

# The Total Solution Provider For Electrical Power Sector



## MIDDLE EAST TECHNICAL SOLUTIONS



# METS

Middle East Technical Solutions

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VERSION 2019

## CEO Message

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Middle East Technical Solutions(METS) was established in 2003 and since very beginning, we are engaged in the following fields:

1. Power Transmission Lines for turnkey projects as an EPC contractor to NG (National Grid of Saudi Arabia); Including Design & Engineering, Supply, Installation, Project Management, Testing & Commissioning works,
2. Supply, Installation, Projects Management, Testing & Commissioning works of HV/EHV Power cable and accessories,
3. Testing & commissioning works with Hi-Pot test up to 380kV Power cable, transformer and GIS, Protection and Tele-communication systems for HV/EHV Substations.

We are committed to being a Company of the Highest Quality in every aspect of our Business Activities. We believe that our Clients are the only justification for our existence as a Business Company and that pursuit of clients satisfaction must be considered as a top priority in all Business decisions.

We utilize the collaborative efforts and expertise of our workforce to coordinate diverse skills and to harmonize multiple streams of technology.

We integrate the best of contemporary practices with new technologies and resources to achieve growth, improvement and transformation.

We develop our people and promote a culture of continuous improvement in all kinds of services and expertise.

We conduct our Business in strict compliance with applicable laws, rules and regulations; with Honesty and Integrity; and with strong commitment to highest Codes and Standards of Business ethics.

In order to meet our Goals, we will pursue the following Objectives:-

- Provide our Clients with the Highest Quality Services,
- Provide those Services on Time in the Best possible way,
- Provide our Clients with the Best Pricing and Value for our Services,
- Provide totally Open Communications with our Clients in order to meet their Needs,
- Provide a System for our people's professional involvement, Motivation and Training.

As a Company we are prepared for the toughest of challenges and see opportunity in adversity. Proudly, I can say, we as a dependable business partner to our clients, adopt your project vision as ours and take responsibility for each step.

Finally, we sincerely hope that this profile of our Company will give you an overview and introduce you to the many services and products we deal with.

**Yours Sincerely,**



**Won Koo Kwon**  
**CEO**  
**Middle East Technical Solutions**  
**November - 2016**



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## WELCOME TO METS

### About METS :-

Middle East Technical Solutions was established in 2003. We are aimed as Total Solution Provider for Power and Telecom Sector. We are actively involved in Power Cable Projects (from Low voltage up to 380kV Voltage Level), Protection, Telecommunications, and DC System Projects in terms of Design & Engineering, Supply, Installation, Projects Supervision & Management, Testing and Commissioning as a turnkey contractor.

### The Main Objectives of The Company :-

Highest quality services for our Clients to meet the Major Utility Company goals and objectives in providing Power and Telecommunication Services, Optimization and channelization of all necessary inputs in a manner to achieve targeted Projects completion dates.

Excellence, Quality and safety are our main Objectives. To meet such objectives, Company has maintained a wide spectrum of multi-national skilled and semi-skilled manpower along with Highly qualified white collar Staff for Supervision. And also, Company has it's own tools & equipment for Site survey, Design & Engineering, Installation, Protection, Telecommunication, Testing and Commissioning for all our activities. A highly qualified site staff are sharing their utmost efforts for execution of awarded projects to ensure the finest, safe, work quality to the clients.

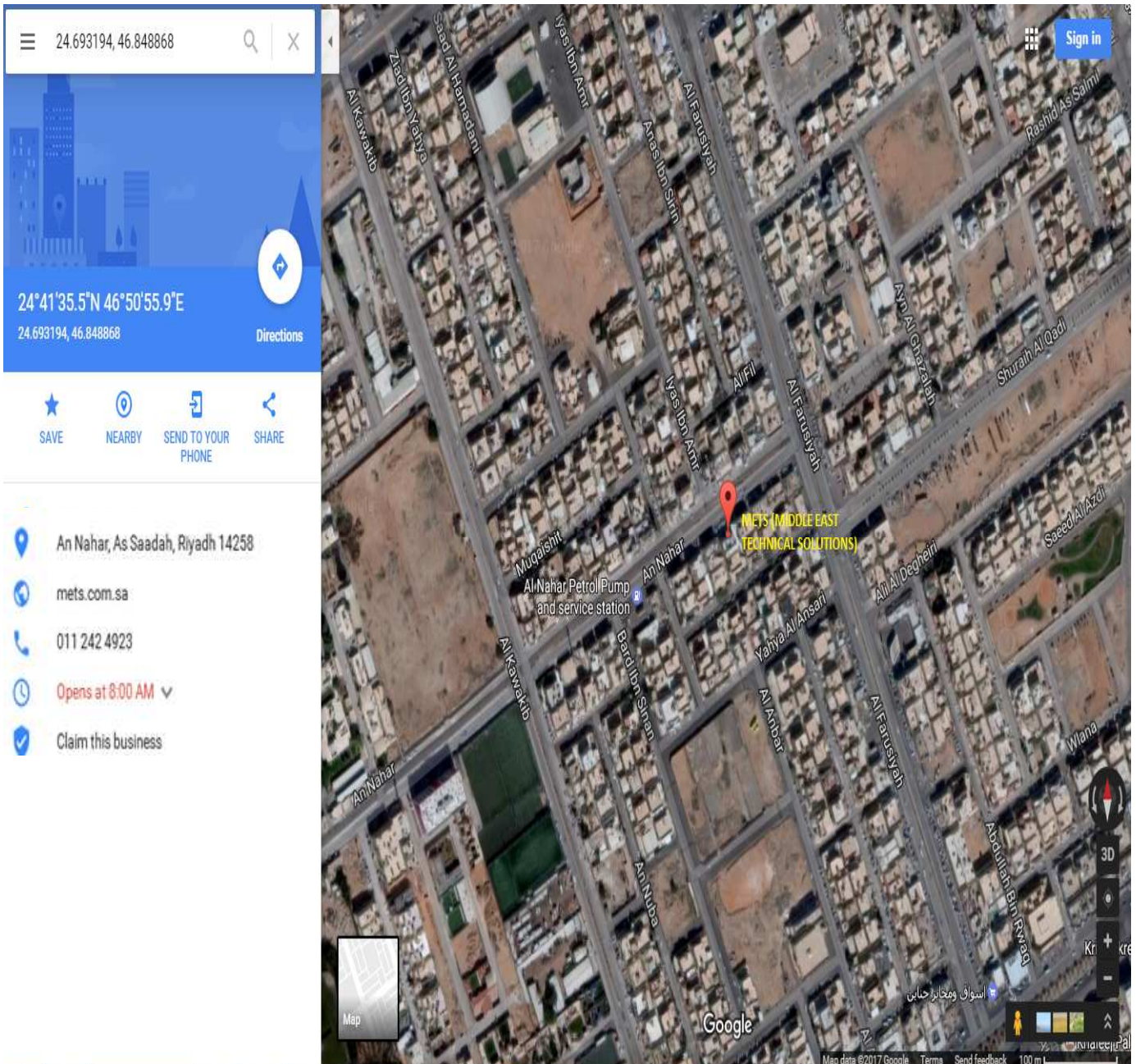
### Principles of Company :-

1. Be ambitious, initiative and challenge always.
2. Endeavor the best possible always.
3. Serve the clients with the best Quality, Sincerity and Honesty.



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## METS Location Map





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## Our Vision

METS is committed to the continuous improvement of its professional services and endeavors to develop and implement complete solutions that would enhance our clients business goals.

Our vision is to serve our clients as a total solution Provider in Design & Engineering, Supply, Installation, Protection, Projects Supervision & Management and Testing & Commissioning in all active fields required such as power, telecommunication and Power information technology ( IT ) applications and METS will support Clients from planning stage through startup, then provides ongoing support or countrywide business activities to dedicate our self for the infrastructure development in Kingdom of Saudi Arabia, Middle East and Africa.



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**SCOPE OF WORK**

**1- POWER CABLE ACTIVITIES :-**

1. MV/HV/EHV Cable System Design & Engineering
2. MV/HV/EHV Cables & Accessories Supply & Installation:
  - Material Supply
  - Civil Works
  - Cable Laying
  - Take-Off & Gantry Structure, Tray, UPN, Channel & Cable Cleat Supply and Installation
  - Cable Jointing & Terminations (NEXANS/SUEDKABEL/ELASTIMOLD/LSC/TAIHAN)
3. Testing & Commissioning
4. Normalizations
5. Preparation of submittals (As-Built Drawings, Jointing Manuals, O&M Manuals)
6. Overall Projects Supervision & Management.

**2- TELECOM ACTIVITIES / Fiber Optic & Pilot Cables:-**

1. Feasibility Study
2. System Design
3. Civil Works and Cable laying
4. Fusion splicing ( pilot cable jointing)
5. Direct termination
6. Testing & Commissioning
7. Preparation of Technical submittals (As-Built, manuals, ...)
8. Fault Finding & Maintenance
9. Training Courses

**3- Testing & Commissioning:-**

1. All Electrical Tests for LV/MV and EHV cable Networks and Substations
2. A/C HI-POT Test up to 520 KV for EHV Cables, Switchgears and Transformers.
3. PD Test
4. Cable Fault Finding Test
5. Fiber Optic Cable & Tele-Communication Systems

**4- Protection Tests:-**

1. LV / MV/ HV SWG Test.
2. Advanced Relay Test.
3. Sample Relay Test.
4. Auxiliary Relay Test.
5. Scheme check LV/MV/HV.

**5- Civil Works:-**

**All Civil work related to;**

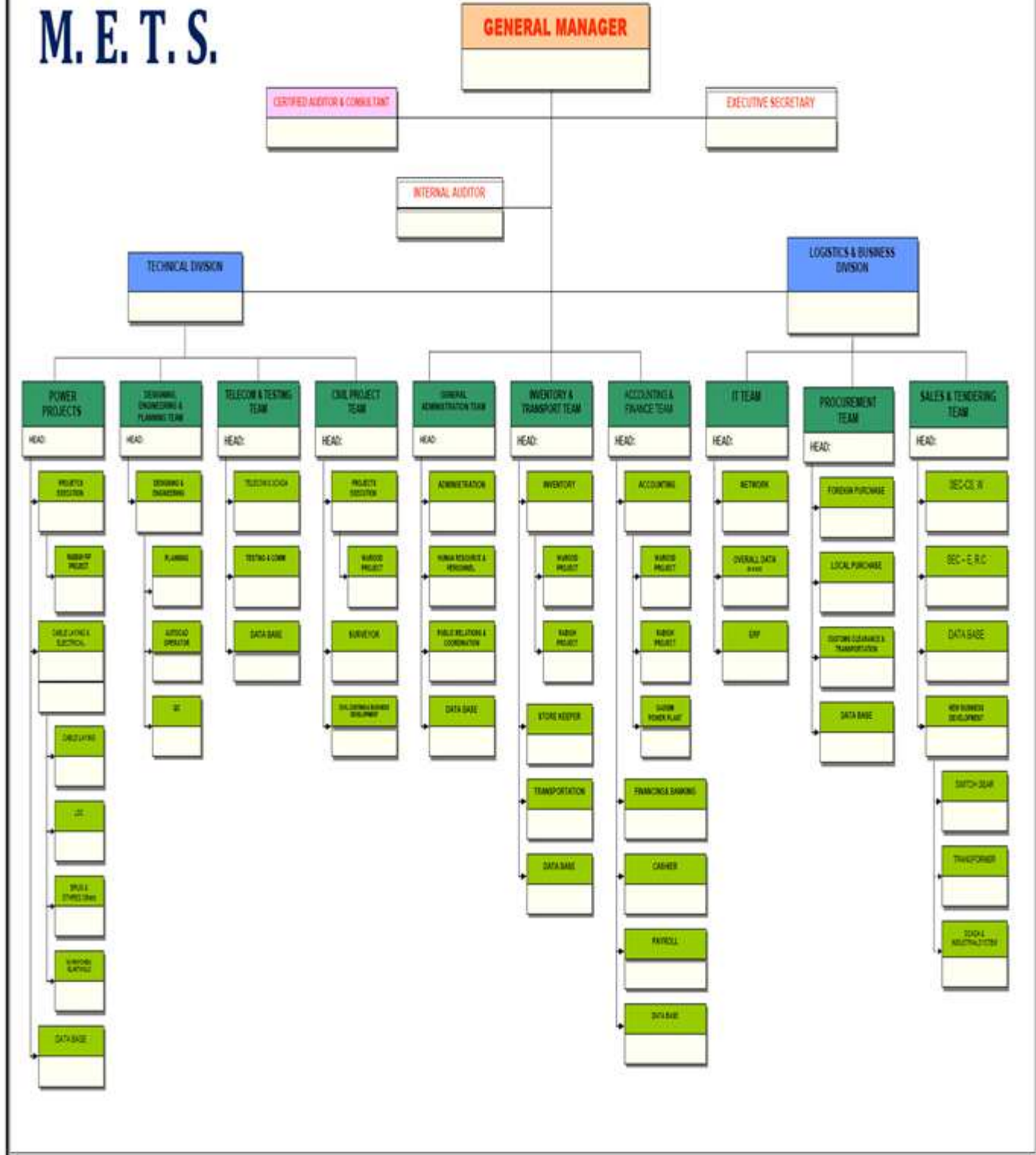
1. Distribution and transmission networks
2. Substations



Middle East Technical Solutions Est.

**M. E. T. S.**

**METS ORGANIZATION CHART**



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METS employs experts with a wide range of qualifications. Depending on project scope and objectives, we set up competent project teams. For each project, an experienced Project Manager works closely with the client right from the start of a project. He is the Client's key contact person and he focuses the knowledge of the pool of experts towards the objectives to be achieved. This creates synergy effects necessary to guarantee economically viable solutions supported by high level of quality service.

Alongside an optimized organizational structure, we consider the technical and human qualifications of our experts as our main quality factor. We want to give our customers state of the art oriented advice and guidance geared towards current market developments.

We believe that The Project Management Plan is a must to undertake a project successfully. Specialist knowledge, continuous training, commitment to the highest work & Safety standards, skills enhancement and experience review are required to reduce risk factors within a project and thereby enhance its likelihood of success.

Various types of tools and management techniques are also needed to monitor and control time, cost, quality and scope. Finally, we undertake a Post Implementation Review to quantify the overall success of the project and list any lessons learnt for future projects





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The scope of work is primarily engaged in Design, Engineering, Supply, Installation, Project Management and Testing & Commissioning

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Projects	Scope Of Supply	Client Contractor	Year	Period (Month)	
1	PP9 E-Block Extension Project (SEC-COA 10421119/00)	380kV 1C x 630 mm <sup>2</sup> XLPE Cable & Accessories 132kV 1C x 1000 mm <sup>2</sup> XLPE Cable & Accessories	SEC-COA BEMCO.	2004	12
2	Extension of Benisar S/S (SEC-SOA 58-2/FA/2002)	132kV 1C x 630mm <sup>2</sup> XLPE Cable & Accessories	SEC-SOA ABB	2004	11
3	Power Supply to Saudi Aramco's Qatif / Abu Sa'fa. (SEC-EOA 83728/00)	230kV 1C x 1200/2000 mm <sup>2</sup> XLPE Cable & Accessories 15kV 1Cx2000mm <sup>2</sup> XLPE Cable & Accessories	SEC-EOA Larsen & Toubro	2005	16
4	Cable Supply to IP3 S/S (SEC-WOA 13/1/23)	Supply of 110kV 1C x 300/630 mm <sup>2</sup> Oil Filled Cable	SEC-WOA SIMENS	2004	6
5	PP3, Riyadh (SEC - COA)	132kV, 1C x 1000mm <sup>2</sup> XLPE Cable & Accessories	SEC-COA	2005	8
6	Reinforcement of Domat Al-Jandal 132 Substation (SEC-EOA 83805/00)	132kV 1C x 400mm <sup>2</sup> XLPE Cable & Accessories	SEC-EOA Al-Ojaimi	2005	8
7	Extension of Shudaiq Substation at Bisha CPS (SEC-SOA 14-4/2002)	132kV 1C x 800mm <sup>2</sup> XLPE Cable & Accessories	SEC-SOA ABB	2005	12
8	Extension of Jizan CPS (SEC-SOA 44/2002)	132kV 1C x 1000mm <sup>2</sup> XLPE Cable & Accessories	SEC-SOA ABB	2005	12
9	Riyadh PP7 3rd Extension Project, SEC-COA 10321105/00)	132kV 1C x 1600mm <sup>2</sup> XLPE Cable & Accessories	SEC-COA BEMCO	2005	12
10	Rein. of Juba S/S 8780 & Sharafa S/S 8082 (SEC-COA 10331197/00, 10331199/00)	132kV 1C x 1000mm <sup>2</sup> XLPE Cable & Accessories	SEC-COA NCC	2006	12
11	ABB Shiddique Project in Bisha CPS, SEC-SOA C-T-71610)	132kV 1C x 1000mm <sup>2</sup> XLPE Cable & Accessories	SEC-SOA	2006	12
12	132KV Substation at Arar & Markaz Az Zallum (SEC-EOA 83845/00)	115kV 1C x 2000/300mm <sup>2</sup> XLPE Cable & Accessories	SEC-EOA NCC	2006	26
13	Arar Generation Expansion Project (SEC-EOA 30421007/00)	115kV 1C x 630/400mm <sup>2</sup> XLPE Cable & Accessories	SEC-EOA Al Toukhi	2006	26
14	ABB Ahad Project (SEC-SOA 40331098/00)	32kV 1C x 800mm <sup>2</sup> XLPE Cable & Accessories	SEC-SOA ABB Cont.	2006	8
15	ABB ARAR Project (SEC-EOA 30531176/00)	32kV 1C x 1600mm <sup>2</sup> XLPE Cable & Accessories	SEC-EOA ABB Cont.	2006	8
16	NEW KHURAIS 380/115KV Project, (SEC-EOA 30531099/00)	115KV 1C x 2000mm <sup>2</sup> XLPE Cable & Accessories	SEC EOA MEEDCO	2007	6
17	ARAR POWER PLANT (SEC EOA 32004/06)	Rerouting and Installation of 132kV 1C x 630mm <sup>2</sup> XLPE Cable for 2 Circuits and Control & Protection Scheme Test Power Plant	SEC EOA	2007	3

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18	PP9 F BLOCK Project (SEC-COA 10621166/00)	MV/LV Cable Laying, Terminations and T & C	SEC COA BEMCO	2008	6
19	ELECTRICAL S/S STAGE 1 OF JUBAIL 2 ROYAL COMMISSION (No. 071-C11)	230 kV 1C x 2000/630 mm <sup>2</sup> XLPE Cable 115 kV 1C x 2500mm <sup>2</sup> XLPE Cable & Accessories	SEC-EOA NCC	2008	12
20	NEW HALF AL BATIN S/S (SEC-EOA 30631035/00)	115 kV 1C x 630 mm <sup>2</sup> XLPE Cable & Accessories	SEC-EOA NCC	2008	12
21	PP9 C & D Block Project (SEC-COA 10421001/00)	MV/LV Cable Laying, Terminations and T & C	SEC COA BEMCO	2007	6
22	PP9 F Block Project (SEC-COA 10621166/00)	380 kV, 1C x 800 mm <sup>2</sup> XLPE Cable & Accessories	SEC COA BEMCO	2008	14
23	Al Jouf S/S Project (SEC-EOA 30631016/00)	132 kV, 1C x 1600mm <sup>2</sup> XLPE Cable & Accessories.	SEC EOA NCC	2008	14
24	Al Jouf P/P Project (SEC-EOA 30531168/00)	132kV, 1C x 2000mm <sup>2</sup> XLPE Cable & Accessories	SEC EOA Al Ojaimi	2008	5
25	ABU HADRIYAH BSP S/S (SEC-EOA 30531099/00)	Installation of 115 kV 1C x 2000mm <sup>2</sup> XLPE Cable & Accessories	SEC-EOA MEEDCO	2007	12
26	Anik, Al RayyanAgrabiyah & Sports City (SEC-EOA 30331045/00)	Installation of 69kV 1 x 630mm <sup>2</sup> XLPE Cable & Accessories	SEC EOA Al Ojaimi	2007	2
27	AREVA HVDC Back Converter Of The Gulf Cooperation International Project Phase (GCCIA-8358-METS)	Cable Pulling Works for 400kV 1C x 2000 mm <sup>2</sup> XLPE Cable and MV Cable MV Termination Works	SEC-EOA AREVA	2008	5
28	NEW RAHIMA 115/13.8 KV S/S (SEC-EOA 30531166/00)	115 kV CABLES AND ACCESSORIES	SEC-EOA AL OJAMI	2009	1
29	JANA JUBAIL CHEMICAL PROJECT (SEC – EOA)	Installation of 115 kV Power Cable & Accessories	SEC-EOA JANA	2009	1
30	RAS AZZWAR BSP (SEC-COA)	Laying of 115 kV Power Cable	ABB MAADEN	2009	1
31	Rabigh Stage –VII (SEC-WOA- 20821039/00)	132kV 1C x 800 mm <sup>2</sup> XLPE Cable & Accessories	SEC-WOA NCC.	2010	9
32	S/S 8105 & 8107 (SEC-COA)	132kV 1C x 1200 mm <sup>2</sup> XLPE Cable & Accessories	SEC-COA AL-BABTAIN	2010	11
33	Kandahar BSP (SEC-WOA # 20731074/00)	110KV 1C x 2000 mm <sup>2</sup> XLPE Cable & Accessories	SEC WOA AL-FANAR	2010	12
34	132kV 8136 and S/S 8077 Termination Works. (SEC-COA # 10531116)	132 kV 1C x 1200 mm <sup>2</sup> XLPE cable & Accessories	SEC COA AL-BABTAIN	2006	5



