

INTERNATIONAL **CONFERENCE CUM EXHIBITION TRANSFORMERS (TRAFOSEM - 2020)**

"FUTURISTIC GLOBAL TRANSFORMER TECHNOLOGY FOR **OPTIMAL PERFORMANCE IN INDIAN POWER SYSTEM"**

ON

24th APRIL 2020

at SCOPE CONVENTION CENTRE AUDITORIUM, Scope Complex, Lodhi Road, New Delhi-110 003 INDIA **ORGANISED BY:**

INDIAN TRANSFORMER MANUFACTURERS ASSOCIATION [ITMA]















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IN ASSOCIATION WITH:

Power Finance

Corporation Ltd.





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The Associated Chambers







INTRODUCTION (TRAFOSEM - 2020)

Due to sharp demand of power world over transformer upto 400 KV were manufactured in the year 1950s and ultimately enhanced to 800 KV level in the year 1970. Whereas in the Indian power scenario it started upto 220 KV in the year 1950 and now graduated upto 800 KV since the turn of century. At present the Indian industry has a proven technology and enough manufacturing capacity of about 1000 GVA per annum of which 70% is utilized in the domestic market while the remaining is catering to export market even to some developed countries. The transformer can be classified broadly in to three types i.e. DTs upto 2500 KVA at 11 KV, 22 KV & 33 KV level from power transformer for sub-transmissionupto 60 MVA at 132 KV level while upto 160 MVA at 220 KV, 315 MVA upto 400 KV and finally 500 MVA upto 765 KV/800 KV level. Today the industry is capable of producing transformers upto 1200 MVA as well for the highest transmission system voltage in the world.

The growth of transformer both distribution transformer and power transformers depends upon the generation capacity addition during the year in conventional and renewable energy form. It has been observed that on an average basis the capacity addition roughly is of the order of 20,000 to 25000 MW including renewable energy sources. This pace has been increased for the last couple of years and as a result the availability of power has overtaken the demand thereby fulfilling the vision of Hon'ble PMs for providing 24x7 power to all by March 2019 after having completed all schemes like DDUGJY, IPDS, Uday and Soubhaya projects.

Basically for T&D system, DTs and power transformers are used which forms the 90% production by the industry. However for specific job requirements good number of transformers such as instrument, starting, testing, welding, earthing, mining, furnace, solar/wind transformers etc. etc. are also manufactured but these have limited use as compared to T&D network. However for EHV & UHV system and for special application like traction, rectifier, converter for HVDC system, shunt reactor, short circuit, phase shifting, coupling transformers, besides with the adoption of latest digital technology even the smart transformers etc, all these belong to the family of transformers are being manufactured with same raw material and India is proud to be the third largest user of electrical power in the world.

Since power is said to be available for all, it is likely to increase per capita consumption from 1150 Kwh to 1500 Kwh (world average 2000 Kwh) in due course of time plus emergence of providing charging stations for electric vehicles at National level by 2030 which work has already started for reducing carbon foot prints for green environment at global level. Moreover there will be requirement of transformers due to replacement of old and faulty units. Besides the installed capacity is 350GW as on 31st January 2019 which will be 480GW as per CEA's report in 2021-22 and ultimately is likely to be around 800 GW by 2030 resulting in growth transformer industry in the country as power has to be transformed 7 to 8 times from long distances hence the need to install a large number of step up and step down transformers. With colossal investment in transmission power system coupled with number of reforms of new schemes of smart cities, smart grid substation, the demand of transformers is expected to increase in the coming years which shows that the future of transformer industry is very bright

INDIAN TRANSFORMER MANUFACTURERS ASSOCIATION (ITMA)

Indian Transformer Manufacturers Association [ITMA] a national association was established in 1979 with the objective of promoting the interest of manufacturers of Electrical Transformers and its Allied equipment's to voice the problems of the Industry with the Government of India and its PSUs viz CEA, REC, PFC, BEE, BIS, PGCIL, NTPC, NHPC, BBMB, NEEPCO, NPTI, DVC, CPRI, State Governments, State Electricity Boards, Utilities and Power Companies in the business of Generation, Transmission & Distribution of electricity. Indian Transformer Manufacturers Association (ITMA) has in its fold about 250 members located in various states of India and represents the maximum production capacity of power/distribution transformers in the country with leading transformer manufacturers on its rolls.

