



Ocentra Engineering Services

STEP TOWARDS SUCCESS



Company Profile

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ABOUT THE COMPANY

Ocentra Engineering Services was established in year 2014 as a telecommunication, Power and Automation company. Since then our primary focus has been upon serving multinational service providers through various services related to telecom, electrical services, renewable energy, designing industrial automation, control process & Instrumentation. Through our extensive task history we have developed a customer service oriented business philosophy. Proactive and timely customer service is the backbone of our company.

“OES” has become strength in the Telecom, Solar EPC and Automation Industry of Pakistan by providing customers with value addition services for network infrastructure development as well as providing solution under one roof for Supply, Maintenance & Optimized Network Performance Services.



We have developed into one of the fastest emerging company within the industry and having a work force of over 100 employees nationwide i.e. one of the major vendor in Pakistan to provide state of the art products and services with optimized Maintenance and Support. “OES” is a unique blend of experience involved in installation, testing, commissioning, preventive maintenance, troubleshooting, projects designing services of industrial plants involving power, instrumentation, PLCs and SCADA (Supervisory Control and Data Acquisition).



Having diverse experience in industry along with our team of professionals that has set bench mark of performance in the industry. Having diverse experience in Telecom, Solar and Automation Services along with our team of professionals that has set bench mark of performance in the industry.

COMPANY ORGANIZATIONAL STRUCTURE



OBJECTIVE

Our corporate objective is to become a technology powerhouse with offerings ranging from office solutions to turnkey systems and green-field projects. Our commitment is to work on consistently delivering cost-effective and professionally implemented solutions.

“Our value proposition is founded on designing and conceiving solutions specifically answering our customers’ functional and business needs and on prioritizing customer service & technical support by making it a core component of our programs.”

Over the years, the company kept increasing its technical and project implementation capabilities in order to deliver quality services at all levels. OES has access to a wealth of the technical and financial resources necessary to undertake projects of any size or complexity. We have developed partnerships with several industry leaders and technology providers delivering value added in various aspects and fields to our customers and markets and customers. OES has a broad experience in delivering enterprise wide solutions and systems integration services.



In addition, OES is a leader in physical and logical integration and implementation, protecting different size organizations with various levels of complexities, offering installation and maintenance of a wide range of systems and equipment and services.

“We achieve this by constantly communicating with our customers and learning from them in order to improve our services. We strive to stay on top of today’s and tomorrow’s technology to ensure the best services are available to the end user”.

Our Key Strengths:

- Integrated project management for turn-key solutions combining agile methodologies
- Deep knowledge of target operational environment and related problems
- Full control of legacy and emerging technologies from different suppliers
- Knowledge of the specific plant requirements, both internal and external





Our corporate mission and vision fully reflect our commitment to connect both ends of the equation: bring our valued customers exceptional solutions.

Mission

Our mission is to provide leading solutions by installation, testing, commissioning, preventive maintenance, troubleshooting the best Telecommunication, Power and Automation for our customers, with exceptional service, creating value for our shareholders, customers and employees.

Corporate Vision

Our vision is to be the leading builder of quality telecom, Power and Automation industries infrastructure and provide Installation, Commissioning Training solutions as well as operation & maintenance services in today's booming information and industry which will enable our customers to build, maintain, operate and continuously improve their communications infrastructure and IT environment.

OES has set a vision to become a premier solutions provider company providing world leadership in digital solutions for the networked society - a society transformed by personalized solutions, all speaking the same digital language, all able to Communicate anytime, anywhere. In our chosen markets, we are trying to be the leader in client satisfaction, innovation, professionalism and superior quality solutions. We are the architect of responsive, fast, cost effective and creative solutions to our clients' benefit, compensation and their critical needs. Our teams combine technical excellence with a superior understanding of client needs and the environment in which our clients operate. We are committed to working partnerships with our clients that add value and consistently exceed expectations.