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35. New Half Moon 380/13.8 kV S/S SEC-EOA # 30731139/00	Phase 2 SAACE PE/SUP METS/00010 HALF MOON	SEC COA ABB	2010	8
36. PP5- Al-Ojaimi Contract # 10931192/00	Elastimold joints for 132 kV XLPE 1C x 1200 mm2	SEC-COA Al-OJAIMI	2011	1
37. 69 kV Abqalk Contract # 6600021812	Installation, Testing & Commissioning.	EPC	2010	5
38. RABIGH PP EXTENSION PROJECT STAGE 5 (SEC-WOA 20721004/00)	380 kV 1x800mm <sup>2</sup> XLPE Cable & Accessories	SEC-WOA NCC	2009	7
39. Cable pulling 132 kV Qassim road, Dammam Area SEC-COA # 10831061/00	Dismantling & Cable Laying 132 kV, 1200 mm <sup>2</sup> XLPE Cu Cable	ABB	2011	4
40. Manifa 115 kV Project SEC-COA 30833073/00	115 kV, 1C x 2000 Mm <sup>2</sup> XLPE Cable & Accessories.	SEC-COA NCC	2011	12
41. Madina 110 kV Project	110 kV , 1C x 2000 mm <sup>2</sup> XLPE Cable & Accessories	Al-TOUKHI	2011	1
42. Aramco Certified Terminations, Manifa	115 kV, 400 mm <sup>2</sup>	WESCOSA	2011	6
43. West Al-Khobar, Al-Ojaimi, Contract # 10831200/00	Installation of 115 kV Cable Circuits for West Khobar.	SEC-EOA Al-Ojaimi	2011	3
44. Project: SQR C000012977	Supply of 380kV Materials	Dar Al Bayan	2011	3
45. Rabigh Power Plant - SEPTCO III	Cable laying, HIPOT test , PD test for 380kV	NCC	2011	2
46. Wadi Dwasir (SEC-COA)	Termination(Pfisterer), Testing & Commissioning	ABB	2011	2
47. TDP – Riyadh Contract # 10931073/00 (SEC-COA)	Jointing Works (Pfisterer)	ABB	2011	2
48. CONSTRUCTION OF NEW HITTEEN 380/132KV BSP	Installation of 132kV 1Cx1200 mm <sup>2</sup> Cable & accessories	SEC-COA AL- FANAR	2011	8
49. MAKKA Mina – SEC COA 110KV project	110kV GIS and Transformer Sealing End	SEC-COA SIEMENS	2011	1
50. PNU SEC COA -10933079/00	Cable pulling and installation	ABB	2011	2
51. Jubail Royal Commission Contract # 071-C14	230 kV 1C x 1200 MM <sup>2</sup> Cable & Accessories	NCC	2011	6
52. Dawadmi SEC COA # 10931039/00	Installation of 132kV, 1200SQMM power cables and Testing & Commissioning	NCC	2011	2
53. Murzalot (SEC-COA)	132 Kv 1c X 1200 MM <sup>2</sup> , Cable Termination & Electrical Testing.	Al-Babtain	2011	2
55. TR REINFORCEMENT 132/33 kV S/S HAIL AREA 8902/8903 (SEC-COA 10431157/01)	132 kV 1C x 1000mm <sup>2</sup> CABLE & ACC'Y 33 kV 1C x 630mm <sup>2</sup> CABLE & ACC'Y	SEC-COA AL MASHARIQ	2012	2
56. Dynamic Reactive Power Compession in Central region Part-II, Qassim, Contract # 10931163/00	1C x 132 kV XLPE cable & Accessories.	SEC-COA SIEMENS	2012	6
57. Construction of New Chasm Al-Ann	Cable laying and Termination of 132kV and 13.8kV cable and HV/MV Testing & Commissioning	NCC	2012	6

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58	Construction of new circuit for S/S 8152 in Aloreija Area (SEC-COA)	AlOjaimi	2012	1
59	Tabouk Power Plant Stage VII, SEC-WOA - Contract # 21021018/00	Al Thouki	2012	1
60	S/S 8142, 8145, 8146, 8150 & 8153 REF: ABC/METS/RCR/12-2013	AlBabtain	2012	1
61	Mutrafaha Sub Station SEC-COA/RCC # 524-C26	EPC	2012	6
62	S/S Qurayyat REF: ABC/METS/RCR/11-1510 (SEC-SOA)	Al-Babtain	2012	1
63	SIEMENS – DIE (SEC-EOA)	SIEMENS	2012	3
64	ASSIR CPS AND NAJRAN (SEC - SOA 40831078/00)	SEC-SOA NCC	2012	24
65	SWCC Alkhobar (SEC-EOA)	SIEMENS	2012	16
66	ABB Hasa Contract# 30931053/00 (SEC-EOA)	ABB	2013	5
67	Markaz aallum Project SEC # 31031061/00	ABB	2013	10
68	Construction of Najran University Project No. C-P-00119 (SEC-SOA)	ABB	2013	10
69	SIEMENS - Al Jouf -SAKAKA Jobsite SEC EOA Contract# 309310540	SIEMENS	2012	5
70	Attakhussasy site – Dammam Order No. 4503713104 (SEC-EOA)	SIEMENS	2013	24
71	SEC-WOA Cn:20731127/00 Construction of New 110/33/13.8kV Badar S/S at Madinah (SEC-WOA)	AEC	2013	12
72	Qurayyat Generation Expansion (SEC-SOA)	SIEMENS	2013	12
73	S/S 8715 Al Kharj Area (SEC-COA)	AL-BABTAIN	2013	12
74	380kV OHTL works associated with Integration of QIPP (Part-1) (SEC-EOA)	MEEDCO	2013	10
75	RE ROUTING WORKS for PP9 F-BLOCK,(SEC-COA 10621166/00)	SEC-COA BEMCO	2014	24
76	ABB – KAFC Contract# 11033009/00 (SEC-COA)	SEC-COA ABB	2014	12
77	King Fahad Hospital S/S & Jizan Town (SEC-SOA)	NCC	2013	10
78	Replacement of 132kV OHL on Khalid Bin Waleed Road (SEC-COA)	NCC	2014	12
79	SEC-WOA contract# 6656, O/H Transmission Line Project and 110/13.8kV New S/S for Public Services Center, Makkah	AL Masharaq	2013	10



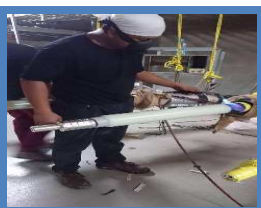
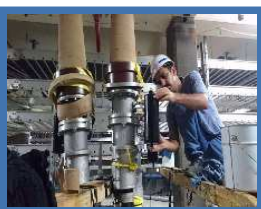
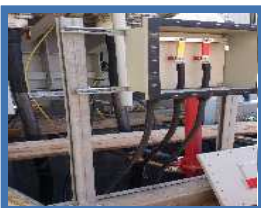
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80	SEC-COA # 11031117/00 Al Oria – S/S 9016	AI Babbain	2013	10	
81	115kV Cables from Dhahran South BSP to Al-Markiaz S/S (SEC-EOA)	AI Babbain	2013	12	
82	Construction of Wasit 380/230kV S/S	ABB	2013	12	
83	110kV Cables for 110/13.8kV King Abdullah Sports city S/S (SEC-WOA)	SEC-WOA	2014	24	
84	G0033 AR AR PP Extension IV-132kV (SEC-SOA)	AI Ayuni	2014	1	
85	Reinforcement of existing 380/132/13.8kV Kudmi BSP and Abha East BSP (SEC-SOA)	AlFanan	2015	4	
86	Construction of SADARA 380/230kV BSP in JIC-2 (SEC-EOA)	NCC	2015	4	
87	115kV U/G cables from Dhahran South 380kV/115kV BSP to Al-Markaz 115/13.8kV SS Almarkaz/METS/RCCR (PO12-0509LM)	AI Babbain	2015	26	
88	Construction of 110kV U/G Cables of King Abdullah Sports City, Jeddah. (SEC-WOA)	NGSA	2015	27	
89	Construction of Doha 380/230/115/13.8kV BSP (SEC-EOA)	NCC	2016	24	
90	Construction of 132kV Asbaliyah project @ Riyadh (SEC-COA)	AIToukhi	2016	6	
91	Construction of 380/115/13.8kV Schedgum Project @ Dammam (SEC-EOA)	MEEDCO	2016	1	
92	AL WAROOD (SEC-COA 10731066/00)	TURN-KEY PROJECT 132 kV 1Cx12000 mm <sup>2</sup> CABLE & ACC'Y	SEC-COA METS	2016	36
93	Construction of Al Uqair 380/115kV BSP (SEC-EOA)	Installation of GIS, Out door and Transformer Termination for 115kV, 2000sqmm	Alfanar	2016	4
94	Construction of Al-Khalidiyah 380kV S/S (SEC-WOA)	Installation of GIS and Transformer Termination for 110kV, 2000sqmm and 110kV, 630sqmm	AI Thouki	2017	
95	Construction of New Al Madhaya 380/132/33 kV BSP (SEC-SOA)	Supply, Installation and Testing & Commissioning of Cable Accessories	Alstom	2017	
96	Construction of Dhahran South 380/115/13.8kV BSP (SEC-EOA)	Supply, Installation and Testing & Commissioning of 380/115kV cable accessories	Siemens	2018	
97	Contract No.4400002553 Reinforcement S/S 9029 sealing end materials (SEC-COA)	Supply of Termination materials	AI Babbain	2015	10
98	Installation of 115kV Cables from Qatif S/S # 2 to Tarut S/S # 2 and Point A (SEC-EOA)	Design and Engineering, Civil work, Supply and installation of cables and accessories and Testing and commissioning	AEC	2017	
99	132kV Cable project at Jizan Chemical Factory (SEC-WOA)	Supply of Cable Accessories	Power Technology	2017	
100	Yanbu city 380kV, SS#88 Power cable sealing end and link boxes	Supply, Installation and Testing & Commissioning of Cable Accessories	MEEDCO	2017	
101	SEC-EOA Construction of Abqaiq-3 115/13.8kV SS.	Supply, Installation and Testing & Commissioning of Cable Accessories	Abhasain	2017	
102	Contract # 4400003871 - Construction of QATAR ROAD115/13.8kv S/s (S/s Portion)	Installation of GIS and Transformer termination 115kV, 400sqmm. Installation of GIS, Outdoor and Transformer termination 115kV, 2000sqmm	JAL	2017	
103	Construction of Khalidiyah 2 115/13.8kv S/S in Al Hassa	Installation of GIS and Transformer termination 115kV, 400sqmm	JAL	2018	
104	SEC-EOA Construction of Ain Murjan 115/13.8kV SS.	Supply, Installation and Testing & Commissioning of Cable Accessories	Abhasain	2018	



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### Power Projects

The Scope of Work is primarily engaged in Design, Engineering, Supply, Installation and Testing & Commissioning

### LIST OF ON - GOING PROJECTS

S.No	Projects	Scope Of Supply	Client Contractor	Remarks
1	CONTRACT # 4400004093 Conversion of "Hameediyah - Abu Ghanimah" & "HIE - Al-Uyun" 115kv Overhead Transmission Lines to Underground Cables	Design and Engineering, Civil work, Supply and Installation of cable and accessories and Testing and commissioning	SEC-EOA	On the process
2	CONTRACT # 4400004094 Conversion of "Masoudi - Andalus - Khalidiyah" 115kv Overhead Transmission Lines to Underground Cables	Design and Engineering, Civil work, Supply and Installation of cable and accessories and Testing and commissioning	SEC-EOA	On the process
3	CONTRACT # 4400006299 Conversion of 115kv OHTL between Hajer and Nuzha S/S to UG Cables	Design and Engineering, Civil work, Supply and Installation of cable and accessories and Testing and commissioning	SEC-EOA	On the process
4	Installation of 110kv under ground cable for 110/13.8kv al woaslia substation	Supply, Installation and Testing & Commissioning of Cable Accessories	KEC-AI Sharif	On the process
5	132kv Cable project at Jizan Chemical Factory	Installation, Testing & Commissioning of Cable Accessories	Power Teqnology	On the Process
6	115kv Cable Projects at Jubail Commercial Port & Jubail City	Installation & Testing and Commissioning works	XERVON	On the Process
7	GENERAL MIANTENANCE FOR UNDERGROUND CABLES SYSTEM IN GRID MAINTENANCE FROM LOW VOLTAGE TO 380KV CABLES - CENTRAL OPERATING AREA	General Maintenance including Civil work, Supply and Installation of cable and accessories and Testing and commissioning of Low Voltage Cables up to 380KV Cables	SEC-COA	On the Process



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### Telecommunication & DC System Projects

The scope of work is primarily engaged in Design, Engineering, Supply, Installation and Testing & Commissioning

#### LIST OF COMPLETED PROJECTS

Projects	Scope Of Supply	Client or Contract	Year	Period (Month)
1	48V DC System Feeding SCADA & Telecom Systems in Hail (SEC-COA 10331013/00)	SEC-COA	Dec, 2006	14
2	Fiber Optic & Pilot Cable Circuits Between Jamia -KMT (SEC-WOA 20331002/00)	SEC-WOA SSEM / LSC Cable	Dec, 2005	8
3	Fiber Optic & Pilot Cable Circuits between Faisaliyah Jeddah North (SEC-WOA 20331002/00)	SEC-WOA SSEM / LSC Cable	Dec, 2006	8
4	STC - 224047 - TABUK S.R.S	STC	June, 2004	2
5	STC - 224001 - JZAN (400) P2	STC	Dec, 2004	7
6	STC - 321004 - Outside Plant (OSP) works (400k) in JIZAN Area	STC	Feb, 2006	8



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The scope of work is Testing & Commissioning for Final Acceptance Test  
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#### LIST OF COMPLETED PROJECTS

Projects	Scope Of Testing Work	Client	Year	Remarks
1. SEC-COA PP 9 BLOCK-E ,Riyadh (SEC-COA 10421119/00) GIS TO TRANSFORMER	Electrical & HV AC Test	Arabian BEMCO	2005	
2. SEC-COA PP 9 BLOCK-C & D , Riyadh (SEC-COA D5069/BC080) LV & MV CABLES	Electrical & AC Test for MV&LV	Arabian BEMCO	2005	
3. SEC-EOA 83728/00) GIS TO TRANSFORMER	Electrical & HV AC Test for 230kV cables	Larsen & Toubro Saudi Arabia LLC	2005	
4. SEC-COA 10321105/00 PP 7 3 <sup>rd</sup> EXTENSION PROJ.	Electrical & HV AC Test for 132 kV 1*1600mm <sup>2</sup> XLPE Cable	Arabian BEMCO	2005	
5. SEC-EOA 83845/00 Arar & Markaz Zallum	Electrical & HV AC Test for 132kV cables	NCC	2007	
6. (SEC-EOA SFC 32004/00) Arar Power Plant	Testing of Protection & Control System	ABB	2005	
7. EOA (Royal Comm. 071-C11) ,ELECTRICAL S/S FOR STAGE 1 OF JUBAIL-2	Electrical & HV AC Test for 115 & 230kV Cables	Royal Commission NCC	2008	
8. (SEC-EOA 30533172/00) Construction of New 380/115kv New Khurais BSP S/S Proj.	Electrical & HV AC Test for 115kV Cables	MEEDCO	2008	
9. (SEC-EOA 30531099/00) Construction of New 380/115kv Abu Hadriyah BSP S/S Proj.	Electrical & HV AC Test for Cables	MEEDCO	2008	
10. SEC-SRB 40331141/00) Shadiq S/S, Abha	Electrical & HV AC Test for 132kV cables	ABB	2009	
11. (SEC-SRB 40331101/00) Abha THORAYBAN S/S,	Electrical & HV AC Test for 132kV Cable	ABB	2009	
12. (SEC-COA 10431157/00) Reinforcement 132/33kV S/S 8902 & 8903 HAIL Area	Electrical & HV AC Test for 132kV Cable	AL MASHARIQ	2009	
13. SEC-SOA 40531150/00) JIZAN CPS & ABU ARISH S/S	Electrical & HV AC Test for 132kV Cables	NCC	2009	





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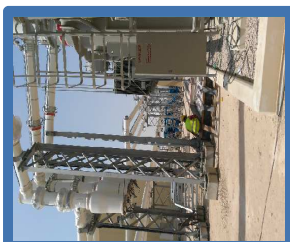
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Projects	Scope Of Testing Work	Client	Year	Remarks	
14	(SEC-SOA 40631031/00) New JIZAN North 1 S/S	Electrical & HV AC Test for 132kV cables	SIEMENS	2009	
15	SEC-SOA 40631031/00) New JIZAN North 2 S/S	Electrical & HV AC Test	SIEMENS	2009	
16	SEC-COA 10631062/00 S/S 8124/8127(B)	Electrical & HV AC Test	AL OJAIMI	2009	
17	SEC-COA 10631062/00 S/S 8124/8008(A)	Electrical & HV AC Test	AL OJAIMI	2009	
18	SEC-COA 10631062/00) S/S 8124/9013	Electrical & HV AC Test	AL OJAIMI	2009	
19	SEC-SOA 40631032/00) King Fahad Hospital S/S & ABU- ARISH	Electrical & HV AC Test	SIEMENS	2009	
20	SEC-SOA 40631032/00 King Fahad Hospital S/S GIS TO CPS	Electrical & HV AC Test	SIEMENS	2009	
21	SEC-SOA 40631032/00 King Fahad Hospital S/S, GIS TO TRANSFORMER	Electrical & HV AC Test	SIEMENS	2009	
22	SEC-COA 10531116/00 S/S 8136/9008	Electrical & HV AC Test	AL BABBAIN	2009	
23	SEC-COA 1003151106/00 Construction of S/S 8143/8119	HV AC Test	TDP	2009	
24	SEC-COA 10531116/00 Construction of S/S 8136/8088	Electrical & HV AC Test	SEC-COA AL BABBAIN	2009	
25	SEC-COA 10631062/00 Construction of S/S 8124/9013	Electrical & HV AC Test	AL OJAIMI	2009	
26	SEC-COA S/S Connection of 8147/8115	Electrical & HV AC Test	AL OJAIMI	2009	
27	SEC-COA S/S 8147/8064	Electrical & HV AC Test	AL OJAIMI	2009	
28	SEC-COA 10531152/00 S/S 8127/8072 (B)	Electrical & HV AC Test	Capital Lights	2009	
29	SEC-COA 10531152/00 S/S 8127/8124 (B)	Electrical & HV AC Test	Capital Lights	2009	



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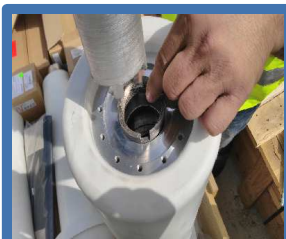
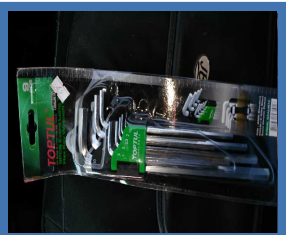
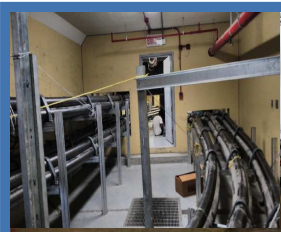
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Projects	Scope Of Testing Work	Client	Year	Remarks
30 SEC-SOA HAIL 132KV XLPE 8902-8903-9030 SS	Electrical & HV AC Test	AL-MASHARIQ	2009	
31 SEC-WOA Construction of MADDENA110KV AD03-1D09 SS	HV AC Test	SIEMENS	2009	
32 SEC-WOA 20721004/00 RABIGH POWER PLANT EXTENSION PROJECT STAGE V	Electrical & HV AC Test for 380kV Cables	NCC	2009	
33 SEC-WOA 20821039/00 RABIGH POWER PLANT EXTENSION PROJECT STAGE VII	Electrical & HV AC Test for 380kV Cables	NCC	2010	
34 SS# 8902-8903-9030 HAIL REINFORCEMENT PROJECT	Electrical & HV AC Test	AL-MASHARIQ	2010	
35 SEC-COA SUBSTATION 8135 TO TERMINAL	Electrical & HV AC Test	DELTA CO	2010	
36 SEC-COA SS# 8019-9013 SS 132KV project.	HV AC Test	RIYADH CABLE	2010	
37 SEC-COA QASIM CENTRAL POWER PANT EXPENSION PROJECT	Electrical Test for 460V, 4.16KV, 13.8KV POWER CABLES	BEMCO	2010	
38 SEC-COA QASIM CENTRAL POWER PANT EXPENSION (DISCONNECTOR,VT)	HV AC Test for 132KV GIS	AREVA	2010	
39 SEC-COA S/S 8800-8826	Electrical & HV AC Test	AL OJAIMI	2010	
40 SEC-COA 132KV NAJIRAN CENTRAL POWER PLANT NAJIRAN CPS-NAJIRAN NORTH	Electrical & HV AC Test	NCC	2010	
41 SEC-COA AR-RASS 132KV 1*1200mm <sup>2</sup> XLPE Cable STG-2 –GIS (380/132KV SS IN AR-RASS)	Electrical & HV AC Test	SIEMENS	2010	
42 SEC-EOA Construction of 230KV 1*1600mm <sup>2</sup> XLPE Cable SS JUBAIL NORTH TO NCP LINE-2	Electrical & HV AC Test	SIEMENS	2010	
43 SEC-EOA SUBSTATION 115KV NCCD ARAMCO 3 BAYS) DHARAN	GIS HI-POT	AL OSAIS	2010	
44 SEC-COA SUBSTATION 8122 132 KV 10 BAYS) DHARAN	GIS HI-POT	AL OSAIS	2010	



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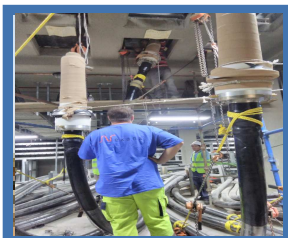
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Projects	Scope Of Testing Work	Client	Year	Remarks	
45	SEC-WOA MADINAH EAST 115 KV SUBSTION 29 BAYS	GIS HI-POT	AL TOUKHI	2010	
46	SEC-WOA MADINAH EAST 115 KV SUBSTION 6 CIRCUITS	ELETRICAL & AC HI-POT	AL TOUKHI	2010	
47	SEC-EOA UBAIL NCP 230KV 1*1600mm <sup>2</sup> XLPE Cable SS JUBAIL NORTH TO NCP LINE-1	Electrical & HV AC Test	SIEMENS	2011	
48	SEC-EOA / RCCCONTRACT No. 564-C26 MUTRAFIAH SUBSTATION 21BD 115KV UNDER GROUND POWER SUPPLY TO 21BD 115/13.8KV SUBSTATION ( 15kv - MV Joint Kits)	Electrical & HV AC Test	EPC - Energy & Power Contracting Co.	2011	
49	SEC-EOA JUBAIL NCP) 230KV 1*1600mm <sup>2</sup> XLPE Cable SS JUBAIL NORTH TO NCP LINE-2	Electrical & HV AC Test	SIEMENS	2011	
50	SEC COA contract no:10731043/00, 132 KV AL TOUKHI SS 8160 (2 CIRCUITS)	Electrical & HV AC Test	AL TOUKHI	2011	
51	SEC COA AL OJAIMI SUBSTATION 9005-8012 (9 CIRCUITS)	Electrical & HV AC Test	AL OJAIMI	2011	
52	SEC-COA AL OJAIMI SUBSTATION 9005-8137 (2 CIRCUITS) ALONG WITH CABLE FAULT LOCATING.	Electrical & HV AC Test,cable fault locating tests.	AL OJAIMI	2011	
53	SEC-COA CAPITAL LIGHTS SUBSTATION 8072-8127	Electrical & HV AC Test	CAPITAL LIGHTS	2011	
54	SEC-COA CAPITAL LIGHTS SUBSTATION 8072-8127 A	Electrical & HV AC Test	CAPITAL LIGHTS	2011	
55	SEC COA Contract no. 10931075132 KV Power Cable Testing 12 Circuits	Electrical & HV AC Test	NCC	2011	
56	SEC ARAMCO contract no. 6600021812 .69kv. SUBSTATION 50 ABQAIQ AREA	Electrical & HV AC Test	EPC	2011	
57	SEC ARAMCO contract no. 6600021812 .69kv. PC-1602 SUBSTATION GOSP 2 ABQAIQ AREA	Electrical & HV AC Test	EPC	2011	
58	SEC COA contract no. 10931039/00. BSP 9006 TO SS 8602A	Electrical & HV AC Test	NCC	2011	
59	SEC COA contract no. 10331229/00. SS 8780 TO SS 8782 WADI DAWASSER AREA.	Electrical & HV AC Test	NCC	2011	





