



Engineering General Consultants
EGC (Pvt) Ltd.

Company Profile





OUR MISSION

To work hand-in-hand with the project team towards achievement of goals and tasks assigned, maintaining high quality of work and coming up with viable, cost effective solutions employing latest professional techniques and standards to the satisfaction of the Client in a timely and efficient manner.

INTRODUCTION

www.egcpakistan.com



Engineering General Consultants (EGC) was established as a Firm in 1987 to provide consultancy services in different development sectors. Engineering General Consultants EGC (Pvt) Ltd. was incorporated as a company in 1994. EGC now is a 100% subsidiary of SMEC International, Australia.

Engineering General Consultants EGC (Pvt) Ltd. is one of the most active consultancy companies providing services for survey, investigations, planning, preparation of feasibility studies, detailed designing, project management, construction supervision of multi-dimensional and multi-sectoral projects in various sectors specially the following:



EGC has a large pool of senior, middle and junior level professionals in various disciplines including engineering, social, economics, management, environment, agriculture, natural resources, forestry, information technology etc.

EGC has provided consultancy services to clients such as World Bank (WB), Asian Development Bank (ADB), Commission of European Communities, Water and Power Development Authority (WAPDA), National Highway Authority (NHA), Planning & Development Division, Government of Pakistan, various Departments of the Provincial Governments including Planning & Development, Communication & Works, Irrigation & Power, Agriculture, Tourism Department, Lahore Development Authority, Rawalpindi Development Authority, Fauji Foundation, various Ministries and Autonomous Bodies of the Government of Pakistan and Provincial Governments.

■ Corporate Registration No.	L06854
■ PEC Registration No.	Consult/396
■ World Bank Registration No.	3374
■ ADB Registration No.	000299
■ TUV AUSTRIA CERT ISO	14001:2004
■ TUV AUSTRIA CERT ISO	9001:2008
■ National Tax No.	1429589-0



Scope of Services

- Survey
- Planning
- Investigations
- Feasibility Studies
- Detailed Designing
- Construction Supervision and Project Management
- Quality Assurance
- Information Technology (IT)
- GIS & Mapping
- Institutional Development & Capacity Building
- Financial and Economic Appraisal



Human Resources of EGC

Sr #	STAFF CATEGORY	No.
1	Managing Director/ CEO	1
2	General Managers/ Chief Engineers	9
3	Principal Professionals/ Engineers	87
4	Senior Professionals/ Engineers	62
5	Junior Professional/ Engineers	42
6	Para Professionals/ Technical Staff	145
7	Administrative Staff	37
	Total Pakistan Staff:	383

POWER GENERATION INCLUDING HYDROPOWER

Dams, Hydropower, Thermal Power, Transmission Systems



Hydropower sector provides services for Dams & Hydropower Projects which mainly include: Hydropower Resource Assessments, Ranking Studies, Pre-Feasibility Studies, Feasibility Studies, Detailed Engineering Designs, Bidding Documents, Engineer's Estimates, PC-I, Construction Supervision, Equipment Installation and Project Management of Dams/Hydropower Projects. We accomplish our mission by applying our proven knowledge and experience to support our clients' vision, strategy and objectives. Our professionals are committed to provide optimum solutions by using their experience and expertise. This group has successfully carried out several projects independently and in association with several renowned local and international consultant companies. We aim at forming strong, long-lasting relationships with our clients, based on mutual trust, integrity and professionalism.

