Saudi Electricity Company الشركه السعوديه للكهرباء

List of Prequalified Manufacturers/Suppliers for Main Distribution Networks Materials –Till AUGUST 15, 2022

S/No	Material/Equipment	Specification No. Latest Revision	Manufacturer		Agent / Representative Name	Remarks
			Name	Country		
1	POWER TRANSFORMER					
1.1	33 KV & 34.5KV PRIMARY POWER TRANSFORMERS UP TO 30 MVA	53-TMSS-01	ABB	Sweden	ABB	Five (5) Years Warranty from the date of commissioning is required
			ABB (T & D)	USA	ABB (T & D)	Five (5) Years Warranty from the date of commissioning is required
			ABB-Bilbao	Spain- Bilbao	ABB-Bilbao	Based on TS&SD Letter # 09-F01546/03-032301 dated 19th August 2009, it is pre-qualified for Power Transformer up to 132 KV, 100MVA as confirming to SEC specification # 53-TMSS-01, REV 0 with the following conditions: -All Type, design, special & routine tests (including short circuit test) as per SEC specification/standards shall be carried out on the first unit to be supplied to SEC in securing an order in the presence of three (3) SEC engineers & one (1) approved independent inspection agency Inspector. -Seven (7) years warranty from the date of PAC of the turnkey project in case of contact award or date of delivery in case of direct material supply order
			ABB Elektrik Sanayi A.S. (Previously ABB ESAS)	Turkey – Istanbul	ABB Elektrik Sanayi A.S. (Previously ABB ESAS)	Pre-Qualification & Participation for current & future SEC's projects subjected to the mutual agreement between SEC & ABB dated 09 March 2009. Five (5) Years Warranty from the date of commissioning is required

			ABB TRANSITOY	Finland	ABB TRANSITOY	Five (5) Years Warranty from the date of commissioning is required
			AREVA	Germany	AREVA	Five (5) Years Warranty from the date of commissioning is required
			ABB ELEKTIRK DUDULLU SANAYI A.S	Turkey Istanbul Plant	ABB ELEKTIRK SANAYI A.S DUDULLU	
			AREVA	Turkey	AREVA	Five (5) Years Warranty from the date of commissioning is required
			BEST	Turkey	BEST	Complete Type, Routine / Sample Tests for first order & 10 years warranty from the date of PAC is required.
			CG Power Systems	Belgium	CG Power Systems	Five (5) Years Warranty from the date of commissioning is required
			Crompton Greaves	India	Crompton Greaves	Suspended for 2005 projects onward.
			Daihen Corporation	Japan-Osaka	Daihen Corporation	Five (5) Years Warranty from the date of commissioning is required
			Hawker Siddeley	United Kingdom	Hawker Siddeley	Five (5) Years Warranty from the date of commissioning is required
			Hyosung (HILCO)	Korea, Republic of Changwon	Hyosung (HILCO)	Five (5) Years Warranty from the date of commissioning is required
			Hyundai	Korea, Republic of Ulsan	Hyundai	Five (5) Years Warranty from the date of commissioning is required
			Japan AE Power Systems Corp.	Japan	Japan AE Power Systems Corp.	Five (5) Years Warranty from the date of commissioning is required
			Jeumont Schneider	France	Jeumont Schneider	Five (5) Years Warranty from the date of commissioning is required
			Mitsubishi	Japan	Mitsubishi	Originally TMT & D corp. & dissolved during April 2005. Five (5) Years warranty from the date of commissioning is required
			Schorch	Germany	Schorch	Five (5) Years Warranty from the date of commissioning is required
			Siemens AG (Nurnberg)	Germany-Nurnberg	Siemens AG (Nurnberg)	Five (5) Years Warranty from the date of commissioning is required
			Siemens Transformers Austria GMBH & CO KG	Austria-weiz	Siemens Transformers Austria GMBH & CO KG	Five (5) Years Warranty from the date of commissioning is required