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Projects	Scope Of Testing Work	Client	Year	Remarks	
60	SEC COA contract no: 10931192/00. SS 8012A TO BSP 9005.	Electrical & HV AC Test	AL-OJAIMI	2011	
61	SEC ARAMCO contract no: B1-10-00241,115KV ALUMINIUM BUS BARS,UTHMANIYAH GOSP#4	HV AC TEST	ENERGY POWER SERVICE.	2011	
62	SEC COA,10931073/00 TESTING AND COMMISSIONING OF 132KV CABLES ,ALONG WITH CABLE FAULTING. (11 CIRCUITS)	Electrical,HV AC test and CABLE FAULT LOCATING tests.	TDP	2011	
63	SEC-EOA,CABLE FAULT LOCATING FOR 115KV CABLES,AL-KHOBAR.	CABLE FAULT LOCATING TEST.	AL-OJAIMI.	2011	
64	SAUDI ARAMCO,MV CABLE TANGENT DELTA DIAGNOSTIC TEST ASSESSMENT,RAS TANURA TERMINAL.	TANGENT DELTA DIAGNOSTIC TESTS.	SAUDI ARAMCO.	2011	
65	SEC-COA,contract no: 10831062/00,testing and commissioning (HIPOT) of 132kv GIS SS 8074.	GIS HIPOT TEST	AL-OSAIS.	2011	
66	SEC-COA contract no: 10531118/00,testing and commissioning of 132kv cables,SS 8077-QUWAYIYAH.	ELECTRICAL TESTS	AL-BABTAIN	2011	
67	SEC-EOA contract no: 30833073/00,testing and commissioning for 13.8KV 1C * 185 SQ.MM MV CABLE AT MANIFA BSP.	Electrical & HV AC Test	NCC	2011	
68	SEC-COA contract no: 10831062/00P1,testing and commissioning of 132kv GIS ,SS 8830.BURAIDAH AREA.	GIS HIPOT TEST	AL-OSAIS.	2011	
69	SEC-COA TDP CONTRACT NO. 10431252 @ MAROJ (P111-114/L/02/051)	SHEALTH TEST	TDP	2011	
70	SEC-COA CONTRACT NO. 10431252 @ MAROJ (P111-114/L/02/053)	SHEALTH TEST	TDP	2011	
71	SEC-COA S/S Qurayyat - PO No. PF-96(1)-063	Sheath fault locator	Al fanar Co.	2011	
72	SEC-COA # PP-9 - 13.8kv - Cable Laying / Termination, Testing & Commissioning	Electrical & HV AC Test	SIEMENS	2011	
73	SEC-COA TESTING AND COMMISSIONING FOR 17.5KV CABLE.	Electrical & HV AC Test	ABB	2011	
74	ROYAL COMMISSION Contract no. 071-C14,TESTING AND COMMISSIONING FOR 230KV CIRCUITS.	Electrical & HV AC Test	NCC	2011	
75	SEC COA, Contract no 10531116/01,testing and commissioning for 132kv cables.	Electrical & HV AC Test	Al Babtain	2011	
76	HIPOT TEST FOR HYBRID C/B AND GIS(115KV) Manifa / Abu Hadriyah	GIS/CB HIPOT TEST	ARAMCO	2011	
77	SEC COA Sudir OHL (Purchase order no: P164/L/HV/160	Cable fault location - 2 Qty	TDP	2011	
78	SEC COA Princess Noura Project Ref: W/O/033/11	Sheath Fault in 132kv Cable	AL Ojaimi	2011	
79	SEC COA New substation 132/13.8kv# 8167 ext to S/S 9015	Electrical test for 132kv 1200sqmm cables - 2 ckt	Alfanar	2011	
80	SEC COA contract no.10331229/00. SS 8780 TO SS 8782 WADI DAWASSER AREA. SEC COA,132KV,1200SQMM TESTING AND COMMISSIONING.SS 8715-132KV (4 CIRCUITS)	Electrical & HV AC Test	Al Babtain	2011	

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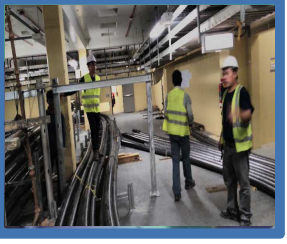
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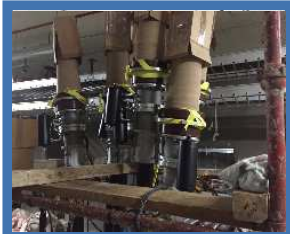
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Projects	Scope Of Testing Work	Client	Year	Remarks	
81	SEC COA, 132KV, 1200SQMM TESTING AND COMMISSIONING.SS 8715-132KV (4 CIRCUITS)	Electrical & HV AC Test	AL-BABTAIN.	2011	
82	SEC-COA - CONTRACT No. 10931163/00 Dynamic Reactive Power Compensation in COA	Electrical & HV AC Test	SIEMENS	2011	
83	SEC COA- 380 KV RE-ROUTING WORK PP9 CONTRACT NO. 10621166	Electrical & HV AC Test	BEMCO	2011	
84	SEC COA 11031095/00.TESTING AND COMMISSIONIG OF 132KV CABLE.	Electrical & HV AC Test	CME AL-ARABIA.	2011	
85	SEC EOA, 31031013/00 TESTING AND COMMISSIONING OF 132 AND 33KV CABLES.	Electrical & HV AC Test	SIEMENS	2011	
86	SEC-COA-10931073/00 TESTING AND COMMISSIONING OF 132KV CABLES, ALONG WITH CABLE FAULT LOCATOR. (11 CIRCUITS)	Electrical & HV AC Test	TDP	2011	
87	SEC-COA, Cont # 10431252 @ Marooj (P111-114/L/02/054)	Preinstallation test (Drum Test), Po post installation (Before Jointing), FOC jointing in closure & termination (Preparation & Jointing), Attenuation test, Acceptance test for 1 ckt	TDP	2011	
88	SEC-COA, Cont # 131111011 - Shifa (P117/L/UG/048)	Sheath Fault location test for 132kv UG cable - 10 No.	TDP	2012	
89	SEC-COA, KAFD Project W/O/001/12	Electrical test and HV AC test - 1 ckt	Al-Ojaimi	2012	
90	SEC COA Contract # 10831198/00 Construction of Al-Oraijah 132/13.8KV S/S 8152	Testing of 13.8kv XLPE cables & AC Hi-Voltage Test of 132kv GIS with GIB	NCC	2012	
91	SEC COA # Sheth Fault in 132kv cable at S/S 9005	Shetg Fault locator 132kv - 4 Nos	Al-Ojaimi	2012	
92	SEC EOA 115kv cable Order No. MNS-HPE05-005 (MANIS Project)	Hi-Pot test of 115kv 1C x 400 cable (S/S # 2-GIS to Transformer - 100 meters) - 2 ckt	MEEDCO	2012	
93	SEC EOA 115kv cable Order No. MNS-HPE05-005 (MANIS Project)	Hi-Pot test of 115kv 1C x 400 cable (S/S # 2-GIS to Transformer - 100 meters) - 2 ckt	MEEDCO	2012	
94	SEC COA # Conductor Fault in 132kv cable at S/S 9005 (KAFD Project)	Conductor Fault Locator 132kv - 1 Nos.	ALOJAIMI	2012	
95	SEC COA Contract No. 10931073/00, Purchase order No. P117/L/UG/054 - Shifa	Electrical Test & HVAC test for circuit 9013-8075 (Route length 14.5KM) - 1 Qty	TDP	2012	
96	SEC COA Contract No. 10831199/00, Purchase order No. W/O/039/12	S/S 8072-8152 Electrical & Hipot Test 3 cable per Circuit, R.L = 8km	ALOJAIMI	2012	
97	SEC COA Reinforcement of Hail-2 Power Plant Extension III	Electrical Test & HVAC test for 132kv cable (Route length 900m) - 1 ckt and Electrical test for 1 circuit	Alfanar	2012	
98	SEC COA Ss 8142 - 8150 10/CLC/PO/12/05	Electrical Test - 2 ckt, Hipot Test - 2 ckt.	Capital Light	2012	
99	SEC-COA KAFD PROJECT 061-00985	Fault location testing	NESMA	2013	
100	SEC-WOA ASAMCO/METS/1013-5979M	Electrical and hipot testing @ 110kV Yanbu Badr Musayjeed-badr prject	ASAMCO	2013	
101	SEC-EOA 380kv MEEDCO Qurrayah Project TE/METS/13-A1012	Electrical test	TAIHAN	2013	



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102	SEC-EOA 380Kv MEEDCO Qurrayah Project TE/METS/13-A0911	Electrical test @380Kv MEEDCO Qurrayah Project	TAIHAN	2013	
103	SEC-COA SS#8021 TO 8056 Al Olaya project P117/LUG/069	ELECTRICAL TEST @ SS#8021 TO 8056 Al Olaya project	TDP	2013	
104	SEC-EOA Construction of DIE project 4504720659	*Fault location test	SIEMENS	2013	
105	SEC-COA Construction of Tabarjal-Qarayyat project	Hipot test for 132kV GIS @	Al Toukhi	2013	
106	SEC-EOA CN#310311138/00 380kV OHTL for Qurayyat PP to Future Tabarjal BSP ASKEC/METS/SEC/793/	Electrical and hipot test	KEC	2013	
107	SEC-EOA Construction of DIE project 4504690643	Hipot test @ Siemens DIA Project	SIEMENS	2013	
108	SEC-EOA Construction of DIE project 4504668402	Line Parameter test @ Siemens DIA project	SIEMENS	2013	
109	SEC-EOA Construction of DIE project 4504668370	Megger Test @ Siemens DIA Project	SIEMENS	2013	
110	SEC-EOA Construction of DIE project 4504621750	Sheath Test	SIEMENS	2013	
111	SEC-COA Construction of Al Jouf 380kV & Hail 9030 project PE104-LPO-213	Fault location test	Al Fanar	2013	
112	Construction of Al Jouf 380kV & Hail 9030 project PE104-LPO-299	Electrical testing works	Al Fanar	2013	
113	SEC-EOA Construction of DIA Project 4504592337	Electrical and hipot test	SIEMENS	2013	
114	Construction of DIA Project 4504590858	Fault Location test	SIEMENS	2013	
115	SEC-EOA Construction of MANIS Project MNS-HPE05-007	Electrical and Hipot test	MEEDCO	2013	
116	SEC-EOA Construction of MANIS Project MNS-HPE05-008	Electrical and Hipot test	MEEDCO	2013	
117	SEC-EOA Construction of DIA Project 4504568047	Fault location	SIEMENS	2013	
118	SEC-COA CN#11031079/00 132kV Network Connection of Riyadh Industrial Area SS9027AETCON/971	Fault Location test	AETCON	2013	
119	SEC-WOA Bader Substation. AECC/CM/034	Fault location test	AECC	2013	
120	SEC-EOA Construction of 380kV Shoaiba Project TE/METS/11-A1222	Electrical test	TAIHAN	2013	
121	SEC-COA NEW SS 8142 in Riyadh CLC/PO/M/13/05/09 REV01	Hipot test for 1232kV Power Cables	Capital Light	2013	



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Projects	Scope Of Testing Work	Client	Year	Remarks
122	SEC-COA NEW SS 8142 in Riyadh CLC/67/MP/13/15	CORE Fault Detector Test @ 132kV Power	Capital Light	2013
123	SEC-COA Construction of 132 kV Bisha South Substation 4504450508	Hipot test for 132kV Bus bar	ISCOSA	2013
124	SEC- SOA Construction of SINAIYAH 8174 PROJECT ORD-11013-2-1A	Hipot test for GIS Bus bar	Power Flow Contracting	2013
125	SEC-COA SS#8005-8153 & 8071-8153 67/CLC/PO/15/17	hv TEST FOR 132Kv POWER CABLES	Capital Light	2013
126	SEC_COA Qassim SS#8831 ProjectISY5020313	Hivolt test for 132kV GIS	INNOVATIVE SYSTEM	2013
127	CN#1430/1431/34 132kV Najran to Al Ulla BSP. ASKEC/METS/SEC/753/001	Hipot test for 132kV cables	KEC	2013
128	SEC- COA SS#8031 to 9027 project AETCON/793	Sheath Fault Locaiton test for 132kV cables	AETCON	2013
129	SEC-COA Construction of New 132/13.8kV SS# 8839 Al Zulfi PE 112-079	Electrical and HIPOT test for 132kV cable	Al Fanar	2013
130	SEC-SOA CN#41031044/00 132kV Abha Project ASG/METS/02/PO/13	Electrial and hipot test for 132kV cables	Al Shahrani	2013
131	SEC-COA Construction of Haragh -1 SS Project 4504372063	Hipot test for 132kV GIS	ISCOSA	2013
132	ARAMCO PROJECT DAMMAM 6510575315	VLF Hipot test for MV cables	SAUDI ARAMCO.	2013
133	SEC_WOA CN#207311127/00 Construction of New Badr SS. AECC/BADR/PO/142	Fault location test for 110kV power	AECC	2013
134	SEC-COA Construction of Tabarjal-Qarayyat project Aloukv/2293	Hipot test for 132kV GIS	Al Toukhi	2014
135	SEC-COA Construction of 380kV Qurrayah Project TE/METS/14-A0114	Electrical test for 380kV Cables	TAIHAN	2014
136	SEC-WOA Construction of Al Sanabil Project SS84-PA01-5400140119	Hipot test for 380/110kV GIS	MEEDCO	2014
137	Construction of KKUC PROJECT Xervon F2049/6	Hipot test for 132kV GIS	XERVON SAUDI ARABIA LLC	2014
138	Construction of New 132/13.8kV SS#8839 Al Zulfi College ALFANARPE-112 (L) -54	Sheath Fault locaiton test for 132kV	Al Fanar	2014
139	SEC-COA Raha power plant north of Riyadh Powertherm# 0472	VLF Hipot test for MV cables	Powertherm	2014
140	SEC-WOA Construction of Al Sanabil Project SS84-PA02-5400140120r01	HOPOT TEST FOR 110kV GIS	MEEDCO	2014
141	SEC_COA Construction of Qurrayah project TE/METS/14 A0403	Electrical test for 380kV cables	TAIHAN	2014
142	SEC-SOA MIKHWA SS -7 AL-HAQU ss 4505126527	Hipot test for 132kV Circuit Breaker	ISCOSA	2014
143	SEC-SOA CN#21131143/00 Construction of 132kV OHTL and UG cables in Duba 2 SS AKL/801/DUBA/WO-151	Electrical and Hipot test for 132kV Power cables	KEC	2014
144	SEC-COA Construction of KAFD Project in Riyadh NESMA 061-01742	Fuall locaiton test for MV Cables @	NESMA	2014



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145	CN# 11031079/00 AETCON / 1111	Electrical test for 132kV Power cables & Fault Location test	AETCON	2014	
146	ARAMCO project ESES-PO-211/05/2014	Hipot test for 69kV Power cables & Bus bar	ESES	2014	
147	SEC-COA Connection of SS#9016 Project ABC 9016/METS/HSM/0625-R-O	Hipot test for 132kV cables @	Al Babtain	2014	
148	SEC_EOA CN#31031066/00 Installation of Al Khur, Al Murjan & Jubail Project A/Ojaimi AO/Ak-Khur-2767/2014P	Hipot Test for 115kV Power cables	Al Ojaimi	2014	
149	SEC_WOA Construction of KAIA PROJECT JEDDAH SSEM KAIA-SS/345/14	HIPOT TEST FOR 380/110kV @ GIS	SSEM	2014	
150	SEC-WOA CN#11221041/00 Construction of Al Lith Project SSEM LITH-SS-297-14-WOC-1	Hipot test for 1150kV GIS & LVHV test for power cables	SSEM	2014	
151	SEC-COA SS#9001 to 9012 380kV Project SAU-9012A 201408-01	LVHV test for 380kV cables	LS cable	2014	
152	SEC-COA Construction of Al Dawadmi Project L&T WO-017	LVHV test for 132kV Power	L&T	2014	
153	SEC_EOA Construction of Al Frardous 380kV BSP MEEDCO SS83-PO02-001	Hivolt test for 380kV GIS.	MEEDCO	2015	
154	SEC-EOA Construction of Al Frardous 380kV BSP MEEDCO SS83-PO01-002	Hivolt test for 380kV GIS.	MEEDCO	2015	
155	SEC-EOA Construction of Al Sanabil 380kV BSP MEEDCO SS84-PA01-020-008	Hivolt test for 380kV	MEEDCO	2015	
156	SEC-EOA Construction of Al Sanabil 380kV BSP MEEDCO SS84-PA01-020-007	Hivolt test for 380kV GIS	MEEDCO	2015	
157	SEC-COA S/S 9701 at Wadi Al Dawaser ABC 03-070615A	Hivolt test for 380kV GIS	Al Babtain	2015	
158	SEC-COA S/S 9701 at Wadi Al Dawaser ABC 03-070615	Hivolt test for 132kV	Al Babtain	2015	
159	SEC-EOA Construction of Al Sanabil 380kV BSP. MEEDCO SS83-CB01-27	Cable Fault Location test for 115kV Power cables	MEEDCO	2015	
160	SEC-EOA CN#31033165/00 Al Fardous CEP/HVD/2015/PO-004	Hipot Test for 380kV Power	CEPCO	2015	
161	Construction of HADCO (AlMarai) .380/33kV BSP. (9065) SSEM HAD-SS-239/15	Perform the HVAC test for 380kV GIS @	SSEM	2015	
162	CN#11031079/00 132kV Network connection for Riyadh Industrial Area SS#9027. AETCON/2015/37	Electrical test for 132kV Power Cables	AETCON	2015	
163	SEC-EOA Construction of Doha BSP NCC-T&D/SE/31131131/WO-17	Electrical and Hipot test for 115 GIS & Cables / 380kV GIS & Cables VLF Hipot test for MV Cables	NCC	2015	
164	SEC-WOA Constriction of Rabigh Project IOC R.B.T.C.172.2014	LVHV TEST FOR 110kV POWER CABLES	IBN Omairah	2015	
165	SEC-COA SS 9071 at wadi dawaser. ABC PO# 09-April-2015	Hipot test for 380kV GIS	Al Babtain	2015	



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166	SEC-COA Construction of Ashbailiyah Project Taihan MET/HVD/2015/15050214-R1	TAIHAN	2015	
167	SEC-COA Installation of UG cables Project in As-Safa CN#4400004535 IOC Work Order -2	IBN Omairah	2015	
168	SEC-WOA CN# 21031093/00 Makkah Taif Second Line & Tabuk - Duba 380kV OHTL MEEDCO ST-38C-ENG 0084016	MEEDCO	2015	
169	SEC-WOA Construction of King Abdul Aziz International Airport project Jeddah SSEM GACA-C/182/15	SSEM	2015	
170	SEC-SOA CN#41031043/00 Khamis South 132/13.8kV Project NCC SS/TL/KS-13/WO/78	NCC	2015	
171	SEC-COA AIToukhi # 4045	Al Toukhi	2015	
172	KAPSARC ARAMCO PROJCT Drake & Scull # KAP/3269	DRAKE & SCULL	2015	
173	SEC-WOA CN#21031093/00 Makkah Taif 380kV OHTL Project. MEEDCO ST-38C-ENG 3168	MEEDCO	2015	
174	Aramco 10-01256 Congeneration and Interconction Facilities at Hawiah Gas Plant ES PO# P15-028	Energy Power Service	2015	
175	SEC-COA Construction of KAFD RYADH PJT NESMA 061-02209	NESMA	2015	
176	SEC-EOA Construction of Al Shedgum-2 380kV BSP. MEEDCO SS85-PO01-0140-001	MEEDCO	2015	
177	Aramco 10-01256 Congeneration and Interconction Facilities at Hawiah Gas Plant ES PO#P15-028-A	Energy Power Service	2015	
178	Construction of RABIGH-II 380kV GIS RABIGH-II S/SHII - HX0-025-20130509-HV-01	HHI	2015	
179	SEC_COA SS#9066 and 9032 Qassim Area ST38J-XLPE-254	MEEDCO	2016	
180	SEC-COA 132kV Industrial Area Riyadh ALFANAR PE-102 LPO / 4500022962	Al Fanar	2016	
181	Installation of transformer at buraydah 132/33kV SS#9029 Qassim Area ABC SS9029/METS/RCR/16-0223	Al Babbain	2016	
182	SEC-SOA Construction of Tabrajal project Al Fanar - PE-142 - Tabrajal	Al Fanar	2016	
183	SEC-WOA 380kV Jeddah central project AlFanar ATC - 727	ALFANAR	2016	
184	SEC-SOA Construction of Tabuk-Duba project MEEDCO ST-38C-ENG-5174	MEEDCO	2016	
185	SEC-COA CN#4400003944 Al Ojaimi Co W/O/061/16	ALOJAIMI	2016	
186	SEC-COA 132kV ALKHARJII PJT Al Ojaimi Co W/O/060/16	ALOJAIMI	2016	
187	SEC-WOA Construction 132kV TIBAH -669	TIBAH Airports Operation Co. LTD	2016	
188	SEC-EOA C#31131170/00 (DOHA UG Cable) - Enquiry for Testing services of 380kV Power Cables (Al-Fardous - DOHA BSP) NCC-T&D/SE/31131170/WO-34	National Contracting Co. LTD	2016	





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Projects	Scope Of Testing Work	Client	Year	Remarks	
189	SEC-SOA Installation of 132kV Cable Network between Al Jouf-2 380kV BSP & EXT.AJouf 132kV BSP.	LHV Testing for 132kV power cables	AlFanar	2016	
190	PLCC-08-2016-2032	HV Test for 380kV Power Cables	Powerlinks Contracting Company Ltd.	2016	
191	SEC-COA Al Jouf Project 132kV Al Jouf Project	Electrical & Hipot testing works	L&T	2017	
192	SEC-COA SS#9066 and 9032 Qassim Area ST38J-XLPE-254	Electrical and Hipot test for 132kV Power cables	MEEDCO	2017	
193	380/110kV GIS @ 380kV Al Samir project.	pot testing works for 380/110kV GIS	MEEDCO	2017	
194	Contract No. - 4400002631/00 380kV OHTL from Hail-2 BSP (9031) and Qassim-3 BSP (9029) to New HADCO BSP (9065)	Electrical and Hipot test for 132kV Power cables	MEEDCO	2017	
195	SEC-WOA 110kV Madinah Islamic University	Electrical and Hipot test for 110kV Power cables	Alfanar	2017	
196	SEC-COA 132kV Project, Riyadh	Electrical and Hipot test for 132kV Power cables	Al Ojiami	2017	
197	SEC-SOA Construction of 132kV Muthalif Project at Jizan road	Electrical & Hipot testing works for Power Cables & GIS	XEROVAN	2017	
198	SEC-SOA 132kV Jizan project	Electrical & Hi-Pot testing works for 132kV Power cables	IBN Omairah	2017	
199	SEC-COA 132kV - 9029 at Qassim S/S	Electrical & Hi-Pot testing works for 132kV Power cables	Al Babtain	2017	
200	SEC-SOA Construction of 132kV Bareq Project at Jizan road	Electrical & Hipot testing works for Power Cables & GIS	XEROVAN	2017	
201	SEC-COA 380kV project PP-07	Hi-Pot testing works for 380kV Power cables	Al Fanar	2017	
202	SEC-COA 380kV project PP-07	Hi-Pot testing works for 380kV Power cables	Al Fanar	2017	
203	SEC-SOA Construction of 132kV Bareq Project at Jizan road	Electrical & Hipot testing works for Power Cables & GIS	XEROVAN	2017	
204	SEC-EOA 132kV Qawaq S/S 8841 upro BSP S/S 9032 in Buraydah Qassim Area	Electrical & Hi-pot testing works for Power Cables	LNTECC	2017	
205	SEC-COA 110kV Wasilyah project Taif	Electrical & Hi-Pot testing works for 110kV Power cables	KEC	2017	
206	SEC-EOA 230kV HV Cable sheath fault location service	Fault Location Service for 230kV HV Cable	MEEDCO	2017	
207	SEC-EOA 132kV Qawaq S/S 8841 upro BSP S/S 9032 in Buraydah Qassim Area	Electrical & Hi-pot testing works for Power Cables	LNTECC	2017	
208	"HV Testing for 33kV Cable for CONTRACT NO.:4400007943 - Integration of Arar 380/132/13.8kV/BSP S/S to the existing 132kV Network at Arar Area	Electrical & Hi-Pot testing works for 33kV Power cables	LNTECC	2017	
209	SEC-EOA 115kV Abiqaiq - 3 S/S	Electrical & Hi-pot testing works for Power Cables	Smart Union	2018	
210	SEC-WOA 132kV PP1 and PP2 at Sharurah	Fault Location Test	KEC - Al Shariff	2018	
211	SEC-COA 132kV Al Nada S/S	Hi-pot testing works for Power Cables	Ibn Omra	2018	



