



NAFEH AL KHALEEJ CONTRACTING CO. LTD.
Office # 08, 2nd Floor ,Business Centre (7116) As-safa Dist.
P.O. Box 23453, Jeddah-Kingdom of Saudi Arabia
Email: contact@nafeh-khaleej.com / Tel : +966 12 607 7884

PROCESS AUTOMATION & ELECTRO-MECHANICAL CONTRACTING



INTRODUCTION

Nafeh Al Khaleej Contracting Co. Ltd (NKCC) is an ISO Certified EPC contracting firm, having proven its existence in the Saudi market. We are electro-mechanical contractor & system integrator of many National and Multi-national Companies of great repute. We are providing Engineering, Construction, Contracting and Maintenance services & industrial automation Solutions along with IT based solutions. We have also been undertaking MEP contracting Jobs for buildings & commercial projects. Our portfolio includes engineering, design & software modification / upgradation, procurement & erection of different industries, and we have excellent track record of having executed the jobs most efficiently.

NKCC is capable enough to handle any kind of Electrical, Mechanical, Instrumentation & Control Project, E&M plant construction, Plant Maintenance Jobs and industrial automation jobs and IT based solution along with third partly software solutions. Our expertise cover mechanical installations, fabrication, erection of electro-mechanical equipment & testing/commissioning support along with PLC/DCS systems. We are doing any kind of civil construction associated with electro-mechanical erection or EPC projects. With decades of experience in project execution and delivery, NKCC has played a defining role in the Engineering, Procurement and Construction (EPC) domain; offering innovative execution and delivery solutions to clients across kingdom in multiple sectors.

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PROCESS AUTOMATION & ELECTRO-MECHANICAL CONTRACTING



CERTIFICATIONS & VENDORSHIP



ISO 9001-Quality
Management Systems



ISO 14001-
Environmental
Management Systems



ISO 45001-Occupational
Health and Safety
Management System



4th Level classification
Certificate



Aramco Vendor
ID:10110774



SEC Vendor
ID:2009034



MARAFIQ Vendor
ID:5475



MA'ADEN Vendor
ID:20230580



YASREF Vendor
ID:102451



NEOM Vendor
ID:S11036836



Red Sea Global
Vendor ID:S11267391



ACWA/NOMAC
Vendor ID: 200011312



YAMAMA Cement
Vendor ID:16433

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PROCESS AUTOMATION & ELECTRO-MECHANICAL CONTRACTING



VISION

"To achieve excellence in providing comprehensive solutions based on leading edge technology, cost effective system design and creativity by focusing on our customers' specific needs and achieve company's business goals with a view to contribute to the benefits of our clients, our stake holders, our employees and the society."

MISSION

"To provide complete solution to our customers in the fields of 'Electrical, Mechanical Instrumentation & Control' and IT based solutions by developing the required engineering expertise and services skills to achieve company's business objectives."

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PROCESS AUTOMATION & ELECTRO-MECHANICAL CONTRACTING



INDUSTRIES WE ARE WORKING WITH



Minerals & Mining
Industry



Petrochemical &
Allied Industry



Oil & Gas Industry



Buildings MEP



Power Generation
Utilities



Water & waste
Water Utilities



Cement & Ceramic
Industry



Food & Beverages
Industry



Steel & Alloy
Industry



Textile Industry

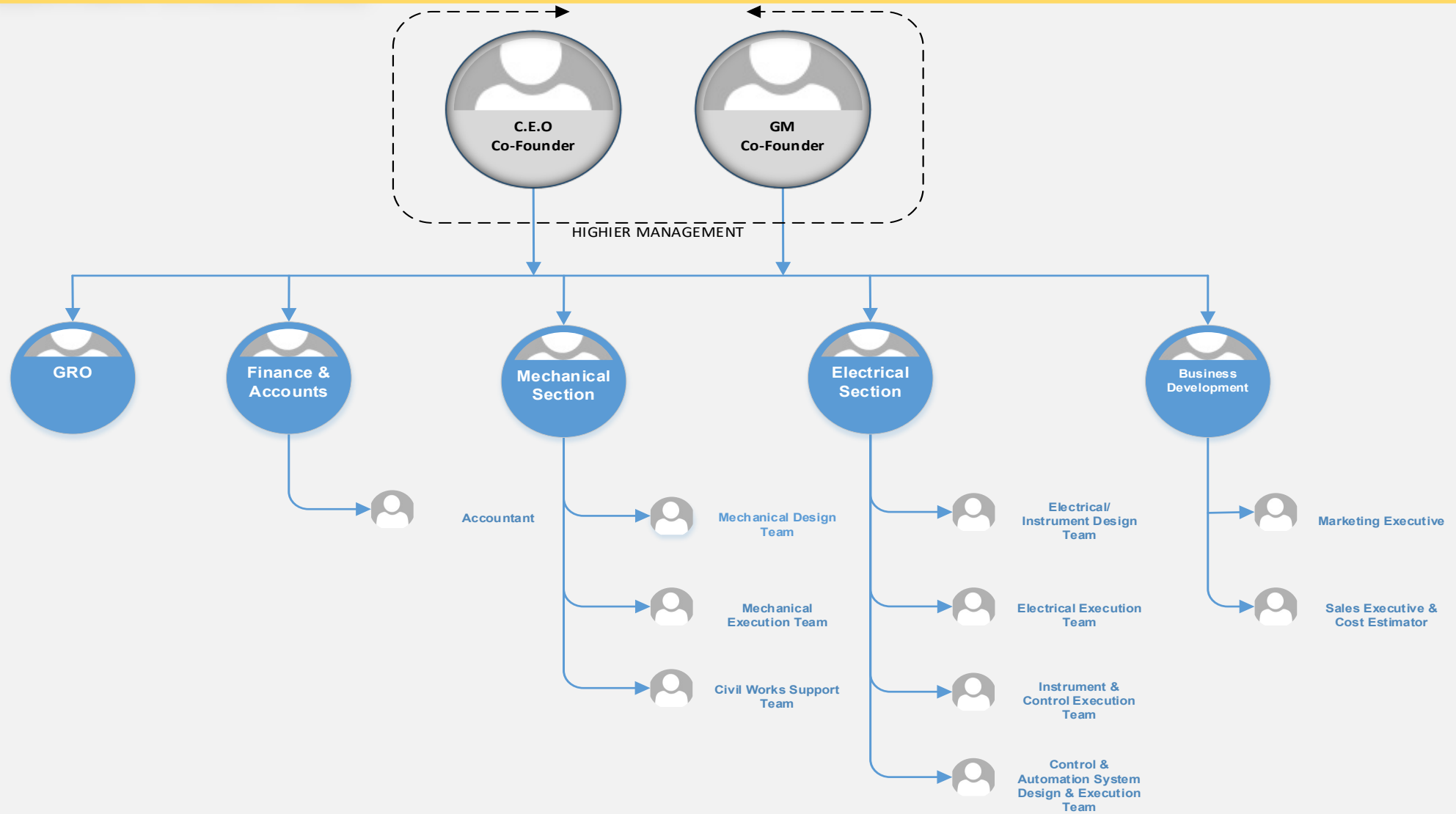
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ORGANIZATION STRUCTURE



