



ARC TECH ENGINEERING & CONSULTING

Corporate Office:

NLI Tower (2nd Floor)

977, Upper Jashore Road, KDA Newmarket, Khulna-9100, Bangladesh

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ARC TECH is an integrated Engineering Design and Consulting firm based on Electro Mechanical Engineering (MEP) & Structural Engineering Service. We offer innovative design, execution and delivery solutions to its clients in multiple sectors for projects of scale and complexity, whilst managing diverse technological interfaces. **ARC TECH** would ensure quality services within the budget limitation of a client and is committed towards completion of the task within the stipulated time frame to check escalating cost. We undertake the responsibility to satisfy the client's demands to its highest standards.

ARC TECH has emerged on July 1, 2015 with the central objective of supporting utility entities in public and private sector to meet the growing energy needs with expert consultations. **ARC TECH** provides different client services in Project Management, Design & Engineering, Construction, Installation and Testing subject to project requirements of Electro-Mechanical work in Power & Energy Sector as per IEC & BNBC standard.

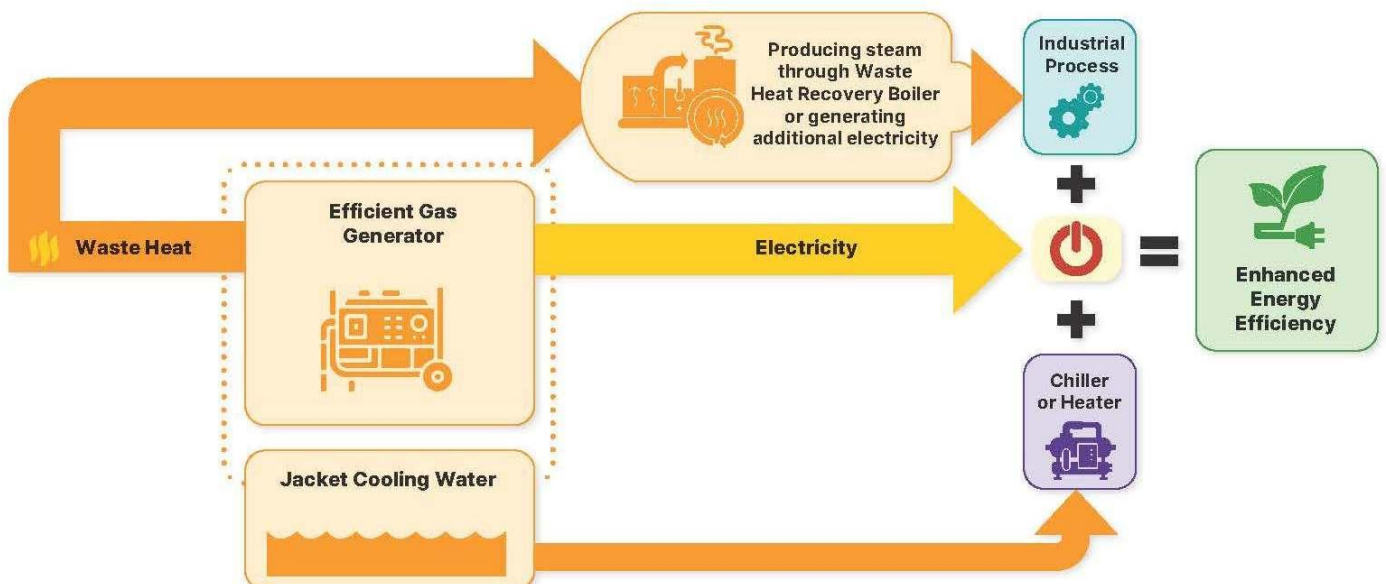
At **ARC TECH**, safe working practices are at the center of our operating philosophy. We are committed to executing projects and delivering value to our clients within the parameters of highest quality and best industry practices according to health and safety standards.

Our Vision & Mission

Our Vision is to be the best-in-class integrated engineering consultancy, management services and construction services provider executing projects to world-class standards for our customers and delivering industry benchmarked value to our client's expectation.

Our Mission is to deliver the State of Art Engineering solutions, which are innovative, safe, cost effective, energy efficient, affordable, environment-friendly, technically superior and upholding top-tier quality with ethical standards to clients, in the power and energy business at home and abroad. We also focus to -

- **Industrial & Manufacturing Infrastructure**
- **LPG & LNG Gas Infrastructure**
- **Hospital Design & Safe Guards**
- **Power & Renewable Energy (Solar, Wind & Hydro)**
- **Water & Environment**
- **Enhanced Energy Efficiency Project**



We believe in quality being a continuous process and routinely conduct on-site awareness programs to retain this focus in our project delivery processes. We are focused on delivering value to our customers at every stage of the project. We want to achieve this with our continuous commitment towards:

Respect for our people

We encourage our people to learn and empower them to innovate. We set objective performance measurement criteria to track both individual and project progress

Respect for the environment

We aim to conduct our operations with minimum damage to the environment and optimum energy consumption, keeping waste creation to the minimum.

Safe operating practices

We believe every incident prevented is potentially a life saved. We encourage safe operating practices through continuous training and awareness programs.

Delivering competitive solutions

We strive to delivered competitive solutions to meet our customers' expectations and we take pride in delivering quality on time to our customers.