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Projects	Scope Of Testing Work	Client	Year	Remarks	
212	SEC-EOA Half Moon Substation Project PLCC-05-2018-2090	HV Test for 115kV Power Cables	Power Links	2018	
213	SEC-COA 132kV 8140 & 9017 S/S	Hi-pot testing works for Power Cables	Ibn Omra	2018	
214	SEC-COA 132kV Bakaria Area of Qassim (8859 S/S)	Fault Location for Power Cables	Alfanar	2018	
215	SEC-EOA 115kV Al Kalibiyah Project	Electrical & Hi-Pot testing works for 115kV Power cables	Al Joun – Azmeel	2019	
216	SEC-COA 132kV New Zulfi BSP S/S 9064 in Qassim Area	Hi-Pot testing works for 115kV Power cables	LNTECC	2018	
217	SEC-COA SS 8051, Riyadh Project PLCC-07-2018-2093	HV Test for 132kV Power Cables	Power Links	2018	
218	SEC-WOA 110kV YANBU City BSP with Yanbu Network	Cross Bonding, Contact Resistance SVL testing for Special Link Box	KEC	2018	
219	SEC-WOA 110kV YANBU S/S	HV Test for 110kV Power Cables	IOC	2019	
220	SEC-EOA DIE SS, Dammam Project PLCC-10-2018-2098	HV Test for 115kV Power Cables	Power Links	2018	
221	SEC-COA 132kV QASSIM PROJECT SS-8524 – Thadeq S/S	HV Test for 132kV Power Cables	IOC	2018	
222	SEC-COA SS 8281, Riyadh Project PLCC-11-2018-2100	HV Test for 132kV Power Cables	Power Links	2018	
223	SEC-EOA 115kV Al Kalibiyah Project	Cable Sheat Fault for 115kV Power cables	Al Joun – Azmeel	2018	
224	SEC-EOA Sihah SS, Dammam Project PLCC-12-2018-2102	HV Test for 115kV Power Cables	Power Links	2019	
225	SEC-COA 132kV New Hail City S/S # 8926 with 132kV Network in Hail Area	Electrical testing works for 132kV Power cables	LNTECC	2019	
226	SEC-COA SS 8051, Riyadh Project PLCC-01-2019-2106	HV Test for 132kV Power Cables	Power Links	2019	
227	SEC-COA 380kV Cable Hipot & PD Testing for S/S 9001 - S/S 9053 at Riyadh	HV Test for 380kV Power Cables	Taihan	2019	
228	SEC-EOA Replacement of Thirteen 115kV BOCB's in JAMD SS – NG	115kV DTCB High Voltage Test	XERVON	2019	
229	SEC-COA 9042-8056 Al Raeed CKT, Riyadh	HV Test for 132kV Power Cables	Al Ojaimi	2019	
230	SEC-WOA 110kV Yanbu City BSP with 110kV Yanbu Network	Cable Sheat Fault for 115kV Power cables	KEC	2019	
231	SEC-EOA Ain Murjan SS, Al Hassa Project PLCC-05-2019-2135 Rev 1	HV Test for 115kV Power Cables	Power Links	2019	
232	SEC-WOA 110kV YANBU City BSP with Yanbu Network	Cross Bonding, Contact Resistance SVL testing for Special Link Box	KEC	2019	
233	SEC-EOA Omran BSP – Mazawi SS 115kV Power cable route in Al-Hassa	HV Test for 115kV Power Cables	Al Ojaimi	2019	
234	SEC-EOA Al Adel SS, Jeddah Project PLCC-05-2019-2136	HV Test for 380kV Power Cables	Power Links	2019	
235	SEC-COA SS 8051, Riyadh Project PLCC-01-2019-2106	HV Test for 132kV Power Cables	Power Links	2018	



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Projects	Scope Of Testing Work	Client	Year	Remarks	
1	SEC-COA 110kV Wasilyah project Taif	Electrical & Hi-Pot testing works for 110kV Power cables	KEC	2017	
2	SEC-COA 110kV Yanbu project	Electrical & Hi-Pot testing works for 110kV Power cables	KEC	2017	
3	SEC – EOA INSTALLATION OF 115kV UNDERGROUND CABLES FOR THE INTEGRATION OF AL UQAIR-A 115/13.8kV SUBSTATION	Hi-Pot testing works for 115kV Power cables	HAIF COMPANY	2019	
4	SEC – EOA INSTALLATION OF 115kV UNDERGROUND CABLES FOR THE INTEGRATION OF AL UQAIR-B 115/13.8kV SUBSTATION	Hi-Pot testing works for 115kV Power cables	HAIF COMPANY	2019	
5	ARAMCO-EOA ETHANE DEEP RECOVERY FAC	High Volt with stand test for 230kV GIS & Voltage Injection for PD & VT Testing	HYUNDAI	2019	
6					
7					
8					
9					



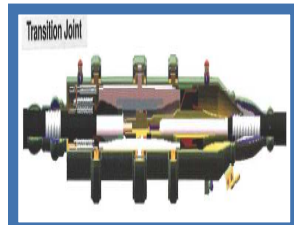


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### Power Cable

No.	Description	Quantity	REMARK
<b>General Tools &amp; Equipment for Jointing Works</b>			
1	Hydraulic Press Machine / 100 Ton	3	KOREA
2	Hydraulic Press Machine / 200 Ton	3	KOREA
3	Dice Holder / 100 Ton	3	KOREA
4	Dice Holder / 200 Ton	3	KOREA
5	Compression Dices (200mm <sup>2</sup> up to 2500mm <sup>2</sup> )	20	KOREA
6	Belt Heater / 400W	16	KOREA
7	Temperature Control Box	3	KOREA
8	SRC Insertion Tool (200mm <sup>2</sup> up to 2500mm <sup>2</sup> )	8	KOREA
9	Insulation Remover	6	KOREA
10	Peeling Device for Semi-Conducting Layer	6	KOREA
11	Penciling Device for Insulation Layer	6	KOREA
12	Metallic Sheath Cutter & Remover	4	KOREA
13	Aluminum Angle for Insulation Straightening	24	KOREA
14	Sanding Machine	6	KOREA
15	Crimping Tool	4	KOREA
16	Heat Gun / 1500W	10	KOREA / GERMANY
17	Torque Wrench / 450 kg-cm	8	JAPAN
18	Jig Saw / Matica 4300BA	4	JAPAN
19	Compound Mixer for Water-Proof Compound	2	SWITZERLAND
20	Belt Grinder	6	KOREA
21	Vernier Calipers	10	JAPAN
22	Hydraulic Punch	2	JAPAN
23	Digital Thermometer & Hygrometer	4	KOREA
24	Grooving Device	6	KOREA
25	Electric Soldering Iron / 500W	5	KOREA
26	Tool Box for Jointing Team	8	KSA
27	Jointing Container for 132kV / 230kV	4	KSA
28	Jointing Container for 380kV	2	KSA
29	Torque Wrench / 650 Kg-cm	4	JAPAN
30	Digital Vernier Calipers	5	JAPAN
<b>Special Tools &amp; Equipments for Termination &amp; Jointing Works (G &amp; W / Elastimold) – USA</b>			
1	Hydraulic Press Machine	2	USA
2	Suitable Dies	6	USA
3	Heating device	2	USA
4	Oil pump no EP10, 60 ton with hose T990025	2	USA
5	Oil filling kit for G & W termination ( Special )	2	USA
6	Sliding rings stress control for G & W termination indoor and outdoor type	2	USA
<b>Special Tools for Control/Protection Terminations</b>			
1	Crimping Tools	7	JAPAN
2	Wire Stripper	7	JAPAN
3	Side Cutter	7	ITALY
4	Pliers	7	ITALY
5	Long Nose pliers	7	ITALY
6	Vice Grip	7	JAPAN
7	Blade Cutter	7	GERMANY
8	Cable Cutter	7	USA
9	Screw Driver Set	7	JAPAN
10	Measuring Tape	7	USA
11	Band Saw	4	USA
12	Hack Saw	7	USA
13	Combination Wrench Set	7	JAPAN
14	Socket Wrench Set	7	JAPAN
15	Allen key Set	7	JAPAN
16	Heat Gun	7	JAPAN
17	Soldering Gun	7	JAPAN
18	Feruling Machine	2	USA



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## Tools & Test Equipment

### Power Cables

No.	Description	Quantity	REMARK
<b>Special Tools for LSC Termination &amp; Jointing Works - KOREA</b>			
1	Hydraulic Press Machine (100 MT / 200 MT)	2	KOREA
2	Suitable Dices	8	KOREA
3	Compression Holder (100 MT / 200 MT)	2	KOREA
4	Belt Heater	2	KOREA
5	Temperature Control Box	2	KOREA
6	Special Crimping Tool	2	KOREA
7	SRC Sliding Tool	2	KOREA
8	PMJ Sleeve Insertion Tool	2	KOREA
9	Transformer (3kW)	1	KOREA
10	Hydraulic Punch	1	KOREA
<b>Special Tools for SUDKABEL Termination &amp; Jointing Works - GERMANY</b>			
1	Hydraulic Pump PA 700	2	GERMANY
2	Pressing insert 2000 Sqmm	2	GERMANY
3	Pressing head for 2500 Sqmm	2	GERMANY
4	Package 1210 WS + WI 110+Spare Blade	4	GERMANY
5	Temper Set, Package 1080	3	GERMANY
6	Fitting device	3	GERMANY
7	Package 1270 Stripping(W/S170+W/L170+Spare Blades)	1	GERMANY
8	Inlet guide for EV1 set	1	GERMANY
9	Pressing insert Kp 87 2500 Sqmm	1	GERMANY
10	Stop Ring 100mm inside Dm	2	GERMANY
11	Chain Pully, 800 Kg (Germ Quantity)	10	GERMANY
12	Package 1010, Special Hand Tools	2	GERMANY
13	Package 1050, Electrical Basis Set	1	GERMANY
14	Package 1055, Illumination Set	1	GERMANY
15	Package 1060, Sabre Rothenberg	2	GERMANY
16	Alloy Terper Rail, 2000 Sqmm	3	GERMANY
17	Package 1035, Push on Device	2	GERMANY
18	Hydraulic Compression Device Elect	1	GERMANY
19	Compression Die 2000 Sqmm Size 4	2	GERMANY
20	Insulation Cutter	1	GERMANY
21	1200 Sqmm Compression Die	2	GERMANY
<b>Special Tools for NKT Termination &amp; Jointing Works - GERMANY</b>			
1	Hydraulic Press Machine	1	GERMANY
2	Hydraulic Jack from 240 Sqmm	1	GERMANY
3	Peeling Tool SH 80	1	GERMANY
<b>Special Tools for NEXANS Termination &amp; Jointing Works - SWITZERLAND</b>			
1	ALROC Scrapper	16	SWITZERLAND
2	Complete Tool Box	1	SWITZERLAND
3	Joints Supporting Frame C-225-JP-092	3	SWITZERLAND
4	Consumable: Solvent (Biosane T215)	24	SWITZERLAND
5	Directional Burner Jet - 600° C	2	SWITZERLAND
6	Conductor Cleaning Tool C-DA-0374	2	SWITZERLAND
7	Hook Conductor cleaning Tool	2	SWITZERLAND



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## Tools & Test Equipment

### Power Cables

No.	Description	Quantity	REMARK
<b>Special Tools for NEXANS Termination &amp; Jointing Works - SWITZERLAND</b>			
8	Half-round long snipe-nose pliers	2	SWITZERLAND
9	Thermal Treatment: Temperature regulating set + Probe	3	SWITZERLAND
10	Thermal Treatment: Straightening Tool + Strap	3	SWITZERLAND
11	Thermal Treatment: Heating Blanket	12	SWITZERLAND
12	Thermal Treatment: Thermometer	2	SWITZERLAND
13	Electric Adaptor "trio"	3	SWITZERLAND
14	Scraper for grase with sleeve PVC (Cossonay)	1	SWITZERLAND
15	Scraper C-DA-03	2	SWITZERLAND
16	Joint Body Adaption Tool	4	SWITZERLAND
17	CASKET COMPLETE "CMF-4/60-110_N"	1	SWITZERLAND
18	Flexible Pipe 700 bar	1	SWITZERLAND
19	Electrical Pump 700 bar + Presostat + Manametre	1	SWITZERLAND
20	N_AD D = 110 MP170/180	1	SWITZERLAND
<b>Special Tools for BRUGG Termination &amp; Jointing Works - SWITZERLAND</b>			
1	Hydraulic Press (1 ~ 4 stk.) with set of dies	2	SWITZERLAND
2	SC-Peeling Device (Electric)	2	SWITZERLAND
3	Cutting & Peeling device EH 130	2	SWITZERLAND
4	Pull-off Device 3-arms	2	SWITZERLAND
5	Insulation Pushing device	2	SWITZERLAND
6	Stress Cone Pulling Devices	2	SWITZERLAND
7	Joint Body Installation Device	2	SWITZERLAND
8	Compound Mixer for Coffin Box	2	SWITZERLAND
<b>Tools and Equipment for Cable Pulling Works / Overhead Dismantling Tools</b>			
1	Boom Truck (HIAB / MITSUBISHI - 20 Ton)	1	SWEDEN
2	Cable Pulling Winch	3	UK
3	Cable Pulling Winch with Automatic Controller (THALER)	2	GERMANY
4	Electrical Cable Puller	1	GERMANY
5	Cable Drum Stand up to 380kV	2	KSA
6	Cable Drum Stand up to 132kV	2	KSA
7	Cable Drum Stand for MV / LV	3	KSA
8	Cable Drum Trailer up to 132KV	1	KSA
9	Cable Pulling Roller – Straight	1,000	KSA
10	Cable Pulling Roller – Corner	100	KSA
11	Cable Pulling Roller – □	20	KSA
12	Cable Pulling Roller – X	20	KSA
13	Excavator -R120W-95	1	
14	Excavator -R60W-95	1	
15	Forklift (3Ton)	4	
16	Forklift (5Ton)	5	
17	Forklift (7Ton)	6	
18	Dump Truck 8 Ton	7	
19	Crane Truck 21 Ton	8	
20	Cargo Truck 3.5 Ton	9	
21	Crane 40 Ton	10	
22	Flatbed Truck 3 Ton	11	
23	Flatbed Truck over 3 Ton crane	12	
24	Flatbed Truck 10 Ton crane	13	
25	Cable Trailer 10 Ton	7	



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## Tools & Test Equipment

### Power Cables

No.	Description	Quantity	REMARK
<b>Tools and Equipment for Cable Pulling Works / Overhead Dismantling Tools</b>			
26	Electric Hammer Drill medium duty	6	
27	Electric Hammer Drill heavy duty	1	
28	Hydraulic electric bender	6	
29	Heavy duty power saw for connection	1	
30	Wire loop block -large	1	
31	Hydraulic jack for drum	1	
32	Hydraulic jack for drum heavy duty	2	
33	3.5 Ton truck Equipped with cargo crane	5	
34	Truck for electrical hot line operations	4	
35	Car for electrical bypass	2	
36	Car equipped with electrical transformer	3	
37	Electrical bypass cable	9	
38	Hilti Gun for concrete	10	
39	Hilti Gun for concrete heavy duty	1	
40	Cable tensile	3	
41	Box for keeping electrical parts	1	
42	Cable protector	7	
43	Earth tester	9	
44	Automatic hydronic pressure machine	4	
45	Wire strength tester	5	
46	Safety belt	6	
47	Insulator shoes electrical detector hot line accessing alarm set	7	
48	Wire cover	8	
49	Insulator cover	9	
50	Iron cover	10	
51	Dead end cover	1	
52	Insulator rubber gloves	3	
53	Super high voltage phase detector	6	
54	Super high voltage ampere meter	1	
55	Hooker on meter	5	
56	Electrical insulator & resistance meter	4	
57	Optical fiber cable power meter	5	
58	Optical fiber cable connection tool	6	
59	Optical fiber cable peeler tool	6	
60	Optical fiber cable cutting scissors	8	
61	Portable generator, 10kw flood light	9	



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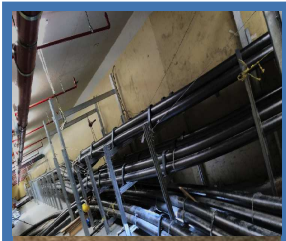
## Tools & Test Equipment

### CIVIL EQUIPMENTS

No.	Description	Quantity	REMARK
<b>CIVIL WORKS TOOLS &amp; EQUIPMENT</b>			
1	Excavator	4 sets	JAPAN / KOREA
2	JCB	1 set	USA
3	Dump Trucks	5 sets	GERMANY
4	Loader/Shewal	2 set	USA
5	Skid loader	2 set	USA
6	Compressor-6 Cylinder	2 set	GERMANY
7	Generator- 1 HP	4 sets	USA
8	Asphalt Cutter	4 sets	USA
9	Compactors Roller	2 sets	USA
10	Roller- 60 cm- 1.3 Ton	1 set	USA
11	Compactor Flat	2 sets	USA
12	Compactor Jumper	3sets	USA
13	Water Tanker	1 set	USA
14	Hi-Ace Van	1 set	JAPAN
15	Boom Truck (Izuzu/Unic)	1 unit	JAPAN
16	Toyota Truck (5.2 MT) Dyna	1 unit	JAPAN
17	Lobed Trailer 40 M/T	1 unit	KSA
18	Leveling Instrument	1 set	JAPAN
19	International Sign board	100 sets	LOCAL MADE
20	Crossing bridge	12 sets	LOCAL MADE
21	Concrete blocks (Safety barriers)	2500 sets	LOCAL MADE



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## Tools & Test Equipment

### Testing & Commissioning

NO.	DESCRIPTION	Q'TY	REMARK
<b>GENERAL TEST EQUIPMENT</b>			
1	Generator (400V-100kVA)	2	JAPAN
2	Multi Tester	3	JAPAN
3	Fluke 337 Clamp Meter	3	USA
4	Fluke 177 Digital Multi Meter	3	USA
5	Megger – 500V	1	UK
6	Digital Dummy Load Torkel – 840	1	USA
7	Analog Dummy Load	2	USA
8	DC Regulated Variable PS 0-75x2 VDC TTI	1	USA
9	Tyco Rectifier SR50 – 48V DC	2	USA
10	GPS 12 Garmin	3	USA
<b>ELECTRICAL TEST EQUIPMENT</b>			
1	HV DC Test - BAUR PGK 25	1	GERMANY
2	HV DC Test - BAUR PGK 80	1	GERMANY
3	Insulation Resistance / Capacitance Test – Megger BM21	2	UK
4	Insulation Resistance /Capitance Test- Megger MIT 520/00	2	UK
5	Ground Resistance Test – Megger DET5/4D	2	UK
6	Contact Resistance Test – Megger DLRO 10	2	UK
7	Impedance Test – Chaovin Arnoux 8220	3	USA
8	Multimeter Fluke 87 V	3	USA
9	Clampmeter Fluke	2	USA
10	YOKOGAWA 2960 DC Conductor resistance test	2	JAPAN
<b>HIGH-VOLTAGE TEST EQUIPMENT</b>			
1	Trailer for HV AC Test Equipment (MAN / 44 Ton)	2	GERMANY
2	HV AC Resonant Test Equipment for HV (WR 83/260T)	2	GERMANY
3	VLF AC Test Equipment for MV	2	GERMANY
4	REO AC Transformer up to 100(A)	2	UK
5	HV Diagnostic (TAN DELTA) VLF Test Equipment	1	SWITZERLAND
<b>CABLE FAULT LOCATOR</b>			
1	Fault Locator MEGGER PFL 40A	1	GERMANY
2	Cable Profile Tester (Megger TDR 2000)	1	UK
3	MFM 100 SECKMT	1	AUSTRALIA
4	SHIRLA BAUR	1	GERMANY
<b>PD MEASUREMENT EQUIPMENT</b>			
1	PD Detecteor / MPD 600 (OMICRON)	2	AUSTRIA
2	Measuring Impedance / CPL 543 (OMICRON)	1	AUSTRIA
3	CT Sensor for PD (OMICRON)	2	AUSTRIA
4	PD Analyzer / MCU 502 (OMICRON)	1	AUSTRIA

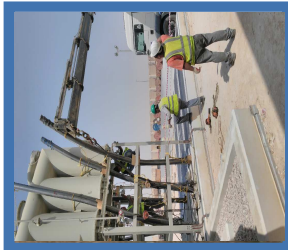


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## Tools & Test Equipment

### Testing & Commissioning

NO.	DESCRIPTION	Q'TY	REMARK
<b>PD MEASUREMENT EQUIPMENT</b>			
5	PORTABLE PD CHECK 2.4 (TECHIMP)	1	ITALY
6	High Frequency CT (HFCT)	3	ITALY
7	Low Frequency CT (LFCT)	1	ITALY
8	Antenna Horn	1	ITALY
9	Frequency Shifter	1	ITALY
10	PS Splitter	1	ITALY
11	Laptop	1	ITALY
12	Media Converter	1	ITALY



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## Tools & Test Equipment

### OPTICAL FIBER CABLES (OFC)

No.	Type	Quantity	Remarks
1	Splicing & Testing Van	1	KOREA
2	Power Meter/Laser Source Exfo - FOT 930 (1310/1550/1625nm)	2 set	CANADA
3	GPS 12 Germin	1 set	USA
4	Net link 430 Digital Line Tester	1 set	AUSTRALIA
5	Fluke 87 Digital Multimeter	1 set	USA
6	Talk set Exfo VCS-20A	2 set	CANADA
7	OTOR EXFO FTB 400	1 set	CANADA
8	Fujikura Fusion Splicing Machine 50s	1	JAPAN
9	Automatic Cleaver	1	USA
10	Fiber Scope	1	USA



### ULTRA & VERY HIGH FREQUENCY UHF / VHF

No.	Type	Quantity	Remarks
1	Microwave Test Sets	1 set	USA
2	Transmission Line & Antenna Analyzer	1 set	USA
3	Rotary Attenuation	1 set	GERMANY
4	Spectrum Analyzer	1 set	ITALY

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**Internationally  
Recognized Partners**



**LS Industrial Systems**  
*(LG industrial systems formerly)*  
 for supply of SCADA System and  
 Control Panel & Remote Terminal Units

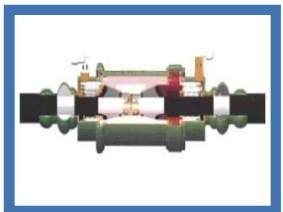




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**Products**

NO	COMPANY	PRODUCTS
1	<p><b>JEDDAH CABLE</b>  <b>RIYADH Cables</b>  <b>Saudi Cables</b>  <b>Sudkabel</b>  <b>NKT Cables</b>  <b>Nexans</b>  <b>LS Cable</b>  <b>Elsewedy Cables</b></p>	<ul style="list-style-type: none"> <li>• EHV Power Cable &amp; Accessories</li> <li>• Optical Fiber Cable &amp; Accessories</li> <li>• Data Cable and Coaxial Cable</li> <li>• Total Solution for Optical Network Project and Coaxial System</li> <li>• FTTH Access Network Project</li> <li>• MV LV Cables and Terminations</li> <li>• Control Cables</li> </ul>
2	<p><b>LS Industrial System</b></p>	<ul style="list-style-type: none"> <li>• SCADA System</li> <li>• Control Panel</li> <li>• Remote Terminal Units</li> <li>• GIS (Gas Insulated Substation)</li> <li>• SAS (Substation Automation System)</li> <li>• MV Switchgear</li> <li>• Solar System</li> <li>• Transformers</li> </ul>



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**Our Clients**



Saudi Electricity Company



Saudi Aramco



SBG-IPP – Arabian BEMCO J.V.

