



CONTACT INFO



Faisalabad, Pakistan



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SUMMARY

Meticulous Engineer with more than **20+ years dedicated** to oversight and maintenance of complex mechanical and electrical systems with tracking and monitoring of all pertinent metrics to support exceptional workflows.

Drive realistic management of available technical and human resources. Positively impacts both employee morale and business goals through technical guidance and statistical analysis.

Conducted research and **Implementation of new projects** to test and analyze feasibility, design, operation and performance of new equipment, components and systems.

Participated in formal internal **design reviews** of proposed products and components, providing input on potential technical improvements.

Throughout career, been a Target-Driven, Result-Oriented, Mariner and Experienced operational & expansion project Management Professional.

ABDUL QADIR KHAN

Marine Chief Engineer, First Class (Singapore)

Specialist

Power Generation & Management | Project Management & Estimation
Energy Management | Energy Mix Optimization |
Energy Efficiency Enhancement | Utilities Management.

EXPERIENCE



Chief Engineer (Faisalabad & Sahianwala M3)

(April 2012 – Present)

- The **Nishat Mills Limited Faisalabad** is a spinning setup of 8 units producing various yarn i.e., Slub, Super fine, Lycra & Yarn dyeing.
The **Power Plant** installed capacity is **40MWe**, which consists of HFO, Natural Gas, HSD (Diesel) Dual fuel, Waste Heat Recovery (Boiler, Jacket Water & Waste Heat Recovery Steam Turbine).
The power plant has been upgraded on time-to-time basis that includes new installations, shifting, waste Heat recovery equipment & Auxiliaries upgradation.
- The **Nishat Mills Limited, Shaianwala M3** project is conceived from green field, planned for conglomerated power source consortium for **Spinning Unit, Hyundai Nishat Motors & Nishat Sutas Milk Plant**.
The capacity of **Power Plant** is **20MWe**. That incorporated, design of Complete Power Plant from scratch along with all allied auxiliaries, waste heat recoveries, power distribution network and **Hybrid** management of solar plant of **4.59MWe** in Parallel to the fuel-based generation.
- At **Group Level**, tasked for **Nishat Dairy** 5000 Cows to set up power plant comprising of Caterpillar Diesel Generators. Used waste heat from exhaust of Generators making chilled water from Chiller operating from waste heat.
Hot water from waste heat of Jacket water for hot water use in dairy.
- At **Group Level, Nishat Mills Limited, Ferozwatwan**, Upgraded the power plant of 12MWe with latest power generation machines of **20MWe** along with hybrid solar plant.

KEY RESPONSIBILITIES:

- Operated in line with organization's top management and the designated team to operate, develop safe, efficient, and effective projects that encompassed the strategical goals of the organization.
- Evaluated all costs associated with each project including materials, costs of labor, time expended, rate of return and paybacks.
- Negotiated contracts with vendors to ensure the most cost-effective means of reaching the organization's need.
- Approved plans and budgets for each project and made any adjustments needed in consultation with the team and the superiors.
- Coordinated the engineering team, assigning short- and long-term goals for successful completion of the operational and expansion project's needs.
- Ensured safety of the worksite during the course of development.
- Reviewed safety standards for the finished product.

Excellent Expertise and Valuable Experience in Upstream and Downstream of the Energy Sector, from **green field** to ongoing projects alongside After Sales, End to End Project Solutions.

Impeccable relevant expertise covers Establishment of Complete **Project Proposals**, Covering Analytical Review of the organizational objectives, and both Horizontally & Vertically in line with Industry Sectors, Considering overall Economic health and all Embedded Risk Factors.

Initiate work with Targeted approach for Increased Probability of Maturing Projects in line Conservation of Resources and Time.

Reviewed and checked technical drawings by architectural technicians, **CAD** technicians and drafters.

Oversaw layout, routing and integration of technical and electrical components.

Prepared **remedial action plans** for problematic processes and assets. Responded to technical concerns quickly and effectively devised diverse solutions

All the Projects, Developed & implemented with the Sole Responsibility of Delivering it to the operational level, on an End-to-End basis Covering, from **R&D to BOQs**, Design Work, Procurement, Supply Chain, On-Site Execution, Risk Management and Completion Certificates.