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PROCESS AUTOMATION & ELECTRO-MECHANICAL CONTRACTING



WORK HEALTH, SAFETY & ENVIRONMENTAL POLICY

Goals

- Commitment of Nafeh Al Khaleej (NKCC) management & workers to health & safety
- To remove or reduce the risks to health, safety & welfare of all workers & anyone else who may be affected by our business operation
- Aims to ensure all work activities are done safely

Management (Supervisor/Manager) is responsible for:

- A safe working environment & safe system of work
- Any information, instruction, training and supervision needed to make sure that all workers are safe from injury & risk to their health

Workers are responsible for:

- Ensuring their own personal health & safety
- Complying with any reasonable direction like work procedures & wearing PPEs given by management
- Take electrical safety measures while working on electrical equipment
- Inform visitors about our HSE policy

We expect visitors & contractors to:

- Pay attention to safety briefing
- Comply with safety policy & use proper PPEs



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PROCESS AUTOMATION & ELECTRO-MECHANICAL CONTRACTING



OUR SERVICES

1-EPC SERVICES FOR TURNKEY PROJECTS

2- INDUSTRIAL AUTOMATION & INSTRUMENTATION

3-ELECTRICAL TESTING & UPGRADATIONS

4- FIRE DETECTION & SUPPRESSION SYSTEM

5- COMPREHENSIVE DIGITAL SOLUTIONS



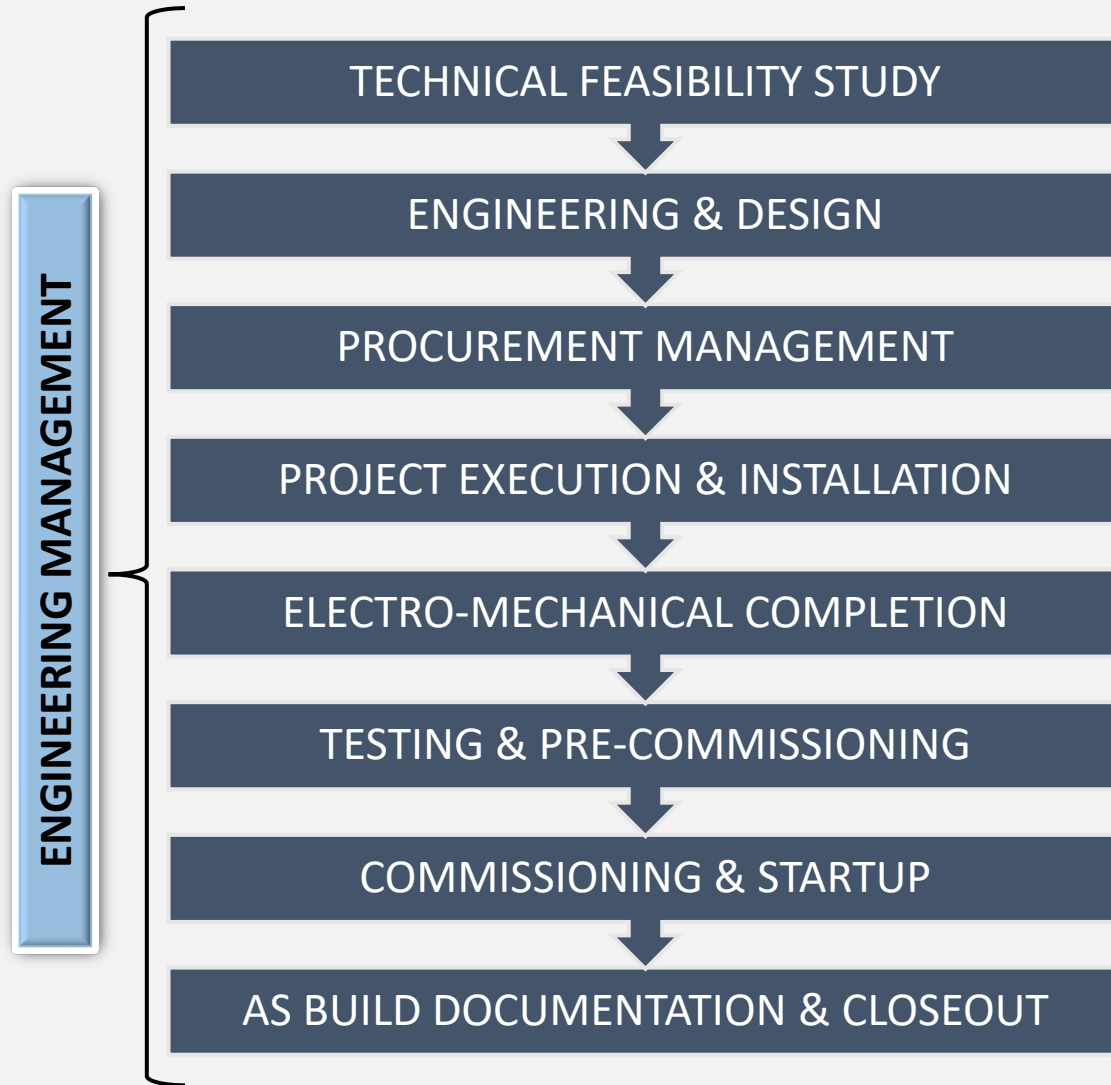
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PROCESS AUTOMATION & ELECTRO-MECHANICAL CONTRACTING



