

PARTIAL LIST OF POWER TRANSMISSION AND DISTRIBUTION PROJECTS

CLIENT/LOCATION	PROJECT DESCRIPTION	SCOPE OF SERVICES
Ministry of Electricity & Energy, Public Electricity Corporation, Yemen	Jaar-Lawder 132 kV Transmission Line Project including expansion of existing Jaar 132/33 kV substation, new 110km 132kV transmission line to Lawder area and new 132/33 kV substation at Lawder and three 33/11kV substation at Abian Governorate.	Supervision of project implementation including design review, shop inspection, supervision of construction, site testing and commissioning and acceptance, support during Warranty phase and training of Owner's Staff.
Ministry of Electricity & Energy, Public Electricity Corporation, Yemen	Suq Abs-Bajil 132 kV Transmission Line Project including 120 km double circuit 132 kV overhead line between Suq Abs & Bajil, new 132/33 kV substation at Suq Abs, Extension of 132/33kV Bajil Substation, two 33/11 kV substation & 33kV, 11kV, 0.4kV transmission & Distribution networks in AMRAN Governorate, five 33/11kV substations & 33kV, 11kV, 04kV transmission & Distribution networks in HAJJA Governorate And communication systems.	Supervision of project implementation including design review, shop inspection, supervision of construction, site testing and commissioning and acceptance, support during Warranty phase and training of Owner's Staff.
Ministry of Electricity & Energy, Public Electricity Corporation, Yemen	Jaar-Lawder 132 kV Transmission Line Project including expansion of existing Jaar 132/33 kV substation, new 110km 132kV transmission line to Lawder area and new 132/33 kV substation at Lawder and three 33/11kV substation at Abian Governorate.	Supervision of project implementation including design review, shop inspection, supervision of construction, site testing and commissioning and acceptance, support during Warranty phase and training of Owner's Staff
PT. PLN (PERSERO) Indonesia	150 KV transmission line to convert the Banda Aceh existing substation to the existing Bieren Substation through planned Meulaboh al Takengon Substation and improvement of the existing transmission line from the Banda Aceh existing Substation to the Langsa existing substation.	Review of available data; technical analysis and evaluation of the existing system and its future requirements; preparation of implementation plan; economical financial analysis; preliminary environmental assessment; review project related regulatory issues; preparation and analysis of host country's developmental impacts; determine potential U.S. sources of supply; and preparation of final report.



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Ministry of Energy of the Republic of Georgia, Georgia	New 500 KV transmission line between the Zestaphoni and Gardabani substations and a new 500/600 KV Substation at Akhaltsikhe and 30 KM of 500 KV transmission line and 46 KM of 600 KV transmission line for connecting to the Turkey border.	Review of available data and current system configuration; legal regulations and institutional review; regional electricity market and technical evaluation; preparation of preliminary design and estimates; environmental and social impact assessment; preparation of detailed design and estimates; implementation schedule; cost estimates; financial options review; tender document preparation; and reporting.
National Electric Power Company, Jordan	Jordan 400 kV Double Circuit Overhead Transmission Line from Aqaba to Amman East and the Associated Substations.	Review of available data and current system configuration; legal regulations and institutional review; regional electricity market and technical evaluation; preparation of preliminary design and estimates; environmental and social impact assessment; preparation of detailed design and estimates; financing options review; tender document preparation; and reporting.
Hadi Haider Company, Saudi Arabia	380/115/34.5/13.8 kV Substation at Madinat Yanbu, Saudi Arabia for Royal Commission of Yanbu and Tubail	Basic and detailed engineering including Power System studies, development of design criteria, preparation of tender specifications, vendor drawing review and issue of construction drawings.
Hyundai Engineering and Construction Company Seoul, Korea	400 kV Overhead Transmission Line Project in U.A.E.	Supervision of Construction, testing and commissioning work
Perini Management Services, Inc., Department of Defense Iraq	11/33kV transmission and substation projects at various locations in Southern Iraq under Iraq Reconstruction Program	Site investigation, preliminary engineering, cost estimates, and detailed engineering.