*S.S.E.M.*

Saudi Services For Electro Mechanic Works Co. Ltd.



ABB Contracting Co., Ltd.



Larsen & Toubro Saudi Arabia



Al-Ojaimi Contracting Est.



Al-Toukhi Company for Industry & Trading



Al-Fanar Construction Co.

**SIEMENS**

Siemens



NATIONAL CONTRACTING COMPANY



AL-Mashariq Trading & CONTRACTING CO.



AREVA T & D / COGELEX



AL-BABTIN CONTRACTING CO.

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**Saudi Aramco**



**Sabic**



**Royal Commission**



**MARAFIQ**



**GE - ALSTOM**



**JAL International**



**Al Sharif Group and KEC Ltd**



**Abahsain Consolidated Co. Ltd**



**Trading and Development Partnership**



**IBN Omairah Co.**



**Letters of Recommendation**

شركة مرفاق الكهرباء والمياه بالجubil و Yanbu  
Power and Water Utility Company for Jubail and Yanbu

**مرفاق**  
MARAFIQ

Ref: PC-J-12-0162  
Date: 12 February 2012

MIDDLE EAST TECHNICAL SERVICES EST.  
P.O. Box: 4323  
K.S.A. AL RIYADH 11491

Attn: **Mr. Khalil Ullah**

Subject: **Vendor Registration Notification**

We would like to thank you for your interest to provide services to Marafiq.

This is to acknowledge that your Registration Request and Documentation have been reviewed and accepted. Marafiq has registered your company and assigned Marafiq Vendor Number 3627 as Services provider.

This approval is not a commitment by MARAFIQ to purchase or award a contract with your company but you will have the opportunity along with other approved vendors to respond to the Request for Proposals issued by MARAFIQ in accordance with its policies and procedures.

Your data will be kept confidential in Marafiq's Vendor Data Bank and accessible by Procurement & Contracts Department personnel who will communicate with you should a need arises for your Services as per your approved Services group.

Best regards,  
  
Lorenzo B. Sampaga  
Supervisor, Vendor Relations

Jubail  
PO Box 11133 - Jubail Industrial City 31961  
Tel: +966 3 340 1111 - Fax: +966 3 340 1129

Riyadh  
PO Box 3014 - Yanbu Industrial City  
Tel: +966 4 396 6000 - Fax: +966 4 396 2022  
Kingdom of Saudi Arabia

www.marafiq.com.sa

الرياض  
صندوق بريد 3014 - مدينة ينبع الصناعية  
رقم الهاتف: +966 4 396 6000 - رقم الفاكس: +966 4 396 2022

الجبيل  
صندوق بريد 11133 - مدينة الجبيل الصناعية  
رقم الهاتف: +966 3 340 1111 - رقم الفاكس: +966 3 340 1129

**سابك**  
SABIC

Date: 22 June, 2011

Vendor No.: 506254  
Vendor Name: MIDDLE EAST TECHNICAL SERVICES EST  
Telephone: 012424923  
Fax: 012424924  
Email: mets@mets.com.sa  
Attention: MR. NELSON SAMUEL  
Subject: NEW REGISTRATION CONFIRMATION

Dear Supplier,

Based on business needs, we are pleased to report that you have been registered as vendor of Saudi Basic Industries Corporation (SABIC).

Registration means that you are eligible to receive requests for quotations and orders for the designated materials and / or services. However, there is no guarantee that you will receive any such requests or orders.

Please indicate your Vendor Number as mentioned above when communicating with SABIC for easy reference.

Thank you for your interest in being a vendor to SABIC.

Best Regards,  
  
Abdulaziz Al-Qahtani  
Sr. Analyst, Supplier Registration and Qualification  
Supplier Qualification Section  
Jubail Procurement Department  
Tel. no.: +966 3 340 1803  
Fax no.: +966 3 340 1850  
Email: qahtaniasm@sabic.com

Saudi Basic Industries Corporation  
Supp. & Mgt. Agreement ID generation:  
P.O. Box 11195  
Jubail Industrial City 31961  
Tel: 0124249200  
Fax: 0124249110

الشركة السعودية للصناعات الأساسية  
إدارة التسجيل  
ص.ب. 11195  
مدينة الجبيل الصناعية 31961  
هاتف: 0124249200  
فاكس: 0124249110

24/04 2012 14:14 #1277 P.001/001

الشركة السعودية للكهرباء  
Saudi Electricity Company

التخطيط والبرامج  
قطاع العقود  
مكتب مدير إدارة العقود - مبنى رقم ٦  
لكفس: ٤٠٨٠٢٣٣

الرقم: ١٣٠٢١٢٠١ / ١٣٠٢١٢٠١  
التاريخ: ٢٠١٢ / ٤ / ٢٤

المادة / مؤسسة الشرق الأوسط للخدمات الفنية  
الكفس: ٢٤٢٤٩٢٤ (٠١)

عالية المدير العام  
الموضوع: إشعار بتأهيل لمشاورتي التوزيع "تسليم مقايح" لعام ٢٠١٢

السلام عليكم ورحمة الله وبركاته،،،  
بسر الشركة السعودية للكهرباء أن تيقنكم أنه قد تم تأهيلكم لمشاورتي التوزيع "تسليم مقايح" لعام ٢٠١٢م لتحاليل المذكورة أعلاه.

مجان التأهيل	الجهد
الكابلات الأرضية	حتى جيد ٣٤,٥ كلف

كما أن استمرار تأهيلكم يعتمد على مايلي:  
١- المشاركة في المناقصات التي يتم تدويركم لها.  
٢- قدراتكم الفنية والمالية المستمرة.  
٣- أدائكم لمشاورتي الشركة السعودية للكهرباء التي تلتزم من قبلكم إن وجدت.

توجهتكم بتأكيد استلامكم لهذا الخطاب على الكفس: (٠١) ٤٠٨٠٢١١١ أو إرسال صورة تأكيد الاستلام على البريد الإلكتروني BSS@shuibani@sec.com.sa ولذا كانت لديكم أية استفسارات الرجاء الاتصال بمدير دائرة عقود التوزيع والتوزيع على الهاتف رقم ٤٠٨٠٢٠١٥ (٠١)، بريد الإلكتروني CRCGDDV@sec.com.sa أو بالمهندس بسام السعيداني على الهاتف رقم ٤٠٨٠٢٣٩٩ (٠١)، ولكم تحياتي،،،

إبراهيم بن سلمان العيسى  
مدير إدارة العقود بتأهيل - منطقة أعمال الوسطى

التوقيع:   
الاسم: إبراهيم بن سلمان العيسى  
الوظيفة: مدير إدارة عقود تأهيل الأعمال

الشركة السعودية للكهرباء  
Saudi Electricity Company

3170  
31 July 2011

MIDDLE EAST TECHNICAL SERVICES EST  
Fax No. (01) 242 4924

Attention: General Manager

Subject: **Advance Pre-qualifications for Transmission Projects**

Gentlemen:

Reference is made to your Advance Pre-qualification letter submitted to SEC, requesting pre-qualification for **Transmission Underground Projects up to 132kV**.

A thorough analysis of your request has now been completed. Saudi Electricity Company (SEC) regrets to inform you that your company has not been selected to be added to the List of Advanced Pre-Qualified Bidders for the type of Projects being requested at this stage. However, SEC is accepting to give your company, the chance to be awarded only one of SEC future Transmission Projects under the following category:

**1. Under Ground Cable (up to 132kV)**

The above category will be your initial Stage, and your Performance in procuring that project will be the basis of evaluating adding you to the List of Advanced Pre-Qualified Bidders for this type of Projects.

In view of this, you will be Invited accordingly, when there is similar project category as indicated above for open bidding; however when you are determined to be the lowest successful bidder in any tender, your participation in any other tenders will be put On-Hold.

If you have any question, you may contact Mr. Leon B. Magpusao, Jr. on Tel. No. (03) 858-6730 or thru e-mail address: 66973@sec.com.sa

Kindly acknowledge receipt of this letter by signing on the space provided below and re-fax this page back to us thru Fax No. (03) 858-6733 for our file.

Very truly yours,  
  
ABDULLAH S. AL-AMER, Manager  
Transmission Contracts Division  
Contracting Department - EOA

**Acknowledged Receipt:**  
(Please send to Fax No. 858-6733)

Name in Print & Signature: **SENT BY FAX**  
Date: \_\_\_\_\_  
CC: Manager - TSSD - (01) 499-7151 DATE \_\_\_\_\_

**Letters of Recommendation**



الشركة السعودية للكهرباء  
Saudi Electricity Company

فرع المنطقة الوسطى  
الرياض 11491  
المنطقة الشرقية السعودية  
P.O. BOX 4323 RIYADH 11491  
SAUDI@SEC.CO.SA

Ref. No. :- 1814  
Date :- 15/02/2005.

**To :- Mr. S. Ammar, Power & Telecom Dept. Manager**  
Middle East Technical Services Est. (METS)  
Post Office Box 4323, Riyadh 11491  
Tel: - 2424923, Fax: - 2424924

**Subject:- Approval of QA/QC Plan**  
SEC-COA Contract # 10331013/00


**Greetings,**

With reference to your letter # ML 20050201 -2009 dated February 1, 2005 sent to us along with QA/QC Plan for the above-mentioned Project. Please be informed that the proposed QA/QC Plan is already approved under the Reference: - METS-QAQC-PL-12-2004. Whenever required by SEC, you are requested to review and update the QA/QC Plan according to SEC-Project requirements.

**Best Regards,**



Eng. / Khalid Al-Ali  
Director, Telecommunications Department



الشركة السعودية للكهرباء  
Saudi Electricity Company

21 May 2013

**MIDDLE EAST TECHNICAL SERVICES EST.**  
C.R No. 0910187536  
Fax No. 01 2424 924

Attention: General Manager

**Subject: Advance Pre-qualifications for Transmission Projects**

Gentlemen:

Reference is made to your Advance Pre-qualification Documents submitted to Contracting Department - Central Operating Area in Riyadh requesting upgrading your pre-qualification for Transmission Underground Cable Project up to 132kV.


A thorough analysis of the documents has now been completed. Saudi Electricity Company (SEC) is pleased to inform you that your company has been upgraded in the List of Advanced Pre-Qualified Bidders for Transmission Underground Cable Projects to the following category:

**1) Under Ground Cable Project up to 132kV, in all SEC operating areas**

If you have any questions, you may contact Mr. Amin C. Badron on Tel. No. (03) 858-6534 or e-mail address: [aminbadron@se.com.sa](mailto:aminbadron@se.com.sa)

Kindly acknowledge receipt of this letter by signing on the space provided below and return this page back to us thru Fax No. (03) 858-6733 for our file.

Very truly yours,




ABDULLAH S. AL-AMFR, Manager  
Transmission Contracts Division  
Contracting Department - SEC

**Acknowledged Receipt:**  
Please return Fax No. 03-858-6733

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

Ch. SSD Manager: 01-498 7131  
Ch. COA Manager: 01-498-051



الشركة السعودية للكهرباء  
Saudi Electricity Company

OCT-03-2011 09:24PM FROM: COOTMG  
Generation Technical Support  
Generation Operations Sector  
Central Operating Area  
Tel. +966-7777 Ext.18030  
Fax. +966-7777 Ext.18031  
E-mail: COOTMG@se.com.sa

Al-Marooj Area  
P.O. Box 57, Riyadh 11413  
Kingdom of Saudi Arabia

Ref. No. 020150/049/111  
Date: 3 October 2011

**To : M/S METS**  
**Attn. : Mr. Ahmed Mohammed Majrashi**  
**CC : N/A**  
**Fax : 01-2424924**  
**Phone : 01-2424923**

**Subject : Pre-Qualification for High Voltage Underground Cable Laying**


**Greetings,**

After going through the process of Pre-qualification, we are pleased to inform that, M/S METS is declared qualified with Saudi Electricity Company for the following services:

No.	Description	Database Corresponding #	Limitation	Validity
1	Cable Laying and Termination		High Voltage Cable Laying, Testing & Commissioning	2 Years

Please note that by virtue of this letter you are qualified for the above-mentioned service(s) at all Operating Areas of Saudi Electricity Company. Also, please ensure you are registered with SEC Contracting Department.

**Best Regards,**  
Department Manager, GTSD



Mgrs (GTSD, Al. OA),  
Mgrs (GPPC, Al. OA)

Div Mgrs (GARD, sP. OA)  
Doc Base File

Letters of Recommendation



DUPLICATE ORIGINAL

نسخة أصلية مزوجة

CONTRACT NO. 4400011804

رقم العقد : ٤٤٠٠٠١١٨٠٤

**GENERAL MAINTENANCE FOR UNDERGROUND CABLES SYSTEM IN GRID MAINTENANCE - CENTRAL OPERATING AREA**

(الصيانة العامة للكابلات الأرضية - بالمنطقة الوسطى)

IN WITNESS thereof, the parties have executed this CONTRACT in duplicate, intending each duplicate copy to serve as an original, as of the effective date set forth above.

وإيقاعاً لما تقدم وقع الطرفان هذا العقد على نسختين نتمتعير كل نسخة منهما أصلياً، بحيث يصبح ساري المفعول في التاريخ المبين أعلاه.

CONTRACT NO. 4400011804

رقم العقد : ٤٤٠٠٠١١٨٠٤

This CONTRACT is made and entered into effective as of the 22<sup>nd</sup> day of Shawwal 1440, corresponding to the 30<sup>th</sup> day of June 2019 and, unless terminated sooner as provided for herein, shall continue in effect through the 30<sup>th</sup> day of Dhu al-Hijja 1444 corresponding to the 29<sup>th</sup> day of June 2022

أبرم هذا العقد اعتباراً من اليوم السابع والعشرون من شهر شوال ١٤٤٠هـ الموافق لليوم الثلاثون من شهر يونيو ٢٠١٩م ويؤمى ساري المفعول لغاية اليوم الثلاثون من شهر ذو الحجة ١٤٤٤هـ الموافق لليوم التاسع والعشرون من شهر يونيو ٢٠٢٢م ما لم يبلغ قبل تاريخ انتهاء العقد.

by and between

بين كل من

**NATIONAL GRID SA**  
Kingdom of Saudi Arabia, ("COMPANY"), represented by **IBRAHIM F. AL JARBOU** as Vice President, Grid Maintenance Business Unit

الشركة الوطنية لنقل الكهرباء  
بالمملكة العربية السعودية ("الشركة")، ويمثلها:  
إبراهيم فهد الجربوع بصفته نائب الرئيس لشؤون الصيانة

and

و

**MIDDLE EAST TECHNICAL SOLUTIONS EST.**

مؤسسة الشرق الأوسط للحلول التقنية

having offices at Riyadh, Commercial Registration Number 1010182576, issued at Riyadh on 15/04/1424. ("CONTRACTOR"), represented by **WON KOO KWON** as Chief executive officer.

التي لها مكتب في الرياض، سجل تجاري رقم ١٠١٠١٨٢٥٧٦ صادر من الرياض بتاريخ ١٥/٠٤/١٤٢٤ ("المقاول")، ويمثلها **وون كو كوون** بصفته المدير التنفيذي.

The parties hereby agree to the following:

إتفق الطرفان على ما يلي:

1. WORK to be performed by CONTRACTOR:

١ - العمل الذي يجب أن ينجزه المقاول:

Perform Maintenance and Repair of General Maintenance for Underground Cables System in Grid Maintenance - Central Operating Area as described in Schedule "B" hereto attached.

عمل الإصلاح (الصيانة العامة للكابلات الأرضية - بالمنطقة الوسطى)، كما هو موضح في الجدول "ب" المرفق.

2. Location of WORK:

٢ - موقع العمل:

COMPANY's Central Operating Area, Saudi Arabia.

منطقة اتصال الوسطى بالشركة، المملكة العربية السعودية

NATIONAL GRIDSA (COMPANY)

الشركة الوطنية لنقل الكهرباء (الشركة)

Signature: \_\_\_\_\_  
Name: **IBRAHIM F. AL JARBOU**  
Title: Vice President, Grid Maintenance Business Unit  
Date: \_\_\_\_\_

التوقيع: \_\_\_\_\_  
الإسم: **إبراهيم فهد الجربوع**  
الوظيفة: نائب الرئيس لشؤون الصيانة  
التاريخ: **2019.06.27**

CONTRACTOR: MIDDLE EAST TECHNICAL SOLUTIONS EST.

المقاول: مؤسسة الشرق الأوسط للحلول التقنية

Signature: \_\_\_\_\_  
Name: **WON KOO KWON**  
Title: CEO  
Date: **June 30, 2019**

التوقيع: \_\_\_\_\_  
الإسم: **WON KOO KWON**  
الوظيفة: **CEO**  
التاريخ: **June 30, 2019**

Witness:

شاهد:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

التوقيع: \_\_\_\_\_  
الإسم: \_\_\_\_\_

Witness:

شاهد:

Signature: \_\_\_\_\_  
Name: \_\_\_\_\_

التوقيع: \_\_\_\_\_  
الإسم: \_\_\_\_\_



**Letters of Recommendation**


  
 شركة بصحة العمرة المقاولات  
**ARABIAN BEMCO CONTRACTING CO. LTD.**  
 (Incorporated in Saudi Arabia)  
 المملكة العربية السعودية - الرياض

Date : 04 April, 2005

**To Whom It May Concern**

This is to be certified that M/s. Middle East Technical Service Est. (METS) has participated in PP9 Fast Track Project (SEC-COA Contract No. 10421119/00) with Arabian BEMCO Contracting Co., Ltd. for installation of 132kV and 380kV cable circuits for E-Block Extension Project.

METS has performed the Engineering & Design, Supply, Installation & Testing & Commissioning for the following bill of materials :

**380kV Cable & Accessories:**

380kV 1Cx630Sq.mm Cu/XLPE Cable	: 4.800M
1Cx350Sq.mm Bonding Cable	: 1.680M
380kV Cable SF6 Sealing Ends	: 12 Sets
380kV Link Box with SVL (LB-3AB)	: 02 Sets
380kV Link Box (LB-3B)	: 02 Sets

**132kV Cable & Accessories:**

132kV 1Cx1000Sq.mm Cu/XLPE Cable	: 5.943M
1Cx270Sq.mm Bonding Cable	: 5.018M
132kV Cable SF6 Sealing Ends	: 06 Sets
132kV Cable Outdoor Sealing Ends	: 06 Sets
132kV Cable Insulated Joint	: 06 Sets
Outdoor Steel Structure for Outdoor Sealing End	: 06 Sets
132kV Link Box with SVL (LB-3AB)	: 04 Sets
132kV Link Box (LB-3B)	: 04 Sets

PP9 Block-E extension was a rush nature project for which the installation of eight (8) GT Units has been done. METS under their scope of work has installed two circuits of 380kV XLPE cable and two circuits of 132kV XLPE cable (including cable pulling works) with route length of 750M and 1050M respectively.

During execution of METS scope of work we found that they are well organized and fulfilling their commitments & deadlines on time with the client. METS have carried out their work with quality service and high workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves.

  
**GHALEB HUSSEIN**  
 PROJECT MANAGER  
 PP9-E BLOCK EXTENSION PROJECT  
 RIYADH








  
 شركة المقاولات الوطنية المحدودة  
**NATIONAL CONTRACTING CO. LTD.**  
 (Incorporated in Saudi Arabia)  
 المملكة العربية السعودية - الرياض

Date : 02 April, 2005

**قسم توليد الطاقة**  
Power Projects Division

**To Whomsoever It May Concern**

This is to certify that M/S Middle East Technical Services Est. (METS) have completed SEC WOA Contract No. 20821039/00 : Construction of 380kV - Underground Cable Works Associated Rabiqah Power Plant Extension Project Stage VII for six ( 6 ) Cable Circuits.

**METS has performed the Site Survey, Engineering & Design, Supply, Installation, Testing & Commissioning for the following Bill of Materials:-**

**380kV Cable & Accessories:**

380kV, Cable Laying for 1C X 800mm <sup>2</sup> Cu /XLPE Cable.	: 9800 M
380kV, Transformer Sealing Ends	: 24 Nos.
380kV, SF6 Sealing Ends	: 18 Nos.
380kV Link Box without SVL, 3-1 way	: 6 Nos.
380kV Link Box with SVL, 3-1 way	: 6 Nos.
Supply /Installation of UPN Supports and Trefoil Cleats	: 1 Lot
PD Test	: 6 Circs

During execution of METS scope work we found that they are well organized and fulfilling their commitments & deadlines on time with client. METS have carried out their work with quality Service and high Workmanships.

However, this certificate shall not deemed to have relieved METS of their obligations with respect to defective workmanship, Material or Equipment made known within the guarantee / warranty period.

**For National Contracting Company Ltd.**  
  
 Engr. Fahad L. Al-Sharief  
 Project Manager






  
 شركة المقاولات الوطنية المحدودة  
**NATIONAL CONTRACTING CO. LTD.**  
 (Incorporated in Saudi Arabia)  
 المملكة العربية السعودية - الرياض

Date : 02 November, 2011

**قسم توليد الطاقة**  
Power Projects Division

**To Whomsoever It May Concern**

This is to certify that M/S Middle East Technical Services Est. (METS) have completed SEC WOA Contract No. 20721004/00: Construction of 380kV - Underground Cable Works Associated Rabiqah Power Plant Extension Project Stage V for nine (9) Cable Circuits.

