

COMPANY PROFILE

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ABOUT THE COMPANY



Extreme Engineering Solution (Pvt) Limited was established in year 2004 as a telecommunication company. Since then our primary focus has been upon serving multinational enterprises through various solutions and services. Through our vast experience, we have developed a customer service-oriented business philosophy.

“EES” has become re-known Organization of Pakistan by providing customers with value addition services and solutions under one roof. We have developed into one of the fastest emerging company within the industry and having a work force of over 500 employees and 40+ offices nationwide.

Having diverse experience in diversified fields along with our team of professionals; EES has set bench mark of performance in the industry. EES is currently operational overseas in Dubai for ventures with International partners.

Company Mission

Extreme Engineering Solution's mission is to enhance the competitive advantage of our business, clients and to uplift the speed and convenience in the working and living lives of our customers by providing them with innovative, secure, cost effective and quality communication products, services and customized solutions. EES intends to achieve its mission through living the values we believe in and through continually leveraging its strategic core competences for competitive advantages. All our divisions work closely with our clients to go to the last mile satisfying them in every respect.

Our Presence & Achievements (Nationwide)

Optical Fiber Services managed By Unicom Private Limited, a subsidiary of Extreme Engineering Solutions. Some of the Major Projects successfully executed are as follows:

Network Survey, Engineering, Planning, Designing and Computerization of Fiber Optic Cable of 178,000 Lines and approximately 1,800 km for both Access and Junction Network awarded to Huawei Technologies for OFAN Phase II Project of PTCL (Southern Region) including Karachi, Hyderabad and Quetta.

- Fusion Splicing, Testing and Commissioning of Fiber Optic Cable awarded to Huawei Technologies for OFAN Phase I Project of PTCL (Southern Region) in Karachi.
- Optical Fiber Network Planning, Survey, Designing and Computerization of 1800 km of OFAN Phase II Project with Huawei Technologies for PTCL.
- Fusion Splicing, Testing and Commissioning of Optical Fiber Cable for OFAN Phase I Project for Sachal Telecom.
- Fusion Splicing and Testing of Optical Fiber Cable for Webcom.
- Supply of Optical Fiber Equipment to various Telecom Companies.
- Optical Fiber Network Planning, Survey, Designing and Computerization Project for KHL.
- Optical Fiber Network Planning, Survey, Designing and Computerization of 1,650 km approximately of Long Haul Optical Transmission Network Project for KHL.
- OSP Works of Hyderabad Junction Network of 60km including excavation, Laying of Duct, laying of Optical Fiber Cable, Fusion splicing, Testing, and Commissioning of OFAN Phase II

Project with Huawei Technologies for PTCL.

- Fusion Splicing, Testing and Commissioning of Optical Fiber Cable (144 fibers) for a Project for KHL.
- Fusion Splicing, Testing and Commissioning of Optical Fiber Cable for Long Haul Optical Transmission Network Project of approximately 5,500 km for KHL.
- Consultancy for ROW for Long Haul Optical Transmission Network Project for KHL.
- Professional Services for Long Haul Optical Transmission Network Project for KHL.
- Optical Fiber Network Planning, Survey, Designing, Computerization, OF cable laying, Fusion Splicing, Testing, Commissioning and Drum Testing

of 310 km on turnkey basis of Metro Project for KHL in Karachi, Lahore, Rawalpindi/Islamabad Metropolitan areas.

- Carrying out of connectivities of Wateen in Karachi and Rawalpindi / Islamabad on regular basis.
- Carrying out of extension works of Metro Project in Karachi and Rawalpindi / Islamabad.
- Installation and Construction of BTS Sites of Motorola in Rawalpindi.
- Revamp Project of PTCL in Rawalpindi.
- Revamp Project of Telenor in Rawalpindi.
- Revamp of Metro Project for Telenor in Karachi.
- Managed services of Metro Project for Wateen/KHL in Rawalpindi / Islamabad for the period of four years.
- Managed services of Optical Fiber Connectivity Project of PTCL.
- Construction of Security Wall for POF Wah Cantt.
- Supply, Laying, Jointing, Testing and Commissioning of Access Rings of MSAG Project of PTCL in South Zone for KHL.
- ODN Survey, Design & Technical Supervision of 5k

GPON FTTH Project of PTCL.