ITMA endeavors to disseminate relevant information to members from time to time and renders such help to the industry as would contribute and augment the present power system and through it national growth besides organizing conferences/seminars at national and International level for discussion / exchange of latest technical knowhow for introduction and induction in the industry.

TRAFOSEM-2020 - SUPPORTING ORGANIZATIONS.

Well known apex organizations of Government of India i.e. Central Electricity Authority (CEA), Rural Electrification Corporation Limited (RECL), Power Grid Corporation of India (PGCIL), National Thermal Power Corporation (NTPC), **NHPC, BBMB, NEEPCO**, Bureau of Energy Efficiency (BEE), Bureau of Indian Standard (BIS), Bhakra Beas Management Board (BBMB), National Power Training Institute (NPTI) and ICA, CBIP, PHDCCI, ASSOCHAM & INDIA ENERGY FORUM are the supporting organizations of ITMA in the TRAFOSEM-2019.

TRAFOSEM-2020 AND ITS OBJECTIVS

The objective of the conference is to provide a forum to discuss Futuristic Global Transformer Technology amongst various manufacturers, Utilities, power industry and share experience, knowledge at global level for its performance in Indian Power system, besides latest digital information technology (IT) & operational technology (OT) is being established for better energy management as per available resources in an intelligent, auto balancing with capability of integration of any another source of renewable energy, for monitoring the parameters of the system in a bid to know the status of power flow, peak load management, system outage management, power quality and supervisory control and date acquisition (SCADA).

The latest development of power system, technological advancement influencing the efficiency and cost effectiveness of small medium and large transformers, use of state-of-the art materials, fittings and accessories for innovative design and manufacturing techniques, predictive method of testing transformers for short circuit withstand capability, computer software development for optimized design of transformers and improved quality up- gradation and transformer ancillaries, and oil preservation system are generally to be thoroughly reviewed at length in the International gatherings. The conference will also focus

on key developments in the Indian Power Sector that impact the current and future transformer market in India.

Accordingly, ITMA is pleased in announce the 15th International Conference on Transformers (TRAFOSEM-2020), to be held ON 24TH APRIL 2020 AT NTPC, SCOPE CONVENTION CENTRE AUDITORIUM, SCOPE COMPLEX, LODHI ROAD, NEW DELHI-110003.

WHO SHOULD PARTICIPATE AND ATTEND (NO PARTICIPATION FEE END OF FEBRUARY 2020)

Indian & Foreign experts, Indian & Foreign Transformer manufacturers and Allied equipment suppliers, Senior Engineers of State Electricity Boards / Utilities, Gencos, Trancos, Discoms, CEA, PFC, REC, NHPC, NEEPCO, THDC, PTC, NTPC, CPRI, NTPI, DVC, BEE, ERDA, IREDA, CBIP, CPUs. Senior Govt. Officials, Energy Planners, IT Solutions, Consultants, Academic Institutions, R&D Organizations, Financial Institutions, Consultants, Industry Associations Industry Representatives, Decision Makers, CEOs, EPC Contractors, Consultants, Equipment Suppliers, Power Trading Companies from India & Abroad, High Level Purchase Executives, Power Transmission Equipment, Transmission lines and Towers, ACSR Conductors Insulators, Voltage Regulators, Communication, Control & Instrumentation, Supplier of Plants, Equipment Manufacturers, Raw Material from all over the Country & abroad and Multilateral development Banks, Captive Power, Renewable energy (Solar/Wind/Biomass), Power Trading Companies from India & Abroad, High Level Purchase Executives etc., Delegates registration from is as per ANNEXURE—A (NO PARTICIPATION FEE FOR ALL DELEGATES BEFORE END OF FEBRUARY 2020) After this due date delegation/participation fee shall be charges at Rs. 2,000/-(US\$ 40/-per delegate) Participation fee is nonrefundable.

CALL FOR TECHNICAL PAPERS & GUIDELINES FOR PAPER AND BEST THREE PAPERS AWARD[NO PARTICIPATION FEE FOR AUTHORS/CO-AUTHORS)

We would earnestly request you for your consent /confirmation for paper/s and also to submit complete paper with diagrams, tables, photographs etc. in the form of 2 hard copies and one soft copy [CD]/E-mail (please use only MS Word (Window 98/2000 or lower platform). The full text of the papers should in any case reach **POSITIVELY BY THE END OF JANUARY 2020** for review and acceptance by the organizers. The authors should also send 2 passport size recent photographs along with very brief CV. The papers should not be more than 5000 words.