**METS has performed the Site Survey, Engineering & Design, Supply, Installation, Testing & Commissioning for the following Bill of Materials :-**

**380kV Cable & Accessories:**

380kV, Cable Laying for 1C X 800mm <sup>2</sup> Cu /XLPE Cable.	: 9315 M
380kV, Transformer Sealing Ends	: 36 Nos.
380kV, SF6 Sealing Ends	: 27 Nos.
380kV Link Box without SVL, 3-1 way	: 9 Nos.
380kV Link Box with SVL, 3-1 way	: 9 Nos.
Supply /Installation of UPN Supports and Trefoil Cleats	: 1 Lot
PD Test	: 9 Circuits

During execution of METS scope work we found that they are well organized and fulfilling their commitments & deadlines on time with client. METS have carried out their work with quality service and high workmanships.

However, this certificate shall not deemed to have relieved METS of their obligations with respect to defective workmanship, Material or Equipment made known within the guarantee / warranty period.

**For National Contracting Company Ltd.**  
  
 Engr. Fahad L. Al-Sharief  
 Project Manager






  
 الشركة السعودية للكهرباء  
**Saudi Electricity Company**

Date : 02 November, 2011

**TO WHOM IT MAY CONCERN**

We would like to inform for your kind knowledge and information that M/s Middle East Technical Services Est. (METS) as Sub Contractor have successfully completed the works for SEC WOA under Contract No.- 20721004/00 - Construction of 380kV Underground Cable Works associated with Rabiqah Power Plant Extension Project consisting of nine (9) Cable Circuits for Stage V and six (6) Cable Circuits for Stage VII.

This certificate is being issued on the request of M/s Middle East Technical Services Est. (METS) without any obligation to SEC.

Best regards,  
  
 Engr. Fahad L. Al-Sharief  
 Projects Manager (A/E)



**Letters of Recommendation**

**شركة لارسن أند تمبرو العربية السعودية ذ. م. م.**  
**LARSEN & TOUBRO SAUDI ARABIA LLC**

To Whom It May Concern

17 March 2009

This is to certify that M/s Middle East Technical Services Est. (METS) has completed the Project for SEC EOA Contract No. : 83728/00 - Power Supply to Saudi Aramco's Qatif / Abusata Field Development Project with us under the following Scope of Supply / Work on May, 2005 in Juaymah , KSA.

METS has performed the Design, Supply, Installation, Testing and Commissioning including for LS Cable and Accessories as per the following Bill of Materials:-

**230 kV Cable Accessories:-**


- Transformer Sealing Ends for 230kV, 1C x 2000 mm<sup>2</sup> XLPE Cu. Cable : 7 Nos.
- GIS Sealing Ends for 230kV, 1C x 2000 mm<sup>2</sup> XLPE Cu. Cable : 7 Nos.
- Outdoor Sealing Ends for 230kV, 1C x 1200 mm<sup>2</sup> XLPE Cu. Cable : 7 Nos.
- Testing and Commissioning for 230kV Cable Circuits : 5 Ckts.

**115kV Cable Accessories:-**

- Transformer Sealing Ends for 115kV, 1C x 2000 mm<sup>2</sup> XLPE Cu. Cable : 13 Nos.
- GIS Sealing End for 115kV, 1C x 2000 mm<sup>2</sup> XLPE Cu. Cable : 16 Nos.
- Outdoor Sealing Ends for 115kV, 1C x 2000 mm<sup>2</sup> XLPE Cu. Cable : 4 Nos.
- Testing and Commissioning for 115kV Cable Circuits : 3 Ckts.

This certificate has been granted to METS upon their request without any responsibility on Larsen & Toubro Saudi Arabia LLC.

*D. Biswas*  
**D. Biswas**  
 Project Manager  
 Larsen & Toubro Saudi Arabia LLC



**MEEDCO**  
 MIDDLE EAST ENGINEERING & DEVELOPMENT CO. LTD.

MIDDLE EAST ENGINEERING & DEVELOPMENT CO. LTD.  
 P.O. Box 77248, Al Khobar 31852, K.S.A.  
 TEL: 013-802 9162 FAX: 013-845 1099  
 E-MAIL: meedco@meedco.com.sa  
 CR: 2051039087

Middle East Technical Service Est. (METS)  
 P.O. Box-4323, Riyadh-11491, KSA

Date: 26 Safar 1438H  
 26 November 2016G  
 Ref. No.: MED/SS383/METS/001

Contract No : 31033184/00 Construction of Al-Fardous 380/230/115/13.8kV BSP  
 Subject : **Work Completion Certificate "Al-Fardous 380kV BSP"**

**To Whom it May Concern:**

This is to certify that M/s Middle East Technical Services Est. (METS) has completed the Project for SEC-EOA construction of Al-Fardous 380kV BSP with us under their following scope of work in month of November 2014 & January 2016 at Dammam area, KSA.

METS performed the Testing & Commissioning Services for below said works:

- Hipot testing works for 380kV GIS : 1 Set
- Hipot testing works for 115kV GIS : 1 Set

During the execution of METS Scope of Work, we found that they are well organized and fulfilling their commitments and deadline on time with Client. METS have carried out their work with Quality Service and High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves and does not release them from contractual obligations toward MEEDCO / SEC-EOA.

Sincerely yours,



*J.H. Lim*  
**J.H. Lim**  
 Project Director  
 For Middle East Engineering & Development Co. Ltd.(MEEDCO)  
 Substation Projects Division-Dammam

**MEEDCO**  
 MIDDLE EAST ENGINEERING & DEVELOPMENT CO. LTD.

MIDDLE EAST ENGINEERING & DEVELOPMENT CO. LTD.  
 P.O. Box 77248, Al Khobar 31952, K.S.A.  
 TEL: 013 802 9162 FAX: 013-845 1099  
 E-MAIL: shedgum2@meedco.com.sa  
 CR: 2051039087

Middle East Technical Service Est. (METS)  
 P.O. Box-4323, Riyadh-11491, KSA

Date: 26 Safar 1438H  
 26 November 2016G  
 Ref. No.: MED/SS385/METS/001

Contract No : 4400001361 Construction of Shedgum2 380/115/13.8kV BSP  
 Subject : **Work Completion Certificate "Shedgum2 380kV BSP"**

**To Whom it May Concern:**

This is to certify that M/s Middle East Technical Services Est. (METS) has completed the Project for SEC-EOA construction of Shedgum2 380kV BSP with us under their following scope of work in month of March - May 2016 at Dammam area, KSA.

METS performed the Testing & Commissioning Services for below said works:

- Hipot testing works for 380kV GIS : 1 Set
- Hipot testing works for 115kV GIS : 1 Set
- Electrical and Hipot test for 115kV Power Cables (RL-400mtr) : 26 Circuits

During the execution of METS Scope of Work, we found that they are well organized and fulfilling their commitments and deadline on time with Client. METS have carried out their work with Quality Service and High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves and does not release them from contractual obligations toward MEEDCO / SEC-EOA.

Sincerely yours,



*E.S. Lee*  
**E.S. Lee**  
 Project Manager  
 For Middle East Engineering & Development Co. Ltd.(MEEDCO)  
 Substation Projects Division-Dammam

**شركة الشرق الأوسط للهندسة والتعمية المحدودة.**  
**MIDDLE EAST ENGINEERING & DEVELOPMENT CO., LTD.**

MIDDLE EAST ENGINEERING & DEVELOPMENT CO., LTD.  
 P.O.Box 6839 - Jeddah 21452  
 Kingdom of Saudi Arabia  
 Tel: (012) 290 6357 Fax : (012) 290 6802  
 E-mail: hsewezo@meedco.com.sa  
 Capital SR. 10,000,000 Fully Paid

21167 - جدة - ٢١٤٥٢  
 المملكة العربية السعودية  
 هاتف: ٢٩٠ ٦٣٥٧ - (٠١٢) ٢٩٠ ٦٣٥٧  
 بريد الإلكتروني: hsewezo@meedco.com.sa  
 رأس المال ١٠,٠٠٠,٠٠٠ ريال سعودي مدفوع بالكامل

**COMPLETION OF CN# 4400004489 Construction of Al Samir 380/110/13.8kV BSP.**

**To Whom It May Concern:**

This is to certify that M/s METS has completed the Testing & Installation works at Al Samir 380/110/13.8kV BSP, as below:

- HV testing works for 380kV GIS - 01 Nos
- HV testing works for 110kV GIS - 01 Nos

During the execution of M/s. METS scope of work, we found that they are well organized and fulfilling their commitments and deadline on time with client. M/s METS have carried out their work with Quality Service & High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves and does not release them from contractual obligations towards MEEDCO/ SEC - WOA.

*Project Manager*  
**Project Manager**








**Letters of Recommendation**

فرع المنطقة الوسطى  
 هاتف: +966-1-414-2222  
 الفاكس: +966-1-414-2222  
 البريد الإلكتروني: P.R.CEN@SECO.COM  
 المملكة العربية السعودية



**الشركة السعودية للكهرباء**  
 Saudi Electricity Company

Ref. No. :- 1418  
 Date :- 17/04/2004.

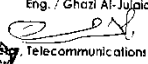
**To Whom It May Concern**

This is to be certified that Middle East Technical Services Est. (METS) has participated in SEC project (Contract No. 314/22/3 - circuits 9015-8025 and 9015-8014) for following Scope of Work:-

- Pilot Cables and accessories:-**
  - Cable Splicing (Nos. 6 joint/boxes / Kits)
  - Erection of Terminal Boxes (Nos. 4) and Optical Distribution Frames-ODF (Nos.4)
  - Testing & Commissioning
- Pilot cables and accessories :-**
  - Cable Joining (Nos. 11 joint/Kits)
  - Erection of Pilot Cable Termination Boxes (Nos. 2)
  - Installation of Line Isolators, Transformers (Nos. 8 Lix)
  - Testing & Commissioning


During execution of METS scope of work, we found that they are well organized and fulfilling their commitments and they performed all their works in successfully and timely fashion utilizing industry standards Procedures, Methods and Professional Tools

Best Regards,



Eng. / Ghazi Al-Julaidi  
 Director, Telecommunications Department

فرع المنطقة الوسطى  
 هاتف: +966-1-414-2222  
 الفاكس: +966-1-414-2222  
 البريد الإلكتروني: P.R.CEN@SECO.COM  
 المملكة العربية السعودية



**الشركة السعودية للكهرباء**  
 Saudi Electricity Company

Ref. No. :- 1418  
 Date :- 17/04/2004.

**To Whom it May Concern**

This is to be certified that M/s. Middle East Technical Services Est. (METS) has participated in 380kV Cable project circuits between JAMLA-KMT substations under SEC-WOA Contract # 20331002/00, with LS Cable (LSC) & Saudi Services for Electro-Mechanic Works Co Ltd. (SSEM).

METS has performed the Supply, Installation, and Testing & Commissioning for the following bill of materials:-


- Pilot Cables & Accessories:-**

✓ Pilot Cable ( 5 pairs / 1.4mm)	:- 9.7 km
✓ Pilot Cable (20 pairs / 0.9mm)	:- 9.7 km
✓ Pilot Cable Joint Kit (5 pairs)	:- 17 Nos.
✓ Pilot Cable Termination Kit (20 pairs)	:- 17 Nos.
✓ Pilot Cable Termination Kit (5 pairs)	:- 02 Nos.
✓ Pilot Cable Termination Kit (20 pairs)	:- 02 Nos.
- Fiber Optic Cable Accessories:-**

✓ Fiber Optic Cable Joint Kit (24F)	:- 04 Nos.
✓ Fiber Optic Cable Termination Kit (24F)	:- 02 Nos.


During execution of METS' scope of work, we found that they are well organized and fulfilling their commitments & deadlines in time with client. METS have carried out their works with quality services and high workmanship.

This Certificate will not relieve METS from their obligations and it has been granted to METS upon their request for whatsoever purpose it serves.



J.S. Yang  
 Project Manager  
 LS Cable

فرع المنطقة الوسطى  
 هاتف: +966-1-414-2222  
 الفاكس: +966-1-414-2222  
 البريد الإلكتروني: P.R.CEN@SECO.COM  
 المملكة العربية السعودية



**الشركة السعودية للكهرباء**  
 Saudi Electricity Company

Ref. No. :- 2045  
 Date :- 11/ 08/2004.

**To Whom It May Concern**

This is to be certified that M/s. Middle East Technical Services Est. (METS) has participated in 380kV Cable project circuits between JEDDAH NORTH-FAYSALLIAH substations under SEC-WOA Contract # 20331002/00, with LS Cable (LSC) & Saudi Services for Electro-Mechanic Works Co Ltd. (SSEM).

METS has performed the Supply, Installation, and Testing & Commissioning for the following bill of materials:-


- Pilot Cables & Accessories:-**

✓ Pilot Cable ( 5 pairs / 1.4mm)	:- 9.1 km
✓ Pilot Cable (20 pairs / 0.9mm)	:- 9.1 km
✓ Pilot Cable Joint Kit (5 pairs)	:- 14 Nos.
✓ Pilot Cable Termination Kit (20 pairs)	:- 14 Nos.
✓ Pilot Cable Termination Kit (5 pairs)	:- 02 Nos.
✓ Pilot Cable Termination Kit (20 pairs)	:- 02 Nos.
- Fiber Optic Cable Accessories:-**

✓ Fiber Optic Cable Joint Kit (24F)	:- 04 Nos.
✓ Fiber Optic Cable Termination Kit (24F)	:- 02 Nos.


During execution of METS' scope of work, we found that they are well organized and fulfilling their commitments & deadlines in time with client. METS have carried out their works with quality services and high workmanship.

This Certificate will not relieve METS from their obligations and it has been granted to METS upon their request for whatsoever purpose



J.S. Yang  
 Project Manager  
 LS Cable

فرع المنطقة الوسطى  
 هاتف: +966-1-414-2222  
 الفاكس: +966-1-414-2222  
 البريد الإلكتروني: P.R.CEN@SECO.COM  
 المملكة العربية السعودية



**الشركة السعودية للكهرباء**  
 Saudi Electricity Company

Ref. No. :- 2045  
 Date :- 11/ 08/2004.

**TO WHOM IT MAY CONCERN**


This is to certify that M/s. Middle East Technical Services Est. (METS) has participated in many SEC projects for following Scope of Supply / Work:-

Design, Engineering, Supply, Installation, Testing and Commissioning of following Telephony facilities with all accessories, including all wirings, terminations, adaptation and integration into Main PBX in Head Office.

- One (1)-PAX with eight (8) Telephone Sets at Substation 8067
- One (1)-PAX with eight (8) Telephone Sets at Substation 8097
- One (1)-PAX with fifteen (15) Telephone Sets at Power Plant (PP-5)
- One (1)-PAX with eight (8) Telephone Sets at Substation 8102
- Enhancement of PBX - DPABX links in the Head office through establishment of redundant Optical fiber link, including digging, cable laying, splicing and terminations.
- Upgrade of Telephony Networking in Control Center Building / Head Office.

All works were performed in successfully and timely fashion utilizing industry standards Procedures, Methods and Professional Tools.

This was issued based on their request.



Eng. / Ghazi Al-Julaidi  
 Director, Telecommunications Department

**Letters of Recommendation**

**فرع المنطقة الوسطى**  
 هاتف: ٠٩٦٦-١-١٧٢-٢٢٢٢  
 فاكس: ٠٩٦٦-١-١٥٠-٧٢٢  
 P.R.CEN@SECO.COM  
 P.O. Box 1111  
 المملكة العربية السعودية

**الشركة السعودية للكهرباء**  
 Saudi Electricity Company

Ref. No. :- 2045  
 Date :- 27/04/2004.


**TO WHOM IT MAY CONCERN**

This is to certify that M/s. Middle East Technical Services Est. (METS) has participated in SEC project ( Contract # 517/23/3) for following Scope of Supply / Work:-

Design, Engineering, Supply, Installation, Testing and Commissioning of following Equipments and Materials:-

- 1- Six(6)-PAX with sixty four (64) Telephone Sets, including all wirings and terminations in each of six (6)-sites, and integration into Main PABX in Head Office.
- 2- Two (2) HDSL-links including Terminal equipments and 12 pairs-pilot cables.
- 3- One (1) 12pair-pilot cable link including joints and terminations.
- 4- Two(2)-48VDC systems( 48VDC/50A/200A.h)
- 5- one(1) Complete UPS system for Control Center
- 6- Two(2)- Main Distribution Frames

METS performed their work as per SEC-COA specification and their activities have been completed in its due time with quality service and workmanship.

  
 Eng. Ghazi Al-Jalidi  
 Director, Telecommunications Department

رقم الترخيص: ٤٤٤٤٤٤٤٤  
 التاريخ: ٢٧/٠٤/٢٠٠٤  
 الترخيص:

**الاتصالات السعودية**  
 SAUDI TELECOM

**شهادة إنجاز**

تشهد شركة الاتصالات السعودية في منطقة الجنوب أنه بموجب عقد المقاسولة رقم (224001) وتاريخ (1424/5/5هـ) بيننا وبين مؤسسة الشرق الأوسط للخدمات الفنية (METS)، قام المقاول المتكبر بإنجاز تنفيذ المشروع المشار إليه (تعميد وتوصيل كابلات الالغاب البصرية وتركيب النهايات الطرفية وصنع الاختبارات) طبقاً للشروط والمواصفات الفنية المنصوص عليها بال عقد ومستويات هندسية ممتازة.

منحنا هذه الشهادة للمقاول بناء على طلبه دون أدنى مسؤولية على شركة الاتصالات السعودية.

والله الموفق،،

رئيس الشاغات الفنية - للطااع الجنوب  
 جبرين م. الجبرين



مقولة جازن للاتصالات: صرنا 440 جازن هاتف ٠٩٦٦-٦-١500222 فاكس ٠٩٦٦-٦-2221560  
 Jaber District - P. O. Box 440 Jazan Telephone - 966-7-3220151 Facsimile - 966-7-3221560

  
**المشارق**  
 AL MASHARIQ

**COMPLETION CERTIFICATE**

To Whom It May Concern:

This is to certify that M/s Middle East Technical Services Est. (METS) has completed successfully the installation HV Termination ( BRUGG Make ) for SEC COA Contract No. : 10431157/00 - Transformer Reinforcement 132/33kV S/S 8902 and 8903 in HAIL Area under their following Scope of Work as follows :-

**A. - S/S 8902 & 8903 :-**

- Installation of GIS Sealing Ends for 132kV , 1C x 1000 mm2 XLPE CU Cable ( BRUGG Type -> TF 1.170 - 12 ) :- 3 SETS
- Installation of Transformer Sealing Ends for 132kV, 1C x 1000 mm2 XLPE Cu Cable ( BRUGG Type -> TT 1.170-12 ) :- 3 sets

Moreover, Testing and Commissioning for the above circuits were completed as per SEC COA Standards and Specifications.

During execution of METS Scope of Work we found that they are well organized and fulfilling their commitments & deadlines on time with the Client. METS have carried out their work with Quality Service and High Workmanships.

This certificate does not release METS from Contractual obligations towards AMC / SEC-COA.

  
 R. Sivaprasad  
 Project Manager,  
 Al Mashariq Co, Hail  
 ( Stamp )



AL-MASHARIQ TRADING & CONTRACTING CO.  
 P.O. Box 1148, Dammam 31461, Kingdom of Saudi Arabia.  
 Tel: +966 3 8423336 - +966 3 8421660 Fax: +966 3 8421658  
 C.R. No. 2939011871

شركة المشارق للتجارة و المقاولات  
 صرنا ٢٤١٠ الصفاة الغربية السعودية  
 تالون: ٠٩٦٦ ٣ ٨٤٢٣٣٣٦ - ٨٤٢١٦٦٠ فاكس: ٠٩٦٦ ٣ ٨٤٢١٦٥٨  
 صرنا جازن رقم: ٢٩٣٩٠١١٨٧١

**NATIONAL CONTRACTING CO. LTD.**  
 (General Liability Company)  
 Address: C/O No. 201/10/10  
 Canal No. 12, Bahig  
 P.O. Box 99, Bahig (1161)  
 Kingdom of Saudi Arabia  
 Telephone: (91) 4628881 882338  
 Fax: (91) 882451  
 E-mail: ncc@ncc.com.sa  
 Website: www.ncc.com.sa  
 Project: TAD Center, Abtaqy Road

شركة المقاولات الوطنية المحدودة  
 (شركة مسؤولية عامة)  
 صرنا ٢٠١/١٠/١٠  
 قناة رقم ١٢، باهق  
 صرنا ٩٩، باهق (١١٦١)  
 المملكة العربية السعودية  
 هاتف: (٩١) ٤٦٢٨٨٨١ ٨٨٢٣٣٨  
 فاكس: (٩١) ٨٨٢٤٥١  
 بريد إلكتروني: ncc@ncc.com.sa  
 الموقع الإلكتروني: www.ncc.com.sa  
 مشروع: مركز تاد، شارع أبهاق

**PERFORMANCE CERTIFICATE**  
( TO WHOM SO IT MAY CONCERN )

03<sup>rd</sup> SEPTEMBER, 2004

This is to certify that M/s. Middle East Technical Services Est. (METS) have completed following 132kV Cable Termination at S/S # 8962, Al-Sharafa, Wadi Area contract # 10331197/00 under our Sub-contract Agreement # NCC-1605/01/10331197-00 (P.O. dated 08.03.04.


1. Termination on 132kV Power Transformer (G&W Make)  
 132kV, 1C, 1000sq mm Cu, XLPE Cable Termination indoor, as - 3 Nos.  
 per G&W Catalogue No. P&B 140.
2. Termination on 132kV GIS (G&W Make)  
 132kV, 1C, 1000sq mm Cu, XLPE Cable Termination indoor, as - 3 Nos.  
 per G&W Catalogue No. P&B 140/5P
3. Termination on Sheath Bonding Cable  
 Termination of Sheath Bonding Cable at Link Box - 1 Cat.


We found METS overall performance to be satisfactory and their activities have been completed in its due time.

This certificate does not release METS from Contractual Obligations towards NCC / SEC-COA.

This certificate is issued at the request of M/s. Middle East Technical Services Est. (METS).

For National Contracting Co. Ltd.

  
 M.A. Bangarajan  
 Project Manager



AL-MASHARIQ TRADING & CONTRACTING CO.  
 P.O. Box 1148, Dammam 31461, Kingdom of Saudi Arabia.  
 Tel: +966 3 8423336 - +966 3 8421660 Fax: +966 3 8421658  
 C.R. No. 2939011871

شركة المشارق للتجارة و المقاولات  
 صرنا ٢٤١٠ الصفاة الغربية السعودية  
 تالون: ٠٩٦٦ ٣ ٨٤٢٣٣٣٦ - ٨٤٢١٦٦٠ فاكس: ٠٩٦٦ ٣ ٨٤٢١٦٥٨  
 صرنا جازن رقم: ٢٩٣٩٠١١٨٧١



**Letters of Recommendation**

فرع المنطقة الوسطى  
 هاتف: ٠٩٢٢-١٠١-٢٠٠٠٠٠٠  
 الفاكس: ٠٩٢٢-١٠١-٢٠٠٠٠٠٠  
 البريد الإلكتروني: P.R.CEN@SECCO.COM  
 المملكة العربية السعودية

الشركة السعودية للكهرباء  
 Saudi Electricity Company

Ref. No. :- 2067  
 Date :- 17/06/2004.