			Toshiba Corporation, T&D	Japan	Toshiba Corporation, T&D	Originally TMT & D corp. & dissolved during April 2005. Five (5) years warranty from the date of commissioning is required
			WILSON TRANSFORMER COMPANY	Australia-Melbourne	Pro solutions Group	
			Shihlin Electric & Engineering Corporation	Taiwan	Shihlin Electric & Engineering Corporation	• Prequalified in power transformer as per Transmission Specification 01-TMSS-01 & 53-TMSS-01. • To be invited for tender but pending the submittal of type test certificate according to SEC Specs. • Prequalified for Main Distribution Networks special projects for the voltages (69/34.5/33KV) • Ten(10) years warranty from the date of commissioning is required.
			BRUSH Transformers Gulf	UAE-Abu Dhabi	BRUSH Transformers Gulf	• Prequalified in power transformers up to 20MVA as per Transmission specifications 01-TMSS-01 & 53-TMSS-01. • To be invited for tender but pending the submittal of type test certificate according to SEC Specs. • Prequalified for Main Distribution Networks special projects for the voltages(13.8/33KV). • Ten (10) years warranty from the date of commissioning is required.
	33 KV & 34.5KV PRIMARY POWER TRANSFORMERS UP TO 30 MVA	53-SDMS-01	Elsewedy Power Transformers (Egypt)	EGYPT	Elsewedy Power Transformers (Egypt)	• Ten (10) years warranty from the date of commissioning is required.
			Saudi Power Transformers-SPTC	KSA	Saudi Power Transformers-SPTC	• Ten (10) years warranty from the date of commissioning is required.

			Chint Electric Co. Ltd.	China	Taqqat Global Co. Ltd.	◦ Prequalified in power transformers up to 30MVA as per Distribution specifications 01-SDMS-01 & 53-SDMS-01. ◦ To be invited for tender but pending the submittal of type test certificate according to SEC Specs. ◦ Prequalified for Main Distribution Networks special projects for the voltages (13.8/33KV). ◦ Ten (10) years warranty from the date of commissioning is required.
			Wahah Electric Supply Company of Saudi Arabia Ltd. (WESCOSA)	KSA	Wahah Electric Supply Company of Saudi Arabia Ltd. (WESCOSA)	◦ Ten (10) years warranty from the date of commissioning is required.
			EMIRATES TRANSFORMERS AND SWITCHGEAR Ltd	UAE - Jebel Ali, Dubai	YUSUF BIN AHMED KANOO COMPANY LIMITED	◦ Prequalified in power transformers up to 20 MVA as per Distribution specifications 01-SDMS-01 & 53-SDMS-01. ◦ To be invited for tender but pending the submittal of type test certificate according to SEC Specs. ◦ Prequalified for Main Distribution Networks special projects for the voltages (13.8/33KV). ◦ Ten (10) years warranty from the date of commissioning is required.
			FEDERAL POWER TRANSFORMERS L.L.C (FPT)	UAE – ABU DAHBI	FEDERAL POWER TRANSFORMERS L.L.C (FPT)	◦ Ten (10) years warranty from the date of commissioning is required.

			ABB S.P.A	Italy	ABB Electrical Industries	• Prequalified in power transformers up to 30MVA as per Distribution specifications 01-SDMS-01 & 53-SDMS-01. • To be invited for tender but pending the submittal of type test certificate according to SEC Specs. • Prequalified for Main Distribution Networks special projects for the voltages (13.8/33KV). • Ten (10) years warranty from the date of commissioning is required. •
1.2	69 KV PRIMARY POWER TRANSFORMERS UP TO 67 MVA	53-TMSS-01	ABB	Switzerland	ABB	Five (5) Years Warranty from the date of commissioning is required
			ABB	Sweden	ABB	Five (5) Years Warranty from the date of commissioning is required
			ABB (T & D)	USA	ABB (T & D)	Five (5) Years Warranty from the date of commissioning is required
			ABB-Bilbao	Spain-Bilbao	ABB-Bilbao	Based on TS & SD letter # 09-FO1546/03-032301 dated 19th August 2009, it is pre-qualified for Power Transformers up to 132 KV, 100 MVA as confirming to SEC specification # 53-TMSS-01, rev.0 with the following conditions: -All Type, design, special & routine testes (including short circuit test)as per SEC specifications/standards shall be carried out on the first unit to be supplied to SEC in securing an order in the presence of three (3) SEC engineers & one (1) approved independent agency Inspector. -Seven (7) years warranty from the date of PAC of turnkey project in case of contract award or date of delivery in case of direct material supply order.
			Elsewedy Power Transformers (Egypt)	EGYPT	Elsewedy Power Transformers (Egypt)	To apply for this Transformers what is implemented for Transmission Power Transformers and not to rely on one year experiment but to depend on the Factory Obligation which may extend for more than three(3) years (based on the agreement between SEC and the Factory) as per the Meeting held on 04/30&01/05/2013betweenDistribution Engineering Managers &Distribution Service Sector.
			Saudi Power Transformers-SPTC	KSA	Saudi Power Transformers-SPTC	To apply for this Transformers what is implemented for Transmission Power Transformers and not to rely on one year experiment but to depend on the Factory