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M.R. Al-Khathlan Contracting Co./Saudi Electric Company - Western Region, Saudi Arabia	110/13.8 KV Mohammadiyah Substation and Related Activities	Detailed design and engineering, review of vendor specification and drawings, fault level, load flow studies, system component sizing calculation, etc., supply of document/drawings as noted in SEC (WR) specifications, preparation of operating and maintenance manuals (based on O&M manuals provided by various suppliers and limited to one electronic and one hard copy), site visits and attendance of design review, preparation of material take-off including detailed specifications of major equipment, all other engineering works to fulfill the project requirements, site survey for the remote end substation modifications and as-built drawings.
Saudi Electric Company, Western Region, Saudi Arabia	Jeddah North 380 KV Substation	Design review, site supervision, implementation, testing and project management
Royal Commission of Yanbu and Jubail, Saudi Arabia	Relay Coordination Study	Study, conceptual design, cost estimate and study report
Ministry of Electricity and Water, Sana'a, Republic of Yemen	Transmission Upgrade and Expansion Feasibility Study for interconnection of the new power station in Marib to the main load center in Sana'a by installing a 132 kV & 400 kV transmission line and reinforcing the grid system in other respects, including adding new high voltage capacity to handle the major new generation capacity.	Review of the existing systems, studies and database; review of the load forecast, planning and operation criteria and principles; transmission system analysis, determining main parameters of line substations; cost estimates, economic and financial analysis; environmental assessment, preparation of tender documents and implementation schedule; and final report on business briefing. Also responsible for tender management including technical clarification during bidding period, bid evaluation, and assistance during contract negotiation.



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Ministry of Electricity and Water (MEW), Dubai, U.A.E.	Transmission and Distribution of power in the central and east coast areas of Northern Emirates, U.A.E. Project includes about 65 km of 220 KV double circuit overhead line (OHL), about 70 km of 132 KV double circuit OHL associated with three 132/33/11 KV substations, and 33 KV OHL and cable line with 33/11 KV substations.	Scope of Services included power system study, preparation of design basis report, engineering, preparation of tender documents, and bid evaluation.
Fuji Electric, Japan/ PEE, Syria	400/230/66/20 KV Jander Substation for Jander Combined Cycle Plant	Engineering and Site Services provided to Fuji Electric, the Turnkey Contractor.
Ministry of Electricity and Water (MEW), Dubai	Transmission System Planning and Preliminary Engineering including proposed 220 KV Transmission Line as part of 25-year Master Plan.	Transmission Planning, System Analysis, Study, Preliminary Engineering and Cost Estimate.
Kamine Development Corporation, New Jersey, USA	7.6 miles 115 KV Transmission Line and 115 KV/230 KV step up substation for interconnection of Beaver Falls Cogen Plant with Niagara Mohawk grid in New York.	Bid Evaluation and Review of Vendor Design & Drawings.
Karnataka State Electricity Board, India	400 KV/220 KV Substation having 6 bays of 400 KV and 4 bays of 220 KV at Bangalore and Devangere, Karnataka	System Studies for Selection of Equipment Parameters; Load Flow, Short Circuit & Switching over Voltage Studies; Substation Design & Engineering; Preparation of Specification; Bid Evaluation and Review of Vendor Design & Drawing; detail engineering and release for construction drawings.
Ministry of Electricity and Water - Sultanate of Oman	132 KV Transmission Line between Rusail Power Station and Wadi Adai Substation.	System Analysis, Study Design, Engineering, Bid Documents, Post Contract Design Review, Construction Management Startup and Commissioning.
Ministry of Electricity and Water - Sultanate of Oman	132/35 KV 2 x 125 MVA Wadi Kabir Substations & 132 KV Transmission Line from Wadi Adai to Wadi Kabir.	System Analysis, Study Design, Engineering, Bid Documents, Post Contract Design Review, Construction Management, Start-up and Commissioning.



