants and income from other sources.
- 5.12.2. The Society shall have the right to purchase or to take on lease or in exchange, to hire or otherwise, any real or personal property which may be freehold or lease hold or to sell, let out, mortgage, dispose off or turn to account all or any of the property or assets of the Society as may be thought expedient in the interest of the Society.
- 5.12.3. The income and property of the Society, whensoever derived

shall be used solely towards the promotion of the aims and objects of the Society and no portion thereof shall be paid or transferred directly or indirectly by way of dividend, bonus or otherwise howsoever, by way of profit to the members of the Society, provided that nothing herein shall prevent the payment in good faith, or remuneration to any officer or servant of the Society, or to any member of the Society, or other person, in return for any services actually rendered to the Society provided further that no member of the Council shall be appointed to any salaried office or any office paid by fees and that no remuneration shall be given to any member of such Council except as aforesaid.

- 5.12.4. True accounts shall be kept for the sums of money received and expended by the Society.
- 5.12.5. All sums of money shall be deposited in the account of the Society with the scheduled bank as approved by the Council.
- 5.12.6. All cheques issued by the Society shall require the signature of the Treasurer and additionally either of the President, one of the Vice-Presidents or the General Secretary. Provided that in the absence of the Treasurer, the General Secretary and either the President or one of the Vice-Presidents, may sign with proper notification to the bank and the Council.
- 5.12.7. The Treasure may have, at any one time a maximum of Rs. 1,000/ (one thousand only) with him as cash in hand.
- 5.12.8. The Executive Council shall review and decide the delegation of the financial powers to various office bearers of the Council from time to time.
- 5.12.9. Financial year of the Society shall be from  $1^{st}$  April to  $31^{st}$  March of the next year.
- 5.13. Branches of the Society
- 5.13.1. For furtherance of the aims and objects of the Society, the Council may, in response to request addressed to the Society, approve the opening and establishing of Branches to serve specific geographical areas. Such a request shall be signed by at least seven members of the Society, normally residing in or employed within the geographical area alongwith a list of 25 members.
- 5.13.2. Each Branch of the Society shall have a Charter which shall contain

the name, location, geographical area covered and date upon which the Charter was granted. It shall also bear the name and signature of the President and the General Secretary of the Society.

5.13.3. Each Branch shall conduct its affairs in accordance with the present and special regulations made for this purpose by the Council.

# 5.14. Amendments

- 5.14.1. For amendments to the Memorandum of Association of the Society, provisions of section 12 and 12(A) of the Societies Registration Act XXI of 1860 shall be applicable.
- 5.14.2. Amendments to the Rules and Regulations may be proposed by means of a petition signed by at least ten per cent of the qualified members.
- 5.14.3. The amendment shall be adopted only after the resolution has been ratified by the General Body with simple majority of the members on rolls of the Society.

# 6. Annual list of Executive Council (Sec.4 of the Act).

Once in every year a list of the office bearers and members of the Executive Council shall be filed with the Registrar of Societies, Delhi, as required under Section 4 of the Societies Registration Act, of 1860, as applicable to the Union Territory of Delhi.

# 7. Legal Proceedings (Section 6 of the Act)

The Society may sue or be sued in the name of the General Secretary as per provision laid down under Sec. 6 of the S.R. Act, 1860, as applicable to the Union Territory of Delhi.

# 8. Dissolution and Adjustment of Affairs

If the Society need to be dissolved it shall be dissolved as per provisions laid down under Section 13 and 14 of the S.R. Act of 1860 as applicable to the Union Territory of Delhi.

# 9. Application of the Act

All the provisions under all the sections of the Societies Registration Act of 1860, as applicable to the Union Territory of Delhi, shall apply to this Society.

# 10. Essentiality Certificate

Certified that this is the correct copy of the Rules and Regulations of the Society.

Sd/Sd/Sd/(Mahavir Singh)(V.N. Ojha)(A.K. Bandhopadhyay)TreasurerGeneral SecretaryPresident

Sd'-

(R.C. Budhani)

President

Notes:

- 1. Clauses 4.4 to 5.6.2 were amended in 1990.
- 2. The increase in Life Subscription w.e.f. 1.4.2007 was approved by 18th General Body. (held on 25th January 2007).
- 3. Clause 4.6 'Fee and Subscription' amended.
- 4. Clauses 4.7, 4.7.1, 4.7.2 and 4.7.3 deleted. Subsquently, 4.8 & 4.9 become 4.7 & 4.8 respectively.
- 5. Clause 4.8.2 amended.
- 6. Appendix 1 and Appendix 2 deleted.
- 7. Clause 4.4 was amended. respectively.