						Obligation which may extend for more than three(3) years (based on the agreement between SEC and the Factory) as per the Meeting held on 04/30&01/05/2013betweenDistribution Engineering Managers &Distribution Service Sector.
			ABB Elektrik Sanayi A.S. (Previously ABB ESAS)	Turkey – Istanbul	ABB Elektrik Sanayi A.S. (Previously ABB ESAS)	Pre-Qualification & Participation for current & future SEC's projects subjected to the mutual agreement between SEC & ABB dated 09 March 2009. Five (5) Years Warranty from the date of commissioning is required
			ABB TRANSIT OY	Finland	ABB TRANSIT OY	Five (5) Years Warranty from the date of commissioning is required
			AREVA	Germany	AREVA	Five (5) Years Warranty from the date of commissioning is required
			AREVA	Turkey	AREVA	Five (5) Years Warranty from the date of commissioning is required
			BEST	Turkey	BEST	Complete Type, Routine / Sample Tests for first order & 10 years warranty from the date of PAC is required.
			CG Power Systems	Belgium	CG Power Systems	Five (5) Years Warranty from the date of commissioning is required
			Daihen Corporation	Japan-Osaka	Daihen Corporation	Five (5) Years Warranty from the date of commissioning is required
			EFACEC	Portugal	EFACEC	Five (5) Years Warranty from the date of commissioning is required
			Hyosung (HILCO)	Korea, Republic of Changwon	Hyosung (HILCO)	Five (5) Years Warranty from the date of commissioning is required
			Hyundai	Korea, Republic of Ulsan	Hyundai	Five (5) Years Warranty from the date of commissioning is required
			Japan AE Power Systems Corp.	Japan	Japan AE Power Systems Corp.	Five (5) Years Warranty from the date of commissioning is required
			Jeumont Schneider	France	Jeumont Schneider	Five (5) Years Warranty from the date of commissioning is required
			KONCARD & ST	Croatia/ Hrvatska	KONCARD & ST	Limited to 40 MVA only. Complete type, routine/sample test for first order & 10 years warranty from the date of PAC is required.
			Mitsubishi	Japan	Mitsubishi	Originally TMT & D corp. & dissolved during April 2005.
			Siemens AG (Dresden)	Germany-Dresden	Siemens AG	Based on TS & SD letter # 09-FO1501-03-032301 dated 25 May 2009, Simens AG from