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Ministry of Electricity and Water - Sultanate of Oman	Protection coordination study. 132 kV and 33 KV study.	Protection coordination study of 132 KV and 33 KV systems of capital area. Prepared relay coordination and relay setting charts.
Neyveli Lignite Corporation, India	400 KV & 230 KV Switchyard comprised of generator transformer bays excluding transformers for 4 x 210 MW Stage II Neyveli Power Plant.	Specifications, Procurement Assistance, Detail Engineering, Inspection & Expediting and Site Services.
Saudi Consolidated Electric Company - Central, Riyadh, Saudi Arabia	Riyadh Power Station No. 5 Assoc. Transmission & Distribution 209 Km. 132 KV double circuit O/H Trans Line. <ul style="list-style-type: none"> - 22 - 132/33 KV Indoor Substations. - 153 Km. 33 KV U/G Cables - 26 - 33/13.8 KV Indoor Substations 	Feasibility Report, Design, Engineering, Procurement, Inspection during Equipment Fabrication, Construction Management, P & A Testing
Saudi Consolidated Electric Company, Central, Riyadh, Saudi Arabia	Additional Substations 4 Indoor 33/13.8 KV Substations	Construction Management, Performance & Acceptance
Saudi Consolidated Electric Company, Central Riyadh	Riyadh – Al Kharj 132 kV Transmission Line Extension from 132 kV Ring	Route Survey, Design, Specification Preparation, Procurement Assistance, Construction Management.
Power Authority of the State of New York, USA	345 kV Transmission Line from Marcy – Edie Substation to East Fishkill Substation.	Review of Technical Feasibility & Determination of Transmission System Voltage, System Planning Studies, Proposes Routing of Transmission Line, Bid Document & Cost Estimates.
Ministry of Industry and Minerals, Iraq	13 – 132/33/11 kV Substations.	Civil Engineering and Construction Supervision.
Rajasthan State Electricity Board, India	Electrification Project for Integrated System Improvement covering 220 kV to L.T. System of the three (3) O & M circles five (5) Districts of Rajasthan.	Preparation of detailed Scheme, including System Analysis, Study, Design, Engineering, System and Equipment Costing.
Electrical Division Government of Tripura, India	Electrification Project for Integrated System Improvement including revamping and augmentation plan of Power Distribution covering 132 kV, 66 kV, 33 kV & 11 kV and L.T. System for Agartala City and its adjoining areas up to 2000 A. D.	System Study, Design, Engineering, Cost Estimation, and Preparation of the Detailed Plan.



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Bihar State Electricity Board, India	Revamping and Augmentation Plan of Power Distribution System covering 132 kV to L.T. System up to 2000 A. D. of five (5) towns of Bihar.	System Study, Design, Engineering, Cost Estimation, and Preparation of Detailed Plan
Electrical Division Government of Tripura, India	Power Supply Improvement Study including revamping and augmentation plan of Power Transmission covering 132kV, 66 kV, 33kV System considering load growth up to 2000 A. D. for the entire state of Tripura.	System Study, Design, Engineering, Cost Estimation, and Preparation of Detailed Plan
Saudi Consolidated Electric Company - Central, Riyadh, Saudi Arabia	North Riyadh Electrification Project 90 Km. Double Circuit 132 kV O/H Line. 132/33 kV substation with 2-50 MVA 132 kV GIS switchgear, 33kV switchboard and control panels, etc.; reinforcement of 3-132 kV substation with Extension of 132 kV GIS switchgear and control panel.	Construction supervision including inspection, post contract Design Review, start-up and commissioning.
Saudi Consolidated Electric Company - Central, Riyadh, Saudi Arabia	Rural Electrification 12 villages: <ul style="list-style-type: none"> - 125Km Double Circuit 132 kV O/H Line 70 Km Double Circuit 33 kV O/H Line, 70Km. Single/Double Pole 13.8 kV Line for 6 villages. - 4 – 132/13.8kV substations and - 6 – -33/13.8 kV substations. 	Construction supervision including inspection, post contract design review, start-up and commissioning.
Uttar Pradesh State Electricity Board, India	400/230/132 kV Grid Substation, 600 MVA	System study, basic design and equipment sizing, detailed engineering of 230/132kV portion.
Saudi Consolidated Electric Company - Central, Riyadh, Saudi Arabia	Merlin Gerin Contract: <ul style="list-style-type: none"> - 6 – Single Switch 132/13.8 kV substations, 80MVA. - 132/33 kV Double Busbar Substation, 300 MVA - Modification and Installation of GIS Unt in 132/33 kV Substation, 25 MVA 	Construction supervision including inspection, post contract design review, start-up and commissioning.