# Special Regulations for a Branch of Metrology Society of India

In pursuant of Clauses 5.13.1 and 5.13.3 of rule 5.13 of the Rules and Regulations of the Society, the following Regulations, for conducting the affairs of a Branch of the Society, are made.

1. These regulations shall be called SPECIAL REGULATIONS FOR BRANCHES (1996).

# Definitions

- Council means the Executive Council of Metrology Society of India.
- b. Society means Metrology Society of India.
- c. Good member means a member who is paying his subscriptions regularly and not conducting or cause to be conducting any activity detrimental to the interests of the Society.
- d. General Body means the General Body of the Society.
- e. Branch means the Branch of Metrology Society of India hereafter shall be called as Chapter.
- 3. The Council, in the best interests of the Society, may modify, add or delete any part of these Special Regulations.
- 4. Addition or deletion shall have to be got approved by the General Body of the Society in its immediately next meeting.
- 5. These Regulations shall be applicable to every Chapter of the Society from the date on which the Council decides to open the Chapter.
- Every Chapter shall have a Charter which shall contain the name, location, geographical area(s) covered and date upon which such Charter was granted and shall bear the names and signatures of the President and the General Secretary of the Society.
- 7. Name of the Chapter shall be the full name of the Society followed by the name of the city where the Chapter is located.
- 8. The geographical area, which the Chapter is to serve, shall be specified at the time of opening the Chapter.

- 9. The Council, in the best interests of the Society, may alter the limits of such area on a later date with mutual understanding of the concerned Chapter/Chapters, but in case of any dispute the decision of the General Body shall be final.
- 10. Every Chapter shall conduct its affairs in accordance with the present Rules and Regulations along with these Special Regulations and any other bye-laws framed by the Chapter, provided these bye-laws have been approved by the Council.
- 11. The affairs of the Chapter shall be governed by an Executive Committee. The Executive Committee of the Chapter shall consist of a Chairman, two Vice Chairmen, a Secretary, a Joint Secretary, a Treasurer and such number of members as may be provided by the bye-laws of the Chapter.
- 12. All office-bearers including the members of the Executive of the Branch shall be elected every two years at the meeting of the General Body of the Chapter.
- 13. The Executive Committee of the Chapter shall meet at least two times in a year.
- 14. All official correspondence of Chapter shall be on its standard letter head, which shall conform to the format of the standard letter head of the Society.
- 15. Any office-bearer including the member of the Council, or any other member so authorised by the President, shall be entitled to attend the meeting of the Executive Committee of any Chapter.
- 16. The Chairman of the Chapter or any other member so authorised by the Chairman shall represent the Chapter in the Council.
- 17. Every office-bearer of the Chapter shall have similar powers and duties as the corresponding office-bearer of the Council of the Society as described in Rule 5.10 of the Rules and Regulations of the Society.
- 18. The Secretary of each Chapter shall forward to the General Secretary of the Society audited accounts including reports of all the meetings at the end of each financial year of the Society but not later than 30<sup>th</sup> June of every year for preparing a consolidated

- report and statement of accounts for submission to statutory authorities.
- 19. The Chapters are authorised to retain 50 percent of the subscription of the members enrolled by them. The Society in turn shall provide MAPAN-Journal of Metrology Society of India to each of its good member.
- 20. The Chapters are authorised to raise funds for specific purpose with the prior approval of the Council. However 50 percent of the balance shall be sent to the Society.
- 21. Every Chapter shall manage all its expenses from its share of subscription or any fund raised for a specific purpose.
- 22. In very special circumstances, with the approval of the Council, the Society may provide one time financial assistance of Rs. 10,000 for opening of the Chapter.
- 23. The Council may at its discretion and/or due to any of the following reasons, close a Chapter after giving it a notice of three months and considering any explanation, the Society or the concerned Chapter may tender:
  - i. Failure of the Chapter to hold at least two meetings of its Executive Committee in a year and/or any other activity promoting the cause of metrology; and
  - ii. Conducting any activity declared by the Council to be detrimental to the interest of the Society.