Operation and Maintenance Managed Services for Long Haul Optical Transmission Network Project of approximately 5,500 km for KHL.

- Operation and Maintenance Managed Services of Metro Project for KHL in Karachi.
- Operation and Maintenance Managed Services of Metro Project for KHL in Lahore.
- Operation and Maintenance Managed Services of Telenor Project for KHL in Karachi.
- Operation and Maintenance Managed Services of OFAN II Project of PTCL for Huawei Technologies.
- Operation and Maintenance Managed Services of Access Rings of MSAG Project of PTCL in South Zone for KHL.
- Optical Fiber Connectivity for 24 Sites of Mobilink in Karachi for Mobilink.
- Optical Fiber Connectivity for Wateen Telecom Sites in Sheikhpura for Mobilink.
- Operation and Maintenance Fiber Connectivity of PTCL in Karachi for Huawei.

- GPON / FTTH Structured Cabling System installation in Islamabad, Karachi and Lahore for PTCL.

Our Presence & Achievements (International)

- Survey and Planning of Fiber To The Home (FTTH) Project of Motorola/Verizon USA for 9 districts of Jeddah, Riyadh and Dammam, Saudi Arabia.
- Provision of Technical Audit Teams for the execution of Optical Fiber E-GOVT Phase II Project of Uganda for Huawei Technologies.
- Provision of Technical Audit Teams for the execution of Optical Fiber MTN Project of Uganda for Huawei Technologies.
- Technical Audit Services include verification of Engineering Survey, Design Plans and BOQs, standardization of checklists, test proformas, verification and calibration of testing and splicing tools and equipment.
- Operation and Maintenance Managed services of Optical Fiber Connectivity Project of MTN, Uganda for Huawei.
- Provision of Technical Audit Teams for the execution of Optical Fiber E-GOVT Project of Rwanda for Huawei Technologies.
- Provision of Technical Audit Teams for the execution of Optical Fiber UTel Project of Angola for Huawei Technologies.
- Technical Audit Services include verification of Engineering Survey, Design Plans and BOQs, standardization of checklists, test proformas, verification and calibration of testing and splicing tools and equipment.

SERVICES PORTFOLIO

a) MANAGED SERVICES

This division of EES is involved in Operations and Maintenance of systems, equipment and components of an Infrastructure.

EES offers comprehensive managed service solutions that will help mobile operators and Tower Cos to achieve more efficient OPEX, enhance network availability, better KPIs and eventually improve end-customer quality of service. We provide passive & multi - vendor active infrastructure maintenance through preventive and corrective action plans including core and access network elements. Key services offered are as follows:

- J L1 Field maintenance
- J Spare parts management and Supply
- J Generator Maintenance & Fuelling
- J Generator Overhauling
- J Core and Datacentres Passive Maintenance
- J Other Services:
 - o Scheduled maintenance and work orders
 - o Security management and patrolling for cell sites
 - o Access and retention management.
 - o Network surveillance and event management.
 - o 3rd party contract management.
 - o Site Audits and Asset Database management



b) OPTICAL FIBER NETWORK SERVICES

EES through its joint venture partner UNICOM is also working as a consulting engineering firm specializing in the field of Fibber networks. EES provides planning, engineering and project management services for Fibre transmission networks, broadband wireless access networks, network management systems and broadcast facilities.



EES has highly skilled Professional Engineers who have worked not only in Pakistan but have worked internationally. EES has fully equipped itself to meet the future demands of the most modern communication network including Copper and Fibre Optic.

c) OPTICAL FIBER EQUIPMENT

Some of the Major Equipment used to deliver Telecom Services as per international Standards.

- J OTDR EXFO 720D full set (x3)
- J OTDR EXFO FTB-400 full set (x12)
- J OTDR EXFO FTB-200 full set (x2)
- J OTDR EXFO FTB-100B full set (x2)
- J Splicing Machine Fujikura 50s (x8)
- J Splicing Machine Fujikura 60s (x5)
- J Splicing Machine Fujikura 12s (x2)
- J Cable Locator Radiodetection C.A.T.3+ (x2)

d) Professional Resources

- J **Arshad Mahmood** with multiple decades of experience in the Telecom Industry. Leading 100+ Nationwide and International mega projects with top tier telco service providers like Verison, China Mobile, MTN, Huawei and Mobilink.