PROJECT EXECUTION & MANAGEMENT CYCLE SUMMARY



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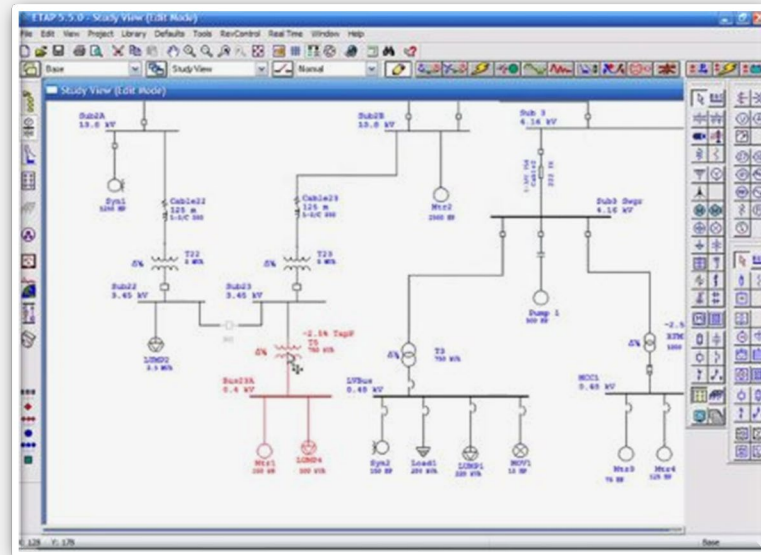
1-EPC SERVICES FOR TURNKEY PROJECTS

TECHNICAL FEASIBILITY STUDY

- Technical optimization services
- Environmental & safety studies
- Risk analysis
- Capital & operating cost estimation
- Economical & financial profitability studies

ENGINEERING DESIGN SUPPORT

- Conceptual & base design
- Front end engineering design for Electrical-Mechanical equipment
- Implementation of SIL level according to required SIF followed by IEC standards
- E&M equipment sizing including tanks, piping, heat exchanger, pumps skids, HVAC, cooling towers skids MV/LV cables, transformers, switchgears
- Electrical load study and coordination study using ETAP tools
- Control philosophy, cause & effect sheet & SAMA logic building.
- Electrical design for LV & MV equipment including MV VFDs, DC bank & Industrial UPS
- Instrumentation & control design including DCS/PLC panels
- Approval follow-up with client and CRS rectification
- ATEX & NEMA classified equipment selection according to zone classification
- F&G detection & protection.
- IFC drawing for E&M equipment installation
- ILDs for E&I equipment interconnection



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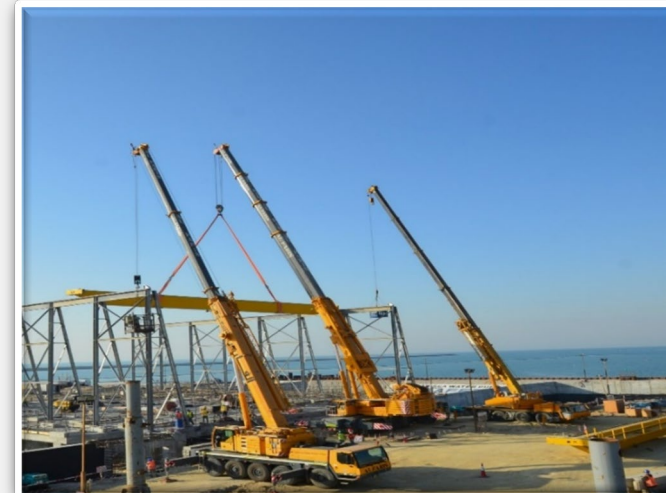
1-EPC SERVICES FOR TURNKEY PROJECTS

PROCUREMENT MANAGEMENT

- Vendor qualification & subcontractors' assessment
- Technical & commercial evaluation
- Purchase order placement & contract administration
- Inspection & quality control
- Project cost control