**TO WHOM IT MAY CONCERN**

This is to certify that M/s. **Middle East Technical Services Est. (METS)** has performed successfully UHF Radio project in SEC-COA, for following Scope of Supply / Work:-

Design, Engineering, Supply, Installation, Testing and Commissioning of speech and Data UHF-Radio equipments for following substations:-

- 1- S/S- 8020
- 2- S/S- 8070
- 3- S/S-7234
- 4- S/S-7233
- 5- S/S-7713
- 6- S/S-7223
- 7- S/S-7158

All works were performed in successfully and timely fashion utilizing industry standards Procedures, Methods and Professional Tools.

This was issued based on their request.

Eng. / Ghazi Al-Julaidi  
 Director, Telecommunication Department

الشركة السعودية للكهرباء  
 Saudi Electricity Company

**COMPLETION CERTIFICATE OF "AL-JOUF PROJECT"**

To Whom It May Concern:

This is to certify that M/s Middle East Technical Services Est. (METS) completed SEC-EOA Contract # 30531168/00-New Al-Jouf Power Plant 132KV Substation Project with us under the following scope of supply/work on May 2008 in Al-Jouf area, KSA.

Mets has performed the Engineering, Design, supply and Installation for LS Cable accessories as per the following bill of materials:

- 132KV . 1C x 2000mm<sup>2</sup>.XLPE CU Cable: 2905 m
- GIS sealing end for 132KV . 1C x 2000mm<sup>2</sup>.XLPE CU Cable : 6 Nos

Termination work was completed as per Client requirements and METS performed the work as per SEC-EOA Specification and have shown full support and co-operation to us. METS have carried out the work with Quality Service and High workmanship.

This certificate has been granted to METS upon request for whatsoever purpose it serves.

Abdul Latheef  
 Project Manager

Mohammed Al-Ojaimi Contracting Establishment

**Saudi Electricity Co.**  
 -Power Transmission Business-  
 Consolidated Transmission Area  
 Telecommunication Dept.

الشركة السعودية للكهرباء  
 -نشاط نقل الطاقة-  
 قطاع الشبكة المتكاملة  
 إدارة الاتصالات

Dated: 22 /03/2006G التاريخ: ١٤٢٧ / ٠٤ / ٢٦ هـ

**شهادة الإنجاز الفني**  
**Technical Completion Certificate (T. C. C.)**

Partial Completion.  Final Completion.

Contract No. & Date:	10331013/00, dated: 19-07-2004	رقم العقد وتاريخه:
Contractor's Name:	Middle East Technical Services Est.	اسم المقاول:
Location / Project:	Hail / Replacement of 48V DC systems for all 132KV & some 33KV sites [total of 30 sites]	الموقع / المشروع:
Site Delivery Date:	August 01, 2004	تاريخ استلام الموقع:
Contract Period:	14 Months	مدة العقد:
Contract Completion Date:	September 11, 2005	تاريخ انتهاء العقد:
Actual Completion Date:	March 22, 2006	التاريخ الفعلي لانتهاء:
Delay Period, if Applicable:	10-Months (*)	مدة التأخير (إن وجدت):

Description of Work accepted: وصف الأعمال المستلمة:  
**Design & Engineering, Manufacturing, Supply, Erection, Testing and commissioning of :-**

- 1- 60Nos. of rectifiers & Accessories/
- 2- 30Nos of Batteries/
- 3- 1Nos. of Battery cell Monitoring System/
- 4- 2-weeks Local Training for SEC Staff

Remarks: ملاحظات:  
 (\*): Contract was extended Ten (10)-months as Compensation for delays out of Contractor's Responsibility. Kindly Ref. to Consolidated Transmission Area' V.P Acceptance and Approval.

**CONTRACTOR'S ACKNOWLEDGEMENT**  
 Name of the Project Manager: اسم مدير المشروع:  
 Contractor's Stamp & Date: ختم المقاول وتاريخه:  
 Signature: التوقيع:

اعتماد الشركة السعودية للكهرباء  
**S.E.C. APPROVAL**

Dr. Reduan Ayadh Al-Dosary / مدير إدارة الاتصالات  
 Mr. Saad M. Al-Obaid / المهندس المشروع

DISTRIBUTIONS:  
 Original - Asset Accounting Division.  
 1<sup>st</sup> copy - Operation Department.  
 2<sup>nd</sup> copy - Contract.

3<sup>rd</sup> copy - Engineering Standards and Quality Division.  
 4<sup>th</sup> copy - Industrial Security Div.  
 5<sup>th</sup> copy - Contracting Department.  
 6<sup>th</sup> copy - P.M.D.

**Saudi Electricity Co.**  
 -Power Transmission Business-  
 Consolidated Transmission Area

الشركة السعودية للكهرباء  
 -نشاط نقل الطاقة-  
 قطاع الشبكة المتكاملة  
 إدارة الاتصالات

Dated: /0 /2009G تاريخ: ١٤٣٠ / ٠ / ١ هـ

**شهادة الاستلام النهائي**  
**Final Acceptance Certificate (F. A. C.)**

Contract No. & Date:	٢٠٠٤/٠٧/١٩ ١٠٣٣١٠١٣/٠٠	رقم العقد وتاريخه:
Contractor's Name:	مؤسسة الشرق الأوسط للخدمات الفنية	اسم المقاول:
Location / Project:	حائل	الموقع / المشروع:

**Work Description :** وصف العمل:  
 Design, Engineering, Supplying, Erection, Testing and commissioning

1. 60 no. of rectifiers & accessories
2. 30 NO. of batteries
3. 1 NO. OF battery cell monitoring system
4. 2 weeks local training
5. Spare parts and maintenance tools
6. Dismantling old system

Site Delivery Date	: July/19/2004	٢٠٠٤/٠٨/٠١	تاريخ تسليم موقع العمل:
Technical Completion Date	: March /22/2006	٢٠٠٦/٠٣/٢٢	تاريخ الإنجاز الفني:
Provisional Acceptance Date:	: MAY/22 /2006	٢٠٠٦ /٠٤/٢٢	تاريخ الاستلام المؤقت:
Final Acceptance Date:	: July /22/2006	٢٠٠٦ /٠٧/٢٢	تاريخ الاستلام النهائي:

**CONTRACTOR'S ACKNOWLEDGEMENT**  
 Name of the Project Manager: اسم مدير المشروع:  
 Contractor's Stamp & Date: ختم المقاول وتاريخه:  
 Signature: التوقيع:

اعتماد الشركة السعودية للكهرباء  
**S.E.C. APPROVAL**

المهندس سعد محمد الحميد  
 مدير إدارة الاتصالات

DISTRIBUTIONS:  
 Original - Asset Accounting Division.  
 1<sup>st</sup> copy - Operation Department.  
 2<sup>nd</sup> copy - Contract.

3<sup>rd</sup> copy - Engineering Standards and Quality Division.  
 4<sup>th</sup> copy - Industrial Security Div.  
 5<sup>th</sup> copy - Contracting Department.  
 6<sup>th</sup> copy - P.M.D.



**Letters of Recommendation**

**"COMPLETION CERTIFICATE FOR PP9, C & D Block Project."**

To Whom It May Concern:

This is to certify that M/s MIDDLE EAST TECHNICAL SERVICES EST. (METS) has completed SEC-COA Contract No. D3809/D380-PP9 C Block Project with us under their following Scope of Work.

METS has performed the MV/LV Cable Laying, Terminations including Testing and Commissioning as per the following Bill of Materials:

S.No.:	Description	Qty.
<b>1. - CABLE LAYING WORKS (including cable dressing, tying and Cable marking)</b>		
For 13.8kV (MV Cables)		
✓	3C x 120mm <sup>2</sup> XLPE Cu Cable	809 M
✓	1C x 300mm <sup>2</sup> XLPE Cu Cable	6,799M
For 4.16kV (MV Cables)		
✓	3C x 150mm <sup>2</sup> XLPE Cu Cable	9,280 M
For 480V (LV Cables)		
✓	1C x 630mm <sup>2</sup> XLPE Cu Cable	128,203 M
✓	1C x 300mm <sup>2</sup> XLPE Cu Cable	9,849 M
✓	3C x 120mm <sup>2</sup> XLPE Cu Cable	1,077 M
✓	3/3C x 91mm <sup>2</sup> XLPE Cu Cable	3,637M
✓	3C x 70mm <sup>2</sup> XLPE Cu Cable	1,367M
✓	3C x 30mm <sup>2</sup> XLPE Cu Cable	3,752 M
✓	3C x 15mm <sup>2</sup> XLPE Cu Cable	1,813 M
✓	3C x 75mm <sup>2</sup> XLPE Cu Cable	765 M
<b>2. - TERMINATION WORKS (including Cable Accessories, Glands and Lug Installation)</b>		
For 13.8kV		
✓	Switchgear Sealing Ends for 3C x 120mm <sup>2</sup> XLPE Cu Cable	26 Nos.
✓	Transformer Sealing Ends for 3C x 120mm <sup>2</sup> XLPE Cu Cable	18 Nos.
✓	Switchgear Sealing Ends for 1C x 300mm <sup>2</sup> XLPE Cu Cable	38 Nos.
For 4.16kV		
✓	Switchgear Sealing Ends for 3C x 150mm <sup>2</sup> XLPE Cu Cable	58 Nos.
✓	Transformer Sealing Ends for 3C x 150mm <sup>2</sup> XLPE Cu Cable	18 Nos.
For 480V		
✓	Termination of Single Core Cable (600/900/1200/150/250)	1,908 Nos.
<b>3. - TESTING AND COMMISSIONING WORKS (loop checking and IR Test)</b>		
For 13.8kV / 4.16 kV (MV)		
✓	Testing and Commissioning for 13.8kV / 4.16kV	798 Core
For 480V (LV)		
✓	Testing and Commissioning for 480 V	1,240 Core

This certificate has been granted to METS upon their request for whatsoever purpose it serves.

*M. Serge Karakachian*  
BEMCO - Project Manager  
(Stamp)

**NATIONAL CONTRACTING CO. LTD.** شركة المقاولات الوطنية المحدودة

General Liability Company  
P.O. Box 96 Al-Khobar 31952  
Kingdom of Saudi Arabia  
Tel: (03) 8823008 / 8823700  
Fax: (03) 8826678  
E-Mail: ncc@ncc.com.sa  
President: Taymour Abdulla Alireza

**نقل والتوزيع**  
Transmission & Distribution Division

Reply to: 422, Khamis Mushayt, Kingdom of Saudi Arabia  
00966 7 235 4317 / 920021331

**COMPLETION CERTIFICATE**

To Whom It May Concern:

This is to certify that M/s Middle East Technical Services Est. (METS) has completed successfully SEC-SOA Contract No. 40531150 / 00 - Reinforcement of Abu Irish 132kV OHTL Project under their following Scope of Work as follows :-

**A. - At JIZAN CPS :-**

- Electrical Test and AC HI POT - Testing and Commissioning for 1600mm<sup>2</sup> , 132kV Power Cable as per SEC SOA Specification , total length approximate 35 Mtr. One end Outdoor Sealing End, the other end is VA TECH GIS Sealing Ends - One (1) circuit only.

**B. - At ABU IRISH S/S :-**

- Electrical Test and AC HI POT - Testing and Commissioning for 1600mm<sup>2</sup> , 132kV Power Cable as per SEC SOA Specification , total length approximate 34 Mtr. One end Outdoor Sealing End, the other end is SIEMENS GIS Sealing Ends - One (1) circuit only.

METS has performed the above Test utilizing their own EHV Resonant Test Equipment from HIGHVOLT Germany ( up to 260kV, 83A, 20 to 300HZ Frequency and 1650nF maximum load capability)

During execution of METS Scope of Work we found that they are well organized and fulfilling their commitments & deadlines on time with the Client. METS have carried out their work with Quality Service and High Workmanship.

This certificate does not release METS from Contractual obligations towards NCC/SEC-SOA.

*S.M. Basheer*  
NCC - Project Manager

A Member of Rezayat Group of Companies

مركز الرياض - ص. ب. ٩٩٦٦ الرياض - الهاتف: (٠١) ٤٧٧٦٠٠٠ - الفاكس: (٠١) ٤٧٧٦١١١ - بريد إلكتروني: info@rezayat.com  
RYAD OFFICE: P.O. Box 996 Riyadh - Tel: (01) 4777561 - Fax: (01) 4779388 - E-Mail: info@rezayat.com  
ASSOCIATED COMPANY: REZAYAT EUROPE LTD. 52, MOUNT STREET, LONDON, W1K 2SP

**ABB Contracting Co. Ltd.** شركة ايه تي بي للمقاولات المحدودة

**COMPLETION CERTIFICATE " ABB - Thorayban Project "**

07 October, 2009

To Whom It May Concern :

This is to certify that M/s Middle East Technical Services Est. (METS) has completed the Project for SEC SRB Contract No. : 4033110100 - Extension of 132/33kV Thorayban S/S in Abha with us under their following Scope of Supply / Work on November, 2006 in Abha Area, KSA.

METS has performed the Engineering, Design, Supply , Installation , Testing and Commissioning for LS Cable and Accessories as per the following Bill of Materials :-

**132kV Cable Accessories :-**

- Transformer Sealing Ends for 132kV, 1C x 1000 mm<sup>2</sup> XLPE Cu. Cable : 6 Nos.
- GIS Sealing Ends for 132kV, 1C x 1000 mm<sup>2</sup> XLPE Cu. Cable : 6 Nos.
- Solid Earthing Link Box (LB-3B) : 2 Nos.
- Link Box with SVL (LB-3AB) : 2 Nos.

During the execution of METS Scope of Work, we found that they are well organized and fulfilling their commitments and deadline on time with Client. METS have carried out their work with Quality Service and High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves.

*Engr. Mohammad Abu-Basha*  
Sr. Project Manager  
ABB Contracting Co. Ltd.  
Jeddah

**ABB**

**ABB Contracting Co. Ltd.** شركة ايه تي بي للمقاولات المحدودة

**COMPLETION CERTIFICATE " ABB - Shudaiq Substation Project "**

07 October, 2009

To Whom It May Concern :

This is to certify that M/s Middle East Technical Services Est. (METS) has completed the Project for SEC SRB Contract No. : 4033114100 - Addition of Two GIS bays at 132kV Shudaiq Substation in Abha with us under their following Scope of Supply / Work on November, 2006 in Abha Area, KSA.

METS has performed the Engineering, Design, Supply , Installation , Testing and Commissioning for LS Cable and Accessories as per the following Bill of Materials :-

**132kV Cable Accessories :-**

- Transformer Sealing Ends for 132kV, 1C x 1000 mm<sup>2</sup> XLPE Cu. Cable : 6 Nos.
- GIS Sealing Ends for 132kV, 1C x 1000 mm<sup>2</sup> XLPE Cu. Cable : 6 Nos.
- Solid Earthing Link Box (LB-3B) : 2 Nos.
- Link Box with SVL (LB-3AB) : 2 Nos.

During the execution of METS Scope of Work, we found that they are well organized and fulfilling their commitments and deadline on time with Client. METS have carried out their work with Quality Service and High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves.

*Engr. Mohammad Abu-Basha*  
Sr. Project Manager  
ABB Contracting Co. Ltd.  
Jeddah

**ABB**

**Letters of Recommendation**

**Saudi Electricity Co.**  
-Power Transmission Business-  
Consolidated Transmission Area  
Telecommunication Dept.

التاريخ: 25 /10/ 2007G

شهادة الاستلام الإبتدائي  
**Preliminary Acceptance Certificate (P. A. C.)**

Contract No. & Date:	10331013/00, dated: 19-07-2004	رقم العقد وتاريخه:
Contractor's Name:	Middle East Technical Services Est.	اسم المقاول:
Location / Project:	Hall / Replacement of 48V DC systems for all 132KV & some 33KV sites (total of 30 sites)	الموقع / المشروع:
Site Delivery Date:	August 01, 2004	تاريخ استلام الموقع:
Technical Completion Date:	March 22, 2006	تاريخ إنجاز الفني:
Provisional Acceptance Date:	May 22, 2006	تاريخ الاستلام الإبتدائي:

**Description of Work Accepted:**  
Design & Engineering, Manufacturing, Supply, Erection, Testing and commissioning of:  
1- 50Nos. of rectifiers & Accessories/ 2- 30Nos of Batteries/ 3- 1Nos. of Battery cell Monitoring System/ 4- 2weeks local training for SEC-staff.

**CONTRACTOR'S ACKNOWLEDGEMENT**  
The contractor hereby confirms that all material, civil and erection work has been completed according to the contract specifications and SEC standard. The contractor also confirms that all respective invoices of this project have been presented to SEC and he acknowledges that SEC-CRB will not accept any claim after the date of issue of this certificate except PAC & FAC invoices. However, acceptance of above works shall not be deemed to have relieved the contractor of his obligations with respect to defective workmanship, material, or equipment made known during the guarantee / warranty period.

**S.E.C. APPROVAL**  
This is to certify that as of this date 22/05/2006G the contractor has complied with the requirement of PAC for the project as stipulated in the above mentioned contract. The above date will therefore, be taken as the operated date of PAC for the project as per contract general conditions item No. 17.

Dr. Raduan Ayadh Al-Doosary / المهندس  
Mr. Saad M. Al-Obeid / مدير إدارة الاتصالات

METS  
Signature: [Stamp]

**alfanar**

POSTAL ADDRESS: P.O. Box 301  
RIYADH 11411 - SAUDI ARABIA  
TEL: 920006111  
FAX: 2756499

DATE: 11.10.2011 G  
13.11.1432 H

**COMPLETION CERTIFICATE " ALFANAR – HITEEN Project "**

**To Whom It May Concern:**

This is to certify that M/s Middle East Technical Services Est. (METS) has completed the construction of new HITEEN 380/132 KV BSP S/S at PP-5 (# 900) project, P.O # 83-043 dated 25-11-2009 with us under their following Scope of Work on January, 2011 in Riyadh Area, KSA.

METS has performed the Installation works for the following 1C X 2000mm2 Cu XLPE cable accessories successfully:-

- Installation of 132 Kv, 2000mm2 GIS Sealing End (Manufacturer: LSC) : 51 Sets.
- Installation of 132 Kv, 2000mm2 Transformer Sealing End (Manufacturer: LSC) : 51 Sets.
- 132 KV, 2000mm2 cable pulling : 1 Lots

The following Joints carried out the works with SEC Supervision during the execution of the above Project:

- Mr. Ulyssis Lustre
- Mr. Jami Abdullah
- Mr. Eusebio Talaguan

During the execution of METS Scope of Work, we found that they are well organized and fulfilling their commitments and deadline on time with Client. METS have carried out their work with Quality Service and High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves and does not release them from contractual obligations toward Alfanar / SEC COA.

Muhammad Omar  
Project Manager  
Alfanar Construction Co.

alfanar Co. Ltd. Commercial Registration No. 1010057263 Chamber of Commerce Membership No. 3495, Capital SR. 1000,000,000

**Trading & Development Partnership**  
Company with limited liability. Capital (S.R. 2,000,000)

الشركة التضامنية لأعمار والتجارة  
مشاركة ذات مسؤولية محدودة، رأس المال المسموع ٢٠٠٠٠٠٠٠٠٠٠ ريال سعودي

**COMPLETION CERTIFICATE**

**To Whom It May Concern:**

This is to certify that M/s Middle East Technical Services Est. (METS) has completed the Project for SEC COA Contract No. : 10931073/00 – Riyadh with us under their following Scope of Work on July, 2011 in Riyadh Area, KSA.

METS has performed the Installation and Testing works for the following 1C X 2000mm2 Cu XLPE cable accessories successfully:-

- Installation of 132 Kv ,1200 MM2 Joints (Manufacturer: PFISTERER) : 15 Sets.

The following Joints were carried out the work during the execution of the above Project:

Mr. Ramil Bautista  
Mr. Eusebio Talaguan  
Mr. Vitaliano Tubac

During the execution of METS Scope of Work, we found that they are well organized and fulfilling their commitments and deadline on time with Client. METS have carried out their work with Quality Service and High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves and does not release them from contractual obligations toward TDP / SEC COA.

TDP - Project Manager (Stamp)

المقر الرئيسي: المملكة العربية السعودية - الرياض من ١٣٢٧ - الرياض ١١٤٣١ - هاتف: ١٣١١٣٣٣ - فاكس: ٤٨٨٩٠٢٩ - بريد إلكتروني: info@tdpco.com  
Head Off. - Kingdom of Saudi Arabia - Riyadh P.O. Box 1327 Riyadh 11431 - Tel: 966 1 2612222 - Fax: 4889036 - C. P. 9599 - C. O. G. 3280  
E-mail: tdp@tdpco.com - Web: www.tdpco.com

**SIEMENS**

Siemens Ltd., SA ET H.S. Ghazal District, Riyadh 11403  
Attn: M/S Middle East Technical Services Est.

Name: Reynaldo Panglinan  
Division: ET HS  
Department: ET HS  
Telephone: +966 (1) 277 8323  
Fax: +966 (1) 277 8488  
E-mail: +966 (90) 509 5198  
Our reference: PO 4052728108 dated 29.05.2010  
Date: 02.06.2012

**Contract # 10931163/00 (Dynamic Reactive Power Compensation in COA)**  
**Subject: SVC Project at S/S Afif 8603 and Qassim 8800- 132kV HV POWER Cable- WORKS COMPLETION CERTIFICATE**

**To Whom It May Concern:**

This is to certify that M/s Middle East Technical Services Est. (METS) has completed the 132 kV cable installation works for Dynamic Reactive Power Compensation at Qassim project as below details for SEC Contract # 10931163/00 with Siemens under the following Scope of Work. METS has performed the 132 kV cables installation works for the following successfully:-

- Cable laying for 132 KV, 2000 mm2 cable : 1 Lot
- Supply and installation of 132 KV GIS sealing end / LS manufacturer: 6 Set
- Supply and installation of 132 KV Outdoor sealing end / LS manufacturer: 6 Set
- Supply and installation of Link Box 6/1 with SVL : 1 Set
- Supply and installation of Link Box 6/1 without SVL : 1 Set
- Testing and Commissioning of 132 KV Cable : 1 Set

The following METS's team leaders have carried out the mentioned works with SEC Supervision during the cable installation works:-

- Engineer Jom Borg Tolentino - Cable pulling engineer
- Engineer Erson Domingo - Testing engineer
- Engineer. Ramil Bautista - Joiner.

During the execution of METS Scope of installation Works, Siemens found the Quality of work, satisfactory.

Reynaldo Panglinan  
Head of SVC Projects

Philo Schaiter  
Commercial Project Manager

Siemens Ltd.  
Group Energy Transmission  
Group Executive Management Shareholder, Group President

Postal address:  
Siemens S.P. P.O. Box 9119  
11403 Riyadh  
Chamber 03404  
11403 Riyadh  
Tel: +966 (1) 277 8111  
Fax: +966 (1) 277 8330

Siemens Limited, Saudi Arabia, SO 9001 2000 (limited), Capital Saudi Riyals 25,000,000 (fully paid), C. R. 405106657  
405106657  
الرياض من ١٣٢٧ - الرياض ١١٤٣١ - هاتف: ١٣١١٣٣٣ - فاكس: ٤٨٨٩٠٢٩ - بريد إلكتروني: info@tdpco.com

**Letters of Recommendation**



POSTAL ADDRESS: P.O. Box 3011  
 RYADH 11611 - SAUDI ARABIA  
 TEL: +966 11 2756499  
 FAX: +966 11 2756499  
 E-MAIL: info@alfanar.com.sa  
 WEBSITE: www.alfanar.com.sa

**COMPLETION OF INSTALLATION OF 132KV POWER CABLE ACCESSORIES AT "ALFANAR SITE- KUDUM & ASH-A S/S"**

To Whom it May Concern:

This is to certify that M/s METS has completed the installation of Swedlabel make oil/air transformer sealing end (Type: ash 145) for 132KV, 5x2000mm<sup>2</sup> size power cable including balancing vessel as per spec/requirement, under PO # PE136-025 (4800004198) dated 18.01.2015.