					(Dresden)	Germany-Dresden for Power Transformer up to 230KV, 200MVA as confirming to SEC specification # 53-TMSS-01, REV.0 & 53-tmss-02, rev.0 with the following conditions: All type, special & routine testes for each voltage classes per SEC specifications/ standards shall be carried out on the first batch to be supplied to SEC in securing an order in the presence of three(3) SEC Engineers & one (1) approved independent agency Inspector. Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
			Siemens AG (Nurnberg)	Germany-Nurnberg	Siemens AG (Nurnberg)	Five (5) Years Warranty from the date of commissioning is required
			Siemens Transformers Austria GMBH & Co. KG	Austria-Weiz	Siemens Transformers Austria GMBH & Co. KG	Five (5) Years Warranty from the date of commissioning is required
			TAMINI	Italy	TAMINI	Five (5) Years Warranty from the date of commissioning is required
			Toshiba Corporation, T&D	Japan	Toshiba Corporation, T&D	Originally TMT & D corp. & dissolved during April 2005.
			Wilson Tranf	Australia-Melbourne	Wilson Tranf	Five (5) Years Warranty from the date of commissioning is required
			Shihlin Electric & Engineering Corporation	Taiwan	Shihlin Electric & Engineering Corporation	◦ Prequalified in power transformer as per Transmission Specification 01-TMSS-01 & 53-TMSS-01. ◦ To be invited for tender but pending the submittal of type test certificate according to SEC Specs. ◦ Prequalified for Main Distribution Networks special projects for the voltages (69/34.5/33KV) ◦ Ten(10) years warranty from the date of commissioning is required.
2	PAD MOUNTED PRIMARY DISTRIBUTION TRANSFORMERS					
2.1	13.8KV & 33KV & 34.5 PRIMARY DISTRIBUTION	51-TMSS-01	ABB	KSA (Riyadh)	ABB	
			Federal Transformers Co.	UAE-Abu Dhabi	Federal Transformers Co.	Up to 1.5MVA

	TRANSFORMERS UP TO 2MVA		KONCAR D&ST	Crotia/ Hrvatska	KONCAR D&ST	Up to 2.5MVA, Complete Type, routine/Sample testes for first order & 10 years warranty from the date of PAC is required
			Saudi Transformers Co.	KSA (Dammam)	Saudi Transformers Co.	Up to 13.8 KV only
			United Transformers Electric Co. (UTEC)	KSA (Riyadh)	United Transformers Electric Co. (UTEC)	
			Wescosa	KSA (Dammam)	Wescosa	Up to 13.8 KV Only
3	PAD MOUNTED GROUNDING TRANSFORMERS UP TO 2MVA					
3.1	13.8 KV & 33 KV & 34.5 KV PRIMARY GROUNDING TRANSFORMERS	52-TMSS-01	*	----------		All approved power transformer manufacturers, expect distribution transformer manufacturers are also acceptable for grounding transformers
			ABB	USA	ABB	
			ABB	KSA (Riyadh)	ABB	
			ABB (T &D)	Italy	ABB (T &D)	
			ABB Secheron	Switzerland-Geneva	ABB Secheron	
			CG Power Systems	Belgium	CG Power Systems	
			Crompton Greaves	India	Crompton Greaves	Suspended for 2005 projects onward.
			Hyosung (HILCO)	Korea, Republic of Changwon	Hyosung (HILCO)	
			Hyundai	Korea, Republic of Ulsan	Hyundai	
4	DRY TYPE TRANSFORMERS					
4.1	36 KV PRIMARY		ABB/AEIL	Saudi Arabia	ABB/AEIL	
			Siemens	Germany	Siemens	
			WESCOSA	KSA (Dammam)	WESCOSA	

5	COMPACT SUBSTATION					
5.1	69 KV PRIMARY, 13.8 KV OR 34.5 KV SECONDARY UNIT SUBSTATION	APPLICABLE STANDARDS	ABB (ABB Secheron)	Switzerland (Geneva)	ABB (ABB Secheron)	
			CG Power System	Belgium	CG Power System	
6	REACTOR					
6.1	OIL IMMERSED REACTORS 33 KV TO 69 KV	58-TMSS-01	ABB	Sweden	ABB	
			AREVA	Turkey	AREVA	
			AREVA (ST.QUEN)	France (St-Quen)	AREVA (ST.QUEN)	
			Hyundai	Korea, Republic of Ulsan	Hyundai	Based on TS & D letter # 10-02438-02-03032301 dated 31/08/2010, it is pre-qualified for Shunt Reactor as confirming to SEC specification # 58-TMSS-01, rev 0 with the following conditions: -All type/special, routine, sample tests for Shunt Reactors on one unit of each rating supplied to SEC shall be conducted at Manufacture's Testing Laboratory in the presence of three (3) SEC engineers & one (1) approved independent inspection agency Inspector, all the related cost for witnessing the test will be borne by the manufacturer. This was confirmed by HHI-Korea through letter # S370-1007-052 dated 05/07/2010. -Ten (10) years extended warranty for the proposed shunt reactors from the date of PAC of the turnkey project in case of contact award or date of delivery in case of direct material supply order. This was confirmed by HHI-Korea through letter # S370-1008-0182 dated 18/08/2010
			Japan AE Power Systems Corp.	Japan	Japan AE Power Systems Corp.	