# **Memorandum of Association**

- 1. The name of the organization shall be "Metrology Society of India" (herein after called the Society).
- 2. The registered office of the Society shall be in the N.P.L. premises, Dr. K.S. Krishnan Marg, New Delhi 110 012.
- 3. The Aims and Objects of the Society shall be:
  - (i) To provide a forum for exchange of ideas, opinions and experiences of persons and agencies connected with metrology.

- (ii) To promote awareness, appreciation and understanding of various aspects of metrology.
- (iii) To advance knowledge and education in scientific, industrial and legal metrology.
- (iv) To organise lectures, seminars, colloquia, conferences, workshops and expositions on metrology.
- (v) To set up and maintain a library, information centre and museum connected with metrology.
- (vi) To design, participate in, conduct and sponsor courses on scientific, industrial and legal metrology.
- (vii) To publish transactions, proceedings, journals, reports and such other publications as may be found desirable.
- (viii) To co-operate and co-ordinate with Government and other organisations with a view to promote a national measurement system.
- (ix) To advise and assist the Government in formulating legislative and other measures to further the growth of metrology in the country.
- (x) To collaborate and co-operate with the national bodies of other countries and international organisations connected with metrology.
- (xi) To uphold, protect and advance the interests of the persons engaged in metrology.
- (xii) To do all such other lawful things as are incidental or conducive to the attainment of the above aims & objects of the Society.
- (xiii) All the income of the Society shall be utilised for the promotion of above aims and objects.
- 4. The Society shall have the power to do all lawful acts, deeds and things as are incidental or conducive to the furtherance and attainment of the above aims and objects.
- 5. The names, addresses occupations and designations of the present members of the Executive Council to whom the management of the Society is entrusted as required under Section 2 of the Societies Registration Act of 1860, as applicable to the Union Territory of Delhi are as follows:-

S. N	lame	Address	Occupation	Designation in the Society
1	2	3	4	5
1.	Prof. R.C. Bhudhani	National Physical Laboratory New Delhi - 110 012	Director	President
2.	Dr. A.K. Bandyopadhyay	-do-	Scientist	Vice-President
3.	Dr. P. Banerjee	-do-	Ex-Scientist	Vice-President
4.	Dr. V.N. Ojha	-do-	Scientist	General Secretary
5.	Dr. Sanjay Yadav	-do-	Scientist	Jt. Secretary
6.	Dr. Mahavir Singh	-do-	Scientist	Treasurer
7.	Mr. Anil Kumar	-do-	Scientist	Member
8.	Dr. A.K. Aggarwal	-do-	Ex-Scientist	Member
9.	Dr. Rina Sharma	-do-	Scientist	Member
10.	Dr. Sukhvir Singh	-do-	Scientist	Member
11.	Dr. P.C. Jain	-do-	Ex-Scientist	Member
12.	Mr. Anil Suri	-do-	Pr. T.O.	Member

6. All the incomes, earnings, movable or immovable properties of the Society shall be solely utilised and applied towards the promotions of its aims and objects only as set forth in this Memorandum of Association and no portion thereof shall be paid or transferred directly or indirectly by way of dividends, bonus, profit or in any manner whatsoever, to the present or past members of the Society or to any persons claiming through anyone or more of the present or the past members. No member of the Society shall have any personal claim on any movable and/ or immovable properties of the Society or make any profit, whatsoever, by virtues of his membership.

# **REGIONAL BRANCHES (2012)**

(1) Name- Metrology Society of India (SR)

Location - Electronic Test and Development Center(ETDC),
Bangalore

Geographical Area - Southern India

President : Dr. Hema Khurana, Senior Director, ETDC,

Bangalore

Vice Presidents : Shri P.V. Shashi Kumar, CMTI, Bangalore

Mr. Jaison Isaac, Fluke Calibration, Bangalore

General Secretary: Shri. R.Sadananda Murthy, CEO, Sushma

Industries Calibration Centre, Bangalore

Treasurer : Shri G. Nagabhusan, ETDC, Bangalore

(2) Name- Metrology Society of India (ER)

Location- Central Mechanical Engineering Reserch Institute

(CMERI), Durgapur

Geographical Area- Eastern India

**President** : Dr. Ranjan Sen, Chief scientists, CMERI

Vice Presidents : Mr. B.R. Meena, Director Genaeral , NTH

Mr. B N Guha

General Secretary: Prof. Amol Kumar Ghosh

Treasurer : Mr. Shantanu Kumar Naskar

(3) Name- Metrology Society of India (WR)