- J) **Shahid Hamid Bhatti** is a pioneer in the Telecom Services with over 30 years of hands on experience in delivering successful projects in Abu Dhabi for GHQ Armed Forces UAE as a Telecom Consultant.
- J) **Farzana Nadeem** having GIS expertise of developing digital maps and layouts of Telecom and other utilities infrastructure in multiple cities for Pakistan Poverty Alleviation Funds for more than 16 years.
- J) **Muhammad Danish** Growth-focused development professional with a successful record in increasing sales, improving profitability and delivering results. Over 17+ years of working with International players like NOKIA, Huawei, ZTE, Jazz, China Mobile in Pakistan as well as OEMs like ELTEK, GE etc.
- J) **Muhammad Mahmood Ali** an experienced Project Manager with over 5 years in Optical Fibre Long Haul and Metro Deployment and maintenance of 5000+ Kms Network across Pakistan for China Mobile Pakistan, Mobilink, Wateen & Telenor. Award winner Project Manager at ZTE & Huawei Pakistan.

e) **DUE DILIGENCE SERVICES**

Accurate and up-to-date due diligence is a necessity of site development. Coordinating due diligence for a site can be complex, and as such it should be completed by a trained eye with the highest attention to detail. EES has the experience to manage all of the details of due diligence for your infrastructure.

The process of due diligence is an ongoing process that includes not only the design and layout of the site, but also conformance to a variety of Federal and local regulatory mandates. We can manage the entire due diligence process to help ensure that once your infrastructure is built, it will remain in place for the long term.



f) **TELECOM IMPLEMENTATION SERVICES**

At EES, we specialize in Telecom Implementation Services using our extensive telecoms industry experience to give genuine, independent advice on the most appropriate telecommunication solutions for every business scenario. EES advise you on the best solution for your network build and roll-out. We provide a complete range of TI services including but not limited to:

▪ **Power Swap**

EES has a complete portfolio of Telco Power services where we install, test and integrate equipment for any type of communications or other electronic equipment to world leading standards of quality. Integration of equipment is done through fully trained engineers as per industry standards. We offer services related to Swap of Battery Systems, Generator Installation/ Swap Services, Rectifier/ DC HOT swap services, Rectifier of Sites equipment's, Solar System installation and many more.



▪ **Civil Services**

EES has been active in civil construction since 2005 and is one of the leading civil contracting companies in Pakistan. With extensive experience for managing infrastructure projects in civil engineering, we have worked for leading private & public sector organizations of Pakistan. We have a proven track record in completing 'fast track' projects consisting of infrastructure development. Our corporate integrity, financial strength and outstanding record of performance on

challenging civil works projects pre-qualifies us for projects where relentless efforts are required & focused by contractor for delivering the project in time. Our areas of workings are:

- Soil Investigation
- Detail Engineering & Designing
- Architectural Drawings & Projections
- Infra structure Developments
- Erection of Towers
- Tower Painting
- Tower Foundation
- BTS Room
- Genset Room
- Boundary Wall
- Earthing Works for BTS & Genset Rooms, Tower, including supply and Fixing of Electrical Panels Internal & External Wiring of Rooms
- Tower Electrification
- Installation of Tower Obstruction Lights
- Air Conditioners Installation
- Generator Installation
- Assistance to obtain power supply from WAPDA
- Indoor and Outdoor Equipment Installation



▪ CELL ON WHEELS (COW) SITES INSTALLATION SERVICES

Cell on Wheels (COW) mobile communication towers were designed to respond to a need for rapid deployment communication system and it provides quick, convenient communications capabilities for short- or long-term use without the hassle of installing permanent foundations, costly construction and regulatory restrictions. Mobile tower systems are as versatile as the application and requirement that must be satisfied. EES has extensive experience in providing end to end COW installation services nationwide, including transportation, installation, operation and maintenance.