OES Engineers Culture

"Well, first of all, it starts with hiring. We are zealous about hiring. We are looking for a particular type of people, regardless of which job category it is. We are looking for attitudes that are positive and for people who can lend themselves to a specific cause. We want people who are interested in performing as a team and take joy in team results instead of individual. It is only attitudes, behaviors and personalities that make up a successful company." (Qamar Hassan Iqbal, CEO) We are committed to specific values consistently applied:

Teamwork

Our overriding loyalty is to the good of the whole organization, driving us to learn from each other for our customer's benefit.

Professionalism

In the services of our customers we are committed to the highest standards of professionalism, pursuing innovation, deploying imagination, being open to new ideas and acting decisively and consistently. We are determined to deliver outstanding quality so that our relationship with our customer is long lasting.



Respect

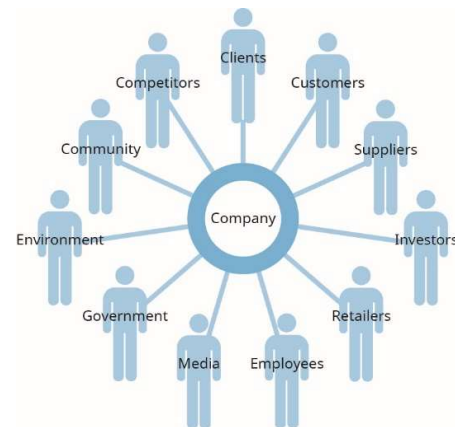
We respect every individual. We draw strength from equal opportunity and diversity, at the same time supporting personal growth and development. We value and we all benefit from the entrepreneurial spirit of each individual.

Integrity

Above all we are committed to integrity in all that we do, always, everywhere.

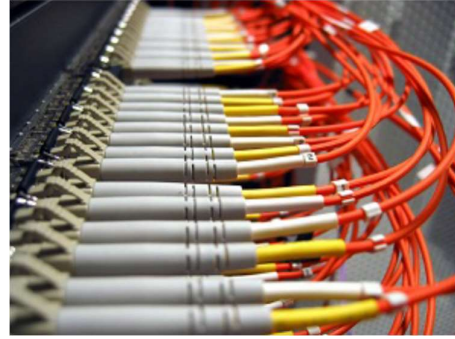
Core Competencies

- World's best and renowned Principals in the related fields
- Professional and trained workforce to provide maximum output
- Wide experience of various engineering fields that make us the best choice for clients in integrating and optimizing high quality solutions
- Proven Track record of successfully completed projects and long list of satisfied clients



OES TELECOMMUNICATION WORKS

Ocentra Engineering Services is focusing on providing business process outsourcing (BPO) solutions to its customers. Our assets are our diverse talented staff and access to seasoned, multilingual, best-in-class professionals. Having worked inside wireless operations in Pakistan, OES team members apply objective competence and industry standard tools to mission-critical projects, provide end to end outsourcing solutions and deliver unparalleled service. The team can effectively manage the lifecycle of every project to ensure that client needs are successfully met.



OES portfolio of telecom services provides tailored solution based on our customer requirements. We plan, deploy and maintain your telecom networks covering project management, operational support, customer care management, systems integration, value added service platforms and network consultation.

OES works as a business partner enabling you to select the right level of support, from simple advice up to a turnkey service that allows you to concentrate on developing your core business.

Telecommunication SERVICES

Adhering to the quality standards we continuously keep on improving our internal systems as well as developing technologies necessary to achieve our goals. OES is now one of the top services providers of Pakistan. The vision of the founders backed by solid perseverance was to set up a successful engineering company that would meet international quality standards. Below Field Cover in telecom Industry:



Telco Services

- ❖ MW Transmission (point to Point &
- ❖ LOS & Engineering Surveys
- ❖ 3G Rollout & upgrade Projects
- ❖ LTE Projects
- ❖ LTE TDD & LTE 800 Projects
- ❖ IBS (In building Solution) projects
- ❖ Installation & Dismantling
- ❖ Commissioning and Integration of All
- ❖ telecom Equipment's
- ❖ Link Budgeting



