

INDUSTRIAL and ELECTRICAL UTILITY PROJECTS**1 General Electric, Cairo Liaison Office**

- 1 Nozha 66/11 kV GIS substation – Design Review and Failure Analysis of 11kV Capacitor Banks
- 2 Nile City Towers – Failure Analysis of LV Capacitor Banks
- 3 SAMCRETE – Kuwait Diplomatic Headquarters – Protective device coordination study
- 4 Nozha Substation Medium Voltage Capacitor Banks Design Review and Repair

2 Gulf Oil & Gas, UAE (Sami Amin, Cairo)

Technical Support for Electrical Equipment Procurement – GNPOC, Sudan

3 MANRO Trading Co.

Supervision of Testing of Electrical Components for House Hold Appliances

4 Ahram Beverage Company (Heineken)

6th of October Malt Manufacturing Plant – Complete Design Review of Electrical Systems

5 Nasr Petroleum Company, Suez, Egypt

Short Circuit and Relay Coordination Study (Medium Voltage Systems)

6 Suez Canal Container Terminal - SCCT EMS

Fault & Coordination Study for Medium Voltage Distribution and Supply System

7 Suez Cement (Italcementi Group), Sokhna, Egypt

Relay Coordination Study for Suez II Medium Voltage Main Station

8 Sega-M (GE Power Controls)

- 1 Development of Techno-Commercial Handbook
- 2 Technical Training of Sales/Techno-Commercial Engineers
- 3 Technical Training of Design/Production Engineers
- 4 Long Term Technical Support Services

9 Suez Cement Group, Tourah Plant

- 1 Short Circuit Study for Suez Plant Line 2
- 2 Complete Short Circuit and Relay Coordination Study for all MV Main and Sub Stations

10 Modern Waterproofing Co. - SPUNTEX

- 1 Complete Power System Design for Spuntex New Plant – Badr City
- 2 Fire Fighting System Design for Spuntex New Plant – Badr City
- 3 Complete Power System Design for Modern Plastics New Plant – Badr City
- 4 Fire Fighting System Design for Modern Plastics New Plant – Badr City

11 OrasInvest – MobiFactory

- 1 Complete Architectural/Civil/Electromechanical Design and Supervision of Erection – New First Service Building at MobiFactory – 6th of October City
- 2 Complete Architectural and Electromechanical Design for Call Center and R&D Dept. (3 Floors) Administration Building

12 Spuntex & Modern Plastics – Badr City

- 1 Redesign of Light and Sockets Panels, and complete inspection of plant electrical installations
- 2 Design of Gas and Flame Detection System for On-Site Gas Station

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- 13 SNAM for Trading & Manufacturing**
Electromechanical Design for Ice Cream Factory
- 14 North Delta Electrical Distribution Co.**
Supervision of Erection, Testing, & Commissioning of 30 GE Bay Management Relays (3 Sites)
- 15 TFT Tabenkort (GE Multilin Client)**
Relay testing and Commissioning
- 16 GE Digital Energy (Multilin - GE Power Management S.A.)**
- 1 Testing and Commissioning of Generator Protection Relays, El Gamil, Portsaid, Egypt.
 - 2 Commissioning and Testing of Generator Protection Relays at El Shabab Power Station
 - 3 Commissioning and Testing of Generator Protection Relays at Damietta Power Station
 - 4 FAT & SAT Toura 66/11kV Substation (S/S by EGEMAC)
 - 5 FAT & SAT 81 Military Factory 66/11kV Substation (S/S by EGEMAC)
 - 6 FAT & SAT 90 Military Factory 66/11kV Substation (S/S by EGEMAC)
 - 7 Modify B90 System at Suez Steel Co. (PSP)
 - 8 El Ain El Sokhna 500kV Power Station FAT and SAT of Protection Systems
 - 9 TOURA Bus Bar Protection B90 FAT (EGEMAC)
 - 10 SAT for Generator Protection Panels - West Damietta Units GT13, GT14, GT15, and GT16
 - 11 Bus Bar Protection (B90) SAT for Military Tourah Project - EGEMAC
 - 12 Bus Bar Protection (B90) SAT for Military 90 Project - EGEMAC
- 17 Magronite Factory (Sameh Medhat)**
Electrical Design for Granite & Marble Factory
- 18 Closure Systems International (CSI) Egypt (ALCOA)**
- 1 Thermal (IR) Scanning Implementation & Analysis for Main Electrical Equipment
 - 2 Professional EHS (Environment Health and Safety) Consulting
- 19 Shaker Consultancy Group**
- 1 Commissioning & Testing of all protection Relays at El Fenoon Academy 66/11kV Substation
 - 2 Technical Training on El Fenoon Academy 66/11kV Substation Protection Relays
- 20 Zoujaj Factory (Saudi Arabia)**
Full Electro-mechanical Design
- 21 EGEMAC (Egyptian German Manufacturing Company)**
FAT for Sokhna 500kV S/S Medium Voltage Protections
- 22 Masharea Project Management Company**
Fulaz Steel Manufacturing Plant (Isam Kabani) - Saudi Arabia
- 23 Schneider Electric Egypt**
Cairo-Alex Corridor Tender Stage Tech Design Support