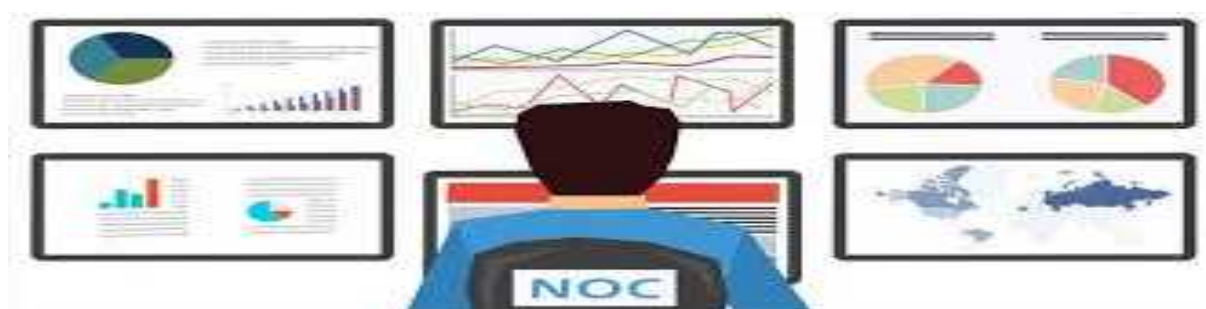
g) BUSINESS PROCESS OUTSOURCING (BPO)

Increasing competition and vagaries of economy have made outsourcing a necessity for modern businesses. They may partly outsource their business processes or collaborate with a provider for full spectrum of services. Established companies, like Extreme Engineering Solution (Pvt.) Ltd. provide innovative solutions backed by state-of-the-art technology.

EES offers cross industry horizontal solutions like **Human Resources Outsourcing**, Finance & Accounting Outsourcing, **Technical Support Services**, Customer Relationship Management, Supply Chain Management (SCM) and **NOC Services with 24/7 Coverage**. We also focus on key industry services such as Financial Services, Public Services, Telecom, Energy & Utility and Logistics.

Benefits of outsourcing your business processes:

- **Cost Effectiveness** – Getting job done at a lower cost and at better quality.
- **Increased efficiency** – Better performance with better knowledge and understanding.
- **Focus on core areas** – Enables to focus on providing higher value-added services.
- **Save on infrastructure** – Eliminates the need for investment in infrastructure.
- **Access to skilled resources** – Pool of highly skilled resources in respective business areas.
- **Faster and better services** – High quality deliverables and decrease the lead time.



SOLUTIONS PORTFOLIO

a) POWER SOLUTIONS

To fulfil the market's needs EES has joined hands with world renowned equipment manufacturers. General Electric, AEG, Narada and Baykee; these OEMS provide EES an edge over its competitors in Power Portfolio ranging from Telecom market to Enterprise market. Our product line includes:

- UPS Single & Three Phase solutions ranging from 0.6 KVA to 400 KVA includes standalone units to modular units as well as Industrial Units
- Rectifiers & Chargers
- Solar Power Solutions (Off Grid, Hybrid & On Grid Net Metering)
- Power Management Solutions
- Precision Cooling Solutions
- Industrial Inverters
- Environmental Management Solutions
- Static Transfer Switch Solution
- Batteries: Lithium Ion, VRLA, Supercapacitor based Energy Storage Device etc.
- Industrial Protection and Control Application, Fast Load-Shed Schemes



b) SECURITY & SURVEILLANCE SOLUTIONS

EES represents world's best manufacturers of security products like Hikvision & ZKTeco, which help EES in provisioning of end-to-end security hardware and software solutions including CCTV, Access Control, Scanning and Parking Management Solutions etc., which can also interoperate seamlessly with a myriad of third-party products. EES works closely with its principals and technology partners from the design-consulting phase through implementation, integration and training.



c) MEP & HVAC SOLUTIONS

EES is a specialist Mechanical, Electrical and Plumbing (MEP) turnkey solution provider to range of clients throughout the Pakistan. In association with partners; provide 'turnkey' packages as per the requirements.

