

**2100**

# **Advanced Ultra Power Transmission Consultancy**



**AUPTC the Complete  
Solutions to Power  
Infrastructure, Electrical,  
Electronics, Automation,  
HVAC**

# Advanced Ultra Power Transmission Consultancy

## About AUPTC

Introducing Advanced Ultra Power Transmission Consultancy, a rapidly growing company in India. With the help of our extensive experience, proven performance and innovation, over the years AUPTC has been delivering excellence in Power Projects for Conventional as well as renewable energy like wind & solar. We have vast experience of Bipolar and Back-to-Back HVDC Systems up to  $\pm 512\text{kV}$ , 2500MW Air Insulated Substations ranging up to 765kV, Gas Insulated Substations (indoor & Outdoor) up to 400KV, Transmission lines ranging up to 765kV, FSC up to 400KV, Solar Power up to 1000MW and all other electrical installations. **AUPTC is well experienced in Mountains, Desserts, Wet lands.**

Our rich experiences coupled with the dedicated team of professionals allow us to advise and deliver the very best of services to customers.

AUPTC understands the distinctive needs of the customers & provides 'Fit-to-Purpose' services to cater to the specific needs, budgets and time frames.

We cater to all types of industry in India and also all across the globe.

## Our Services

- Complete Project Pre-BID Engineering, Post-BID Project Management, Monitoring, all Detail Engineerings, QA, FAT, 3<sup>RD</sup> Party Testing, Site Testing and Commissioning, O&M.
- Preparation, Review, Approval of Technical Specifications for complete substation & transmission line, Solar Power project.





- Preparation, Review of Tender Drawings, Basic Engineering, Quantity Estimation and Preparation of BID.
- Pre-BID and Post-BID Techno-Commercial discussion with Client or Bidders, Technical Bid Evaluation.
- Preparation, Review, Approval of General Technical Parameters of various electrical equipments.
- Vendor Selection, Supplier Audits.
- Quality Assurance, Preparation & review of ITP, MQP. Inspection for Type Test, Routine Test, Factory Acceptance Test. Review of Test Reports. Third Party Inspection.
- Review and Approval of Detailed Engineering Drawings, Layouts, Design Calculations, Technical Reports, Studies.
- Project Management, Planning & Scheduling, Monitoring, Project Review, Handing Over.
- Review and Assessments of Sites. Other Electrical Solutions like Equipment Sizing & Selection for Transformers, CT/PT, DG Set, Battery, UPS. Earthing Design & Calculations, Lightning Protection, etc.
- Conductor & Cable Sizing, selection, Routing, Layout, etc.
- Illumination design & calculations.
- Other technical services like Candidate Search, Interview & Selection, etc.
- Technical and Commercial Training of Employees and Students.

## Training Services

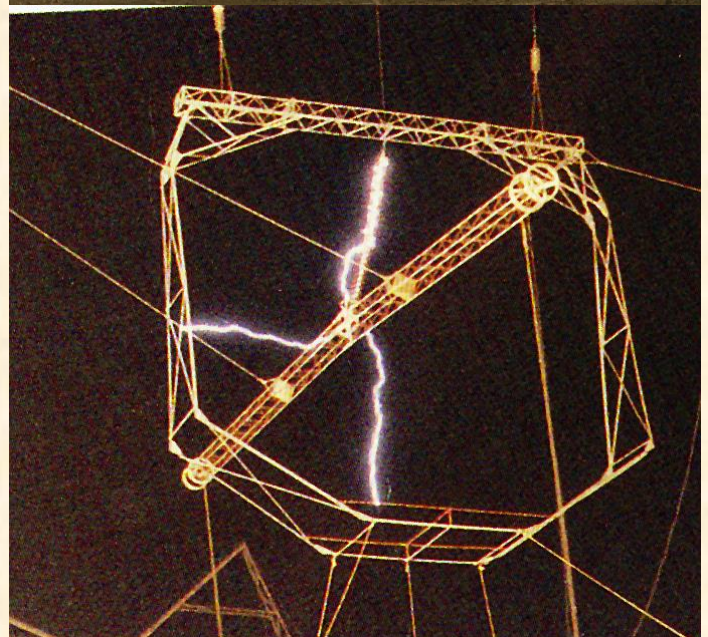
We offer trainings in following areas:

- Substation Design & Substation Equipments
- Substation and Equipment Operation & Maintenance





- HVDC System (Bipolar & Back-to-Back), Equipment & Station Design
- HVDC Station & Equipment Operation & Maintenance
- Planning & Design of Transmission Lines up to 765kV
- Power Line Communication System including Optical Fiber Communication, OPGW and Protection for Transmission System
- Transmission Lines & Substation Project management & Construction
- Electrical Equipment Sizing & Selection
- Cable Sizing & Selection
- Earthing, Lightening & Illumination Design.
- Solar Power.