- ❖ Installation & Commissioning
- ❖ Link Integration
- ❖ NMS Design & Implementation
- ❖ Operation & Maintenance
- ❖ Spares Management

Telecom Infrastructure (Power & CW)

- ❖ Supply & Tower Erection
- ❖ Painting Works
- ❖ Tower Foundations
- ❖ Access Roads
- ❖ Shelters Foundations Pad
- ❖ Earthling Works for BTS
- ❖ BTS & Genset rooms
- ❖ Boundary walls & Fencing
- ❖ Genset Supply for Towers
- ❖ Supply and Fixing of Electrical Panels
- ❖ Internal & External Wiring of Rooms
- ❖ Tower Electrification
- ❖ Electro-mechanical erection /
- ❖ Installation works



OSP works

- ❖ Survey & Design
- ❖ Trenching
- ❖ Cable Pulling
- ❖ Fiber Splicing
- ❖ Racks & FDH installations

- ❖ Chamber Construction

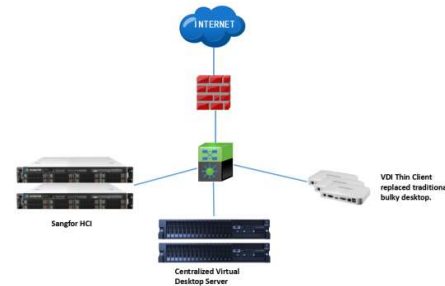
FTTH Works

- ❖ Survey and Design
- ❖ Trenching
- ❖ Cable pulling
- ❖ Fiber Splicing
- ❖ Main Fiber installation works
- ❖ Fiber OTDR Testing
- ❖ Power Testing
- ❖ Rack installations
- ❖ Installation of FDH
- ❖ Installation of CAP & NAP.



FLEXIBLE NETWORK MANAGEMENT

As a provider of telecommunications communication solutions for operators and utility networks, OES knows about the importance of flexible network management system solutions for our clients. Lean on-site management as well as integration of a variety of different communication devices of a utility network into an overall solution is key. OES uses customized NMS-suite and web-based management approaches, all NMS requirements can be covered in a modular, customer-friendly way. Management not only addresses fiber optic equipment but also a wide comprehensive range of PLC, Power Solution, wireless and switch / router solutions.



Engineering and consulting

We identify opportunities and solutions to improve systems and equipment. These services provide you with professional and assured way to roadmap your project. We take your ideas and requirements and apply our wide range of application experience and technical competence to produce conceptual designs and indicative costing.

Installation and commissioning

Initial erection, start-up and commissioning services of new equipment and systems.



Maintenance and Field Services

Preventive, predictive and corrective maintenance services to maximize the reliability and availability of equipment and systems.

Training

We offer training for engineers, operators, and programmers, maintenance e personnel about products, systems, processes and technology.



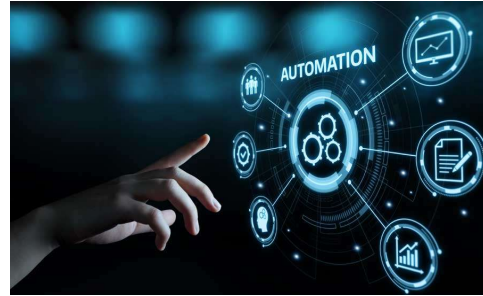
Telecom Project Detail:

Sr. No	PO #	Date of PO Issue	Company	Vendor	Type of Work
1	PKTI20141101-1-220	11/17/2014	Arklays Technologies (Private) Limited	ZTE	SDR Swap
2	PKTI20141101-1-218	11/24/2014	Arklays Technologies (Private) Limited	ZTE	SDR Swap
3	PKTI20141101-1-220	11/24/2014	Arklays Technologies (Private) Limited	ZTE	SDR Swap
4	PKTI20141101-1-218-2	11/29/2014	Arklays Technologies (Private) Limited	ZTE	SDR Swap
5	PKTI20141101-1-220-3	11/29/2014	Arklays Technologies (Private) Limited	ZTE	SDR Swap
6	PKTI20141101-1-218-3	12/13/2014	Arklays Technologies (Private) Limited	ZTE	SDR Swap
7	PKTI20141101-1-218-4	12/20/2014	Arklays Technologies (Private) Limited	ZTE	SDR Swap
8	PKTI20141101-1-220-4	5/10/2015	Arklays Technologies (Private) Limited	ZTE	SDR Swap
11	10210053167-83	6/1/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
12	10210053167-99	6/9/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
13	10210053167-120	6/15/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
14	10210053167-152	7/7/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
9	S1PK2017031609W BF1-35	7/8/2017	Signal & Binary Engineering (pvt) LTD	ZTE	Dismantling
10	S1PK2017031609W BF1-114	7/9/2017	Signal & Binary Engineering (pvt) LTD	ZTE	Dismantling
15	10210053167-158	7/11/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap

16	10210053167-161	7/11/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
17	10210054325-1	7/17/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
18	10210054325-2	7/18/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
19	10210054325-39	8/1/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
20	10210054325-42	8/3/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
21	10210054325-43	8/7/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
22	10210054325-44	8/7/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
23	10210054325-54	8/10/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
24	10210054325-99	9/7/2017	Spine Engineering (pvt) LTD	Huawei	3G/4G Swap
25	Chak No 97/W.D.	10/18/2017	Concept Creators & Communications(CCAC)	PTCL	Fiber Laying
26	Khuni Kabrastan, Sheikupura	11/19/2018	Concept Creators & Communications(CCAC)	PTCL	Fiber Laying
27	MSAG at Township	1/3/2019	Concept Creators & Communications(CCAC)	PTCL	Fiber Laying
28	MSAG DC-8 Arifwala	7/8/2019	Concept Creators & Communications(CCAC)	PTCL	Fiber Laying
29	MSAG DC-3 Arifwala	7/15/2019	Concept Creators & Communications(CCAC)	PTCL	Fiber Laying

Automation WORKS

Ocentra Engineering Services also is a solution provider of automation, processes control and SCADA systems. From design, installation, testing, commissioning, Training to maintenance and operation we offer full spectrum of services to construction sector.



OUR Automation TEAM

We pride ourselves on the highly skilled and motivated engineers that we have. We have a highly skilled and multi-disciplined team of engineers and technicians with a wealth of industry knowledge and expertise. They always work in partnership with clients to provide optimum solutions that are tailored to meet their specific needs.

Our highly educated and certified team is able to offer complete solutions in the field of industrial automation and process control, starting with the basic project design, through complete equipment delivering and assembling, to on-site services, start up and customer training. We can also offer consultant services in this field.

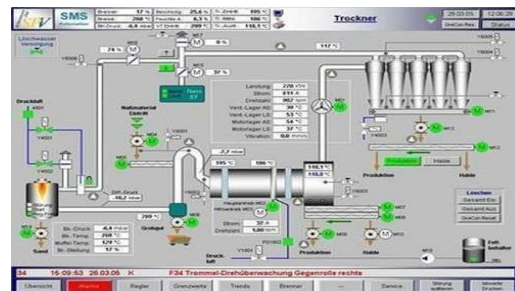


System Design & Validation Functional design, optimum performance and reliable system integration are the result of a thoroughly planned project at its inception. OES engineers work directly with owners, engineers and contractors during the system design phase to ensure cost effective and workable system solutions. Communications & Telemetry solutions Well-engineered communication systems are a critical requirement for reliable SCADA and process control systems. OES can help you design, implement, and maintain your communication infrastructure to provide secure, robust, and fault-tolerant system architectures.