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Procter & Gamble, Egypt - 6th of October City

- 1 Failure Diagnosis of Compressed Air Motor System
- 2 New Bar Soap Line Power Supply System Design
- 3 Capacity Expansion Project from 7.5 to 12 MVA
- 4 Power System Review and Updating (for over 400 switchboards)
- 5 Complete Plant Short Circuit Study (for over 400 switchboards)
- 6 Selectivity and Coordination Study (for over 400 switchboards)
- 7 New Compressors Supply System Design
- 8 As Built Control and PLC Drawings (AERIAL Line)
- 9 As Built Control and PLC Drawings (Pampers Line 3)
- 10 New Always Line (Line 3) Supply System Design
- 11 Compressed Air System Extension Project - Supply System Design
- 12 Filter Renewal Project – Control and Protection System Design
- 13 Electrical Safety Implementation Project
- 14 Flash Hazard Study (for over 400 switchboards)
- 15 Redesign of 22 Low Voltage Switchboards
- 16 Warehouse 6000 (6000m²) Illumination Design
- 17 Electrical services design – Administration Building 3rd Floor
- 18 Electrical services design – Packing Dept. New Entrance
- 19 Power Quality Study of Mains Supply
- 20 Electrical Safety Implementation Phase II and Phase III
- 21 Development of Electrical Master Plan
- 22 Electrical Design for New Headquarters – Nile City – Cairo
- 23 Electrical Design and Update of System Studies (Single Line Diagram, Short Circuit and X/R, Coordination Study, Flash Hazard Study) for Transfer of WWTP to Admin. Building Low Voltage Substation
- 24 Electrical Design and System Studies (Single Line Diagram, Short Circuit and X/R, Coordination Study, Flash Hazard Study) for Fabric and Homecare Capacity Increase
- 25 Design of Medium Voltage System Upgrade to Accommodate New Pampers Lines
- 26 System Studies (Single Line Diagram, Short Circuit and X/R, Coordination Study, Flash Hazard Study) and Design Review for Always Line 4
- 27 Redesign of Fire Fighting System for 6000m² Warehouse (WH1)
- 28 Complete As Built Drawings for Control All Control Panels in the Fabric & Homecare Making Facility
- 29 Complete Design of Electrical and Electromechanical Systems for New 2 Level Stacking Building in the Packing Department + Complete System Studies
- 30 Electrical Safety Design Review and Value Engineering for all Pampers Elite Electrical Facilities
- 31 Complete Electrical Design for new ALDO Production Facility + Complete System Studies
- 32 Complete Electrical Design for new Bar-soap 3 Production Facility + Complete System Studies
- 33 Electrical Safety Design Review and Value Engineering for Always 4 Electrical Facilities
- 34 Electrical and HVAC design for New Femcare Meeting Room and Glue Workshop
- 35 Electrical works for VAC systems upgrade in Kitchen/Cafeteria area
- 36 Design of Electrical Systems for New TSM Open Offices
- 37 Design of Electrical Works for Extension of Always Warehouse
- 38 Design of Main Sub-Station for Barsoap Line 3
- 39 Electrical Safety Review Pampers Line 13
- 40 Complete design for Electrical works Main Admin Bldg. Renovation
- 41 Electrical Design and Safety Studies for LCC Lines (Always)
- 42 Power Capacity Increase Phase II – Technical Support and System Design
- 43 Complete Supply System Design for 6 New Always Lines
- 44 Electric Power Study for Conversion of Pampers Lines (3 Lines)
- 45 Electric Design for Upgrade of Shredder Area
- 46 Complete Electrical/HVAC Design for Central Packing Facility for Femcare
- 47 Electrical Master Plan 2008-2012
- 48 Complete Electrical Design for New Barsoap Facility and Warehouse