## Contracts Awarded to AUPTC

- 2nos. 400kV Substations Pre-Bid and Post-Bid Detail Engineering for Rays Power Infra Limited of Projects for Serentica/ Sterlite.
- 38km 400kV Double Circuit Transmission Lines Pre-Bid and Post-Bid Detail Engineering for Inergy Infra Private Limited of Projects for Torrent Power.
- 2nos. 400kV Substations Pre-Bid and Post-Bid Detail Engineering for Inergy Infra Private Limited of Projects for Torrent Power.
- Detail Engineering for Techno Electric and Engineering Company Limited for 1nos. Substations Neemrana-II 765/400kV AIS of Sterlite.
- Detail Engineering for Hartek Power Private Limited for 2nos. Substations Nalagarh and Bikaner 400/220kV GIS/AIS of POWERGRID.
- EMC study for Data Centre for NTT Global.
- 125MW Gujarat Wind Power evacuation 33/220kV Substation Pre-Bid and Post-Bid Detail Engineering for Powerica.
- INDIGRID has awarded Pre-Bid Engineering of 10nos. 765/400/220kV Substations.
- Complete Detail Engineering, Review of Technical Specification of 17nos. 400/220/132/33KV SS in Madhya Pradesh in TBCB projects of MEIL.
- Pre-Bid Consultancy of 765/400/220KV GIS SS for MEIL.
- Pre-Bid Engineering of 5nos. 765/400/220KV AIS/GIS Substation for APRAAVA Energy Private Limited.
- Detail Electrical Engineering of Data Centre in Bhubaneswar, Orissa for Aurionpro Solutions Ltd. Owner Consultant Engineers India Limited (EIL). Owner Reserve Bank of India.
- 1800 MW Solar Park, Kawni, District Bikaner, Detailed Engineering Consultancy services viz. Design, Drawings, Preliminary/ detailed estimate, preparation of bidding technical documents for selection of executing agencies, providing technical assistance during execution etc. for the construction for following Electrical System–
  1. 400 kV Switching Station
  2. 400 kV Transmission line
  3. Data communication, metering & Protection as per RLDC/ULDC/PGCIL/CEA norms & their amendments.For Soltown Infra Private Limited (SIPL)
- Complete Design and Engineering Review of 440/220KV Kallam SS, Maharashtra for Indigrid, Engineering by KEC International.
- Detail Engineering of 400KV GIS Extension, 220KV GIS Extension with 500MVA Transformer Kurukshetra 800KV HVDC station of POWERGRID for Hyosung.
- Detail Engineering of 765/400/220kv Kistwar, Jammu & Kashmir for Sterlite Power.
- 34.5KV OHL of Saudi Arabia Detail Engineering for Khatib and Alami of Oman.
- 1no. TBCB 765/400/220KV Substations and Transmission line pre-bid Engineering for Juniper Green Energy.
- 3nos. TBCB 765/400/220KV AIS and GIS Substations pre-bid Engineering for TATA Power.
- 220/33KV Substation Tender Document preparation and Detail Engineering for Kailash Construction. Owner HEG, Bhopal with connectivity MPPTCL.
- DSLP, Earthing Validation of 1050 (5x210) MW Bakreswar Thermal Power Station for WBPDC.
- EMC study of 220KV Transmission line and Data Centre for AECOM.