Automation SERVICES

INDUSTRIAL AUTOMATION SOLUTIONS

OES Automation Division offers turnkey integrated Industrial Automation Solutions starting from the plant floor (PLC/HMI, SCADA) and continuing up to the Manufacturing Information Systems (MIS). This helps us enable our clients in optimizing their process in return achieving the highest level of efficiency by maximizing system availability and minimizing system downtime, at the same time maintaining upper level supervision and real-time monitoring offering the followings:



TURNKEY PLC/SCADA SOLUTIONS

We take full responsibility for the engineering, procurement of control hardware and instruments, control panels fabrication, PLC/SCADA software development, field installation, commissioning, and startup of industrial control systems. Our project execution goes through the following steps:

- ❖ Control System Detailed Design, including:
 - I. System Architecture Drawings
 - II. IO Point List
 - III. Instruments List
 - IV. Functional Design Specifications (FDS)
 - V. Control Panel Drawings
 - VI. Instruments Selections
 - VII. I/O Wiring Drawings
 - VIII. viii. HMI Screens Design
 - IX. ix. Data Acquisition Requirements
 - X. x. Reporting Requirements
- ❖ Procurement of Control Hardware and Instruments
- ❖ Control Panels Assembly
- ❖ Software Development
- ❖ Factory Acceptance Test (FAT)
- ❖ Field Installation
- ❖ Commissioning and Startup
- ❖ Sit Acceptance Test (SAT)
- ❖ Training
- ❖ O&M Manuals



FIELD SERVICES

- ❖ Installation of Field Instruments
- ❖ Installation of Field Cabling and Containments
- ❖ Instrument Field Calibration Services
- ❖ Maintenance Contracts
- ❖ Control System Upgrade Services



CUSTOM INDUSTRIAL SOFTWARE DEVELOPMENT

We offer the development of custom industrial software solutions that interface with existing systems and processes. These solutions are made to fit the customer's maintenance and planning or any other needs and requirements. Moreover, we have developed a plug-and-play troubleshooting and maintenance suite that has proven to be handy in various applications; our software developers have the ability to develop custom software for our customers' specific requirements.



External Technical Training

At Ocentra Engineering Services, because we want to build sustainable relationship with all of our clients based on mutual respect, shared knowledge and professional collaboration, we are working harder to support and facilitate training.

Our commitment is to ensure availability and implementation of essential competences for the desired achievement and success of our client's organization.

Our hands-on technical training modules and training equipment have been designed to meet the highest requirements in terms of accuracy, durability, and reliability and user safety. Every training course provides a detailed student guide and exercises containing several hour of technical training designed by experienced professionals. These courses are available at Ocentra Engineering Services office in Lahore or can be Online.



Solar PV Systems

Ocentra Engineering Services is a leading provider of comprehensive solar energy solutions including;

- ❖ **Solar photovoltaic (PV) systems,**
- ❖ **Solar Thermal Systems**
- ❖ **Solar water pumping systems.**

Ocentra Engineering Services has done installation of many Home based Solar PV system & solar pumping system in all over the country, our proven Solar Engineering Solutions and Installations has reduced the risk of fuel-price volatility while delivering a levelized cost of electricity (LCOE) that is cost competitive with fossil fuels today.

By integrating technologies and expertise across the entire solar value chain, OES delivers solar energy solutions that maximize the value of our customers' investment while minimizing their risk.

We have developed, engineered, constructed, and put in operation some of the most successful solar power systems in existence; So Ocentra Engineering Services has become the partner of choice for the **No. 1** solar companies in Pakistan.



Ocentra Engineering Services is like a new planet in the solar system, absorbing the solar energy consistently from the sun and converting that energy in to clean electricity power for changing the lives of human beings.

Our motive is to save this Beautiful Planet and also to shake hand with the people of Pakistan to share the Power outage problems.

With the help of ever-lasting abundant energy from the sun, our mission can be carried out successfully.