Location- The Automotive Research association of India, Pune

Geographical Area- Western India

**President** : Dr. S.R. Marathe, Director, ARAI

Vice Presidents : Mr. Ramani Iyer, Mr. Arun Kudale

**General Secretary**: Mr. Prasad Betgeri

**Treasurer**: Ms. Kirti Pinglikar

# **PUBLICATIONS**

# a) MAPAN-JOURNAL OF METROLOGY SOCIETY OF INDIA

MAPAN-Journal of Metrology Society of India is a quarterly publication. It is exclusively devoted to Metrology (Scientific, Industrial or Legal). The Metrology Society of India (MSI) invites the submission of research communication or technical article on topics of current interest. Original work, tutorials and survey papers, which contribute to new knowledge or understanding of any metrology principle, method or technique are welcome. The journal has been included in major data bases like Thomson, Reutors, Copernion etc.

Papers are considered for publication on the clear understanding that they have not been published previously or submitted to another journal for publication. Further, they will not be sent for publication elsewhere, if published in MAPAN -JMSI. Papers should be clearly written in English and sent in duplicate to :

# b) MSI NEWSLETTER

A quarterly publication of MSI NEWSLETTER is another important publication of Metrology Society of India which was started from 2011. This letter will help in establishing a two way communication among the MSI members to address the challenging needs of Metrology.

# c) SI Chart

The International System of Units (SI System of Measurement) Chart has been prepared and printed with the help of NPL Former Scientists Forum and distributed to the stake holders.

# d) Books

All the recent AdMet proceeings are available in the http://www.metrologyindia.org

# INSTRUCTIONS TO CONTRIBUTORS for MAPAN-JOURNAL OF METROLOGY SOCIETY OF INDIA

Interested authors [scientists/engineers/technician] are requested to visit the web site. http://www.editorialmanager.com/jmsi/

The publication is manged and controlled through online submission, editing, referee review, authors comment, etc. upto publication stage]. The authors are requested not to submit hard copy.

# Elements of the Manuscripts:

- A cover sheet consists of a short title, name, affiliation and address of all authors.
- Manuscript must start from the next page with title on top of the page.
- An abstract of about 100-200 words should be provided on the title page. This should be readable without reference to the article and should indicate the scope of the contribution, including the main conclusions.
- An introduction: The introduction to be beginning with what is new in the paper, not with statement that is well known to everyone.
- Appropriate section of text.
- A conclusion.
- An optional acknowledgement.
- A list of references in proper format.
- A set of original figures and tables.
- A list of captions for all figures and title for all tables.

# References:

References must be prepared in proper format (examples of various types are given below) and numbered consecutively in the order in which they are cited in the text.

# Books:

Authors name, title of the book, publisher, year, pp. first and last page no.

- a) Dr. A.K. Bandyopadhyay, Editor in Chief, MAPAN-JMSI
- b) Dr. Sanjay Yadav, Managing Editor, MAPAN-JMSI

Metrology Society of India NPL Premises Dr.K.S.Krishnan Marg New Delhi-110012

# MAPAN-JOURNAL OF METROLOGY SOCIETY OF INDIA (Transfer of Copyright by Authors to MSI Publications)

Title:"	п
TIUC	

# **Transfer of Copyright Agreement:**

- 1. We certify that the work titled above is our original creation and is not copied from any other work except for the portions, which are clearly indicated by credits contained therein.
- We certify that we are the sole owners of the work and of the copyright pertaining to it, that we have not transferred the ownership of the work or of the copyright in the work or any interest therein or any part thereof to any other person or entity.
- We also certify that our above-mentioned work has neither been submitted for publication not so far published in any journal or magazine.
- 4. The copyright to the above-mentioned work is hereby transferred to the Metrology Society of India (MSI), effective from receipt of the manuscript by MSI. This includes the right to publish the work, to reproduce it, and to disseminate it, either alone or collectively with other works in whatever fashion MSI deems appropriate.
- 5. We reserve the following

- i. all the proprietary rights other than copyright such as patent right.
- ii. the right to use all or part of this work in future works of our own lectures, reviews, text books, etc.

In the event the above mentioned work is not accepted or published by MSI within 18 months or is withdrawn by us before acceptance by the MSI, this agreement becomes null and void.