Some Major Projects

- Design Review and Construction Supervision of 720 MW Karot Hydropower Project
- Project Preparation Consultant for Tranche 4 of Power Transmission Enhancement Investment Program
- Monitoring & Evaluation of Tarbela 4th Extension Hydropower Project
- Detailed Engg Design and Preparation of Tender Documents for MUNDA Dam HPP (740MW)
- Facility Management Consultant and Services for (FMC) for Power Distribution Enhancement Investment Program
- Design Review and Construction Supervision of Lawi Hydropower Project (69MW) District Chitral Lower
- Feasibility Study of Gahrait-Swir Lasht Hydropower Project District Chitral (Lower), KPK
- Feasibility Study of 52 MW Istaru-Booni Hydropower Project District Chitral
- Feasibility Study, Detailed Design and Tender Documents for 1100 MW Kohala Hydro Power Project in AJK
- Feasibility Study of 720MW Karot Hydro Power Project including Env. and Social Assessment Studies in Punjab/AJK
- Feasibility Study of Shogo-Sin (132 MW) & Shushgai-Zhendoli (144MW) Hydropower Project in Chitral region
- Design Review and Construction Supervision of 14 MW Nalter-V project in Northern Areas of Pakistan
- Design and Supervision of 3 High Head Hydro Power Projects (Allai Khawar, Duber Khawar and Khan Khawar) incl: reservoirs
- Review & Up-gradation of Preliminary Feasibility Study of Basha Dam Project
- Power Transmission Enhancement Program, Tranche-1. (PMU Support)
- Clean Development Mechanism (CDM) of Ghazi Barotha, Khan Khwar, Kohala and Phandar Hydropower Projects.

TRANSPORT & INFRASTRUCTURE

Motorways, Highways, Traffic Engineering, Railways & Infrastructure



This division is one of the most active division of the company with its individual turnover ranking high amongst the local Consultants. The division provides complete services in highway and infrastructure engineering from conception to inception for rural roads to expressways, motorways, railways, bridges and infrastructure works. The services provided include geotechnical investigations, foundation design, highway drainage & hydrological studies, traffic engineering, geometric design, structural engineering, hydraulic design, pavement design, construction supervision & quality assurance.

Some Major Projects

- Assistant to Employer (AER) for Peshawar-Karachi Motorway, Sukkur-Multan Section (392 km)
- Design of Roads and Bridges (Haveli, Kotli & Poonch Districts) Package Number: AK-DC-4, FERP, AJK
- Construction Supervision for Improv. of 18 District roads with total length=232 KMs in District Multan, Vehari, Lodhran
- Flood Emergency Reconstruction Project (FERP) for Design and Construction Supervision for North Package NHA, funded by ADB
- Project Management Consultants (PMC) for Flood Emergency Reconstruction Project funded by ADB
- Design Review and Construction Supervision of 4-Lane Motorway (M-4-Extension) from Khanewal to Multan (57km approx)
- Design Review & Construction Supervision of Lahore-Islamabad Motorway Project (M-2) including interchanges.
- Detailed Design, Tender Documents and Construction Supervision for Rehab. and Reconstruction of Earthquake Damaged Muzaffarabad-Chakhoti Road (C-17) including 3 major bridges of Jhelum Valley in Azad Jammu & Kashmir
- Detailed Design, Supervision, Feasibility Study and Tender Documents of Provincial Highways and Rural Access Roads in Balochistan
- Design Review and Construction Supervision of National Highway Rehabilitation Project (N-5). (Contracts C-02, C-07 & C-11-B)
- Feasibility Study and Detailed Engineering Design and Tender Docs for 366 km Chaghcharan-Garden Dewall/ Zarkharid Section Highway including bridges in Afghanistan
- Feasibility Study and Construction Supervision of 425 Km Roads for D.G. Khan Development Project
- Construction Supervision of Roads of Faisalabad Highway Circle 244 Km in Length, Provincial Highway Division, Faisalabad (131 Km) Provincial Highway Division, Jhang (113 Km).

ENVIRONMENT & SOCIAL DEVELOPMENT

EIA, IEE, EMP, SIA, Resettlement Plans & CDM



As a result of the need to manage the environment and to control and regulate the developmental activities, which affect the physical as well as social environment, various studies aiming at the EIA have been undertaken by Environment and Social Development Division of EGC. The studies not only involve the impact identification but also an assessment of the magnitude of the impacts and the proposed mitigation measures. Besides the physical factors, e.g. air pollution, water pollution, noise, chemical hazards, seismic upheavals, biological disruption, as well as those related to water supply, sewerage, drainage, treatment, the socio-economic characteristics of the project are also taken into consideration. Projects handled by this Sector also include a number of projects funded by IFIA, such as ADB, WB, JICA etc.