The confirmation for sumission of the paper's should be intimated by the **end of November 2019**

The authors/Co-authors will be required to present the papers themselves. It may however be noted that the official language for all purposes shall be English. The papers presented earlier in any conference or published in any journal/ conferences in India and overseas are not acceptable. The authors are required to give a declaration to this effect. It provides an opportunity to the participants and authors to present high quality papers relevant to objectives and topics of the conference. Authors of the selected papers will present highlights for 15 minutes followed by discussion and question/answers for about 10 minutes in the respective sessions. The Technical Committee will have right to accept or reject papers. The organizers will review papers submitted and the authors of selected papers will be notified. As far as possible, papers will be printed in the "as

received" form. However, the organizers reserve the right to edit the papers as appropriate. By submitting papers authors have to indemnify the organizers against any copyright claim. Keeping in line with our tradition to encourage Speakers/Authors, the best paper adjudged by the organizers will be suitably awarded.

The "TRAFOSEM-2020" shall conduct 5 Technical sessions besides the Inaugural and Concluding Sessions.

TOPICS OF THE CONFERENCE - TRAFOSEM 2020

10	PICS OF THE CONFERENCE - TRAFOSEM 2020
	Overview of Generation, Transmission, Distribution Challenges before Indian Power Sector, 13th Plan Period and beyond, National Electricity & Tariff Polices, Concept of Smart Grid and Its Technologies, National Grid and Inter-state and Inter-regional Network, DDUGJY& IPDS, UDAY (UjawalDiscom Assurance Yojana) projects.
	Role of Public and Private Finance Institutions, Opportunities for Private Investors in Power Sector Projects and Financing of Various Options for system improvement.
	Computer aided design for Energy Efficient Transformers, Standardization & Labeling of Distribution Transformers, Quality Control Order on Electrical Transformers and CRGO, Market Trends and Technological Solutions, Dry Type Transformers, Nature of Transformer failures, their Causes and remedial measures. Maintenance free and self protected Single Phase & Three Phase Transformers for system improvement schemes.
	Latest Trends in Design and Manufacturing of Distribution and Power Transformers, Testing, Inspection & Quality Assurances and concept of ISO-9000 in terms of building quality systems.
	Current trends for dependability of transformer accessories like OLTC, Condenser Bushings, Cooling Arrangement, Protective Gear, Sudden/Pressure Relief Valves, Indicators, Oil Preservation system and fire fighting systems etc.
	Use of Core material CRGO /Amorphous Metal Windings and Insulation, Insulating Oil (Mineral/Easter), Paper, Pressboard, Wood, Structural Steel/Tanking, EHV Bushings, Thermo-Syphon Filters.
	Preventive Maintenance, up rating, Repair and Reliability improvement of Distribution & Power Transformers.
	Converter Transformer for HVDC system, Rectifier Transformers, Reactors, Traction Transformers- Design, Manufacturing and Testing etc.
	Condition Monitoring, Residual Assessment and Refurbishment of Transformers loading and life of Transformers.
	Use of smart /digital/intelligent Transformers and for smart cities and Smart Grid System.
	Use of special transformers for Renewable energy from Solar and Wind in Power Sector besides for special applications.
TR	AFOSEM-2020 - SPONSORSHIP OPPORTUNITIES

TRAFOSEM-2020 - SPONSORSHIP OPPORTUNITIES (LAST DATE 30TH JANUARY 2020)

The 15th International Conference on Transformers (TRAFOSEM-2020) with **Platinum**, **Diamond** / **Gold Sponsorship** of **Rs. 3,00,000/- Rs. 2,00,000/- and Rs. 1,00,000/-** respectively so as to ensure a grand success of the conference as it is going to be a high profile event to be inaugurated by the Hon'ble Minister of Power, Government of India.