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Water and Power Development Authority, Pakistan	<ul style="list-style-type: none"> - 345 kV Single Circuit Transmission, 325 miles. - 345/132 kV substation. - 132kV Double Circuit Tower Transmission, 45 miles. - 132 kV Single Circuit Transmission, 16 miles. - Gas line, 16", 45 miles 	Design Engineering.
Madhya Pradesh Electricity Board, India	400 kV Transmission System.	Tower Design.
Karachi Electric Supply Corporation, Ltd., Pakistan	<ul style="list-style-type: none"> - 132 kV Double Circuit Transmission Lines, 20 miles - 132/11 kV Substation, 20 MVA - 66/11/0.4 Distribution and Transformers, 155 MVA - 11 kV Primary Distribution – Overhead and Underground, 118 miles - 400 V Secondary Distribution, 157 miles - 132kV Double Circuit Transmission Lines, 13 miles 	Market Study, Feasibility Study, Route Survey, Engineering, Design, Procurement, and Construction supervision
Water and Power Development Authority, Pakistan	<ul style="list-style-type: none"> - 66 kV Transmission Lines, 39 miles - 4 – 66/11 kV Substations, 52 MVA - 11 kV Distribution, 45 miles - 400 V Distribution 	Route Survey, Procurement and Construction supervision.
TAVANIR, Iran	400/23/63 kV Rey Substation Project.	Civil Design, Engineering and Construction supervision.
TAVANIR, Iran	400/23/63 kV Pars Substation Project.	Civil Design, Engineering and Construction supervision.
Saline Water Conversion Corporation, Al Jubail, Saudi Arabia	Al-Jubail II Power/Desalination Complex, Assoc. 230 kV Substations, North & South	Engineering, Procurement, Inspection and Construction supervision.
Madhya Pradesh Electricity Board, Korba E. Bank, India	220 kV Substation 1200 MVA	Engineering and Construction Supervision.
Saline Water Conversion Corporation, Al Jubail, Saudi Arabia	Tabuk Power/Desalination Complex, Assoc. 132 kV Substations	Engineering, Procurement, Inspection and Construction supervision.



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Philadelphia Electric Company, Pennsylvania USA	230/35 kV Substation, 1-80 MVA	Design and Engineering
Philadelphia Electric Company, Pennsylvania USA	230/35 kV Substation, 1-80 MVA	Design and Engineering
Egyptian Electricity Authority, Egypt	220 kV substation, 6-220 kV Outgoing feeders, 400 MVA	Design and Engineering
Empresa Nacional de Luz y Fuerza, Managua, Nicaragua	<ul style="list-style-type: none"> - 220 kV Double Circuit Transmission Lines, 40 miles - Single Circuit Lines, 20 miles - 220/13.8 kV Substation, 2-60 MVA - 220/13.8 kV Substation, 1-150 MVA - 220/13.8 kV Substation, 1-60 MVA 	Route Survey, Design, Engineering, Procurement and Contracting.
Damodar Valley Corporation, Bokaro, India	132 kV Step up substation 315 MVA	Design, Engineering, Procurement and Construction Management.
Public Establishment of Electricity, Syrian Arab Republic.	1-230/66/20 kV Kissway Substation	Design, Engineering, Tender Evaluation, Vendor drawing Review, Construction Management, Startup and Commissioning
Public Establishment of Electricity, Syrian Arab Republic.	230/66/20 kV Adra II Substation Project	Design and Engineering
Public Establishment of Electricity, Syrian Arab Republic.	230/66/20 kV Lattaquieh Substation Project	Design and Engineering
Public Establishment of Electricity, Syrian Arab Republic.	Meskene 230/66 kV Switching Extension Project	Design and Engineering
Empresa Nacional de Electricidad, Bolivia	220 kV and 115 kV Transmission Grid	Design and Engineering
Korea Electric Company, Korea	<ul style="list-style-type: none"> - 161 kV Underground Transmission Lines, 11 miles - 6 substations, 520 MVA 	Study and Engineering