			Mitsubishi	Japan	Mitsubishi	Originally TMT & D Corp. & dissolved during April 2005
			Siemens AG (Nurnberg)	Germany (Nurnberg)	Siemens AG (Nurnberg)	
			Siemens Transformers Austria GMBH & Co. KG	Austria-Weiz	Siemens Transformers Austria GMBH & Co. KG	
			Toshiba Corporation, T&D	Japan	Toshiba Corporation, T&D	Originally TMT & D Corp. & dissolved during April 2005
7	SWITCHGEARS					
7.1	METAL CLAD SWITCHGEARS 13.8 KV UP TO 34.5 KV	32-TMSS-01	ABB (T & D)	USA	ABB (T & D)	
			ABB/AEIL	KSA	ABB/AEIL	For 33 KV AIS: Classic ZS3 type with current rating up to 2500 @ 40 deg C, CB TYPE VD4362025 (2000A), VD43612-15 (1250A & 800A), EKS, 3007N280. For 13.8 KV AIS: New version: Unigear ZSI TYPE with current rating 3003A @ 40 deg C & 60 HZ with CB TYPE VD4 1731-25(1250A), VD1706-20(400A), VD4 171220 (800A), VD4 1716-20(1250A), embedded pole, interrupter type VG4 for 630/1200A, VG4/S for 1600A/2500A and VG6 for 3150A, ES type EK6, ABB EJF make CZECH. Old version: Classic ZSI with current rating.
			ABB-CALOR EMAG	Germany (CALOR EMAG)	ABB-CALOR EMAG	
			AEL-SIEMENS	KSA (Jeddah)	AEL-SIEMENS	For 13.8 KV AIS: Type 8BK20 with CB type 3AH. For 33KV AIS: Type 8BT2 is not acceptable, as the VT is situated in a separate compartment and connected by cable
			ALFANAR ELECTRICAL SYSTEMS	KSA (Riyadh)	ALFANAR ELECTRICAL SYSTEMS	Based on TS & D letter # 09-02613-01-03032301 dated 13th September 2009, AL FANAR ELECTRICAL SYSTEMS from Saudi Arabia for 13.8KV Switchgear type NES-H with degree protection IP4X, vacuum CB (RATING 3150A & 1250A) and ES from LSIS (South Korea) details of types are mentioned in the TS & SD letter as confirmed to SEC specification # 32-

						TMSS-01, rev.0 with the following condition: Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
			AREVA (MACON CEDEX 9)	France (MACON CEDEX 9)	AREVA (MACON CEDEX 9)	
			EFACEC	Portugal	EFACEC	
			ELECKTROBUDOWA SA	Poland-Konin	ELECKTROBUDOWA SA	Based on TS & SD letter # 09-01092-03032301 dated 18th April 2009 it is prequalified for 13.8KV Air Insulated Switchgear type d-17p With SCC of 25Ka/3sec, degree of protection IP4X and rated current of 3000A @ 40deg C, 60HZ. CB type VD4 which approved by SEC specifications # 32-TMSS-01, REV.0 with Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
			EPS LTD. (GROUPE SCHEIDER)	KSA (Riyadh)	EPS LTD. (GROUPE SCHEIDER)	**For 13.8KV AIS:** Pre-qualification since 24/02/1420H for 13.8KV SWG type MC-SET with CB type LF3-3150 (2500A), LF2-2500(2000A), LF2-1250(800A), LF2-630(400A) and warranty of (7) years from the commissioning date of the first delivery for any onward project or order in the first two years and then shall be (3) years from PAC. For 33KV AIS: Based on TS &DS fax ref # 09-00073-2-03032301 dated 04/02/2009, pre-qualified for 34.5 KV SWG type (F400NL) 1250/2500A @ 40 deg c & 60HZ withIP4X, SF6 CB type SF2 (France), ES type SF2 (France), & (10) years warranty. Old version: 33KV AIS type F400G with current rating up to 2500@ 40 deg C with CB type SF & SF2.
			Japan AE Power Systems Corp.	Japan	Japan AE Power Systems Corp.	
			KONCAR D &ST	Croatia/ Hrvatska	KONCAR D &ST	Limited to DTA only, for CTA prequalification under process.
			Mitsubishi	Japan	Mitsubishi	Originally TMT & D Corp. & dissolved during April 2005