SPONSORSHIP FEE AND FACILITIES												
CATEGORY	Name and Logo to be displayed on the Conference backdrop.	Name and Logo to be displayed on Main Gate on welcome Banner	Company Literature /Write-up to be included in Delegate Package (Kit)	One Table space for display of Products & services at the venue (size 3X2 mtr).	Inclusion of Company profile in ITMA Special Issue (TRAFOSEM- 2020) (Black & White)- Approxi- mately 100 words	One Full Page colour advertise- ment in ITMA Special Issue (TRAFOSEM -2020)	One full page colour advertiseme nt in ITMA Bi-monthly journal for one year (6 issues) free of cost.	One full page colour advertisement in TTMA'S forthcoming New Directory 2020	Bottom Strips Adverti- sement in ITMA's Monthly News Letter (single Issue)	Complimentary Advertisement opportunity for one year (12 months) through ITMA's website (company web Link)	Complimentary Delegate Passes	Space for ITMA's conference room for meetings, board meetings, training programmes etc.(accommodation only for 25 persons)
PLATNUM PARTNER INR: 3,00,000 US\$ 5000	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	15 NOS	YES
DIAMOND PARTNER INR: 2,00,000 US\$: 3500	YES	YES	YES	NO	NO	YES	YES	YES B/W PAGE	YES	NO	10 NOS	NO
GOLD PARTNER INR: 1,00,000 US\$: 2000	YES	NO	YES	NO	NO	YES	YES	YES B/W PAGE	NO	NO	8 NOS	NO
COMPANY LOGO PARTNER INR: 50,000 US\$: 1000	YES	NO	NO	NO	NO	YES	NO	YES B/W PAGE	NO	NO	5 NOS	NO

The conference would provide an effective opportunity for sponsoring companies to promote their products/services to a focused audience besides networking with utility MDs, CEOs engineers including their senior decision making executives during Tea/coffee and Lunch intervals. Sponsors are assured of full visibility with printing of their names on proceedings, banners and will have the privileges of presentation/display of their products during the conference. As a sponsor you will be given the following sponsorship fee and facilities.

Sponsors are requested to RUSH THEIR BOOKING AS WE SHALL GIVE PREFERENCE ON FIRST—CUM—FIRST BASIS. Since the sponsorship opportunities are limited, we request you to confirm the same along with the full payment at the earliest

BOOKING OF EXHIBITION SPACE FOR ITMA MEMBERS/OTHERS

ITMA have also decided to let out 20 stalls space at the front gate of the main Conference hall TRAFOSEM-2020 site to exhibit their Product / Services / Models, Testing Equipment's, Literature, Brochures, Books, Posters and other publicity materials etc, during the exhibition to the delegates attending the conference from India and abroad. We are mentioned the facilities and fees of stalls etc. in the Sponsorship coloums.

EXHIBITION SPACE FOR STALLS (SIZE 2 X 2 MTRS)

STALL CHARGES FOR INDIAN RS. 50,000/-

STALL CHARGES FOR INDIAN FOREIGN US\$:

- Stall Size 2x2 Mtrs
- One Table & 2 Chair
- One Power Point
- 5 delegate exempted from payment of the registration fee
- One Full Page Colour Advertisement in our Special issue
- Last date of Booking 30th January 2020

Interested Members/companies desirous of booking the stall, may contact immediately by mail. Only limited spaces are available and shall give preference on First –Cum –First Basis.

ADVERTISEMENT IN SPECIAL ISSUE

Indian Transformer manufacturers Association (ITMA) shall publish a Special Issue of the Conference scheduled for 24TH APRIL 2020 at SCOPE Complex, New Delhi. This issue will be released at the hands of the Chief Guest in the inaugural function and distributed to all delegates, invitees and advertisers at the conference, all members of ITMA, Utilities/GENCOS, TRANCOS & DISCOMS, Technocrats, Electrical Industries, Prominent Consultants, Suppliers, Financial Institutions, Energy Planners, R&D Organizations Central & State Govt. Undertakings/PSUs And NABL Members, Foreign Missions In India and Corporate Houses. Advertisements in the issue will have focused attention of the target audience; hence advertisers are requested to take advantage of this event. The bound volume of the Conference papers shall be useful as a reference book for manufacturers and users of Transformers.

Your advertisement will certainly pay dividend, besides ensuring higher productivity and profitability in your business. We hope that you would avail this opportunity and make use of this useful media for the propagation of your products and the image of your organization at National/International level. The Tariff details for Advertisement are as per ANNEXURE -B, accompanying in the

PLEASE NOTE THAT ITMA'S GOLD MEMBERS SHALL HAVE THE PRIVILEGE OF INSIDE FULL PAGE COLOUR ADVERTISEMENT FREE OF CHARGE.

FOR FURTHER DETAILS PLEASE CONTRACT

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B. LAL A. K. KAUL MANOJ K. G.