- 400/220KV Substation along with its 400KV Transmission lines Pre-Bid Engineering Consultancy for Monte Carlo.
- 765KV Hexa-Zebra Double Ckt. Transmission Line Tower Foundation Design Drawing for Sterlite.
- Root Cause Analysis of Failure of 3nos. 60MVA, 132/33KV Transformers in 765/400/132/33KV SS Indirapuram, MEIL.
- 400/220KV, 1500MVA GIS SS at Goa, Civil Engineering for Sterlite.
- 765/400KV GIS Pre-Bid Complete Civil and Structure Engineering for Sterlite.
- 220/33KV GIS Multi-storeyed with 12km 220KV Double Circuit underground Cables Complete Pre-Bid Engineering for BNC Projects Owner AEML for Mumbai.
- Assessment of Giant Cables, Conductors and Lattice Structures Towers manufacturing Company for Lucky Holdings.
- Complete detail Engineering of 132/33KV Substation, 132KV LILO, 35km 33KV Transmission line in Keraun, Nepal of NEA project.
- Hindalco has issued Work Order for 15km 220KV line audit.
- Complete Detail Engineering of 10numbers 132/33KV Substation for Flowmore Pvt Ltd. of BSPTCL.
- Complete Detail Engineering of 132 Double Circuit Transmission line 31KM for Procons, Nepal.
- Complete Detail Engineering of 132 Double Circuit Transmission line for GCPL, SUHPL, Nepal.
- Detail Engineering of 13nos. 33KV substations of POWERGRID packages for Supreme Pvt. Ltd.
- Pre-Bid Engineering of 18nos. 220KV, 132KV Substations in Rewa and Arunachal Pradesh of POWERGRID packages for Flowmore Pvt Ltd.
- Complete Detail Engineering of 01nos. 220/33KV Nagrota Substation in Jammu & Kashmir for Kailash Construction of REC Projects.
- Pre and Post award Owners Engineering, Project Management, Statutory Clearance Consultancy of 300MW Solar Plant of Solar Pack ES.
- Detail Project Feasibility Report for 1000MW power evacuation to Sri Lanka by 400KV AC or HVDC 326km of Coastal Energen.
- Complete Engineering of 02nos. 220/132/33KV GIS and Hybrid Substations with 132KV and 33KV Cables at Trisuli and Chilime Santaldih, in Nepal for State Grid Corporation of China of POWERGRID/NEA.
- Complete Engineering of 01nos. 132/33KV Chatta Substations in Jammu&Kashmir for J K ENGINEERS of REC Projects.
- Complete Engineering of 01nos. 220/132/33KV Substations in Santaldih, West Bengal for BNC Power Project Limited of POWERGRID/WBPDCL.
- Complete 132KV Transmission line, Tower, Foundation design and Engineering for COSMOS Hydro Power Private Ltd. at Chnju, Himachal Pradesh.
- DSLP review and further recommendation for improvement of NICCO Park Calcutta.
- JV of Guangxi transmission and substation construction co., Ltd. And Shenzhen clou electronics co., Ltd. has awarded complete detail engineering of 2nos. 220KV GIS Substations with 500m 220KV Double Circuit underground Cable in Nepal owner Nepal Electricity Authority.
- Mohan Energy Corporation Pvt. Ltd. has awarded complete engineering of 4nos. 66/33KV Substations in Democratic Republic of Congo.
- SNC Lavalin has awarded Engineering Review job for 5nos. 27.5KV TL in CANADA.