PROJECT EXECUTION & ERECTION

- Mobilization of manpower, equipment & tools including SITE facilities buildup
- On site construction of electrical, Mechanical, instrumentation & control facilities as per approved method statement
- Dismantling old equipment & installation of new equipment in E&M facilities including steel structure , piping & allied civil work
- Civil construction work for E&M equipment foundation pad ,trenches , & electrical equipment room construction.
- Fuel skids, Instruments & Mechanical piping system, heat exchanger ,cooling/heating system installation including fabrication & welding work.
- All kind of metal works, Steel Gratings, Caged Ladders, Steel Platforms, handrails & Structure including fabrication & Installation.
- Switchgear, transformers, RMUs, MCC,HVAC & other electrical-Mechanical equipment installation & extension of existing switchgears / facilities earthing & lighting work
- Cable tray installation including power & control cable laying
- MV/LV power cable termination under SEC license
- Field instrument including junction boxes and DCS/PLC panel installation.
- Fire devices ,FACP, lighting panel & outdoor socket installation



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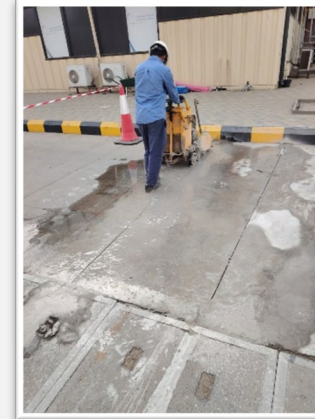
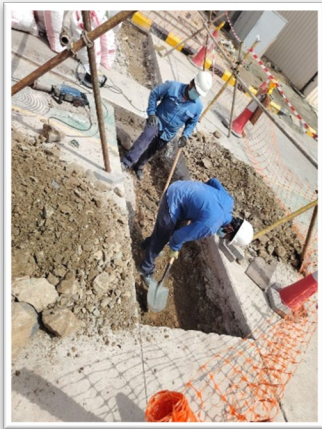
PROCESS AUTOMATION & ELECTRO-MECHANICAL CONTRACTING



1-EPC SERVICES FOR TURNKEY PROJECTS

TESTING & PRE-COMMISSIONING

- Inspection of equipment Installation in E&M facility according to P&IDs, PFDs & SLDs.
- Mechanical equipment ,Electrical panels, JB's & Instruments installation inspection
- MV/LV Protection setting according to approved document
- Specific electrical test(Megger, HIPOT, Turn Ratio, pole resistance, Tan delta, primary & secondary injection) to be performed on equipment like transformer MV/LV switchgears, cables, motors etc
- Pre-Commissioning support to vendors & OEM engineers
- Cold loop testing for field instruments & electrical panels
- Motor vibration test, NDT & Hydro testing
- RFI raising for each task inspection
- On SITE calibration of field instruments



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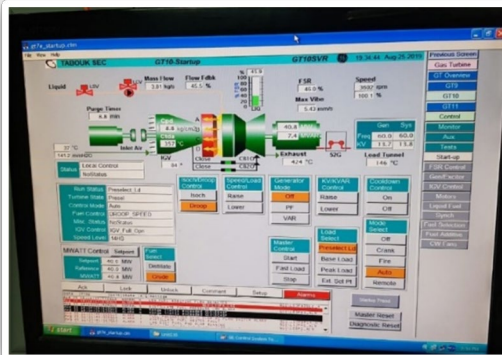
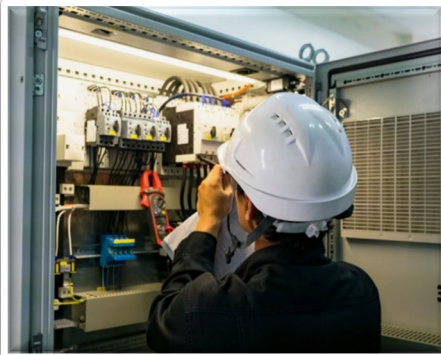
PROCESS AUTOMATION & ELECTRO-MECHANICAL CONTRACTING



1-EPC SERVICES FOR TURNKEY PROJECTS

COMMISSIONING & STARTUP

- Commissioning procedure & energization
- Follow PTW for any re-work
- Pressure test & regulation, leakage ,vibration and load test
- Hot loop testing & rotary machine alignment.
- Field instrument & actuators function test
- Electrical Equipment functional test & safety interlock including transformers, switchgears, motors, UPS etc
- package commissioning & process interlock
- PID Loops tuning
- Alarm & Tripping verification
- Technical support to OEM during commissioning
- Reliability Test Run for equipment/plant
- Final punch list rectification
- As Build documentation including O&M manuals



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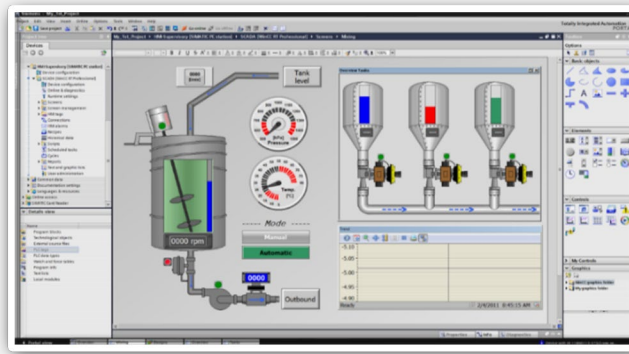


شركة نافع الخليج للمقاولات

2-INDUSTRIAL AUTOMATION & INSTRUMENTATION

COMPLETE SOLUTION FOR BELOW EQUIPMENT & SYSTEMS

- PLC & SCADA system including implementation of cause & effect matrix chart, programming & software development and site integrity test (SIT) for all renowned OEM platforms.
- Upgradation & modification of existing equipment/plant control systems
- Cost effective & robust solution for Redundant control system architecture requirement.
- LV & MV variable frequency drive (VFD) for motors being used in different industrial application.
- High performance MV/LV motors for classified zones
- Industrial instrument like PT,TT,FT level gauges & vibration monitoring systems.
- UPS & DC system for critical industrial loads.
- Hazardous area classified equipment as per ATEX/NEMA/UL/IECEX standard for required zone/Class
- DCS system services for Emerson Ovation/Delta V, Yokogawa CS3000 ,ABB Freelance , Wonderware , Energy management system software.