Some Major Projects

- Sectoral Environmental and SA Study and RAP for Rehabilitation of National Highways in Pakistan
- EIA for Earthquake Damaged Roads. Rehabilitation in AJK NWFP Areas. i. Jhelum Valley Road ((JVR) and Murree – Kohala Road (S-2) ii. Bisian – Balakot – Kaghan Road , (N-15) iii. Battal – Batgram –Thakot Road, (N-33)
- Preparation & Implementation of RAP for Sehwan to Khairpur Nathan Shah and Khairpur Nathan Shah to Ratodero (N-55)
- Feasibility Study including EIA & RAP for Rehabilitation of Balloki, Jinnah Barrages and Islam Head Works
- Sectoral Study on Environmental Technology and Infrastructure
- Environmental Impact Assessment Study for 3000 Tons per day Cement Plant, Fauji Foundation (Fauji Cement Company Ltd)
- EIA for 720 MW Karot Hydro Power Project
- EIA and RAP study as part of Feasibility Studies of Shogoin and Sushgai Hydropower Projects.
- Environmental and Social Soundness Assessment (ESSA) Study of 700 MW Oil Fired Power Plant at Hub, Balochistan
- Pre-Feasibility Study including EA for Development of Mari Hill Top as a Tourist Resort, District, Rajan Pur
- Feasibility Study for Installation of Chairlift/ Cable Car System with Allied Facilities including EIA & SIA at Fort Manroe, Distt. D.G. Khan
- Clean Development Mechanism (CDM) of Ghazi Barotha, Khan Khwar, Kohala and Phandar Hydropower Projects

AGRICULTURE & OFWM

Agriculture, OFWM, Livestock, Agri-Economics



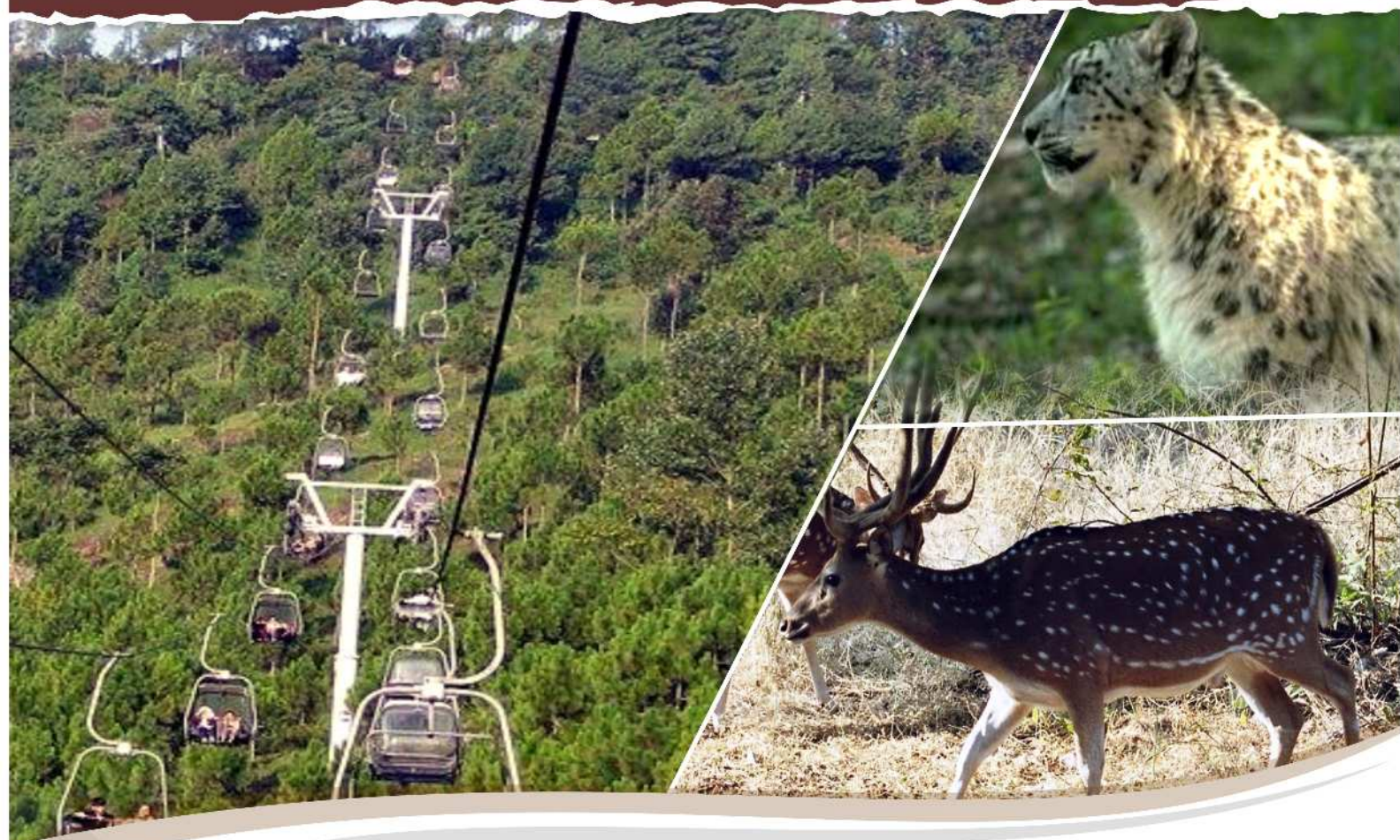
The division has the capability to provide consultancy services in the areas of soil studies, land evaluation, agriculture, agri-economics, agricultural engineering, agronomy and livestock to improve the agriculture production through enhancement of availability of water level, advisory services to increase productivity of the lands through changing crop pattern, soil fertility etc. depending upon the agronomy of the area, on-farm water management etc.