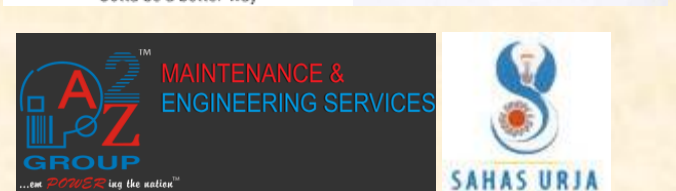
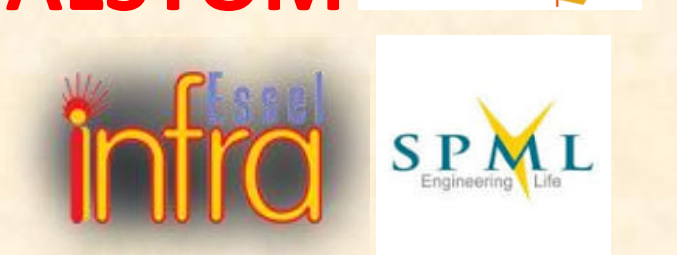
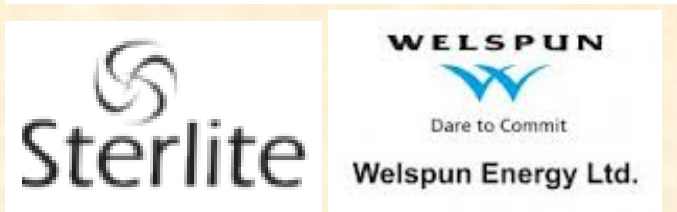
- Complete Engineering of 05nos. 220KV GIS extension and new and extension 132/33KV Substations in Nagaland for POWER MECH PROJECTS LTD of POWERGRID Projects.
- Tata Projects has awarded 13nos. 33KV GIS and AIS of SBPDCL Bihar for Complete Engineering.
- Godrej & Boyce Mfg. Co. Ltd has awarded Complete civil engineering of 400KV GIS Substation POWERGRID Maharaniabag, Delhi
- Complete Engineering of 04nos. 66/11KV Substations with 66KV Cable Bus Connections in Sikkim for Reliance Elektrik of POWERGRID Projects.
- Complete Engineering of 18nos. 33/11KV Substations in Nagaland for Techno Power of POWERGRID Projects.
- AVAADA earlier Welspun has awarded for Type tests of 6nos. 7MVA 3winding Inverter Transformers.
- AVAADA earlier Welspun has awarded for Testing Commissioning review of 80MW solar plant and Type tests of 31.5MVA Transformers, CRPs for 100MW plant.
- Complete Engineering of 9nos. 33/11KV Substations in Bihar for Techno Power of NBPDC Projects.
- Atkins Global amended order for Modification Pre Bid & Post Bid Complete Consultancy of 400KV Quad Conductor Quad Ckt. OHL with 1km 132KV Double Circuit underground Cables. Owner Abu Dhabi TRANSCO by Atkins Global.
- Detail Project Report, Preparation of Complete Tender Documents, BOQ, Price Schedule, Cost Estimation of 31km 220KV Double Circuit underground Cable for Power Trading Corporation of India Limited (PTCIL) owner MRPL.
- Complete Engineering of 7nos. 400KV Substations in West Bengal, Jharkhand and Orissa for SPML of POWERGRID Projects.
- Detail Engineering of 220KV Substation in Jharkhand and 3nos. 132/33KV Substation in Chattisgarh for A2Z Infra Engineering Limited, Gurgaon.
- Assessment of Power Supply, Substations and TL for Indore SEZ for Power Trading Corporation of MPAKVN.
- Detail Project Report, Preparation of Complete Tender Documents, BOQ, Price Schedule, Cost Estimation of 175km 400KV Double Circuit Transmission Line for Power Trading Corporation of India Limited (PTCIL) owner India Power and Bangladesh Power Grid Company of Bangladesh.
- Complete Engineering of 17nos. 220KV and 132KV Substations in Assam and Meghalaya for NECCON of POWERGRID consultancy.
- 400KV Quad Moose double circuit TL Engineering for ALSTOM with POWERGRID specification in Sikkim.
- Complete Pre-Bid Engineering of 33KV Double circuit 31km with Kundah conductor for ALSTOM of NLC.
- Complete Engineering of 19nos. 33KV Substations in Assam and Meghalaya for NECCON of POWERGRID consultancy.
- Complete Engineering of 1nos. 132KV Substations in MP for ION Energy of SRF in Indore SEZ.
- Complete Engineering of 4nos. 132KV Substations in Telangana and AP for ACME.
- Illumination Design for SIEMENS, Owner WBSETCL, RRVPNL.
- 220KV Twin Moose Tower and Foundation Design for ALSTOM, Owner NPCIL.
- Design Engineering for Premier Solar Solar Plant in BESCOM, near Bangalore, Karnataka.
- Complete Engineering of 4nos. 132KV Substations in Arunachal Pradesh for NECCON of POWERGRID consultancy.



- Pre-Bid Engineering for 765/400KV substation by Sterlite Energy (Vedanta Group).
  - STERLING and WILSON has awarded Estimation Contract of DMRC 132KV GIS Substation.
  - ALSTOM has awarded Link line of Nuclear Power Corporation of India Limited Single circuit twin moose 220KV consultancy.
  - Pre Bid & Post Bid Complete Consultancy of 400KV Quad Conductor Quad Ckt. OHL with 1km 132KV Double Circuit underground Cables. Owner Abu Dhabi TRANSCO by Atkins Global.
  - Complete Project Management, Project Engineering, Monitoring for all Electrical and Civil, QA, Inspection, Testing and Commissioning of 132/33KV Substation of 40MW Solar Plant for ION Energy of SS owned by IL&FS.
  - Review and Optimization of Technical BID of POWERGRID 400/220KV Substation by Amararaja.
  - Prepare Technical BID for 765/400KV Warrora and Parli Substation by Sterlite.
  - Project Consultancy of 2x150MW, 220KV power evacuation system including Switchyard, GT, UT, ST, GIS, 200km Multi-circuit, 50km D/C transmission lines by OPG Power.
  - Project and Engineering Consultancy of Sterlite Grid by Repeat Order for 765/400KV Substation at Bhopal as Dhule.
  - Engineering of Total 143km 400kV Double Circuit Quadruple Moose and Triple Snowbird Transmission lines, 2nos. 400/220 & 400/132KV GIS of PFC projects by Essel Infra Projects Ltd (Owned by ZEE Entertainment Group).
  - Pre-Bid Engineering Support 113km D/C 400KV with 3km 400KV Double Circuit underground Cable and 20km D/C 220KV Transmission lines of PFC projects by Essel
- Infra Projects Ltd (Owned by ZEE Entertainment Group).
  - Pre-Bid Engineering & Project Consultancy for 765/400KV substation by Sterlite Energy (Vedanta Group).
  - AUPTC has been associated with Jyoti Power for 4nos. 400KV 63KA Substation bays in POWERGRID Substation.
  - Investigation and Route Cause Analysis of conductor and tower failure 66kV D/C Transmission Line by PMC Projects India Private Ltd.
  - TATA Project Limited has signed MOU with AUPTC for Project Consultancy of around 560Ckt- km of 400KV D/C Quadruple moose Transmission line of MPPTCL.
  - AUPTC supported HCE for Engineering of 220/33KV prestigious Hyderabad Airport Substation of GMR.
  - Investigation and Route Cause Analysis of Inverter failure for 105MW Solar Power Plant by Welspun Energy Ltd.
  - Investigation and Route Cause Analysis of Inverter failure for their Solar plant at Gujarat Solar Park, Charnaka by LANCO Ltd.