DIRECTOR GENERAL, M: 9811070048 DY. DIRECTOR GENERAL, M:9810299692 EXECUTIVE, M: 9810616471



INDIAN TRANSFORMER MANUFACTURERS ASSOCIATION [ITMA]

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"FUTURISTIC GLOBAL TRANSFORMER TECHNOLOGY FOR OPTIMAL PERFORMANCE IN INDIAN POWER SYSTEM"
ON 24th APRIL 2020 at SCOPE CONVENTION CENTRE AUDITORIUM,

Scope Complex, Lodhi Road, New Delhi-110 003 INDIA

REGISTRATION FORM

ANNEXURE - A.

SL	Full Name and Designation of the Participant (Mr. / Ms. / Dr. / Prof. / Other (please specify)	Full address of the organization.	Phone/Mob/Fax	E -mail
1				
2				
3				
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5				
6				
7				
8				
9				
10				

To,

The Director General,

Indian Transformer Manufacturers Association [ITMA]

2F-CS-II, Ansal Plaza, Sector-3, Near Vaishali Metro Station, (Opp. Bhushan Steel) Vaishali, Ghaziabad, U.P-201010

Sub: Delegate Registration - TRAFOSEM- 2020

Dear Sir,

CANCELLATION & SUBSTITUTIONS:

• There is no participation fee for ITMA Members/Sr. Executives/Engineers/Representatives from PSUs/SEBs/ Utilities/Gencos/Transcos/Discoms etc.

- Only 2 or 3 delegates shall be allowed from one organization with due confirmation before 3 lst March 2020. After this due date delegation/participation fee shall be charged at Rs. 2,000/-(US\$ 40/-per delegate). Participation fee is non-refundable.
- Sponsors shall give full details of all the participants in this format before the end of January 2020.
- Please photocopy this form for additional nominations
- All Payments for advertisement should be made in advance by Cheque/DD In favour of "Indian Transformer Manufacturers Association" Payable at Ghaziabad, UP.



"FUTURISTIC GLOBAL TRANSFORMER TECHNOLOGY FOR OPTIMAL PERFORMANCE IN INDIAN POWER SYSTEM" ON 24th APRIL 2020 at SCOPE CONVENTION CENTRE AUDITORIUM, Scope Complex, Lodhi Road, New Delhi-110 003 INDIA

ANNEXURE - B.

ADVERTISEMENT RELEASE FORM AND ADVERTISEMENT TARIF (PREFERENCE ON ADVERTISEMENT ON FIRST-CUM-FIRST BASIS) **Advertisement Position Tariff for Tariff for Scheme** (Indian/SAARC) other Countries (Rs) countries (US\$) USD 1000 Double Spread (Front Gate Fold) Rs.50,000/-Colour **USD 900** Opening Front Page Colour Rs.40,000/-**USD 800** Opening Front Inside Page Colour Rs.35,000/-Back Cover Page Colour Rs.40,000/-**USD 900** Back Cover Inside Page Colour Rs.35,000/-**USD 800 USD 500** Special Page (Special paper) Colour Rs.20,000/-Full Page Colour Rs.15,000 **USD 300** Book Mark (Two Sides) Colour Rs.15,000/-**USD 300**

IMPORTANT:-The above-mentioned TARIFF IS NET OF ANY AGENT/ AGENCY COMMISSION.

ITMA's Gold Members shall have the privilege of full page colour advertisement (Inside) free of charge.

The full-page colour /black & white ad size 25 x l8 Cms. Book Marker advertisement size 20x10 Cms

AD. MATERIAL CDR/ PDF format with Final Printout. Last date of receipt the advertisement material **END OF JANUARY 2020 POSITIVELY**

All Payments for advertisement should be made in advance by Cheque/DD In favour of "Indian Transformer Manufacturers Association" Payable at Ghaziabad, UP.

RUSH YOUR AD MATERIAL TO BE RECEIVED BY THE END OF JANUARY 2020 To, The Director General, Indian Transformer Manufacturers Association [ITMA] 2F-CS-11, Ansal Plaza, Sector-3, Near Vaishali Metro Station, (Opp. Bhushan Steel) Vaishali, Ghaziabad, U.P-201010 Sub: Release of Advertisement in ITMA's Special Issue TRAFOSEM-2020 Dear Sir, We hereby confirm to release an Advertisement..... Page for publishing in ITMA'S Special Issue (TRAFOSEM-2020 (which is ticked) and enclose herewith our Demand Draft/Cheque also enclosed...... Thanking you, Yours faithfully, (SIGNATURE) Name of the Person & Designation:..... Name of the Company/Organization..... Address Phone.

Mob......Fax....Email.....Website.....