Particulars of the Company

1	Name of the firm	:	ARC TECH Engineering & Consulting
2	Registered Address	:	NLI Tower (2 nd Floor) 977 Upper Jashore Road, Khulna-9100
3	Telephone No.	:	+88 01715 856969, +88 01400 491492
4	E-mail & Website	:	Website: www.arctechbd.com Email Address: info.arctech.bd@gmail.com
5	Year of Establishment	:	2015
6	Country of Incorporation	:	Bangladesh
7	Trade License No.	:	21/9038 (2023), KCC, Bangladesh
8	Company Registration	:	The firm was established in 2015 and registered as a Firm. Registration number 17/1846. The firm was reorganized and re-registered in RJSC on 2021 as Partnership Firm, Registration No. KHP-451-2021 of 2021, Registration number 21/9038
9	Type of Business	:	Engineering & Consulting Service
10	Income Tax GIR Number	:	TIN 1990-7372-4168
11	Registration & Enlistment	:	ARC TECH has registered in Following National and International Agencies; <ul style="list-style-type: none"> • Asian Development Bank (ADB) CMS No. 039286 • Khulna Development Authority (KDA), Enlistment No. Ka-42 • External Resources Division of Government of Bangladesh • Member of Bangladesh Association of Consulting Engineers (BACF) which is affiliated to FIDIC

Message from Our Managing Director

Engr. Mukit Hasan has completed his graduation in Mechanical Engineering from Bangladesh University of Engineering & Technology (BUET). He has Professional Experience around 20 Years of Mechanical construction and engineering in Power, Oil & Energy including LPG Sector both in home and abroad. During the tenure of his professional service he has worked in different Multi National Power Generation Service Company i.e. Wartsila & Caterpillar and private power companies as Superintendent Engineer in the field of construction to develop large capacity Power Plant Projects including HFO Fired Engine based power plants. He also has worked in different Management positions of Power, Energy & LPG sector and contributed his expertise in relevant fields of Bangladesh. He also advised a number of private sector companies of Engine based power plant & LPG Plant Projects.



Mr. Mukit Hasan has extensive training in relevant areas such as Power & Energy Sector, Heavy Construction Sector, Energy & Utility Regulation, Oil & Petroleum Sector and Operation & Maintenance.

Our Services

ARC TECH has established a reputation for providing high-value engineering solutions and assisting sophisticated engineering design in the competitive market. Over the years, this reputation has been developed by building a wealth of experience and engineering capabilities across various industries, working with oil and gas operators, pharmaceutical, mining, and various domestic infrastructure projects.

ARC TECH has detailed design capability across all engineering and construction works. These processes ensure strict compliance with code requirements ensuring designs are fit for purpose, are fully optimized, and reflect our approach to engineering.

- Front End Engineering Design (FEED)
- Details MEP Design Work
- Owner's Engineers
- Architectural Design & Structural Engineering
- Techno-Economic Feasibility Study
- Construction Management
- Project Management & Supervision
- Operation & Maintenance Work

ARC TECH specializes in the provision of technical assistance, feasibility study, design, construction supervision, and project management for clients in the governmental, semi-governmental & private sectors and offers comprehensive packages of services to its clients in various fields like institutional development, organizational support & monitoring, electro-mechanical engineering, water management system design, flood control & irrigation engineering, project feasibility study, regional planning, etc.

As the management of the company, we are aware of the need for the consultant engineer to keep abreast of changes and improvements in technology and for this reason **ARC TECH** personnel are continually encouraged to develop in their chosen fields. Our aim at **ARC TECH** is to be known as a multidisciplinary consulting firm with the ability to complete projects successfully in various fields of consulting services in which we specialize.

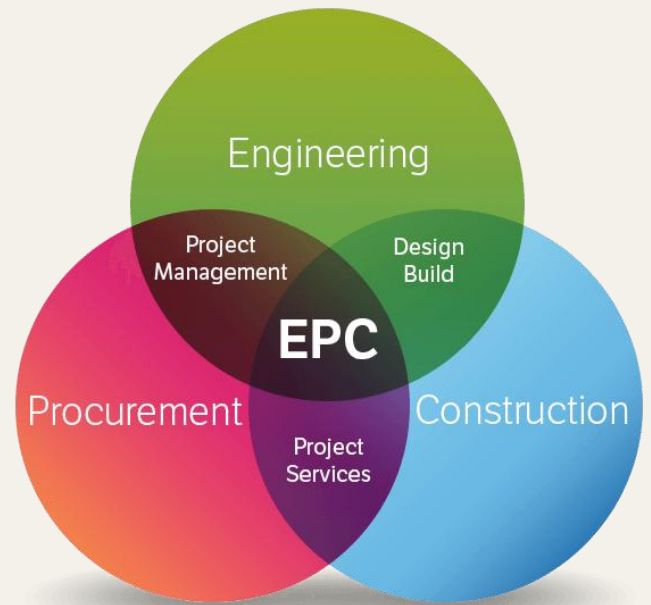


ARC TECH optimizes concept designs through Front End Engineering Design (FEED) projects, enabling clients to make sound investment decisions and execute projects with minimal technical, cost and schedule risks.

We provide informed decision support, cost estimate refinement, detailed project scheduling, and quantitative risk profiling - all of which align with our client's approvals / sanctioning needs. We derive functional requirements for equipment and systems and provide informed support in deriving contracting strategies, collating bidder lists, issuing tender invitations, and performing bid assessments for equipment delivery and installation.