## Our Esteemed Customers





TECHNO ELECTRIC &  
ENGINEERING CO. LTD.





## Project Experience

The highly skilled resource base of AUPTC has a vast experience and has been involved in the following projects-

Sl. no.	Detail of Project	Cost of project	Job
01	06nos. 400KV Substations 1235ckt-km 765KV, 400KV, 110KV transmission lines	800cr	New constructions
02	01no. HVDC: 2500MW, +/-500KV, 1000KM, including OPGW, interfacing with 5x660+4x330MW Generating station.	1600cr	New constructions
03	04nos. 765/400KV Substations		New constructions
04	02nos. Fixed Series Compensator	41cr	New constructions
05	03nos. 400KV Sub-Stations	45cr	New constructions
06	12 nos. 220KV, 132KV Sub-Stations, 71nos. 33KV Sub-Stations, 500nos. Villages RE works	Total cost of projects (06 packages) more than 250Crs.	New constructions
07	400KV, 139KM D/C over head transmission line	90crs	New constructions
08	400KV, 435Ckt-Km over head transmission line	200crs	Maintenance
09	35KM of Optical Fibre	28lacs	New constructions
10	400/220/33/0.440KV Sub-Station, 33KV cable-laying	50crs	New constructions
11	500MW, +/- 205KV HVDC back to back	400crs	Maintenance
12	2000MW, +/- 500KV, 1440KM HVDC bi-polar, Interfacing with 6x500MW Generating station.	385crs	New construction
13	400/220/132KV Sub-Station	40crs	Maintenance
14	400/220/33KV Sub-Station	50crs	New construction

## Contact Us

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## About Principal Consultant

Founder Mr. Gopal Halder with 32 years of experience, is an ex-POWER GRID manager, ex-Adani Power Associated General Manager and ex-MEIL Chief General Manager and has worked in all mentioned major International and Domestic projects for Project Management, Engineering, Quality, Inspection, Execution, Commercial and Integrated Management System. Mr. Halder Received Invitation for Global head of Electrical Operation in URS Corporation for location at Bristol/London.

- He had leading role in designing world's unique Inverter Electrode Station in 2500MW,  $\pm 500$ KV, 1000KV world 2<sup>nd</sup> fastest HVDC project. He was initiator of differential protection, speech through Optical Fiber without SDH/PDH for 5km, 400KV, Quadruple Double circuit line which is main evacuation line of 2500MW HVDC.
- Was team head of pre-commissioning team of new 400KV transmission lines in POWER GRID. He was in lead to complete HVDC, FSC, 765KV projects in Adani Power Limited.
- Represented APL for type test of 500MVA 1<sup>st</sup> Indian Converter transformer of SIEMENS and 500MVA, 765KV transformer of Hyundai.
- Executed, Operated, Engineered more than 2000 circuit-kilometers of 765/400/220/132KV Transmission lines and more than 400 nos. 765/400/220/132KV Substations.
- Total project handled costing more than INR 15000 crores.
- As represented AUPTC, Handled total more than 5000 circuit-kilometer of 765/400/220/132/66/33KV Transmission lines.
- Worked for India's largest solar plant of 105MW, now 300MW and more than 1500MW solar plant.
- Well experienced in all statutory requirement of India and having thorough knowledge of IEC, IEEE, IS.

**Commitment, Quality and Cost are Most Important to AUPTC**

[www.auptc.com](http://www.auptc.com)