Some Major Projects

- On-Farm Water Management Program, Asian Development Bank, Department of Agriculture, Punjab
- On-Farm Water Management as part of Support to Project Management Unit, for Monitoring and Evaluation of Lower Bari Doab Canal Improvement Project (LBDCIP) (ADB funded)
- National Programme for Improvement of 29000 Watercourses in Districts of Hyderabad & Mirpur Khas, Sindh as part of OFWM Programme
- Development of Curriculum & Syllabi for OFWM Trainers in D.G. Khan District
- Agronomy and Crop studies as part of feasibility study for Cholistan Irrigation, Drainage Project and Kurram Tangi Dam

FORESTRY, WILDLIFE & TOURISM

*Horticulture & Parks Development, Watershed Management,
Wildlife & Tourism Development*



Services provided include Ecology, Biology, Forestry, Wildlife, Fisheries, Parks, Wetlands, Watershed Management, Range Management and those catering for the recreational and touristic requirements. Many of the studies undertaken by this Division are integrated with the environmental impact assessment projects and/ or irrigation, hydel power, highway and other construction projects. Important projects undertaken in the past few years, are highlighted below:

Some Major Projects

- Feasibility Study, Master Planning, Strategic Business Plan & Project Docs for State of the Art Zoo, Multan
- Master Plan for Forestry Development and Resource Mobilization of Pakistan (ADB funded)
- Land Ownership and Tenural Arrangements in Forests and Rangelands (ADB-funded).
- Tarbela-Mangla Watershed Management Program, including training and workshops.
- Farm Forestry Survey of Pakistan (part of Forestry Sector Master Plan)
- Feasibility Study for Installation of Ropeway with supporting facilities for Jhika Gali to Murree and from Dhobi Ghat to Murree to develop Tourism.
- Feasibility Study for Installation of Chairlift/ Cable Car System with Allied Facilities at Fort Munroe, Distt. D.G. Khan to promote Tourism
- Pre-Feasibility Study for Development of Mari Hill Top as a Tourist Resort, District, Rajan Pur.
- Watershed Management Works of Rawal Dam.