			Power Con	USA	Power Con	Switchgear NOT YET TYPE TESTED
			S & C	USA	S & C	
			SIEMENS	USA	SIEMENS	
			Toshiba Corporation, T & D	Japan	Toshiba Corporation, T & D	Originally TMT & D Corp. & dissolved during April 2005
			VA TECH	France	VA TECH	
			WESCOSA	KSA (Dammam)	WESCOSA	
7.2	33 KV GIS					
		32-TMSS-01	SIEMENS	GERMANY	SIEMENS	◦ Based on TS & SD letter # 10-02461-02-03032301 dated 31/08/2010, it is prequalified for 36KV GIS TYPE 8DA10, rated current 2500A, short time current rating of 25Ka(3sec), CB type 3AH with interrupter type VS 30040(40Ka) as confirming to SEC specification # 32-TMSS-01, rev.01 with the following conditions: ◦ Capacitor bank back to back switching tests in case of non-availability of test report shall be conducted in an independent testing laboratory in the presence of three (3) SEC engineers & one (1) sec approved independent inspection agency inspector, all the related cost for witnessing the test will be borne by the manufacturer, in case there is a need of capacitor bank application. This was confirmed by SIEMENS through letter # 8DA 10_PQR_R1 dated 25/08/2010. ◦ Seven (7) years extended warranty for the proposed 36Kv GIS, type 8DA10 from the date of PAC of the turnkey project in case of contract award or date if delivery in case if direct material supply order, this was confirmed by Siemens through letter # 8DA1_PQR_R1 dated 25/08/2010.
8	BATTERY EQUIPTMENT					

8.1	BATTERY LEAD ACID	46-TMSS-01	BAE BERLINER BATTERIE FABRIK-G	GERMANY	BAE BERLINER BATTERIE FABRIK-G	
			C&D	USA	C&D	
			CEAC	France	CEAC	
			ENERSYS S.A.R.L	France	ENERSYS S.A.R.L	Previously known as Hawker S.A.R.L- France, Five years of extended warranty
			EXIDE	USA	EXIDE	
			FIAMM	Italy	FIAMM	
			GOULD (GNB)	USA	GOULD (GNB)	
			HOPPECKE	Germany	HOPPECKE	
			TOVARNA AKUMULATORSHK BATERI	Slovenia	TOVARNA AKUMULATORSHK BATERI	
			TUNGSTONE (Hawker Tungstone)	United Kingdom	TUNGSTONE (Hawker Tungstone)	
			VARTA	Germany	VARTA	
			YUASA	Japan	YUASA	
8.2	BATTERY LEAD ACID	46-TMSS-04	AEG Power Solutions SAS	France	AEG Power Solutions SAS	Originally was SAFT Power System SAS-France
			C & D	USA	C & D	
			Chloride (Hawker Chloride)	United Kingdom	Chloride (Hawker Chloride)	
			FIAMM	Italy	FIAMM	
			GNB	USA	GNB	
			Hawker Ltd.	United Kingdom	Hawker Ltd.	