We have extensive experience in various technically demanding national infrastructure projects, together with expertise in a number of niche markets including:

- Hospital Design & Safe Guards
- Onshore Gas / Oil pipelines & LPG / LNG Terminals
- Onshore industrial / accommodation / support facilities
- Hydro & Wind Power Plant
- Port and Jetty / support facilities
- High-Rise Building



Details MEP Design Work

Mechanical Design Work

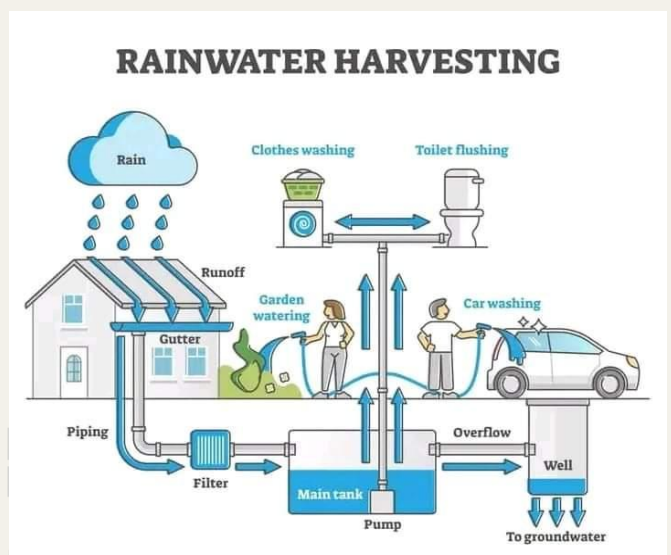
- Mechanical Design & Engineering Work
- HVAC System Design & Heating Load Calculation
- Storage Tank Design & Steel Structure Design
- Detail Mechanical and Piping Design
- Process Plant / Equipment Layouts
- Pipe and Pumping System Analysis
- Thermal Power Generation System Design

Electrical Design Work

- Electrical Layouts & Module Design
- Utility system and LV Power Distribution Panel
- Engine based Power Generation System
- Energy Storage System for Smart Grid
- Earthing System Design as per as per IEC Standard
- MV & HV Power System
- Power & Distribution System (up to 132kV & 230kV)

Plumbing and Fire Fighting Design Work

- Piping & Instrumentation Design (P&ID)
- Fire Fighting System Design
- Pipe Stress Analysis & ASME Pressure Part
- Pressure Piping Design and Registration
- Rainwater Harvesting System



Project Engineering

- On Site Survey & Port Inspection
- Site Selection, Geographic Survey
- Engineering and Procurement Assistance
- Agreement and Contract Review
- Preliminary Design and Documentation

Project Proposal Preparation

- Detailed Engineering Assessment (DEA) preparation
- Technical Specification, GTP Preparation of drawing
- Commercial Proposal Review & Assist Client for Proposal Preparation
- EOI Document Preparation & Review according to PPR-2008

Inspection & Regulatory Restructuring

- Inspection of Passenger Lift, Forklift, Excavator & Wheel Loader, Overhead Crane, Air Compressor, Boiler and Relevant Heavy Equipment on behalf of the Owner.
- Assessment of Regulatory Compliance Requirements.
- Assessment of Present Condition & Asset Valuation.
- Assistance to Regulatory Bodies for Development of Standards, Rules, and Codes



Architectural Design & Structural Engineering

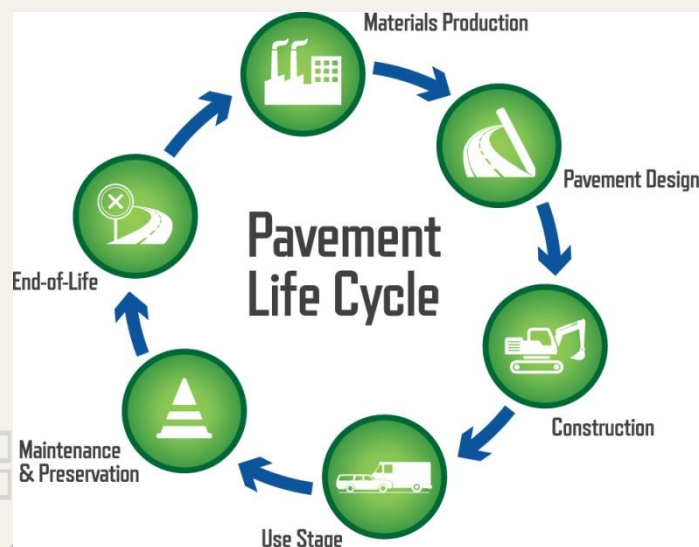
Architectural Design & Structural Engineering is one of the core sides of the company. Our experienced engineers provide full-service and high-value structural engineering design. Our team consists of an expert and engineers that have worked on various technically demanding projects such as large industrial plants, Large Production Sheds and high-rise buildings.

- Design Reviews, Dynamic Analysis and Constructability Reviews
- Warehouse Complexes and Residential building
- Commercial / Industrial building
- Concrete and Precast structure
- Structural Steel Design and Analysis
- Existing Structure Analysis and Review
- Complete Concrete Above & Below-Ground Design Services

Road Design & Construction Management

In Road construction management, We assist our clients to ensure efficient outcomes for their Road & Highway projects. Our experienced team provides real-world, cost-effective solutions to the everyday challenges that owners and contractors face throughout the Road construction process.