INFORMATION TECHNOLOGY

IT Infrastructure Development, Software Engineering, Database Management, Programming, MIS, GIS & CAD Management



EGC has very advanced level Information Technology (IT) Department which looks after IT Infrastructure including hardware and software needs of clients, projects and the company. The services offered include planning, designing, development and implementation of systems and IT infrastructure. Main areas of expertise include Management Information System (MIS), Designing/development, programming, office automation, web development, business intelligence (BI) system, geographic information system (GIS) and CAD Management.

Some Major Projects

- Project Monitoring Information System (PMIS) for WAPDA on World Bank funded Monitoring & Evaluation of Tarbela 4th Extension HPP
Major Components include:
 - Key Performance Indicators (KPI) Monitoring Dashboard using Business Intelligence Techniques,
 - Daily Site Performance Monitoring,
 - Project Financial Monitoring & Earned Value Analysis
 - Document Management System (DMS)
- Management Information System (MIS) dev. incl: online GIS based Assets Management System for Punjab Saaf Pani Company Package-II
- IT Infra. Planning & Designing for Central Data Sharing Center, Strategic Sectoral Env. and Social Assessment (SSEA) for Indus Basin (World Bank funded)
- IT Infrastructure Planning, Designing and Tender docs preparation for World Bank funded project for capacity building of Afghanistan Urban Water Supply and Sewerage Corporation
- Management Information System (MIS) Development and Implementation for Lower Bari Doab Canal Improvement Project (ADB funded) with following Online Real-time components:
 - Physical Progress Monitoring System
 - Financial Management System (FMS)
 - Project Performance Management System (PPMS) under the framework set by ADB
- Development of MIS / GIS Model for N-5 from Karachi-Peshawar for Sectoral Environmental and Social Assessment Study (SEA) for Rehabilitation of National Highways in Pakistan.
- Development and Implementation of Business Development Management System (BDMS) comprising of CV Bank, PDS Bank & Proposals Data knowledge base, Document Management System (DMS), Human Resource Management System (HRMS), Debtor Tracking Alerts System.
- CAD Management – Surface modeling, contouring, designing support, 3D modeling and GIS modeling in different projects.

WATER RESOURCES, DAMS & IRRIGATION

Water Resources Development, Irrigation, Barrages & Drainage



This division provides services for planning, design, resource assessment, ranking, pre-feasibility studies, feasibility studies, tender documents, construction supervision, operation & maintenance and monitoring of water resources projects including (irrigation, flood control, groundwater studies, structures, canal and drainage, flood control etc.).

Some Major Projects

- Pothohar Climate Smart Irrigated Agriculture Project (PCSIAP)
- Construction Supervision of Pakpattan & Suleimanki Barrage Improvements Project
- Construction Supervision & Design of SMB Link Canal
- Rehabilitation Upgrading & Improvements of Trimmu and Panjnad Barrages Project
- Construction Supervision of New Khanki Barrage (NKB) and Auxiliary Works including Preparatory Works.
- Punjab Implementation Consultants (PICs) for the Punjab Barrages Improvement Phase-II Project (PBIP-II), Jinnah Barrage
- Feasibility Studies for Rehabilitation of Balloki Headworks, Jinnah Barrage, Islam Head Works
- Detailed Design and Supervision of Kachhi Canal and Drainage Project
- Sehwan Barrage Complex (Irrigation & Agriculture Project) - Detailed Engineering Studies and Tender Documents
- Detailed Hydraulic / Structure Design and Supervision for Remodelling/Reconstruction major structures B.S. Link II
- Review of Feasibility Study of Gomal Zam Multipurpose Project (Phase – 1)
- Feasibility Study for Cholistan Irrigation Project Phase - I.
- Study & Eval. of Safety of Major Irrig. Installations/ Struc. Incl: Khanki Weir, Qadirabad Barrage & 18 other major structures
- Comparative Evaluation of Cost Effectiveness of Canal Lining, Interceptor Drains & Sub-Surface Drainage
- Planning, Designing and Construction Supervision Services for Lower Indus Right Bank Irrigation and Drainage Project (Stage-I)
- National Programme for Improvement of 29000 Watercourses in Sindh
- Design Review and Resident Supervision of Construction of Dhok Tahlian Dam Near Chakwal