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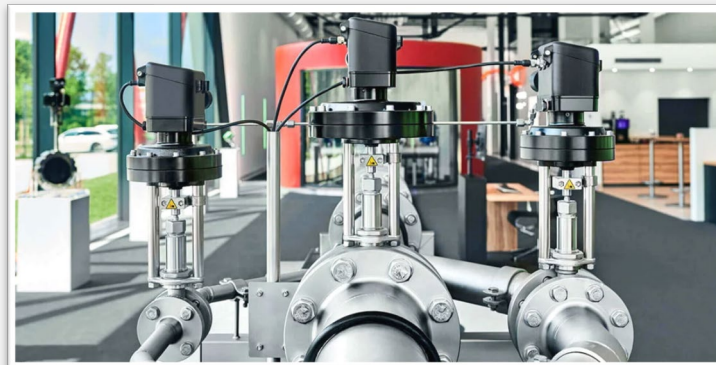
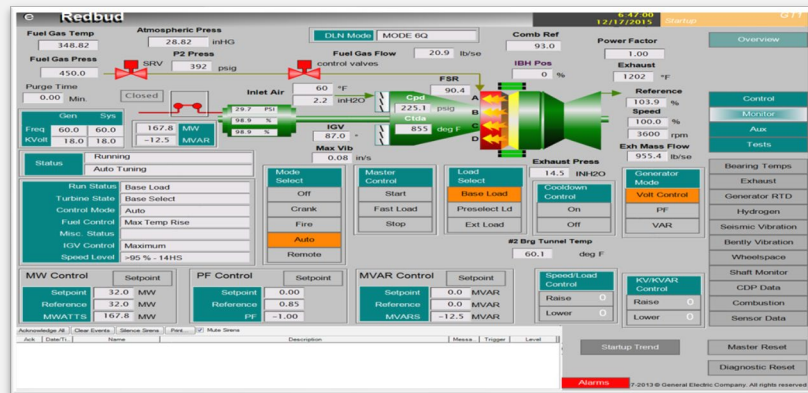
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2-INDUSTRIAL AUTOMATION & INSTRUMENTATION

COMPLETE SOLUTION FOR BELOW EQUIPMENT & SYSTEMS

- Integration of OEM package units with main DCS
- Pneumatic & Motorized valves and their integration in existing/new DCS system
- Radar level gauges & flow meters for custody transfer applications.
- Hook up drawing for field instruments
- Field instruments & control devices pneumatic tube fitting work
- Review control philosophy & collect system backups
- Implementation of new control logic for additional points & necessary modification in existing logic
- Hardware supply, installation & configuration for new points if spare not available
- E&I work (LV& MV) for diesel engine driven pumps & black start generators including their dedicated controller programming, load sharing & synchronization.
- Online testing & commissioning with SAT documents.



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3-ELECTRICAL TESTING & RETROFIT

COMPLETE SOLUTION FOR BELOW EQUIPMENT & SYSTEMS

- Design study for relay coordination & protection
- Transformer testing including all routine test for dry type and oil immersed transformer
- RMUs and MV Switchgear testing including CB and protection relays
- Testing of CTs , PTs and panel metering
- MV power cable testing & termination
- UPS and DC system function & battery discharge test
- Load study for existing switchgears and addition of new cubicles
- Replacement of old electromechanical relays with new smart IEDs
- Modification in existing panel required during relay upgradation
- Implement the complete IEC61850 process bus solution alongside other protocol and Electrical SCADA system development.
- ATS solution for system having more than one source and backup generator.



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4-FIRE DETECTION & SUPPRESSION SYSTEM

COMPLETE SOLUTION FOR BELOW FIRE & SAFETY SYSTEM

- Design of any fire alarm & suppression system according NFPA requirement.
- Upgradation of old fire alarm & fire fighting system with new state of the art systems including low pressure CO2 systems.
- Fire alarm & fire fighting system for industrial equipment & commercial buildings including transformers , skids , electrical rooms & admin buildings.
- Conventional & addressable fire alarm system
- FM200 ,NOVEC1230 , CO2 & Foam fire suppression system
- Fire fighting system including electrical fire pump , diesel engine fire pump, jockey pump , deluge valves along with piping & different type of sprinkler system.
- Integration & interlocking of fire signals to equipment electrical system and SCADA



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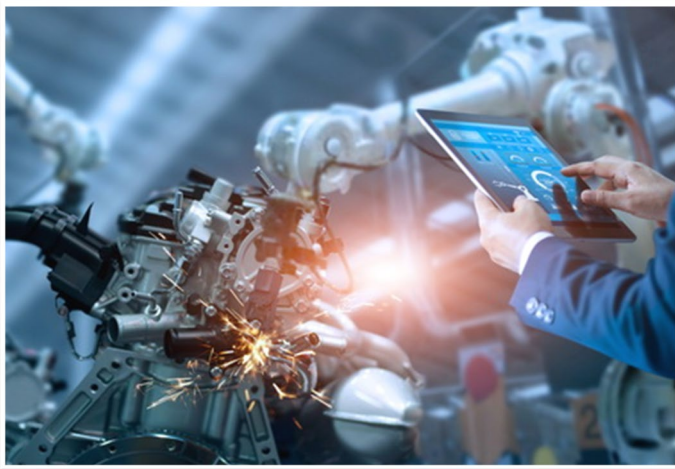