- Made sure all projects and undertakings stay on budget and within the projected time schedule.
- Form human resource prospective, managed the engineering team and oversees training of new employees.
- Allocated resources effectively including personnel, materials, and time.
- Drafts reports and data analysis for review by the company's board of executives.
- Optimization of the energy mix cost by utilizing 360 turn around efficiencies of the power generation and power sources.
- Safeguarded organizational interest along with management of public and private institutions.

KEY ACHIEVEMENTS:

1. Successful, execution, operation, maintenance & management of Project profiles of **80 million USD** on both sites.
2. Optimizing the **heat balance** of the Power Plants.
3. Optimization of **energy mix** strategy including fuel and renewable.
4. The inventory **upgraded**, installed & maintained is as follows.
 - WARTSILA 18V32DF (**Dual Fuel**).
 - WARTSILA 18V34SG (**Natural Gas**).
 - WARTSILA 20V34DF-B (**Tri Fuel**).
 - WARTSILA 12V34DF (**Tri Fuel**).
 - JENBACHER 616, 620.
 - 1. KRUPP MAK (HFO/Diesel).
 - 2. CATERPILLAR (3516A-3516B, 3520 C 3412 C 3512D ,3516D).
 - Steam Turbine Spilling Germany
 - Attended **Factory Acceptance Tests** overseas on behalf of Nishat Group for Generation Projects and Equipments.
 - **Waste Heat Recovery** Boilers and Oil/Gas Fired Boilers and related auxiliaries
 - **Absorption Chillers** and Chilled water systems - Steam, Hot Water, Exhaust
5. At NML (Sahianwala), **GREEN FIELD PROJECT**.
Power Plant Consisting
 - Delivery of allied utilities in the **network of 6KMs** to the consumption end and along parameters from generation and extraction end.
 - Ground water treatment **RO plant** (2 cusecs).
 - **Canal water treatment** plant (2 cusecs extendable to 4).
First time in Pakistan of its nature.
 - **Absorption Chillers** (1200USRT) on engine waste heat (Exhaust/Steam/ Engine Jkt water heat recovered; Hot Water operated).
 - **Waste heat recovery** boilers (22 Tons/hr.).
 - **Composite Boilers** (Waste heat of from engine/HFO/Gas)-12Tonss/Hr
 - **Solar Project # 1**, 3.075 MWp
 - **Solar Project # 2**, 1.515 MWp.
 - **Fire** detection, Alarm & Fire Fighting system according to NFPA standards.
6. Managed **HR Portfolio** of 160 Plus people from hiring, training, reward and team building from Managerial to technician level.

QUALIFICATIONS

Government of Singapore
Marine Department
Marine Chief Engineer.
1st Class 1990

Singapore Polytechnic.

Computer Applications (Word Processing, Building Spreadsheets for Engineering Applications 1990

Government of Pakistan Marine Department.

Certificate of Competency Marine Engineer Officer Class 2
1982

Karachi Port Trust Mechanical & Engineering Department.

Marine Engineering Apprenticeship Certificate
1976 - 1979

Pakistan Marine Academy Passing Out Certificate.

1975 - 1976

Intermediate Central Government College, Islamabad.

1972-1974

High School Islamabad Model School, Islamabad.

1970-1972

Elementary Schooling Victoria Public School, Montreal, Canada.

1963 - 1969

International Maritime Organization Mandatory Courses/Certifications/Training

Management, Administrative Technical, HSE

OTHER INFO

Language

English, Urdu, Persian

Marital Status

Married

Nationality

Pakistani

SOFT SKILLS

- Excellent Communication
- Effective Presentation



SHIP & SHORE SERVICES. LTD. NIGERIA.