PUBLIC HEALTH ENGINEERING

Water Supply, Solid Waste Management, Sewerage and Drainage



This division provides services for and feasibility studies, detailed design, construction supervision and management for water supply, sewerage, drainage, solid waste management and related works.

Some Major Projects

- Punjab Saaf Pani Project-Package 2 (Bahawalpur, Rahim Yar Khan, Lodhran and Bahawalnagar).
- Sindh Cities Improvement Project (SCIP-03) Management and Implementation Support, Planning & Development Dept., Govt. of Sindh.
- Design and Construction Management of Pakistan Urban Water Supply and Sanitation Project Rawalpindi, Phase-I.
- Study and Design for Improvement of Solid Waste Management of Muzaffargarh City.
- Design Review and Construction Supervision of Infrastructure Development including Roads, Water Supply, Sewerage, Drainage, Solid Waste Management for Jubilee Town, Lahore.
- Detailed Design and Construction Supervision of Roads, Water Supply, Sewerage, Drainage etc. of Engg. Univ. Employees Cooperative Housing Society (EUECHS)
- Punjab Rural Water Supply Project – ADB Sector Study
- Design and Construction Supervision of Infrastructure and Buildings of Fauji Foundation Potohar Cement Plant 3000 tons/day.
- Provision of Water Supply in Baba Farid Colony Quid-e-Millat Colony, Ferozpur Road, Lahore.
- Resident Supervision of Construction of Sewer and Appurtenances in various Areas of Lahore, (Part – A & B).
- Survey, Investigation and feasibility study for Reconstruction of Choa Saiden Shah Nullah and Flood Torrent.
- Resident Supervision of Improvement/ Upgradation of Sewerage System in Different Areas of Lahore Group-I.
- Design and Resident Supervision for Improvement of Tajpura and LMP Block Pumping Station Group VI. Contract no. P&S 2430.
- Resident Supervision of Installations/ Construction of 14 Nos 4 – Cfs Capacity T/Wells in Different Constituencies of Lahore.

URBAN & RURAL DEVELOPMENT

Planning, Development & Construction Management



The objectives is to enhance the efficiency of these rural and urban areas through a professional approach to enhance the quality of development activities. In the rural areas, the bulk of employment and productive activities are related to the agriculture sector while the production base of the urban areas is in manufacturing and services. Enhancing the efficiencies of urban and rural areas require a holistic approach, covering the entire socioeconomic spectrum, which involves not only the local governments but also the provincial and federal governments for those functional areas, including policy interventions and oversight, which still remain with them.

Some Major Projects

- Design Review and Construction Supervision of Bahawalpur City Urban Roads.
- Resident Supervision of Construction of Roads in Industrial Area and Civic Centre, Quaid-e-Azam Town, Lahore.
- Construction Supervision of ADB funded 425 kms of Rural Roads in D.G. Khan and Jampur Districts.
- Punjab Rural Water Supply Project (ADB funded).
- Solid Waste Management of Muzaffargarh city as per of urden development programe.
- Balochistan Roads Development Project, Feasibility Study and Detailed Design, Tender Documents and Construction Supervision of Provincial Highways and Rural Access Roads including 6 large bridges.
- Prime Minister's Programme for Housing (Contract PMHA-047, Construction of "C" Type ROW Houses at Dera Nawab Intersection near Bypass Bahawalpur).
- Prime Minister's Programme for Housing (Contract PMHA-027, Construction of "C" & "D" Type ROW Houses at PP&H Site, Faisalabad).
- Construction supervision for widening/ improvement of roads and river bridge in District, Okara.
- Widening/Improvement of Okara-Marripattan, Bridge over River Ravi at Syed Wala Pattan, Depalpur Bunga Hayat Road, Chunian-Sulemanki Link Haveli Lakha Road.