- Review of existing Road engineering data
- Geometric & Pavement Design
- Horizontal and Vertical Alignment, Curve Widening Analysis, Road Prism Stability Analysis, Side Cast
- Slope design, Road Surfacing Design
- Road Construction supervision and quality assurance
- BOQ Preparation, Cost estimating and evaluation



Feasibility Study

- Techno Economical Feasibility Study
- Financial & Economic Analysis (NPV, BCR, EIRR, FIRR)
- Cost Estimation and BOQ Preparation of the proposed project
- Regulatory Compliance Study and Recommendation
- Electrical Load Profile Analysis for Specific Energy consumption
- Chemical Plant & Fish Processing Plant

Detailed Project Report Preparation

- Development Project Proposal (DPP) Document Preparation
- Detailed Project Report (DPR) Document Preparation
- Procurement Plan, Project Implementation
- Project Schedule document preparation

Project Management & Supervision

Project Management

- Procurement & Project Scheduling
- Project Cost Estimating, Business Case Development & Expediting
- Project Tendering Documentation and Tender Evaluation
- Construction Contract Preparation
- Equipment Specification and Procurement

Project Implementation & Supervision

- Detailed Engineering Assessment (DEA) document preparation
- Preparation of drawing, Technical Specification, GTP for Govt. Project Proposal
- Project Management & Construction Supervision Work
- Commissioning assistance & Witnessing Performance Guarantee (PG) Test
- Time scheduling, cost control and progress reporting
- Commercial Proposal Review & Assist Client for Proposal



Operation & Maintenance Work

Operation & Maintenance Work

- Machine Operational Contract
- Customized Earthing & Grounding Installation Work
- Solar PV Panel Installation & Backup Power System
- Annual Maintenance Program (Generator & HVAC)
- Spare Parts Management with Procurement
- Industrial Equipments & Spare Parts Supplies

On Site Testing

- Insulation / Megger Test of Motor & Generator
- HT & LT Cable Insulation Resistance Test
- Soil Resistivity Test & Earth Resistance Test
- Complete Test of High Voltage Equipment in Substation & Transformer



ARCTECH renewable team of experts focuses on providing customized, innovative, renewable energy and energy efficiency solutions as well as on-going maintenance and support. Our expertise spans across various technologies including:

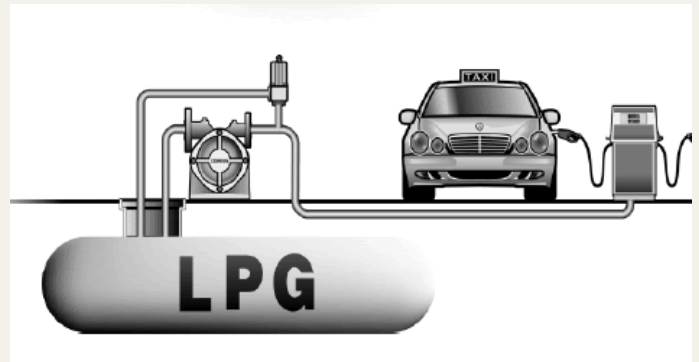
- **Solar power plant**
- **Solar PV**
- **Solar thermal**
- **Wind power**
- **Biogas**
- **Hydropower.**

Service Provided

- Pre-feasibility/ fatal flow analysis studies
- Feasibility studies of solar based power plant
- Engineering survey support
- Environmental and social impact assessment
- SHS, solar mini-grid system and solar nano grid
- Solar House Hold (SHS)
- Solar irrigation pump
- Floating Solar

Additional Service Provided

- Turnkey renewable energy solutions
- Consulting & advisory services
- Energy management programs & training
- Energy efficiency & audits
- Feasibility studies & techno-economic models
- Project management & on-site supervision
- Environmental and Social Study



Pre-Feasibility/Fatal Flaw Analysis Studies

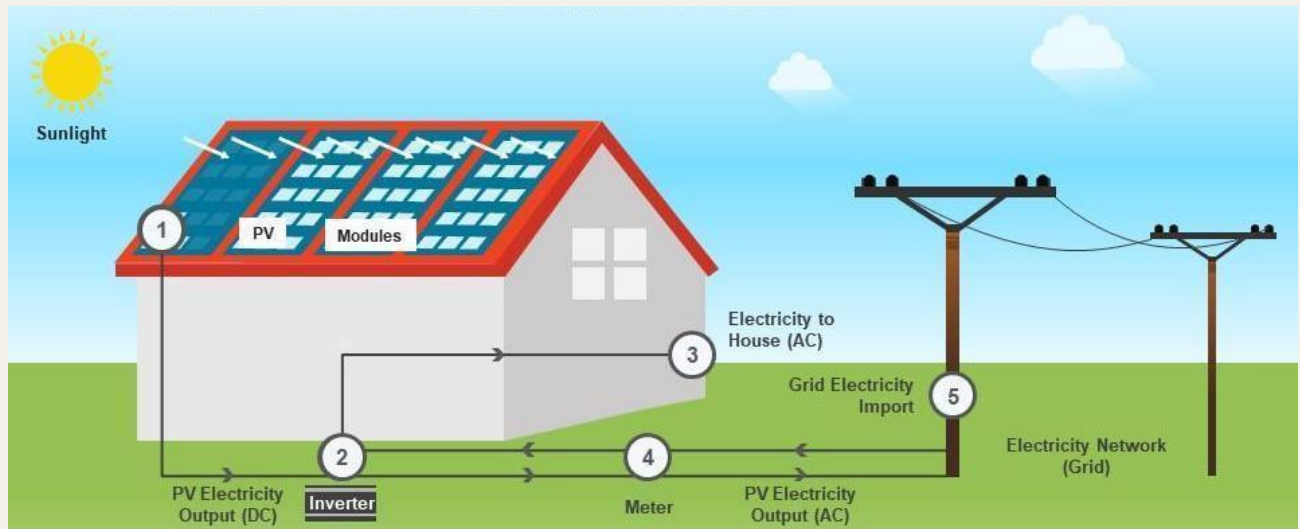
Desk based study will include advice on the possible array size, electrical performance and financial payback while also identifying barriers to the scheme development