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- 49 Electrical Design Package for Dock Levelers System
 - 50 Design of Earthing System for Control of Electrical Noise on Pampers Production lines
 - 51 Electrical Design for Upgrade of New Femcare Production Area
 - 52 Design of Lighting and Earthing Systems for the New MV Distributor Sub-Station
 - 53 Complete design for Main Sub Station (2 x 1600kVA) for New Cornflake Project
 - 54 Electrical Design and Safety Studies for New Multilane Packing Line
 - 55 Complete Electrical Design and Distribution Network Modification for Fabric and Homecare Capacity Increase
 - 56 Complete Electrical Design Review – New Pampers Plant – 6th of October City
 - 57 Street Lighting Design for New Land – February 2009
 - 58 Complete HVAC Design Review – New Pampers Plant – 6th of October City
 - 59 Fabric & Home Care – Capacity Increase and Medium Voltage Loop Modification
 - 60 Electrical Design for Data Center
 - 61 Design of Crutcher Motor Control Center (MCC#2)
 - 62 Complete Update of all Power System Studies
 - 63 Electrical and HVAC design for Utility Building, and Electrical Safety Studies (including Short Circuit, Coordination, and Flash Hazard Studies), Cornflake Project
 - 64 Electrical Design for New Compressors
 - 65 Electrical Design for New Boiler House
 - 66 Electrical Design for New Exhaust Fan (560kW) and new Dilution Fan (355kW)
 - 67 Electrical and Lighting Design for WH (6000)
 - 68 Fence Lighting Network Elec Design - Sanitary Waste Pump Station Elec. Design
 - 69 Design an electrical panel for glue WS
 - 70 Redesign Main LV Cables & Short Circuit Study New Pampers Plant (Egypt)
 - 71 Complete electrical design and specs for BC offices
 - 72 Phase 3 Engineering Support - New Pampers Plant
 - 73 Electrical Safety Studies (including Short Circuit, Coordination, and Flash Hazard Studies) (Barsoap)
 - 74 Redesign of Earthing Systems New Pampers Plant (Egypt)
 - 75 Redesign of Lightning Protection System New Pampers Plant (Egypt)
 - 76 Design and Specification of Generator and ATS (Automatic Transfer Switch) for Electric Fire Pump New Pampers Plant (Egypt)
 - 77 Redesign of External Lighting Systems New Pampers Plant (Egypt)
 - 78 Owner representative – Technical Affairs (electro-mechanical) - New Pampers Plant (Polaris Industrial Park – 6th of October - Egypt)
 - 79 Owner representative – Testing, commissioning and Start Up of Electro-mechanical Systems - New Pampers Plant (Egypt)
 - 80 Electrical Safety Studies (including Short Circuit, Coordination, and Flash Hazard Studies) – New Barsoap
 - 81 Electrical Studies for the New Medium Voltage Switchgear
 - 82 Electrical Design for New Femcare Central Packing
 - 83 Electrical Design for New Gate House Area and Facilities
 - 84 Phase 5 Engineering Support – New Pampers Plant
 - 85 Electrical Supply Design for Contractor Building – New Pampers Plant
 - 86 Perform Arc Flash Study for VS-400 Panel
 - 87 Electrical Design for Dishcare Capacity Increase
 - 88 Short Circuit/Coordination/Flash Hazard Studies and Single Line for New Pampers Plant
 - 89 Power Quality Study for Pampers Transformers 8 and 9
 - 90 Phase VI Engineering Support – New Pampers Plant – Technical Reviews
 - 91 Phase VII Engineering Support – New Pampers Plant – Systems Commissioning Support
 - 92 New Pampers Plant – Resident Electrical Engineer
 - 93 Completing Electrical Design for End of Line Automation (Fabric & Home Care Packing Dept.)
 - 94 As Built single Line Diagrams for Babycare and Utility
 - 95 Training on Power System Studies Software (SKM Power tools for Windows)
 - 96 Full Electrical Design for New 3 Floor Store in PSG (Packing Dept.)
 - 97 Electrical Power Master Plan (up to 16 Lines)
 - 98 Bar soap MCC Modifications (New Bundler)
 - 99 Electrical Safety Studies (including Short Circuit, Coordination, and Flash Hazard Studies) Cairo Line 18