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Empresa Nacional de Luz y Fuerza, Managua, Nicaragua	<ul style="list-style-type: none"> - 138 kV Transmission, 140 miles - 138/69 kV Substation, 1-5 MVA - 138/24.9 kV Substation, 4-31.25 MVA 	Route Survey and Engineering
West Bengal State Electricity Board, Santaldih India	220 kV Substation, 800 MVA	Engineering, Procurement and Construction supervision
Aqua-Energia Electrica, Rio Negro Province, Argentina	132 kV Transmission Lines, 180 miles	Feasibility Study including Preliminary Engineering.
EGAT (Lignite Authority) Bangkok, Thailand	670 kilometers of 115 kV Transmission Lines, and 10 substations	Design, Engineering, Fabrication Inspection, Construction Supervision Testing and Initial Operation.
Empresa Nacional de Electricidad, Bolivia	<ul style="list-style-type: none"> - 69 kV Transmission Lines, 25 lines - 2 – 69 kV Substations - 2 – 25 kV Substations - 25 kV Distribution - 10 kV and 380/220 V Distribution Renovation. 	Route Survey, Engineering, Design, and Construction Supervision.
Empresa Nacional de Luz y Fuerza, Managua, Nicaragua	<ul style="list-style-type: none"> - 69 kV Transmission Lines, 110 Miles - 7 – 69/13.2 kV Substations, 59 MVA 	Route Survey, Engineering, Procurement, and Construction Management.
Ryukyu Electric Power Corporation, Okinawa	<ul style="list-style-type: none"> - 69 kV Transmission Lines, 19 Miles - 3 substations, 120 MVA - 132 kV Double Circuit Transmission Lines, 33 miles. 	Route Survey and Engineering.
Ministry of Water and Power, Iran (in association with Kage Engineers)	<ul style="list-style-type: none"> - 66 kV Transmission Line - 20 and 10 kV Distribution Overhead and Underground Lines - 66/10 kV Substations, 400 V Distribution 	Engineering and Construction Supervision.
Delta Steel Company, Cairo Egypt	66 kV Indoor Step-down substation, 60 MVA	Design, Engineering, and Construction supervision.
Ministry of Water and Power, Iran (in association with Adibi-Harris)	<ul style="list-style-type: none"> - 63 kV Transmission Lines - 20 and 10 kV Overhead and Underground Distribution - 400 V Distribution - 3 – 63 kV Substations 	Route survey, engineering and construction supervision.



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State Organization of Electricity, Iraq	New Distribution Network for 14 towns	Design, Engineering, Procurement Inspection, and Construction Management.
Virgin Islands Water and Power Authority, Virgin Islands	Engineering Analysis of the T&D Systems in the Virgin Islands.	Study.
San Isabel Electric Service, Inc. Colorado, USA	Technical and Economic Studies to Design Underground Distribution System.	Study.
Dabhol Power Company Mumbai/Asea Brown Boveri Ltd., (ABB), India	400 kV Substation	Design of Civil, Structural, Architectural Work, Illumination System, Auxiliary AC/DC System, HVAC, Procurement Assistance, and Review of Vendor Drawings.
West Bengal Power Development Corporation, West Bengal, India	400 kV/220 kV/33 kV Substation in Bakreswar	Technical Assistance for Preparation of Specification, Bid Evaluation and Vendor Drawing Review.
Power Grid Corporation (I) Ltd., /ABB Limited, India	500 kV HVDC System in Chandrapur – Padghe, Maharastra	Detail Design Engineering for Civil, Structural, Architectural and Ancillary Services of Valve Stations at Chandrapur and Padghe.
Siemens, India	400 kV, 200 kV, 132 kV, 33 kV Substations at five sites in Orissa	Detail Design Engineering (for Civil, Structural, Architectural and Mechanical)
Karnataka Electricity Board, Siemens, India	400/200 kV Substation at Neelamangala, Karnataka	Detail Design Engineering (for Civil, Structural, Architectural and Mechanical)
Karnataka Electricity Board, BHEL, India	400 Substation at Talaguppa, Karnataka	Detail Design Engineering (Civil Work and Soil Investigation)
Power Grid Corporation (I) Ltd., BHEL, India	400/220 kV Substation at Allahabad, U.P.	Detail Design Engineering (Civil Work and Soil Investigation)
Rajasthan State Electricity Board, India	400/220 kV Substation at Suratgarh, Rajasthan	Basic Engineering, Detail Engineering (Electrical, Civil, Structural, Architectural and Mechanical) and Procurement Assistance.
Power Grid Corporation (I) Ltd., Alstom T&D PES Ltd., India	1 x 500 MW Back to Back HVDC link at Sasaram, Bihar	Site Survey and Detail Design Engineering for Civil, Structural, Architectural and Ancillary Services, (Electrical and Mechanical).