- Site and resource assessment
- High level site solar resource assessment
- Location/building suitability assessment
- Potential grid connection issues
- Array considerations
- Performance assessment
- Simple financial appraisal and payback calculations
- Undertake an independent environmental and social red flags review of the project against the applicable standards
- Initial flood risk assessment
- Identify any necessary remedial actions with associated timelines and recommendations for follow up work, in order to comply with the applicable standards



Feasibility Studies of Solar Based Power Plant

- Development of site plan and layout
- A conceptual design of the project, including estimation of installed capacity through modeling by estimated energy yields for a number of technologies
- Power off-take options, Transmission line and grid connection, including cost and potential barriers to achieve grid connection
- The cost estimates for development, construction and operation of the project and predicted revenue, based on the available resource data, as well as indicative quotes or comparison with similar projects
- Financial modeling detailing financial assumptions, energy yield, and evaluation of results depending on available primary and secondary data
- Project Structuring
- Preparation of Tender Document and evaluation of EPC Contractor.



Engineering GIS Survey Support

- Topographical and GIS Study
- Hydrological Study,
- Bathymetry survey
- Geologic Study for a verification of the suitability of proposed fixing, drilling or mounting options for the PV power plant including test drillings and laboratory soil analysis as required.
- Grid Impact Assessment including a simulation of the grid stability to connect the planned intermittent PV capacity to the grid.

Environmental and Social Impact Assessment

- Environmental and Social Impact Assessment (ESIA) studies;
- Preparation of environmental disaster and risk management plan;
- Waste Management Plan (WMP)
- Environmental and Social Due Diligence (ESDD);
- Resettlement Action Plan (RAP);
- Development of Livelihood Restoration Plan (LRP);
- Development of stakeholder engagement plan (SEP)
- Grievance Redressed Mechanism (GRM);
- Environmental and Social Action Plan (ESAP)
- Environmental and Social Management System (ESMS)



Featured **Projects of Hospital & Healthcare**

Project : **Chattagram International Medical College Hospital**
Owner : CMICH (Private Fund)
Assignment : Detail Electrical & Mechanical, HVAC Design
Location : Chittagong
Execution Period : 3 Years
Status : Ongoing
Project Description : Detail Engineering of HVAC and Electrical System Design
Description of provided services :

- HVAC & MEP Design Work
- MEP Installation Supervision Work as per BNBC.
- Electro-Mechanical Design and BOQ Preparation

Project : **Gazi Enamul Kabir Hospital, Khulna**
Owner : GEKH (Private Fund)
Assignment : Detail Electrical & Mechanical, HVAC Design
Location : Khulna
Execution Period : 2 Years
Status : Ongoing
Project Description : Detail Engineering of HVAC and Electrical System Design
Description of provided services :

- HVAC & MEP Design Work
- MEP Installation Supervision Work as per BNBC.
- Electro-Mechanical Design and BOQ Preparation

Project : **G+6 Stored 140 Bed General Hospital, Govt. of Kenya**
Owner : AAR Healthcare Group, Govt. of Kenya (Govt. & ADB Fund)
Assignment : Architectural, Structural, Mechanical & HVAC, Electrical System
Location : Kenya
Execution Period : 4 Years
Status : Completed
Project Description : Feasibility Study and Detail Engineering of Architectural, Structural, Mechanical, Electrical System Design of G+6 Stored 140 Bed General Hospital
Description of provided services :

- HVAC & MEP Design Work
- Electro-Mechanical Design and BOQ with Estimation
- Detail Instrumentation Design Work



Some Featured **Projects** with **KfW & AIIB**

- Project** : **Digitalized Urban Health Care Infrastructure (modernization of DNCC Mohakhali 200 bed Hospital), Dhaka**
- Owner** : AIIB & Dhaka North City Corporation
- Assignment** : Feasibility Study (MEP & BOQ Costing)
- Location** : Dhaka
- Execution Period** : 6 month
- Status** : Ongoing
- Project Description** : Feasibility Study of Digitalized Urban Health Care Infrastructure
- Description of provided services** :
- Preparation of MEP & HVAC Design (General layout drawing)
 - Preparation of indicative list of Major Equipment
 - Preparation of BOQ & Cost Estimation
-
- Project** : **Climate Change Adapted Urban Development Programme (CCAUD) Phase II, Khulna (extended)**
- Owner** : KfW, & Khulna City Corporation
- Assignment** : Feasibility Study (Sub Consultant with Ramboll & ADSL)
- Location** : Rupsha, Khulna
- Execution Period** : 9 month
- Status** : Complete on 2022 & Extended in 2023.
- Project Description** : Details Design of Alutola Pumping Station in Khulna City Corporation
- Description of provided services** :
- Details Civil Construction BOQ & Estimation Preparation
 - Design and Estimation of 5.5km Connecting Road Pavement
 - Assessment of availability of Power Line & land development
 - Preparation of indicative list of Major Equipment and broad specification
 - Preparation of cost estimate and preliminary financial analysis
-
- Project** : **Climate Change Adapted Urban Development Programme (CCAUD) Phase II, Khulna**
- Owner** : KfW, & Khulna City Corporation
- Assignment** : Feasibility Study (Sub Consultant with Ramboll & ADSL)
- Location** : Rupsha, Khulna
- Execution Period** : 6 month
- Status** : Complete on 2020
- Project Description** : Details assessment of 3 nos of Pumping Station in Khulna Region
- Description of provided services** :
- Assessment and Suitability of site for proposed Pump Station
 - Preparation of Conceptual Design (General layout drawing)
 - Assessment of availability of Power Line & land development
 - Assessment of Pump Materials, Standards and Outlet Gate Materials
 - Preparation of indicative list of Major Equipment and broad specification
 - Preparation of cost estimate and preliminary financial analysis