CONSTRUCTION MANAGEMENT

Resident Supervision, Construction Management & Supervision



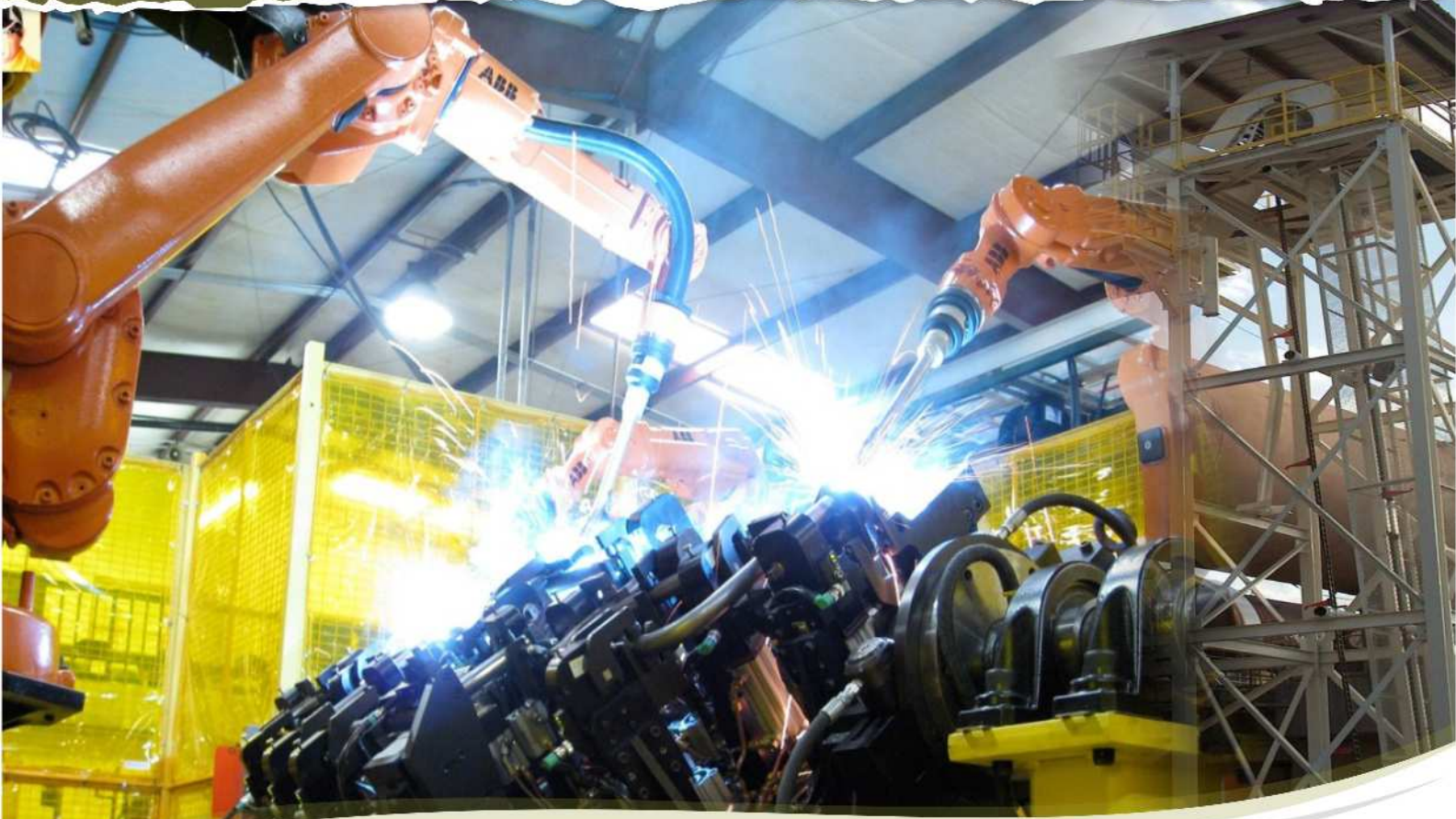
The division provides services for construction management of preparation of cost estimates, equipment operational costs, preparation of construction schedules, constructibility assessment, construction planning, equipment and resources balancing, critical path networks, financial plans, variations in costs, claims management and arbitration, preparation and interpretation of contract documents (conditions and specifications), equipment procurement, maintenance, repair plans etc.