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Power Grid Corporation (I) Ltd., Alstom T&D PES Ltd., India	400 kV Substation HVDC link	Detail Design Engineering for Civil, Structural, Architectural and Building Services.
Steel Authority of India Limited, West Bengal	220 kV/33 kV Main Receiving Substation at DSP & 33 kV Overhead Lines	Design Engineering, Project Management, Procurement Assistance, Construction Management, Inspection and Expediting.
Rural Electrification Corp., India	220 kV, 132 kV, 33 kV Substation and Transmission Lines, Capacitor Bank, etc. in Andhra Pradesh, Kerala, Orissa and Maharashtra (Projects in various Districts)	Review of Bid Document, Bid Evaluation, Vendors Drawings Inspection and Site Testing.
Haryana State Electricity Board, India	220 kV Palla Substation and Associated D/C 220 kV Transmission Lines	Bid Evaluation of Substation and Transmission Line Packages.
Zamba Electricity Corporation, BHEL, India	310 kV – 110 kV Substation	Detail Engineering for Architectural, Structural, and Civil Work, Electrical Illumination System.
WBSEB/ABB Ltd., India	220/132 kV Substation (13 S/S) in West Bengal	Detail Engineering for Electrical and Mechanical Work.
Bangladesh Power Development Board, ABB, India	132 kV Substation at Baghabari, Bangladesh	Detail Engineering for Electrical Work.
Tamil Nadu Electricity Board, BHEL, India	110 kV Substations at Vallathur and Kavilkalappal, Tamil Nadu	Detail Engineering for Architectural, Structural, and Civil Work.
Oil & Natural Gas Commission Nazira, Assam, India	Interconnection of Power Supply Distribution System of different oil fields.	Techno-Economic Feasibility Study of Interconnection of Power Supply Distribution System.
Orissa State Electricity Board, Bhubaneswar, Orissa, India	Power Sector Reform (World Bank Funded) Transmission & Distribution System Planning (ADB Funded).	Technical Assistance to M/S Monenco Agra, Canada for Power Sector Reform.
Haryana State Electricity Board, Panchkula Haryana, India	PSS/DSS/ Line Materials, Meter testing lab, Computerized billing and complaints (Word Bank Funded)	Bid Evaluations
Gujarat Narmada Valley Fertilizer Co., Ltd. Bharuch, India	132 kV, 11 kV S/S Indoor Switchgear Capacitor Bank, S/S Automation, A/C and fire fighting sign	Basic engineering, detail engineering (electrical, civil, structural, architectural and mechanical) and procurement assistance.



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Rural Electrification Corporation Ltd., New Delhi, India	PSS/DSS/ and Lines of System improvement projects of APSEB, KSEB and GRIDCO. (OECF funded)	Review of Bid Document, Bid Evaluation, Vendor Drawing, Inspections at works and site testing.
Enron India Private Ltd., Orissa, New Delhi, India	Distribution System of four zones.	Technical Assistance for preparation of Due Diligence report on privatization of Distribution System document, issued by GRIDCO.
BSES Ltd., Mumbai Maharashtra	220 kV Switchyard in Dahanu Maharashtra	Detail engineering for Architectural, Structural, Civil, Electrical and Mechanical work
Al-Jubail II Power/Desalination Complex, Al Jubail, Saudi Arabia	1375 MW Power/250 MIGD Al-Jubail II Power/Desalination Complex, with Assoc. 230 kV Substations, North & South	Engineering, Procurement, Inspection and Construction supervision, operation and management services.
Siemens, India	220 kV, 132 kV, 33 kV S/S in Bihar, India (14 sites).	Detail design and engineering (electrical).
Iron International Ltd., India	400 and 200 kV Substation in Mapusa, Goa	Detail design and engineering for civil, structural, architectural and building including electrification
Siemens, India	220 kV, 132 kV, 33 kV S/S in Bangladesh (Kalyanpur, Hasnabad, Tongi, Barapukuriya, Rangpur and Saidpur)	Detail design and engineering (electrical, civil and structural)
GE Power Control, India	220/66 kV S/S in Manimajra, Chandigarh	Detail engineering for architectural, structural, civil, electrical and mechanical work.