	Name	Signature	Date
Main author			
Co-author (1)			
Co-author (2)			
Co-author (3)			
Co-author (4)			



# In the past, MAPAN - JMSI have published several theme based issues of the journal on various aspects of metrology (list is appended below).

Sr. No.	Special Issues on	Names of the Guest Editors	Reference No.
1.	Impedance Metrology	S.S. Moodley and A.K. Saxena	Vol. 18 No.3 (2003)
2.	Metrology in Chemistry	Werner Haesselbarth	Vol. 19 No. 4 (2004)
3.	Hardness Metrology	Konrad Herrmann and Kamlesh K. Jain	Vol. 20 No. 1 (2005)
4.	Dimensional & Temperature Metrology	Franz Waldele and Joachim Fischer	Vol. 20 No. 2 (2005)
5.	Force Metrology	Rolf Kumme and Kamlesh K. Jain	Vol. 20 No. 3 (2005)
6.	Pressure Metrology	Sam-Yong Woo	Vol. 21 No. 3 (2006)
7.	Time & Frequency	P. Banerjee and M. Hosokawa	Vol. 21 No. 4 (2006)
8.	Acoustics Metrology	Prem Narang and V. Mohanan	Vol. 22 No. 2 (2007)
9.	Materials Metrology	Kamal Hossain	Vol. 22 No. 3 (2007)
10.	Mass Metrology	Richard S. Davis and Tripurari Lal	Vol. 23 No. 3 (2008)
11.	Electric Energy Metrology	W.G. Kurten Ihlenfeld and M.K. Mittal	Vol. 24 No. 1 (2009)
12.	Vacuum Metrology	Jay H. Hendricks and Pardeep Mohan	Vol. 24 No. 2 (2009)
13.	Optical Metrology	Klaus D. Stock and H.C. Kandpal	Vol. 24 No. 3 (2009)
14.	Optical Metrology	Klaus D. Stock and H.C. Kandpal	Vol. 25 No. 1 (2010)
15.	Metrology in Chemistry (MiC)	Wolfram Bremser and Prabhat K. Gupta	Vol. 25 No. 3 (2010)
16.	Length and Dimension Metrology	Toshiyuki Takatsuji and K.P. Chaudhary	Vol. 26 No. 1(2011)
17.	Fluid Flow Metrology	John D. Wright and Jiunn-Haur Shaw	Vol. 26 No. 3 (2011)

# **COMMITTEES**

# 1. Programme Committee

Chairman : Dr. P Banerjee

Convener : Dr. K.P. Chaudhary

Members : Prof. Ravinder Agrawal

Sh. P.K. Aggarwal Sh. Vivek Bagga Dr. Diwakar Basu Dr. R.K. Kotnala Sh. A.L. Kudale Sh. Ashok Ladsaria Sh. R. S. Murthy

Dr. Bandaru Hari Prasad Mr. Alok Jain (NABL)

# 2. Membership Committee

Chairman : Sh. Anil Kumar

Convener : Dr. Sukhvir Singh

Members : Dr. Pradeep Mohan

Dr. R.K. Garg Sh. Saood Ahmad Sh. Ashok Ladsaria Sh. Harish Kumar Sh. Goutam Mandal Sh. Kamlesh Patel

# 3. Publication & Information Committee

Chairman : Dr. A.K. Bandyopahyay

Convener : Dr. (Mrs.) Rina Sharma

Members : Dr. A. Sengupta

Dr. Ashok Kumar Dr. H.C. Kandpal Dr. Ranjan Sen Sh. A.K. Saxena Dr. Sanjay Yadav

Dr. Yudhisther Kumar

# 4. Education Committee

Chairman : Dr. H.C. Kandpal

Convener : Mr. A.K. Govil

Members : Dr. A. C. Gupta

Dr. P.C. Jain Dr. R.K. Garg

Sh. Prabhat K. Gupta Sh. Tripurari Lal

Sh. M.K. Mittal



# मापन

In collaboration with National Physical Laboratory (NPLI): Council of Scientific and Industrial Research (CSR), India

htp:/www.norologistic.og htp:/www.spinitc.og

Industrial districted by Some Order Index Expended Schooling January Cohom Reports Some Edition Index Expension Interestimal INDEX











Redefring Condition Serve of Countails Number of Photons Dr. H.C. Kendysi



e J' stond Confe