HEAD OF DEPARTMENT

(2011 – 2012)

Head of Department of Operation & maintenances of all Mechanical and Electrical Equipment on board companies **Petroleum Product Carrier.**

- Diesel Engines in use for Marine **Propulsion**- B&W MAN, Sulzer, **up to 12,000 BHP**. Main Propulsion and Power Generation plants-Sulzer Daihatsu, Crapelle, Sulzer, Caterpillar, Deutz, MTU, Detroit Diesel.
- Steam Plants, Boilers, Water Tube & Fire Tube-Foster Wheeler, Aalborg, Hitachi.
- **Steam Turbines** and related auxiliaries and equipment.
- **HFO Purification Plants**, Filtrations and storages.
- Pumps and Pumping Systems.
- **Air Conditioning** and Refrigeration Plants.
- **Water Desalination Plants.**
- Heat Exchangers.
- **Inert Gas Plants** and Generators.
- **Safety Equipment** for Fire Fighting and Detection.



NAGINA

G R O U P (ELCOT SPINNING MILLS LIMITED)

GENERAL MANAGER POWER

(2004 – 2011)

In full charge of the ESML Power Plant 20MWe, reporting directly to the Group Managing Director. Managed all aspects relating to Operation and Maintenance of the Power Plant Oversight of the Mechanical and Electrical Departments incl. more than 50 staff members.

The two Power Houses under my control as detailed below

- **One Power** was under **a Power Sale Contract to LESCO** Operating on Furnace Oil comprising of, 2 x 2.3 MW **Nigata Diesel Engine**, Model 6L34HX
- Cooling Towers 2x 500Tons.
- Auxiliary Fire Tube Boiler 7 Bar W.P.
- Air Compressors 2 x Sanwa Japan 30kg./cm² + 4 x Kaeser Rotary CSD122X12 M³ /min. 8 Bar
- R.O. Ace Water Treatment Plant Japan 500 Kg/Hour.
- Alfa Laval MFPX, MOPX H.O. & L.O. Separators
- Fuel storages for H.O 1500 Tons & D.O. 100 tons.
- **Second Power** Plant consists of
- **Caterpillar** 3516 Diesel generators X 4 Nos.
- Caterpillar 3512 Diesel generators X 1 Nos.
- Caterpillar 3516 B Gas Engine
- Cooling Towers 5 x 250 Tons
- **Electrical Transmission & Distribution System Operating** through 3 Sub Stations utilizing HT 11000 KV and LT 440 V, 50 Hz with 6 Step down Transformers 11 Kv to 440 V, each 2000KVA.

- Efficient Problem Solving
- Team Leader & Recruiter
- Quick Decision Making
- Planner & Organizer
- Time Manager
- Team Manager
- Team Player
- Self-Reliant
- Focused
- Motivated
- Optimistic
- Adaptable
- Flexible
- Honesty
- Integrity
- Conflict resolution

PROFESSIONAL SKILLS

- Organizational Development
- Strategic Management
- Innovation Analysis
- Budget Management
- Competitive Analysis
- Project Management
- Contract Management
- Preparing BOQs
- Costing
- Financial Management
- Audit & Assurance
- Procurement Planning
- Supply Chain Analysis
- Planning & Forecasting
- Financial Decision Making
- Relationship Management
- Human resource management

TECHNICAL SKILLS

- MS Office
- MS Outlook
- AutoCAD
- Primavera
- MS Project
- ERP (SAP/Oracle)

REFERENCES



REGIONAL MANAGER PRODUCT SUPPORT

(2001- 2002)

Allied Engineering Services (PVT.) Limited is one of the Pakistan's leading, prime and standby power generation equipment supplier geologically situated at all big cities along with regional sales & after sales teams.

- Provided complete technical support to Caterpillar customers using all type of Caterpillar Equipment such as
 - Power Generators **(22KWe ~ 4,200 KWe)**.
 - Furnace/Diesel Operated Gensets.
 - Diesel Gensets.
 - Natural Gas Gensets.
 - Earth & Material Handling Equipment etc.
 - Air Compressors.
- **Hiring and Training** of all Technical Sales personnel Secured high-value accounts through consultative selling, effective customer solutions and promoting completing business opportunities.
- Power and Genset **Expertise Solutions** deployment Operational a Provided complete technical support to Caterpillar customers using all type of Caterpillar Equipment such as Power Generators **(22kw ~ 4,200 KWe)**.
- **Analyzing Engineering standards** Testing and maintenance.
- **Product after Sales Services.** Field Services, **Workshops**, Parts Department. Hiring, Training of Personal etc. were all part of the job responsibilities.