شركة نافع الخليج للمقاولات

5-COMPREHENSIVE DIGITAL SOLUTIONS

NKCC WITH ITS PARTNER VIRTUENETZ TRANSFORMING YOUR DIGITAL LANDSCAPE WITH INDUSTRY LEADING SERVICES

- IoT & IIoT based advance solutions for industrial and commercial needs
- Connectivity of industrial automation system with OPC based customized applications
- UI/UX Design: Crafting Memorable User Experiences
- Web Application Development: Building Resilient Digital Solutions
- eCommerce Development: Elevate Your Online Business
- Mobile App Development: Innovating on the Go
- AI-Based Solutions: Harnessing the Power of Intelligence
- 3rd Party Integrations: Seamless Connectivity for Your Business
- Streamlining operations with AI-powered route optimization and tracking systems



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PROCESS AUTOMATION & ELECTRO-MECHANICAL CONTRACTING



WE HAVE DIRECT PROCUREMENT & CONSULTING SUPPORT FROM BELOW PARTNERS



LV/MV SWITCHGEARS , MCC ,VFDs & PLCs



LV/MV SWITCHGEARS , MCC & REDUNDANT INDUSTRIAL UPS



FOR STEEL AND STEEL ALLIED PRODUCTS



PROCESS INSTRUMENTS LIKE FT,TT,PT & TANK GAUGING SYSTEM



PROCESS INSTRUMENTS & DCS SERVICES



EXPLOSION PROOF LCPS, JBS, RECEPTACLES , LIGHTING & GLANDs



FIELD INSTRUMENTS & GUAGES FOR FACTORY AUTOMATION



PROCESS INSTRUMENTS & GUAGES



RGS CONDUIT,CABLE LADDER & CABLE TRAY INCLUDING ACCESSARIES



FOR INDUSTRIAL PIPES



STATIC GROUNDING SOLUTIONS FOR HAZARDOUS AREAS



MAGNETIC LEVEL INDICATOR & THERMAL FLOW SWITCHES



Saudi Arabian Engineering Co. Ltd.
الشركة العربية السعودية للمهندسة المحدودة

PARTNER FOR THIRD PARTY CALIBARATION



INDOOR / OUTDOOR/EXPLOSION PROOF INDUSTRIAL LIGHTING



EARTHING , GROUNDING & LIGHTINING SYSTEM



CONTROL & INSTRUMENTATION SPECIALIZED CABLES



MV/LV POWER CABLES



مصنع خدمات العناية الكهربائية
Electrical Care Services Factory

PARTNER FOR MCC & PLC PANEL BUILDING

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www.nafeh-khaleej.com



Engineering Services For Industry

PROJECTS REFERENCE LIST

Note: Further detail for any project shall be provided on request

BELOW IS A BRIEF DESCRIPTION OF FEW OF OUR ONGOING & RECENTLY COMPLETED
PROJECTS

ON GOING PROJECTS	
S.No.	Project Details
01	Project Name: JIC2 Capital Enhancement TSE & Irrigation Pumping Station Jeddah Contract/Ref No. : JIC2-CE-PS-ELEC-001 End User: TAWZEA AQUAPOR / MODON NKCC Role: E&I Contractor Project Description: Detail engineering, procurement, installation and commissioning of complete Electrical scope including LV switchgears, Black start DG, PLC & Drive scope and commissioning of complete JIC2. Responsibilities: NKCC is responsible for designing, procurement, installation and commissioning of - MV/LV Power transformers - LV switchgears including VFDs - PLC panel along with programming & graphical system design & commissioning. - SCADA system development for complete plant. - Complete work for 1MW 480Vac BSDG - Complete HVAC and firefighting work
02	Project Name: Electrification work for Aramco PS#09 (E/W Pipe line) with New SEC 33KV Metering Contract No. : 6511093486 End User: Saudi Aramco Main Contractor: Abdullah AL Nemshan Contracting Co. Ltd. NKCC Role: E&I Sub Contractor Project Description: To connect existing pumping station with SEC 33KV grid and dismantle existing generator arrangement Responsibilities: NKCC is responsible for detail designing, procurement, installation and commissioning of below subsystems. - Construction of SEC RMU room , Switchgear foundation and transformer foundation as per Aramco standard 33KV MV switchgears 4-way (Qty:02)

السجل التجاري: ٤٠٣٠٤٩٦٦٠٧ / ضريبة القيمة المضافة: ٣١١٥٢٦٠٠٨٢٠٠٠٠٣ / رأس المال المسجل (مدفوع بالكامل): ٥٠٠.٠٠٠ ريال سعودي C.R: 4030496607 / VAT: 311526008200003 / Registered Capital (Fully Paid): SAR 500,000

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مكتب رقم ٠٨ ، مركز الأعمال (٧١١٦) ، طريق الحرمين السريع ، حي الصفا ، جدة ٢٣٤٥٣-٥٢٠٩

Kingdom of Saudi Arabia المملكة العربية السعودية



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Engineering Services For Industry