- **SAMSUNG:** (<https://www.samsung.com/levant/air-conditioners/>)

We, Extreme Engineering Systems Pvt. Ltd., are the sole authorized distributors of Samsung Electronics Air-conditioning Division and offer state of the art HVAC solution including:

- Residential / Mini VRF System
- VRF System and Water cooled VRF System



- **CLIVET:** (<https://www.clivet.com/en/home>)

We, Extreme Engineering Systems Pvt. Ltd. are the sole distributors of Clivet Spa, Italy. Clivet Spa, Italy is a very flexible HVAC system as it is modular, making it easy to extend it and the area serve on the project could easily be added to a single system. Following products are offered:

- Residential / Primary AIR / Close Control / Packaged / Hydronic / WHLP / Auxiliary Systems, Terminal Units and AHU, Specialized systems for any application and climate.



d) WIRELESS TELECOM SOLUTIONS

Redline Communications provides EES a dynamic edge in wireless solution portfolio. We have solutions for most challenging locations and mission-critical applications.

Advantages:

- High Capacity, Long Range to carry voice, video and data at distances over 80 Km
- Versatility brings option to operate on any frequency between 100 MHz and 6 GHz including licensed, reserved and unlicensed bands
- Efficiency by supporting channel sizes ranging from 20 MHz to below 1 MHz
- Reliability and Ruggedness to operate at temperatures ranging from -40°C to 75°C



e) SCADA SOLUTIONS

EES has partnered with ABB to provide state of the art SCADA solutions to its customers, especially in Oil & Gas sector. ABB SCADAventure™ provides a standard control methodology across the enterprise to automate workflows and optimize day-to-day operations, helping oil and gas companies maximize uptime and safety and minimize capital and life cycle costs.

Unlike traditional SCADA systems, SCADAventure uses a high-performance, real-time relational Database Management System to enhance data integrity and data retrieval. This makes SCADAventure unique in the market and significantly faster than typical SCADA databases.

SCADAventure scales from small to large systems, allowing companies to extend and grow the system as their business grows. It is based on Microsoft technologies with open interfaces, such as ODBC and OPC, to allow customization and seamless integration of enterprise systems.

SCADAventure also connects with many 3rd party systems and devices, including:

Control Systems, Remote Terminal Units (RTUs) and Flow Computers, Programmable Logic Controls (PLCs), Chromatographs, Communications, networking and telecoms, LV, MV and HV Electrical Equipment, Drives and Motors

SCADAventure offers essential capabilities out of the box, including a high-performance historian, alarms and a polling engine. Additional capabilities, such as callout notifications and report scheduling can be added as needed.



f) TEST & MEASUREMENT

EES provides state of the art test and measurement products and solutions which help customers worldwide in research and development, design, quality testing, manufacturing, and system monitoring in many different industries, challenging applications, and rugged environments.

We offer test and measurement products from world's renowned manufacturers like Exfo, Fluke and Hioki.



g) INFRASTRUCTURE SOLUTIONS

EES represents Draka (Prysmian Group), Kabeltec Germany which helps to provide complete Infrastructure solution to our customers as below:

- Optical Cables such as Aerial, Building, Direct buried, Drop, Duct & Micro duct cables etc.
- Optical Connectivity such as Duct, Racks, Street Cabinets, Closures etc.
- Copper Cables such as xDSL, Underground, Aerial, Specials, Indoor cables
- Control & Data Cables, Installations and Single Cores Cables,
- Compensating and Heat resistant Cables, Halogen Free Cables, Fire Signals and Telecommunication Cables, Power and Rubber cables, Solar cables etc.
- Mobile Networks cables such as Coaxial antenna cables, Feeder cables, Jumper cables, Super- and extra flexible cables.
- Datacom Solution such as Cat.5e, Cat.6, Cat.6A, Cat.7, Cat.7A, 10Gig Fibre Cables, Automated cables, Industrial cables, Data centers cables.
- Grounding Kits, RF/Coax Connectors like BNC, TNC, N Type Connectors, Matching Transformers Baluns etc.