Technical Manager Gilbrech Marine Services. (Dubai)

1998 – 2001

Located at Al Jeddaf Dry Docks Dubai. Activities involved Dry Docking of **Ships and Yachts** Repairs and maintenances.

- Large and medium **Marine Diesel Engines**, Power Generators etc.
- **Boilers** and related auxiliaries.
- Air **Compressors**.
- Air **Conditioning** Plants.
- Fuel and Oil **Purification** Plants.
- Heat **Exchangers**.
- Repairs and **Fabrication**.

شركة مصباح للخدمات الهندسية البحرية ذ.م.م.
Misbah Marine Engineering Services L.L.C.



Maintenance Manager Misbah Engineering & Marine Services. (Dubai) **1994 - 1998**

Misbah Eng. & Marine Services was located at Al Jeddaf Dry Docks Dubai. Activities involved Marine Ship Repairs as well as maintenances and repairs for Industrial sector and Marine Services.

Maintenances and Repair of:

- Large and medium Marine Diesel Engines, Power Generators etc.
- Boilers and related auxiliaries.
- Air Compressors.
- Air Conditioning Plants.
- Fuel and Oil Purification Plants.
- Heat Exchangers.
- Pumps and Pumping Systems etc.

AS MARINE ENGINEER (1980 -1993)

As Marine Engineer worked for the following Shipping Companies over a period of 13 years.



MAERSK

Maersk A.P. Moller, Singapore

- Prepared layouts, technical drawings and schematics of ship systems.
- Inspected and evaluated marine machinery and equipment.
- Testing marine machinery and equipment in the areas of performance, operation, and environmental impact
- Ensuring that all machinery tests are in compliance with regulations.
- Working with various regulatory groups to make sure that any repair work is done as safely and as inexpensively as possible.
- Preparing technical reports and analysis.
- Estimating project costs and timetables, and drawing up contracts accordingly.
- Communicating with contractors and ensuring that deadlines and budgets are kept during Dry Docking of Companies vessels.



KUWAIT OIL TANKER COMPANY

At senior level was in full charge of Operation, maintenances of all Mechanical and Electrical Equipment on board Merchant Vessels ranging from 13000 Dwt ~ 300,000 Dwt.

- At senior level was in full charge of Operation, maintenances of all Mechanical and Electrical Equipment on board Merchant Vessels ranging from 13000 Dwt ~ 300,000 Dwt.
- Diesel Engines in use for Marine Propulsion- M.A.N B&W, Sulzer up to 34,000 BHP. and Power Generation plants- Daihatsu, Crapelle, Sulzer, Caterpillar, Deutz, MTU, Detroit Diesel.
- Steam Plants, Boilers, Water Tube & Fire Tube-Foster Wheeler, Aalborg, Hitachi.
- Steam Turbines and related auxiliaries and equipment.
- HFO Purification Plants, Filtrations and storages.
- Pumps and Pumping Systems.
- Air Conditioning and Refrigeration Plants.
- Water Desalination Plants.
- Heat Exchangers.
- Inert Gas Plants and Generators.
- Safety Equipment for Fire Fighting and Detection.



PAKISTAN NATIONAL SHIPPING CORPORATION.

- Kept actively up-to-date to QHSE manual and procedures.
- Instructed QHSE regulations, including. emergency procedure to engineers, visitors and contractors.
- Ensured safe and healthy execution of activities in engine room and to technical equipment.
- Monitored, maintained and repaired electrical and mechanical systems, installations and equipment.
- Ensures that vessels are in good condition and ready to operate at all times.
- Monitored and ensured completion of all deficiencies noted in the planned maintenance system.
- Actively participated in ship yard repair and maintenance periods.
- Monitored fuel oil, lubricating oil and fresh water levels.
- Kept engine room journal, maintenance and oil record and inventories status reports and maintain logs for all equipment.
- General servicing and maintenance of company vessels.
- Developed modernized plans/changes Submergence Assets and Support Systems
- Performed mechanical, electrical and/or structural analysis
- Evaluated components and materials and systems to ensure system integration, compatibility and stability