Our Support to International Projects

As a multi-disciplinary consulting firm, **ARC TECH** provides its unique service in relent area of Engineering & Consultancy. A glimpse of services appended below:

- Detailed Engineering Design,
- Mechanical, Electrical & Plumbing (MEP) Design
- HVAC & Firefighting Design
- Structural Design
- Costing & BOQ Preparation
- WTP & ETP Design & Solution
- WWTP / SWTP Design & Solution



Professional and Technical Resources

ARC TECH has over 32+ staff members (permanent & contractual) on the payroll structure of which including Engineers, Architects, Planners, Environmentalists, Economists, Financial Management Specialists, institutional specialists, and information technologists. Most of them are highly qualified, experienced, and skilled with a wide knowledge of relevant modern technologies. Besides, **ARC TECH** has a professional understanding and maintains contacts with a good number of specialized individual experts who work as associates in specific projects according to the schedule of the respective projects under **ARC TECH**'s overall management.

ARC TECH has a fully functional office located at NLI Tower (2nd Floor), 977 Upper Jashore Road, Khulna-9100, Bangladesh, and is well equipped with all modern computer and communication systems. **ARC TECH** is capable and provides logistical support to all of their projects offices if necessary.



A photograph of an industrial facility, likely a refinery or chemical plant, featuring several tall distillation columns and complex piping structures. The scene is set against a sunset sky with warm orange and pink tones. The foreground is filled with lush green trees.

Contact Us

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Facebook: <https://www.facebook.com/ARC.Tech.Bangladesh>



ARC TECH PROJECTS (2015 to 2024)

Regional Projects (inside Bangladesh)								
SI No	Project ID	Project Name	Client	Project Location	Funding Organization	Completion Year	Services	Type of Work
01	P-027	Detail Engineering of HVAC and Electrical System Design of Gazi Enamul Kabir Hospital	GEKH	Khulna	Private Fund	2024 (Ongoing)	<ul style="list-style-type: none"> ○ HVAC & MEP Design Work ○ MEP Installation Supervision Work as per BNBC. ○ Electro-Mechanical Design and BOQ Preparation 	Detail MEP Engineering
02	P-026	Detail Engineering of HVAC and Electrical System Design of Chattogram International Medical College Hospital	CIMC	Chattogram	Private Fund	2024 (Ongoing)	<ul style="list-style-type: none"> ○ HVAC & MEP Design Work ○ MEP Installation Supervision Work as per BNBC. ○ Electro-Mechanical Design and BOQ Preparation 	Detail MEP Engineering
03	P-025	Detail Engineering of Electrical System with Sub-Station Design of Ullash Park (KDA Mujgunni Park).	MFL	Khulna	Private Fund	2024 (Ongoing)	<ul style="list-style-type: none"> ○ HVAC & MEP Design Work ○ MEP Installation Supervision Work as per BNBC. ○ Substation and Earthing Installation Work ○ Electro-Mechanical Design and BOQ with Cost Estimation ○ Internal & External Road Design 	Detail MEP Engineering & Road Engineering
04	P-024	Feasibility Study on Digitalized Urban Health Care Infrastructure (modernization of DNCC Mohakhali 200 bed Hospital)	DNCC	Mohakhali, Dhaka	AIIB	2023-2024	<ul style="list-style-type: none"> ○ HVAC & MEP Design Work ○ Electro-Mechanical Design and BOQ Preparation ○ Project Cost Estimation 	Feasibility Study & MEP Engineering
05	P-023	Detail Engineering of HVAC and Electrical System Design of BRB IVF Center, (BRB Hospital)	BRB Group	Dhaka	Private Fund	2023	<ul style="list-style-type: none"> ○ HVAC & MEP Design Work ○ MEP Installation Supervision Work as per BNBC. ○ Electro-Mechanical Design and BOQ Preparation 	Detail MEP Engineering
06	P-022	Feasibility Study on RMR Food Ltd. (a concern of RMR Global Ltd.).	RMR Global Ltd	Khulna	Private Fund	2023	<ul style="list-style-type: none"> ○ Architectural Landscape & Master plan ○ HVAC & MEP Design Work ○ MEP Installation Supervision Work as per BNBC. ○ Substation and Earthing Installation Work ○ Electro-Mechanical Design and BOQ with Estimation ○ Internal & External Road Design 	Feasibility Study, MEP Engineering & Road Engineering

ARC TECH PROJECTS (2015 to 2024)