	3X120mm² CU/XLPE/PVC 33KV armoured cable - Replacement of existing transformer with 33KV/480V ,2MVA,60Hz Power transformers (Qty:02) - Replacement of existing Bus Duct with new 2400A/480V cable bus - Upgradation of existing old electrical protection scheme into new scheme by replacing existing mechanical protection relays with new smart IEDs - ATS scheme upgradation - Integration of new signals in existing SIEMENS CS7 control system - All other electro-mechanical work like earthing, fencing, lighting etc
03	Project Name: AUTOMATION OF PSDP-5/6, PS-1 AND PS-2 TO REMOTE CONTROL STATION BY DCS YANBU/MASA Contract No. : 9100023330 End User: MARAFIQ/MASA Main Contractor: Marine Services Co. Ltd. NKCC Role: E&I Sub Contractor Project Description: To upgrade electrical system, field instrumentation & DCS logics into state of the art present day technology to make all pumping stations unmanned Responsibilities: NKCC is responsible for designing, procurement, installation and commissioning of below subsystems. - Replacement of old ATS technology with new ATS systems (Qty:03) - Electro-mechanical works for 15 On/Off electric actuators & 5 modulating actuators. - Upgradation of pressure transmitters, temperatures sensors & transmitters for 3 pumping stations - Upgradation of engine drive pumps control cabinet & electro-mechanical works - Electrical & process instruments calibration. - Upgradation of existing vibration monitoring system including field sensor into state of art vibration monitoring & analysis. - Modification in Emerson DCS program to make all 3-pumping station in auto mode and independent of day-to-day manned operation. This also include removal of all faults in existing DCS system
04	Project Name: Enhanced Automation on Reclaimed water Pumping station PS-P1, PS-P3, PS-P4 and PS-56 Contract No. : 9100024807 End User: MARAFIQ/MASA Main Contractor: Marine Services Co. Ltd. NKCC Role: E&I Sub Contractor

السجل التجاري: ٤٠٣٠٤٩٦٦٠٧ / ضريبة القيمة المضافة: ٣١١٥٢٦٠٠٨٢٠٠٠٣ / رأس المال المسجل (مدفوع بالكامل): ٥٠٠.٠٠٠ ريال سعودي C.R: 4030496607 / VAT: 311526008200003 / Registered Capital (Fully Paid): SAR 500,000

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مكتب رقم ٠٨ ، مركز الأعمال (٧١١٦) ، طريق الحرمين السريع ، حي الصفا ، جدة ٢٣٤٥٣-٥٢٠٩

المملكة العربية السعودية Kingdom of Saudi Arabia



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	<u>Project Description:</u> To upgrade Automation system and field instrumentation along with communication with remote SCADA into state of art present day technology to make all pumping stations unmanned <u>Responsibilities:</u> NKCC is responsible for designing, procurement, installation and commissioning of ▪ SIEMENS PCS7 based PLC control system for each pumping station consisting of redundant controller and ET200SP HA IO system. ▪ Electro-mechanical works for 18 On/Off electric actuators. ▪ Upgrade the FLYGT MAS711 pump monitoring and protection panel with latest control system.
05	<u>Project Name:</u> Loop Connections for Switchgear Rooms at Jeddah-3 Power Plant <u>Contract No. :</u> 4000074898 <u>End User:</u> Saudi Electricity Company (SEC) Power Plant 3(PP3) <u>Main Contractor:</u> KAFOU Technical Services Ltd. <u>NKCC Role:</u> E&I Sub Contractor <u>Project Description:</u> To connect existing 13.8KV feeders with 4.16KV feeders along with IED & transformer testing <u>Responsibilities:</u> NKCC is responsible for detail designing, procurement, installation and commissioning of below subsystems. ▪ Construction of Duct bank for cable route ▪ MV cable termination ▪ MV cables supply & laying ▪ 13.8KV and 4.16KV feeders relay setting, coordination and testing ▪ 13.8KV/4.16KV/2MVA transformer testing ▪ Each feeder energization
COMPLETED PROJECTS	
NKCC team has successfully completed below projects under its previous company Al Murqab Technology Contracting later complete team along with setup transferred to new company under MISA/SAGIA regulation, Nafeh Al Khaleej Contracting Co. Ltd.	
S.No.	Project Details
5	<u>Project Name:</u> 140224-CP003-SCW-PRIMARY CRUSHER FINE REMOVAL EC & I <u>Contract No. :</u> 5527062 <u>End User:</u> MA'ADEN <u>Main Contractor:</u> ArabSign company limited. <u>Role:</u> E&I Sub Contractor <u>Project Description:</u>

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Kingdom of Saudi Arabia المملكة العربية السعودية



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	Complete E&I work during installation of new primary crusher which includes - Supply, installation, testing and commissioning of LV power and control cables. - Supply, installation, testing and commissioning of Earthing and lightening protection system. - Supply, installation, testing and commissioning of plant lighting. - Supply, installation, testing and commissioning of cable ladder, cable tray and HDG conduits. - Installation, testing and commissioning of LV switchgear extension cabinets for new plant. - Installation, testing and commissioning of PLC panel along with technical support to OEM commissioning team.
6	Project Name: Conversion of GE Frame 7 EA Gas Turbines to Fire Crude Oil as Main Fuel at Tabouk-2 & AlWadjh Power Plants Contract No. : 4400010066 End User: Saudi Electricity Company Tabouk & Alwajh Power Plant Main Contractor: KAFOU Technical Services/Marine Services Co., Ltd. Role: E&I Sub Contractor Project Description: To convert GE frame 7EA gas turbines to fire crude oil as main fuel and distillate as startup & standby. This includes 09 Units conversion at Tabuk PP while 03 Units at Alwajh PP Responsibilities: We were responsible for designing, procurement, installation and commissioning of below subsystems. - Conversion of unloading stations from distillate to crude oil operation including all required E&I work. - E&I Installation of crude oil treatment plant and commissioning support to GEA westfalia. - E&I work required for gas turbines crude oil operation including forwarding & selection skid instrumentation, Medium voltage & low voltage MCC & switchgears designing, installation & commissioning. - Coordination study for MV & LV system. - Transformers, switchgears, MCC installation & commissioning support - MV cable laying & termination - LV & control cable laying & termination (Almost 200,000 meters) - Fire alarm system & devices installation & commissioning support