During the execution of M/s. METS scope of work, we found that they are well organized and fulfilling their commitments and deadline on time with client. M/s METS have carried out their work with Quality Service & High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves and does not release them from contractual obligations toward Alfamar / SEC - ODA.

  
 7-4-2016  
**Harry Karim Elsherbini,**  
 Project Manager




alfanar Co. Ltd. Commercial Registration No. 102881243 Chamber of Commerce & Remittance No. 3476, Capital SA 100,000,000

فرع المنطقة الوسطى  
 Central Regional Branch  
**FINAL RECEIPT AND RELEASE AGREEMENT**

الشركة السعودية للتقنية  
 National Grid SA

Form # 1596 (2/11)	Date: 20 يونيو 2016	الترتيب (2172) 15076
رقم العقد 1073106600/ص	CONTRACT TITLE Installation of 132kv Cable Circuits for new S/S 8121	رقم العميل AG No: 1-0729007-02
PAY TO: Middle East Technical Services Est.		National Grid SA

In consideration of the payment of COMPANY of Saudi Riyal 4,391,692.74 ( SAR Four Million Three Hundred Ninety One Thousand Six Hundred Forty Two and Seventy Four Mainah Dhalil for applicable Deductions, CONTRACTOR hereby release COMPANY from any further liability of any nature whatsoever arising from relating to Contract No. 1073106600 it may have been suspended or amended or arising from or relating to:

COMPANY: National Grid SA  
 Signature & Date: 20 Jun 2016  
 Name:   
 Title: Project Manager

DATE OF ISSUING/ISSUING DUTY

BY COMPANY USED ONLY		بواسطة الشركة فقط	
COMMENTED BY COMPANY REPRESENTATIVE	التوقيع والتاريخ	المبلغ الإجمالي GROSS SUM	SAR 4,391,692.74
Signature Date	التوقيع والتاريخ	المحسوبات DEDUCTIONS	
Name: Mr. Ibrahim Alsherbini	الاسم		
Title: Department Manager - Central Projects Business Unit	الوظيفة		
COST COMPLIANCE VERIFICATION		مبلغ المبلغ المستحق الدفع	
Signature & Date	التوقيع والتاريخ	NET AMOUNT PAYABLE	SAR 4,391,692.74
NAME	الاسم		
Remarks (Related to Deductions)		ملاحظات (موضوع حساب المحسوبات)	
		لغات المحاسبة CIS Input	
		By Date	

Name: 0253664000    Company: 0253664000    Party: 0253664000    Party: 0253664000  
 Name: 0253664000    Party: 0253664000    Party: 0253664000    Party: 0253664000



**Letters of Recommendation**

**COMPLETION CERTIFICATE OF 'QOUMAT AL JANDAL PROJECT'**

To Whom It May Concern:

This is to certify that M/s Middle East Technical Services Est. (METS) completed SEC-EOA Contract # 8397400 (Replacement of Quamr-Abulandul 130/115KV Substation Project with us under the following scope of supply work on July 2008 in Jandala Area, KSA.

Mets has performed the Engineering Design, supply and installation for LS Cable accessories as per the following bill of materials:

- Transformer Sealing End for 115KV, 1C x 2000mm<sup>2</sup> XLPE Cu Cable : 6 Nos.
- GIS Sealing End with SVL : 6 Nos.

Termination work was completed as per Client requirements and METS performed the work as per SEC-EOA Specifications and have shown support and cooperation to us. METS have carried out the work with Quality Service and High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves.

*Abdul Latheef*  
Project Manager

**شركة الشرق الأوسط للهندسة والتنمية المحدودة**  
**MIDDLE EAST ENGINEERING & DEVELOPMENT CO., LTD.**  
(MEEDCO)

Head Office : P. O. Box 2761, Riyadh 11461 Kingdom of Saudi Arabia  
Tel : 491 - 9100 - Fax : 491 - 9161  
Capital SR 10,000,000 Fully Paid

مشاركون عمومي  
سجل تجاري رقم 1010086434  
GENERAL CONTRACTOR  
C. R. 1010086434  
عضوية الغرفة التجارية ١٤٢١ هـ

المكتب الرئيسي : من ١٩٦١ - الرياض ١١٤٦١  
المنطقة التجارية السعودية  
هاتف : ٤٩١ - ٩١٠٠ / فاكس : ٤٩١ - ٩١٦١  
رأس المال : ١٠٠٠٠٠٠٠٠ ريال مدفوع بالكامل

To Whom It May Concern:

This is to certify that M/s Middle East Technical Services Est. (METS) has completed SEC-EOA Contract No. 30533172/00 - Construction of New 380/115KV New Khurais BSP Substation Project with us under their following Scope of Supply / Work on May, 2008 in Khurais Area, KSA.

METS has performed the Installation, Testing and Commissioning for LS make Cable and Accessories as per the following bill of materials:

115KV Cable and Accessories :-

- 115KV, 1C x 2000mm<sup>2</sup> XLPE Cu Cable : 4,000m
- Transformer Sealing Ends for 115KV, 1C x 2000 mm<sup>2</sup> XLPE Cu Cable : 18 Nos.
- GIS Sealing End for 115KV, 1C x 2000mm<sup>2</sup> XLPE Cu Cable : 18 Nos.
- Link Boxes (LB-3B) : 6 Nos.
- Link Boxes with SVL (LB-3AB) Standing Type : 6 Nos.
- Testing and Commissioning : 2 Circuits

During the execution of METS Scope of Work, we found that they are well organized and fulfilling their commitments and deadline on time with Client. METS have carried out their work with Quality Service and High Workmanship.

However, this certificate shall not be deemed to have relieved METS of their obligations with respect to defective Workmanship, Materials or Equipment made known within the guarantee /warranty period.

This certificate has been granted to METS upon their request for whatsoever purpose it serves.

*Y.H. Lim*  
Project Manager

**NCC** **شركة المقاولات الوطنية المحدودة**  
**NATIONAL CONTRACTING CO. LTD.**  
(Limited Liability Company - شركة مساهمة محفظة)  
Al-Khobar, C.R. No. 2051001876 - Capital : S.R. 52,800,000  
الخبر - سجل تجاري رقم ٢٠٥١٠٠١٨٧٦ - رأس المال : ٥٢٨٠٠٠٠٠٠ ريال سعودي

قسم النقل والتوزيع  
Transmission & Distribution Division

Date: 23.12.2008

**COMPLETION CERTIFICATE**

To Whom It May Concern:

This is to certify that M/s Middle East Technical Services Est. (METS) has completed the Project for Royal Commission Contract No. 071-C11 - Electrical Substation for Stage 1 of Jubail-2 with us covering the following Scope of Supply / Work on August 2008 in Jubail Area, KSA.

METS have performed the Supply, Installation, Testing and Commissioning including cable laying works for LS Cable Make Cables and Accessories as per the following bill of materials:

**115KV Cables and Accessories:-**

- 115KV, 1C x 2500mm<sup>2</sup> XLPE Cu Cable : 3,228 M
- Transformer Sealing End for 115KV, 1C x 2500mm<sup>2</sup> XLPE Cu Cable : 12 Nos.
- GIS Sealing End for 115KV, 1C x 2500 mm<sup>2</sup> XLPE Cu Cable : 12 Nos.
- Link box for 115KV Cable with SVL : 4 Nos.
- Testing and Commissioning for 115KV Cable Circuit : 4 Circuits

**230KV Cables and Accessories:-**

- Transformer Sealing End for 230KV, 1C x 2000mm<sup>2</sup> XLPE Cu Cable : 6 Nos.
- GIS Sealing End for 230KV, 1C x 2000 mm<sup>2</sup> XLPE Cu Cable : 6 Nos.
- Transformer Sealing End for 230KV, 1C x 630mm<sup>2</sup> XLPE Cu Cable : 6 Nos.
- GIS Sealing End for 230KV, 1C x 630mm<sup>2</sup> XLPE Cu Cable : 6 Nos.
- Link box for 230KV Cable with SVL : 4 Nos.
- Testing and Commissioning for 230KV Cable Circuit : 4 Circuits

During the execution of METS Scope of Work, we found that they are well organized and fulfilling their commitments with Client. METS have carried out their work with Quality Service and High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves, without any responsibility on our side.

For NATIONAL CONTRACTING CO. LTD.  
*C.V.C. RAO*  
Dy. General Manager

**COMPLETION OF INSTALLATION OF 115KV POWER CABLE ACCESSORIES - SEC-EOA CNR 400027720 - Construction of Al-Jubail 380/115KV BSP and Expansion of Jubail 230/115KV Substation & Al-Jubail Central 230KV BS.**

To Whom It May Concern:

This is to certify that M/s METS has completed the installation of Suedkabel 115KV, 2000sqmm GIS Sealing End, Transformer Sealing Eng and Outdoor Sealing end terminations under Ref. No. 480006050 (PE140-090) dated 23.08.2015.

Items:

- Installation of GIS Sealing End : 18 Nos.
- Installation of Transformer Sealing End : 18 Nos.

During the execution of M/s. METS scope of work, we found that they are well organized and fulfilling their commitments and deadline on time with client. M/s METS have carried out their work with Quality Service & High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves and does not release them from contractual obligations toward Alfanar / SEC - EOA.

*Yamez Haddad*  
Site Manager



**Letters of Recommendation**



**TO WHOM IT MAY CONCERN**

This is to certify that M/s. Middle East Technical Services Est. (METS) has completed the material supply to us for below mentioned bill of quantity in full conformity to SEC-WOA Contract No. 130/1/23 :

- 110kV 1C x 300 Sq. mm Oil Filled Cable
- 110kV 1C x 630 Sq. mm Oil Filled Cable

The engineering, design, manufacturing and supply was completed on due date. METS performed their duties as per their obligations with us and have shown full swing co-operation.

*Mohammed Moustafa Tahoun*

**Mohammed Moustafa Tahoun**  
Project Manager

Date : 22.03.2005



**Siemens Limited**  
Limited Liability  
Capital Saudi Riyals 25,000,000 Fully Paid  
C.R. 40012657



**شركة سيمنس المحدودة**  
ذات مسؤولية محدودة  
رأس المال ٢٥٠٠٠٠٠٠٠٠٠ ريال سعودي  
سجل تجاري ٤٠٠١٢٦٥٧

**COMPLETION CERTIFICATE " AL Toukhi - Madinah BSP Project "**

To Whom It May Concern:

This is to certify that M/s Middle East Technical Services Est. (METS) has completed the Project for SEC WOA Contract No. : 20831037/00 - construction of New 380/110 Kv BSP Madinah -L- AST S/S with us under their following Scope of Work on November, 2010 in Madinah Area, KSA.

METS has performed the Installation and Testing works for the following 1C X 2000mm2 Cu XLPE cable accessories successfully:-

- Installation of 110 Kv GIS Sealing End (Manufacturer: PFISTERER, Model Type : ESG145-V) : 27 Sets.
- Installation of 110 Kv Transformer Sealing End (Manufacturer: PFISTERER, Model Type : ESU145-V) : 27 Sets
- Testing & Commissioning : 03 Ckts.
- HV test for 110 Kv Surge Arresters : 03 Ckts.

During the execution of METS Scope of Work, we found that they are well organized and fulfilling their commitments and deadline on time with Client. METS have carried out their work with Quality Service and High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves and does not release them from contractual obligations toward AL Toukhi / SEC WOA.

**AL Toukhi - Project Manager**  
(Stamp)



**National Grid - SA**  
HV Projects  
Western Projects Department

**نقل الكهرباء**  
National Grid SA  
Western Projects Department

No. : 1 / 1 / G  
Dated : 1 / 1 / G

التاريخ : ١١/٠٣/٢٠١١  
رقم : ١٧٤

**Provisional Acceptance Certificate (P.A.C.)**

Contract No & Date:	4410000623 - 15/1/2011	رقم العقد وتاريخه:
Contractor's Name:	مؤسسة الطرق الوطنية للأعمال العامة	اسم المقاول:
Location / Project:	Jeddah/ Installation of 110 KV UHS cables for KASC S/S	الموقع/ المشروع:
Site Handover Date:	02/02/2011	تاريخ التسليم للموقع:
P.A.C. Date:	18/04/2015	تاريخ الشهادة:
P.A.C. Validity:	63/64/2016	مدة الصلاحية:

**Description of Work accepted:**

- Design, Supply, Installation, Testing & Commission of 110 KV 1200 mm2 XLPE cable D/C from HRH-2 BSP to new KASC S/S with NFDC, Approx. Route Length=625m
- Design, Supply, Installation, Testing & Commission of 110 KV 1200 mm2 XLPE cable S/C from JME BSP to new KASC S/S with NFDC, Approx. Route Length=940m

**Remarks:**

**CONTRACTOR'S ACKNOWLEDGEMENT**

The contractor hereby certifies that all material, labor and other work has been completed according to the technical specifications and National Grid standard. The contractor also certifies that all equipment received at the project have been presented in SFC and the performance of the National Grid will not exceed any claim after the date of issue of this certificate except P.A.C. or PAC notices. However, acceptance of work does not constitute an obligation to have satisfied the contractor of his obligations which subject to delivery acceptance, material or equipment must be known within the guarantee warranty period.

Name of the Project Manager: \_\_\_\_\_  
Contractor's Signatory & Date: \_\_\_\_\_  
Signature: \_\_\_\_\_

**National Grid - APPROVAL:**

This is to certify that as of this date 11/03/2011 G the contractor has complied with the requirement of PAC for the project as stipulated in the above mentioned contract. The above date will therefore be taken as the operated date of PAC for the project at per contract general condition term No. 17.

المهندس / محمد بن جميل عثمان  
مدير إدارة مشاريع الغربية

التوقيع

المهندس / محمد بن علي الأصمري  
مدير إدارة مشاريع الخطوط والكابلات الغربية

**DISTRIBUTIONS:**

- Original - Asset Accounting Division.
- 1<sup>st</sup> copy - Resource Planning Division.
- 2<sup>nd</sup> copy - Contractor.
- 3<sup>rd</sup> copy - Projects Support Department.
- 4<sup>th</sup> copy - Industrial Security Div.
- 5<sup>th</sup> copy - Outstanding Operations.
- 6<sup>th</sup> copy - P.M.O.

الشركة السعودية للكهرباء  
Saudi Electricity Company

القطاع الجنوبي  
مبنى 616  
الرياض  
009687227111  
فكس: 0096872271527  
شركة الكهرباء السعودية

عمليات التوليد  
إدارة المحطات الغازية  
قسم محطة توليد شرورة  
مبنى: 075310205 / فاكس: 075449142

التاريخ : 2012/05/28

**RECOMMENDATION CERTIFICATE**

To Whom It May Concern

We would like to bring to your kind knowledge and information that Middle East Technical Services Est. (METS) as main contractor has successfully completed the following detailed works for SEC - SOA for Replacement of MV cable joints and termination at Sharoura Power Plant as the following:-

- Installation of 33 KV, 1C X 500 MM2 RAYCHEM termination kits at SWG: 6 Nos.
- Installation of 33 KV, 1C X 500 MM2 RAYCHEM Joints: 6 Nos.

The following METS's team leaders have carried out the mentioned works with SEC supervision during the cable installation works:-

- Mr. Ulysses Luster / Jointer
- Mr. Shareef Ahmed / Jointer

During the execution of METS Scope of Installation Works, we found that they are well organized, equipped, well trained and fulfilling their commitments, deadline and contractual obligation on time with Client. METS have carried out their work with Quality level of Service and High Workmanship.

Due to their excellent performance in executing the above project, we highly recommended METS to execute similar projects in the further since they are capable of executing and implementing any projects beyond our expectation.

Best Regards,

*Eng. Nasser Al-Nahdi*  
Eng. Nasser Al-Nahdi,  
Sharurah Power Plant-Section Head (A).

Letters of Recommendation

شركة الشرق الأوسط للهندسة والتنمية المحدودة.  
MIDDLE EAST ENGINEERING & DEVELOPMENT CO., LTD.

P.O.Box 6839 - Jeddah 21452  
Kingdom of Saudi Arabia  
Tel.: (012) 290 6357 Fax : (012) 290 6802  
E-mail: hscwezo@hdec.co.kr  
Capital SR. 10,000,000 Fully Paid

(MEEDCO)  
مقاوم عمومي  
سجل تجاري رقم : ٢٠٥١٠٢٩٠٦٧ - الخبير  
GENERAL CONTRACTOR  
C.R. 2051039067 - KHOBAR  
عضوية الغرفة التجارية ١٢٢٦٨٦

ص.ب ٦٨٣٩ - جدة ٢١٤٥٢  
المملكة العربية السعودية  
هاتف : ٢٩٠ ٦٣٥٧ (٠١٢) فاكس : ٢٩٠ ٦٨٠٢ (٠١٢)  
بريد الإلكتروني: hscwezo@hdec.co.kr  
رأس المال ١٠,٠٠٠,٠٠٠ ريال مدفوع بالكامل

Date: 05.10.2017

**COMPLETION OF SUPPLY AND INSTALLATION OF 110KV POWER CABLE  
ACCESSORIES. Contract No.4400005541 Construction Of SAUDI YANBU CITY  
380KV SUBSTATION**

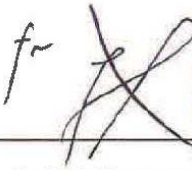
To Whom It May Concern:

This is to certify that M/s METS has completed the supply and installation of 110kV, 630sqmm accessories in 2017, as below

- GIS Sealing End for 110kV 630sqmm - 11 Nos  
(NEXANS Make - Type SFY1.145)
- Transformer Sealing End 110kV 630sqmm - 11 Nos  
(NEXANS Make - Type STY1.145)
- Link boxes without SVL for Termination - 03 Nos  
(PTE Make - Type DE - 3S)
- Link boxes with SVL for Termination - 03 Nos  
(PTE Make - Type ES - 3S)

During the execution of M/s. METS scope of work, we found that they are well organized and fulfilling their commitments and deadline on time with client. M/s METS have carried out their work with Quality Service & High Workmanship.

This certificate has been granted to METS upon their request for whatsoever purpose it serves and does not release them from contractual obligations towards MEEDCO/ SEC - WOA.

for  
  
Project Manager





***Project Sample Pictures***  
***Extension of Benisar S/S at Baha CPS***  
***Main Cont.: ABB Contracting Co.***



***Project Sample Pictures***

***PP9 E-Block Extension Project / SEC-COA***

***Main Cont.: Arabian BEMCO***





# COMPANY PROFILE

## Project Sample Pictures

### RABIGH Power Plant Stage V / SEC-WOA



Project Sample Pictures

RABIGH Power Plant Stage V / SEC-WOA

Termination Works





Project Sample Pictures

RABIGH Power Plant Stage V / SEC-WOA

Testing & Commissioning



***Project Sample Pictures***

***RABIGH Power Plant Stage VII / SEC-WOA***

***Termination Works***





***Project Sample Pictures***

**AL WOROOD PROJECT/ SEC-COA**





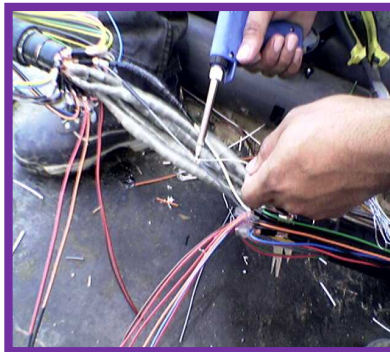
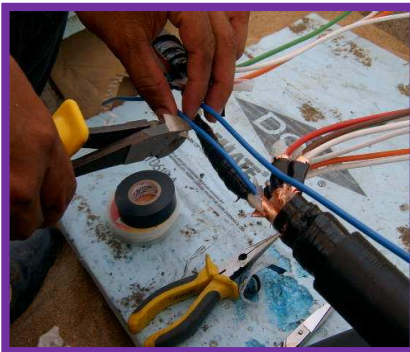
***Project Sample Pictures***

***AL WOROOD PROJECT/ SEC-COA***





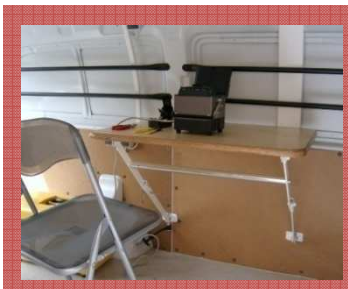
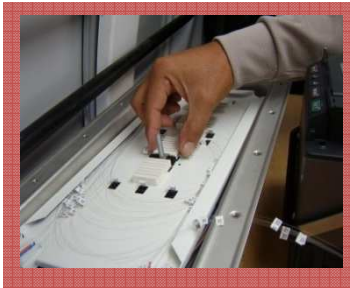
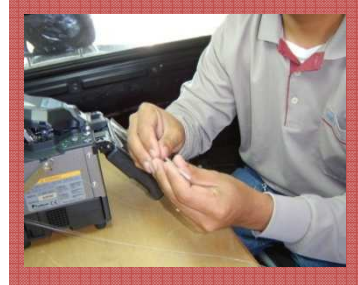
***Project Sample Pictures***  
***5P and 20P Pilot Cable Project in Jeddah / SEC-WOA***





***Project Sample Pictures***

***Optical Fiber – Jeddah Project / SEC-WOA***



## Project Sample Pictures

### DC System – Hail Project / SEC-COA

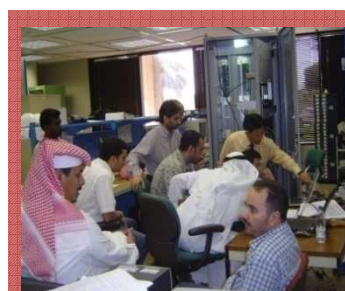




Sample Pictures  
For Testing & Commissioning





**RTU-Sample Pictures****Trial-RTU installed in SCADA Laboratory / SEC-EOA**

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Web site: [www.mets.com.sa](http://www.mets.com.sa)

## Project-Sample Pictures Hameediyah/Al-Hassa/ SEC-EOA





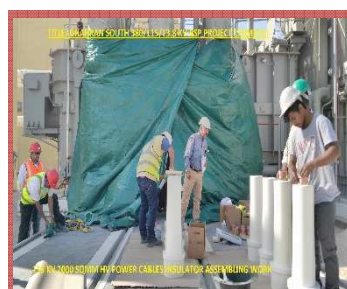
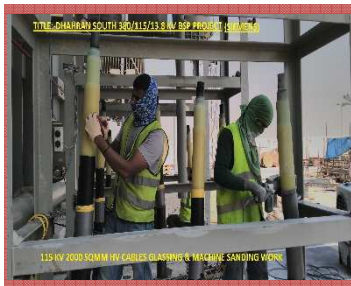
## Project-Sample Pictures Masoudi /Al-Hassa/ SEC-EOA





## Project-Sample Pictures

### Dhahran South 380/115/13.8 kv BSP / SIEMENS-EOA





## Project-Sample Pictures

### Al-Madhaya 380/132/13.8 KV S/S Project / SEC-SOA