07	P-021	Detail Engineering of Architectural, Structural, Mechanical, Electrical System Design of GerBan Fibers Limited, Shipyard Road, Khulna.	GerBan Fibers Limited	Khulna	Private Fund	2023	<ul style="list-style-type: none"> ○ Architectural Landscape & Master plan ○ Structural Design & Retrofitting ○ HVAC & MEP Design Work ○ MEP Design as per BNBC. ○ Substation and Earthing Design ○ Electro-Mechanical Design and BOQ with Cost Estimation ○ Internal & External Road Design 	Detail MEP Engineering & Road Engineering
08	P-020	Feasibility Study on Climate Change Adapted Urban Development Programme (CCAUD) Phase II, Khulna (extended).	Khulna City Corporation (KCC)	Khulna	KfW	2022-2023	<ul style="list-style-type: none"> ○ Extended 1 Nos of Sewage Water Pump Station Civil BOQ with Estimation Work (sub-contract) ○ 5.5km External Road Design 	Structural Design & Road Engineering
09	P-019	Feasibility Study on Climate Change Adapted Urban Development Programme (CCAUD) Phase II, Khulna (extended).	Khulna City Corporation (KCC)	Khulna	KfW	2022-2023	<ul style="list-style-type: none"> ○ Extended 1 Nos of Sewage Water Pump Station Design Feasibility Work (sub-contract) ○ Electro-Mechanical Design and BOQ with Cost Estimation 	Feasibility Study & MEP Engineering
10	P-018	Owners Engineers Service of 11kV Line replacement and renovation work of Military Engineering Services (MES), Bangladesh Army.	MES, Bangladesh Army	Khulna	GoB Fund	2022	<ul style="list-style-type: none"> ○ Internal 11 kV distribution line replacement relocation & Implementation supervision work (sub-contract) 	Owners Engineers
11	P-017	Annual Maintenance Contract (AMC) Program of (G+9) Commercial Building, Khulna	Raj Square, Khulna	Khulna	Private Fund	2022	<ul style="list-style-type: none"> ○ BMS & Annual Maintenance Contract (Mechanical & Electrical Equipments) ○ 2kWp Solar Installation (CAPEX) with Net metering System 	Annual Maintenance Contract (AMC)
12	P-016	Detail Engineering of Structural Design work of Military Engineering Services (MES), Bangladesh Army.	MES, Bangladesh Army	Sylhet	GoB Fund	2021	<ul style="list-style-type: none"> ○ Steel (Rappelling) Tower Conceptual Design & BOQ Estimating (sub-contract) ○ Steel Structure Design & Load Calculation 	Structural Design
13	P-015	Detail MEP Engineering of Jahanabad Adventure Base Park, Shiromoni, Cantonment, Khulna	Jahanabad Adventure Base Park	Khulna	Private Fund	2021	<ul style="list-style-type: none"> ○ MEP Design Work ○ MEP Installation Supervision Work as per BNBC. ○ Substation and Earthing Installation Work ○ Electro-Mechanical Design and BOQ with Estimation 	Detail MEP Engineering

ARC TECH PROJECTS (2015 to 2024)

14	P-014	Detail Engineering of Mechanical and Electrical System with Sub-Station Design of (G+9) Commercial Building, Khulna	Raj Square, Khulna	Khulna	Private Fund	2021-2022	<ul style="list-style-type: none"> ○ HVAC & MEP Design Work ○ MEP Installation Supervision Work as per BNBC. ○ Substation and Earthing Installation Work ○ Lightning Arrester design and Installation Work ○ Electro-Mechanical Design and BOQ with Cost Estimation 	Detail MEP Engineering
15	P-013	Feasibility Study on Climate Change Adapted Urban Development Programme (CCAUD) Phase II	Khulna City Corporation (KCC)	Khulna	KfW	2020	<ul style="list-style-type: none"> ○ 3 Nos of Sewage Water Pump Station Design Feasibility Work (sub-contract) ○ Electro-Mechanical Design and BOQ with Cost Estimation 	Feasibility Study & MEP Engineering
16	P-012	Detail Engineering of HVAC and Electrical System up gradation Work of Khulna Club Limited.	Khulna Club Limited (KCL)	Khulna	Private Fund	2019	<ul style="list-style-type: none"> ○ HVAC & MEP installation Work as per BNBC. ○ Electro-Mechanical Design and BOQ with Estimation ○ Electrical Installation Work 	Detail MEP Engineering
17	P-011	Detail Engineering of Structural, Mechanical & HVAC, Electrical System Design of Factory Building, TK Group, Narayongonj.	TK Group	Dhaka	Private Fund	2016	<ul style="list-style-type: none"> ○ HVAC & MEP Design Work in Factory Building ○ Production floor utility System Design ○ Electro-Mechanical Design and BOQ with Cost Estimation ○ Internal & External Road Design 	Detail MEP Engineering & Road Engineering
18	P-010	Feasibility Study on Chemical Storage Plant (Renowned LPG Company of Bangladesh), Mongla, Bagerhat.	-	Mongla, Bagerhat	Private Fund	2018	<ul style="list-style-type: none"> ○ Feasibility Study Work for the new project ○ ETP System Design ○ Electro-Mechanical Design and BOQ with Estimation ○ Internal & External Road Design 	Feasibility Study, MEP Engineering & Road Engineering
19	P-009	Owners Engineers Service of Electro-Mechanical Design and Supervision work of Renowned LPG Company of Bangladesh.	-	Mongla, Bagerhat	Private Fund	2018	<ul style="list-style-type: none"> ○ Internal Electrification Work of new storage ○ Electro-Mechanical Design and BOQ with Estimation ○ Internal & External Road Design 	Owners Engineers & Road Engineering
20	P-008	Owners Engineers Service of WTP Up gradation work of Renowned LPG Company of Bangladesh	-	Mongla, Bagerhat	Private Fund	2017	<ul style="list-style-type: none"> ○ Internal Electrification Work of WTP Up gradation ○ Electro-Mechanical Design and BOQ with Estimation 	Owners Engineers