Some Major Projects

- Resident Supervision of Two Sections of Lahore-Islamabad Motorway Project.
- Design and Construction Management of Pakistan Urban Water Supply and Sanitation Project Rawalpindi Phase-I.
- Design Review and Construction Supervision of Infrastructure Development for Jubilee Town, Lahore
- Design Review and Resident Supervision of Construction of Dhok Tahlian Dam.
- Detailed Design and Construction Supervision of Roads and Civic Centre of Engg. Univ. Employees Cooperative Housing Society (EUECHS)
- Resident Supervision of Improvement/ Upgradation of Sewerage System in Different Areas of Lahore Group-I.
- Design and Resident Supervision and Construction of Roads in Balochistan Province.
- Resident Supervision of Construction of Roads in Okara, Faisalabad, Sargodha, Sheikhpura, Gujranwala and Jhang Districts.
- Design Review and Construction Supervision of National Highway Rehabilitation Project (N-5).
- Design and Supervision of three High Head Hydro Power Projects.
- Design and Construction Management of Pakistan Urban Water Supply and Sanitation Project Phase-I for Rawalpindi City.
- Construction Supervision of selected sections of 10 Roads of Faisalabad Highway Circle with 244 Km Length:
- Feasibility Study , Detailed Design, Tender Documents and Construction Supervision for rehabilitation and reconstruction of Earthquake Damaged Roads in Muzaffarabad-Chakhoti Road (C-17)
- National Programme for Improvement of 29000 Watercourses in Sindh.
- Detailed Design of Structures, Canal, EIA, RAP and Supervision of Kachhi Canal and Drainage Project.

MECHANICAL & ELECTRICAL, POWER ENHANCEMENT & MANAGEMENT

Mechanical & Equipment, Machinery and Structures, Electrical



The division undertakes design and supervision of fabrication/ installation services of mechanical and electrical equipment related to water supply and sewerage works, hydropower plants, head regulators, barrages, and other hydraulic structures, power distribution network evaluation and design of large pumping stations and industrial and production units, industrial equipment.

Some Major Projects

- Evaluation of Mechanical/ Electrical Plants for ICI Soda Ash Factory, Solvent Oil Extraction Plant and Vegetable Oil Industry
- Power Distribution Networks for Housing Schemes
- Preliminary Design of 720 MW Karot Hydro Power Project
- Evaluation of Plant & Machinery of M-2 Motorway Project
- Study & Evaluation of Safety of Major Irrigation Installations/ Structures including Gates, Hoists etc. for Khanki Head Works, Qadirabad Barrage and 18 other major structures, Critical design review of structures, Hydraulic & Mechanical components, setting up numerical model for uplift pressures, engineering design for remodelling & reconstruction works
- Design of electrical/mechanical equipment for 1100 MW Kohala Hydropower Project.
- Power Transmission Enhancement Program, Tranche-1. (PMU Support).

Corporate Office:

49-D-1, Gulberg III, Lahore – Pakistan.

Tel: (+92 42) 35754751

Fax: (+92 42) 35760030

Email: info@egcpakistan.com

Website: www.egcpakistan.com

Islamabad Office:

16-B, Kaghan Road, Sector F-8/4,
Islamabad.

Tel: (+92 51) 2855143

Fax: (+92 51) 2261174

Email: info@egcpakistan.com

Website: www.egcpakistan.com