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7	Project Name: Conversion of GE Frame 7 EA Gas Turbines to Fire Crude Oil as Main Fuel at Sharora Power Plant Contract No. : 40722007/00 End User: Saudi Electricity Company Sharora Power Plant (Generation) Main Contractor: Marine Services Company Ltd. Role: Sub Contractor Project Description: To convert GE frame 7EA gas turbines to fire crude oil as main fuel and distillate for startup & standby. This include 02 Units conversion at Sharora PP Responsibilities: We were responsible for designing, procurement, installation and commissioning of below subsystems. - Conversion of unloading stations from distillate to crude oil operation including all required E&M work. - Conversion of distillate oil treatment plant to crude oil treatment plant including all required E&M work, programming modification and successful commissioning. - E&I work required for gas turbines crude oil operation including forwarding & selection skid instrumentational MCC designing, installation & commissioning. - Coordination study for MV & LV system. - Transformers, switchgears, MCC installation & commissioning support - Fire alarm system & devices installation & commissioning support
8	Project Name: Modification of generator cooling system for Unit 8,9,10,11 at Tihamma power plant Contract No. : 4400004692/4400008736 End User: Saudi Electricity Company Tihamma Power Plant (Generation) Main Contractor: Marine Services Company Ltd. Role: E&I Sub Contractor Project Description: To convert generator's existing open air cooling system to totally enclosed water air circulation system(TEWAC). Responsibilities: We were responsible for designing, procurement, construction and commissioning of electrical, instrumentation & control equipment. This job includes power & control cables, field instruments, MCCs & PLC panel designing, procurement, installation & commissioning. We were responsible to interface supplied PLC panel with existing MARK V turbine control system of the units for reliable operation.
9	Project Name: EPC contract for black start diesel generator for SWCC Jeddah.

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	Contract No. : JD/RE/871 End User: Saline Water Conversion Corporation (SWCC) Jeddah Main Contractor: Marine Services Company Ltd. Role: E&I Sub Contractor Project Description: Design, supply, installation, testing & commissioning of diesel generator with capacity of 2.5MW (13.8KV) at SWCC Jeddah Responsibilities: This job includes engineering, procurement, installation, testing & commissioning of below E&I sub systems. ▪ Engineering, procurement, Installation and commissioning of MV/LV switchgears & MCC panels (vendor ABB) ▪ Engineering, procurement, Installation and commissioning of Siemens S7-400H (Fault tolerant) based PLC system for the whole Black start process. ▪ Engineering, procurement, Installation and commissioning of Process Instruments which includes pressure switches, pressure gauges and transmitters, Temperature gauges and transmitters, Level Transmitters. ▪ Complete Engineering, procurement, Installation and commissioning of Fire alarm and Firefighting system (Vendor REDA), Earthing system, power & control cables. ▪ Fire alarm system & devices installation & commissioning support
10	Project Name: CAMELLIA External Catalyst Plant Axens Dammam Industrial Area-2 End User: AXENS catalysts and absorbents Ltd. Main Contractor/: Al-Sharq Al-Baeid Contracting Co. I&C Sub-Contractor: Flowtronix Arabia Ltd. Role: System integrator Project Description: The program of the project was to construct an external catalyst plant named CAMELLIA. Responsibilities: This job included below system integration responsibilities: ▪ Complete Automation Design including Communication, Remote cabinets, third party equipment and SCADA Station using SIEMENS S7-400 PLC & WINCC7.0 SCADA. ▪ Design and supervision in manufacturing of PLC Control cabinets. ▪ Programming of Batch and continuous plant processes. ▪ Development of WinCC based SCADA Station with 1 Engineering Station, 1 SCADA Server and 2 SCADA Clients. ▪ FAT at Shuwayer Panel Factory in Dammam. ▪ Testing and Commissioning at site.

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11	Project Name: Ferric Chloride Plant Automation and SCADA system Basic Chemical Industries Dammam. Contract No. : F-644-PO20140901/001 End User: BCI Dammam Main Contractor/: Flowtronix Arabia Ltd. Role: System integrator Project Description: The program of the project was to extend/construct ferric chloride 40% solution plant at Basic Chemical Industries (BCI) facility Dammam. Responsibilities: This job included below system integration responsibilities: - PLC Programming of Honeywell HC-900 based Hybrid PLC controller. - Development of SCADA (1 Server and 1 Client) system as per provided PFD. - FAT at Shuwayer Panel Factory facility in Dammam. - SITE testing & commissioning.
12	Project Name: Oil Terminal Tank Gauging System, Control & Instrumentation work End User: Bakri International Energy Limited Project Description: The scope of the project was to rehabilitate installed equipment including design, supply, testing & commissioning of new equipment required for successful terminal operation. Primary Responsibilities: - S7-400H system testing & commissioning with 500 I/Os. - PLC logic & SCADA development for whole terminal using STEP7 & Wincc7.0 - L&J radar gauges MODBUS interface with PLC. - Installation and commissioning of LT, PT, TT, DPT instrument & control valves plus interfacing with SCADA. - Cable tray and cable conducting work for field equipment cables. 4.16KV/2.5MW Motors switchgear cable laying & termination - Remote SCADA monitoring using WinCC web navigator - Fire alarm system & devices installation & commissioning support

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