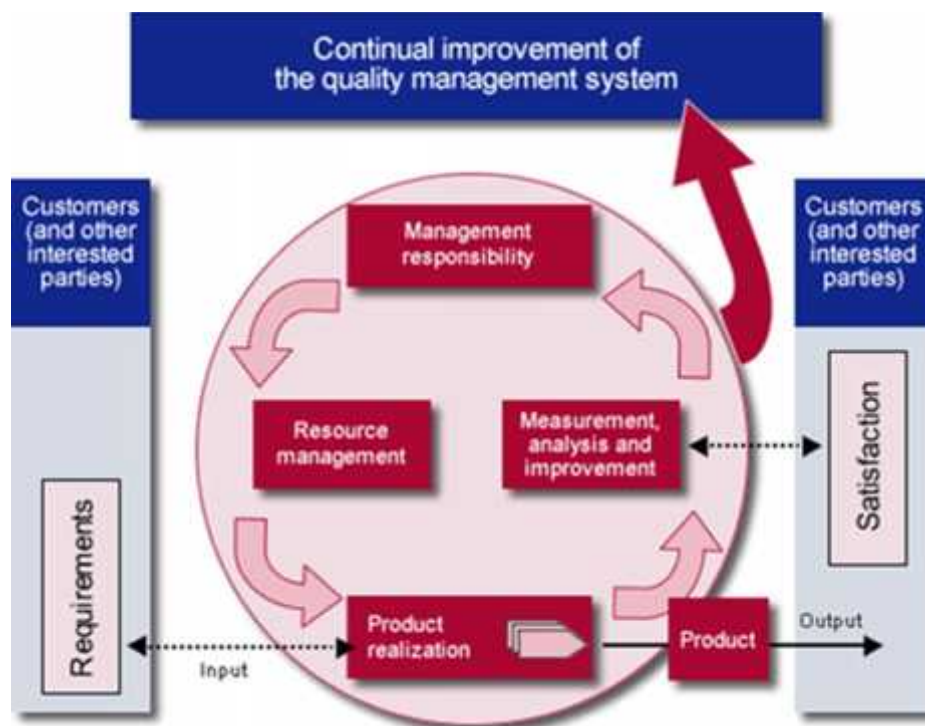
QHSE POLICY

Health, Safety and Environment has the highest priority in our work, and we aim to deliver technology and solutions in a safe and sustainable way.

One of the biggest challenges for the companies to achieve a world-class QHSE culture is managing change in their organization. We strive to continually improve QHSE Management System through an annual review process, based on comments received from the design, procurement, construction, operations, and maintenance personnel within EES and from its customers, suppliers and subcontractors.

Key aspects of EES's management approach:

- Work Processes & Procedures
- Communication
- People Development & Training
- Audit & Assessment
- Performance & Improvement
- Regulatory Compliance



It is EES's policy to:

- Develop and integrate management system framework by incorporating QHSE standards in every process related to our business.
- Assign responsibility and accountability at all levels.
- Understand and comply with applicable legal, regulatory & statutory standards and other requirements.
- Committed to apply systematic and measurable approach to continually improve upon QHSE culture, performance and management systems through consultation and participation of all team members and interested parties to identify opportunities for improvement.
- Implement structured training programs, monitor its effectiveness to retrain staff and seek opportunities for competence enhancement of all interested parties.
- Establish critical QHSE parameters and objectives to monitor QHSE performance of our system and improve through consistent feedback, analysis and benchmarking against most recognized industrial norms to stand out in the market as a leader.
- Take lead in controlling and mitigating potential risks associated with people, land, air, ecology, assets and provide safe working conditions to prevent work related injures/health issues.
- Committed to prevention of injury, ill health, no harm to environment and continual improvement of HSE management system and HSE performance.
- Continuously strive for zero defects preferably through proactive measures and focus on risk-based thinking as all accidents are preventable.
- Communicate this policy to all team members, interested parties and encourage them to participate in QHSE performance improvement initiatives and reward individuals'/ teams' performance consistently.
- Living by the values of EES, we contribute in cultural development through team work and active participation.

Nationwide Company Presence



Islamabad Office:
65-E, Pak Pavilion Plaza, Mezzanine
Floor, Fazal-e-Haq Road, Blue Area,
Islamabad

Lahore Office:
House No. 410-M,
Model Town Extension,
Lahore

Karachi Office:
Mezzanine 1, Block C, Moon
Gardens, Gulshan-e-Iqbal, Block
10-A, Karachi

Sukkur Office:
House No. B-142, Street 2,
Akhwat Nagar Society,
Airport Road, Sukkur