We believe that our devoted TEAM is capable to develop a Greener Pakistan



Our Services:



Our expert team has the capability to undertake:

- ❖ Site Evaluation/Assessments.
- ❖ Project designing.
- ❖ Techno-economic feasibility studies.
- ❖ Development, installation.
- ❖ Monitoring and Support Services.

Our EPC Consultancy Services include:

- ❖ Engineering design Documentation
- ❖ Technical tender documentation
- ❖ Turnkey solution for Solar Project construction
- ❖ Business development

Solar PV Systems

Solar Photovoltaic (PV) is a method of generating electrical power by converting solar radiation into direct current/electricity using Solar PV Panels.

There are 2 types of Solar PV Systems



1. On-Grid

In On-Grid PV Systems, the power generated from PV Panels is inducted to the utility grid. On-Grid Inverters help in synchronizing the Power produced by PV Panels with the Power available in the grid. Batteries are not employed in an On-Grid PV System so it works only in the presence of sun.

Benefits

1. We can cut down the charges of utility bill
2. In some countries, if the PV Power generation exceeds consumption limits, it is fed back into the Grid which is then paid for by the Electric Power Supply Company.



Drawback

It needs utility power or generator for synchronizing the solar power. If Utility fails or load shedding occurs then solar power will also terminate.

2. Off-Grid and Hybrid

In Off-Grid PV Systems, Electricity supply from the Grid has no role to play. Off Grid PV Systems are independent systems and these are mostly installed in remote areas where electricity is not available so no load shedding occurs. These PV Systems include several batteries and charge controllers.

Benefits

The inverters used in these types of systems are off-grid inverters which do not need to be synchronized with Grid for producing AC voltage.

Drawback

Due to batteries the cost of the system is high.

Solar Water Pumping Systems

A solar water pump is a pump running on the electricity generated by photovoltaic panels.

Benefit

1. There is no fuel cost
2. It can provide water in remote areas where availability of utility power is not possible.



Drawbacks

1. Cost of the system is high
2. In case of cloudy weather the water output will suffer.

Solar Project Detail:

ON Grid Project Installations as an EPC Contractor:

S. No.	Project Name	Project developer	Project Size	Location	Status
1	Crescent Textile Mill	Green Volts Energy(pvt)	1.14MW	ShahKot	Completed
2	Bismillah Rice Mill	Ocentra Engineering Services	1 MW	Buchaki	Completed
3	Best Exports pvt Ltd	Green Volts Energy(pvt)	500KW	Faisalabad	Completed
4	JSK Group	Ocentra Engineering Services	110KW	Attack	Completed
5	Residency	Ocentra Engineering Services	10KW	DHA Lahore	Completed
6	Residency	Ocentra Engineering Services	50KW	Model Town, Lahore	Completed
7	Residency	Ocentra Engineering Services	40KW	DHA Lahore	Completed
8	Residency	Ocentra Engineering Services	20KW	DHA Lahore	Completed
9	Residency	Ocentra Engineering Services	20KW	Orchard Scheme, ISB	Completed
10	Residency	Green Volts Energy(pvt)	30KW	Gulberg Lahore	Completed

Note: Only for Reference already done more than 100 projects.

OFF/Hybrid Grid Project Installations as an EPC Contractor:

S. No.	Project Name	Project developer	Project Size	Location	Status
1	M.K & Sons	OES	10KW	Kasowal	Completed
2	Residency	OES	10Kw	Valencia Town, Lahore	Completed
3	Bemsol Engineering	OES	10KW	NESPAK, Lahore	Completed
	Residency	OES	5KW	Township, Lahore	Completed
	Residency	OES	5KW	Al-Hafeez Garden, Lahore	Completed
4	Trust	Al Kannan Engineering	3.6KW	Barki Road, Lahore	Completed
5	Food Manufacturer	Al Kannan Engineering	2.4KW	Kana, Lahore	Completed



Ocentra Engineering Services

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