- 100 Main Admin 3rd Floor Design
- 101 RE Offices Electrical Design
- 102 Redesign Battery Charger Panel
- 103 Power Load Analysis for TR#10&11
- 104 Electrical Design Package for TR#13
- 105 Supply full design package for new AHUs
- 106 Gate 63 Elect. Design
- 107 Femcare (WC) Electrical Design
- 108 Lithograph Area Electrical Design
- 109 Electrical Master Plan
- 110 Elect. Design for Nemo Project BS
- 111 Power System Study for Transformer 20
- 112 Power System Study for Transformers 3 and 4
- 113 Compressor Relocation Mechanical/Structural/Electrical Design Works
- 114 Flash Hazard for LCC 1&2 Conv Panel
- 115 Voltage Relays Test Service
- 116 Testing of Voltage Relays in 14 MDBs
- 117 Power Ssystem Studies for 1x1000A MDB + 1x250A MDB + 16 EOLA Panels
- 118 MCC 11 Design
- 119 Safety Studies of Compressor Electrical Panels
- 120 Electrical Design Package (Space Lighting Design)
- 121 Electrical Design for the Dishcare (Capacity Increase) Including Power System Studies
- 122 HVAC System Consultant Report
- 123 Studies for 2 Panels - Contractor Building
- 124 Feasibility Study for Backup Power (P&G CFC HQ)
- 125 Electrical Design and Fault and Coordination, and Flash Hazard Study for Glue Workshop
- 126 P&G CFC Head Quarters Temporary Emergency Generator Design and Electrical Safety Studies (including Short Circuit, Coordination, and Flash Hazard Studies)
- 127 Making Electrical Design (Dishcare Capacity Increase 2)
- 128 P&G CFC Head Quarters HVAC & BMS Claim Review
- 129 Shipping Dock Electrical Design
- 130 Inspect and Study New Compressor Room HVAC
- 131 Design and Supervision of Modifications of HVAC System
- 132 Complete Design Works (Architectural/Civil/Fire Fighting/Electrical) for 2x4MVA Medium Voltage Automatic Voltage Regulator
- 133 Design of Lighting System for Building 20 - New Pampers Plant (6 October Plant)
- 134 Electrical Design for New Compressor and Dryer
- 135 Electrical Safety Study for Kitchen Panel
- 136 Cairo Plant - Updated Electrical Safety Power System Studies for the Whole Plant (2014)
- 137 Electrical Master Plan 2014-2017, October 6 Plant
- 138 Detatiled Design for Power Upgrade Necessary for Line 9, October 6 Plant
- 139 Update of Electrical Power System Safety Studies for the October 6 Plant - Addition of MV AVR
- 140 Electrical Safety Study for P&G CFC Offices
- 141 Design Review and Supervision of Installation of New Generator for Backup Power - P&G CFC Offices
- 142 5 Year Electrical Master Plan for the Cairo Plant
- 143 Resident Engineering Support for HVAC Systems - October 6 Plant
- 144 Electrical Safety Study for Caravan Offices
- 145 Resident Engineering Support for Electrical Systems (for L9) - October 6 Plant
- 146 Electrical Design for the Euola Meeting Room - Cairo Plant
- 147 Update of Electrical Power System Safety Studies for the October 6 Plant - Addition of Substation 3 and Line 9
- 148 Electrical Design for PSG Extension Project (3 Levels Building) - Cairo Plant
- 149 Structural and Electro-mechanical Design for Warehouse Cooling - October 6 Plant
- 150 HVAC Consultancy Sevice - October 6 Plant

- 151 Electrical Design for the Crusher Relocation and Core Separation
- 152 Complete Electrical Design for the New Glue Workshop
- 153 Electrical Safety Studies Update - Addition of Line 10 - 2016
- 154 Electrical Safety Study (Update - New Compressor) - New Pampers Plant - October 6 Plant

25 Star Beacon

- 1 Electrical/Roads/Compressed Air Design for Sugar Packing Factory - 6 October City
- 2 Site Supervision of Installations Sugar Packing Factory - 6 October City

26 EDITA

- 1 Complete Design (Architectural/Structural/Electrical/Mechanical) for the Benisweif E15 Plant Extension
- 2 Redesign of MDB for 1 MVA Transformer - E10 Plant
- 3 As-Built Drawings up to SMDB Level - E06 Plant
- 4 Complete MEP and Structural Design for 2 Lines Extension at E07 Plant
- 5 Site supervision and Office Support for the E15 Extension Project
- 6 Ventilation Design for Edita E15 Extension
- 7 External Fire Fighting Network Modification E15
- 8 HVAC Design for BS & BR Packing Hall at E06
- 9 E10 Transformer (1MVA) MDB and Earthing

27 MARS Egypt

- 1 Power System Studies: Short Circuit/Coordination/Flash Hazard for the Whole October 6 Plant
- 2 Training on Flash Hazard Studies
- 3 Lighting Analysis and Lighting Upgrade for the Old Plant - 6 October
- 4 Electrical Safety Audit for Old Plant - 6 October