ARC TECH PROJECTS (2015 to 2024)

21	P-007	Feasibility Study of new storage system of Renowned LPG Company of Bangladesh.	-	Mongla, Bagerhat	Private Fund	2017	<ul style="list-style-type: none"> ○ Feasibility Study of new storage ○ LPG DCS System Design ○ 10 kWp Solar Installation (CAPEX) with Net metering System 	Feasibility Study & Owners Engineers
22	P-006	Owners Engineers Service of Electro-Mechanical Installation and Supervision work of Sikder Group, NBL Project, Dhaka	Sikder Group	Dhaka	Private Fund	2016	<ul style="list-style-type: none"> ○ Substation Work and Internal Electrification Work (Subcontract) ○ Electro-Mechanical Installation Work (Subcontract) 	Owners Engineers
23	P-005	Owners Engineers Service of Utility System and Electro-Mechanical Design work of Runner Properties Limited, Savar Factory, Savar	Runner Properties Limited	Savar, Dhaka	Private Fund	2016	<ul style="list-style-type: none"> ○ Production floor utility System Design (subcontract) ○ Electro-Mechanical Design and BOQ with Cost Estimation ○ Internal & External Road Design 	Owners Engineers & Road Engineering
24	P-004	Detail Engineering of Structural, Mechanical, Electrical System Design of Factory Building, Nowapara, Jessore	Akij Group	Jessore	Private Fund	2016	<ul style="list-style-type: none"> ○ Production floor utility System Design (subcontract) ○ Electro-Mechanical Design and BOQ with Estimation ○ 20 kWp Solar Installation (CAPEX) with Net metering System 	Detail MEP Engineering
25	P-003	Detail Engineering of Mechanical & HVAC and Electrical System Design of Jamalpur 100 MW Power Plant	Sikder Group	Jalalpur	Private Fund	2015	<ul style="list-style-type: none"> ○ HVAC System Design for Control Room ○ Industrial Utility System Design for Workshop Building ○ Internal & External Electrification Work in admin Building ○ Internal & External Road Design 	Detail MEP Engineering & Road Engineering
26	P-002	Detail Engineering of Mechanical and Electrical System with Sub-Station Design of (G+9) 4 unit Residential Building, Rajshahi (61,200 sq.ft)	Md. Abdullah	Rajshahi	Private Fund	2015	<ul style="list-style-type: none"> ○ Substation Work and Internal Electrification Work ○ Electro-Mechanical Design and BOQ with Cost Estimation as per BNBC. 	Detail MEP Engineering
27	P-001	Owners Engineers Service of Utility System Up gradation and Electro-Mechanical Design work of Shonali Chemicals Limited, Main Factory, Rupsha, Khulna	Shonali Chemicals Limited	Khulna	Private Fund	2015	<ul style="list-style-type: none"> ○ Utility System Up gradation ○ Machine Installation Work Supervision with Indian Manufacturer ○ Electro-Mechanical Design and BOQ with Estimation ○ 10kWp Solar Installation (CAPEX) 	Owners Engineers

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Overseas Projects (Foreign Client outside Asian Country)

SI No	Project ID	Project Name	Client	Project Location	Funding Organization	Completion Year	Services	Type of Work
1	F-004	Feasibility Study and Detail Engineering of Architectural, Structural, Mechanical, Electrical System Design of G+6 Stored 140 Bed General Hospital Area: 15,000 sq.m (Overseas Contract)	AAR Healthcare Group, Nairobi, Kenya.	Kenya	ADB	2020	<ul style="list-style-type: none"> ○ HVAC & MEP Design Work ○ Electro-Mechanical Design and BOQ with Estimation ○ Detail Instrumentation Design Work ○ Internal & External Road Design 	Feasibility Study & MEP Engineering
2	F-003	Detail Engineering of Mechanical HVAC and Electrical System with Sub-Station Design of CE Pharmaceuticals Company (Total area 20000m ²) Jackson's Point, Canada (Overseas Contract)	CE Pharma Company, Canada	Canada	Private Fund	2020	<ul style="list-style-type: none"> ○ Instrumentation Design Upgrade Work with CANADAN ELECTRICAL CODE-2018 ○ HVAC & MEP Design Work ○ Electro-Mechanical Design and BOQ with Cost Estimation 	Detail MEP Engineering
3	F-002	Detail Engineering of Mechanical HVAC and Electrical System Design of Brian Craighead & Co. Ltd. Millers Point, Australia (Overseas Contract)	Brian Craighead & Co. Ltd.	Australia	Private Fund	2020	<ul style="list-style-type: none"> ○ Detail Instrumentation Design Work with AS/NZS 3000:2018 ELECTRICAL CODE ○ HVAC & MEP Design Work ○ Electro-Mechanical Design and BOQ with Cost Estimation 	Detail MEP Engineering
4	F-001	Detail Engineering of Mechanical HVAC and Electrical System Design of Energy Storage System 1MWh for CA Tender Submission (Overseas Contract)	MyUTrade	Chicago, USA	Private Fund	2019	<ul style="list-style-type: none"> ○ Preliminary Design Work Design of Energy Storage System 1MWh for CA Tender Submission ○ Detail Engineering Work with NFPA 70. ○ Electro-Mechanical Design and BOQ with Cost Estimation 	Detail MEP Engineering