			HOPPECKE	Germany	HOPPECKE	
			SAB	Germany	SAB	
			SEC	USA	SEC	
			VARTA	Germany	VARTA	
			YUASA EXIDE	USA	YUASA EXIDE	
8.3	BATTERY NICKEL CADMIUM (NICD)	46-TMSS-06	ALCAD	Sweden	ALCAD	
			C & D	USA	C & D	
			CHORIDE	France	CHORIDE	
			EMISA	Spain	EMISA	
			EXIDE	USA	EXIDE	
			FRIWO	Germany	FRIWO	Merger with SAFT NIFE-Sweden
			GAZ Gerate-und akkumulatorenwerk Zwickau GmbH	Germany-Zwickau	GAZ Gerate-und akkumulatorenwerk Zwickau GmbH	Based on TS & SD fax ref.# 08-F02675-03-03032301 dated 10/01/2009. Pre-qualified for NICad Battery with this conditions: First batch shall be type tested in Independent Laboratory in presence of (3) SEC engineers & (1) independent inspector. (07) years warranty.
			GNB	USA	GNB	
			SAFT NIFE	Sweden	SAFT NIFE	370 TO 1390AH
			VARTA Hawker	Germany	VARTA Hawker	
		46-TMSS-02	AEES	France	AEES	

8.4	BATTERY CHARGER		AEG Power Solutions SAS	France	AEG Power Solutions SAS	Originally was SAFT Power System SAS-France
			BENNING	France	BENNING	
			C & D	USA	C & D	
			CEG	Italy-BIBIENA	CEG	Based on TS & SD letter # 09-F0011363/02-03032301 dated 2nd May 2009 as confirming to SEC specification # 46TMSS-02, rev.0, with the following conditions: · All test shall be carried out on the first batch of Battery Charger or UPS to be supplied to SEC in securing an order in the manufacturer's testing laboratory in the presence of three (3) SEC engineers & one (1) approved independent inspection agency inspector. · Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order
			CHORIDE	France	CHORIDE	
			EMISA (Electro Mercantil Industrial S A Spain)	Spain	EMISA (Electro Mercantil Industrial S A Spain)	
			ERSKINE	United Kingdom	ERSKINE	
			EXIDE	USA	EXIDE	
9	LV DISTRIBUTION PANELS					
9.1	AC & DC DIST.PANELS	31-TMSS-02	ABB/AEIL	KSA	ABB/AEIL	
			ALFANAR ELECTRICAL SYSTEMS	KSA (Riyadh)	ALFANAR ELECTRICAL SYSTEMS	
			EAST & WEST FACTORY	KSA (DAMMAM)	EAST & WEST FACTORY	
			Electrical Panel Board Factory / HAWA	KSA (DAMMAM)	Electrical Panel Board Factory /	

			Trading		HAWA Trading	
			EPS Ltd. (Groupe Schneider)	KSA(Riyadh)	EPS Ltd. (Groupe Schneider)	
			ETA-PCS	UAE-Dubai	ETA-PCS	Type/Design, special, routine shall be performed for the first at an independent laboratory in the presence of 3rd party & 3 SEC engineers. Extended warranty for 10 years.
			Mohammad Al-Ojaimi Factory	KSA(Riyadh)	Mohammad Al-Ojaimi Factory	
			Musaid Switchgear	KSA(Riyadh)	Musaid Switchgear	
			REMAL	KSA (DAMMAM)	REMAL	
			Siemens	KSA (Jeddah)	Siemens	
10	LOAD BREAK SWITCHES UP TO 34.5KV & RING MAIN UNITS, 15KV					
10.1	LOAD BREAK SWITCHES UP TO 34.5 KV	APPLICABLE STANDARDS	AREVA	France	AREVA	
			EPS Ltd. (Groupe Schneider)	KSA (Riyadh)	EPS Ltd. (Groupe Schneider)	
			FRITZ DRIESHER KG	Germany	FRITZ DRIESHER KG	
			HITACHI	Japan	HITACHI	
			KONCAR	Croatia/ Hrvatska	KONCAR	
			SIEMENS	Germany	SIEMENS	
11	NETURAL EARTHING RESISTORS UP TO 33KV					
11.1	NER UP TO 33 KV	57-TMSS-01	FURSE	United Kingdom	FURSE	

			M.S.RESISTANCES	France	M.S.RESISTANCES	Extended guarantee/warranty for 10years
			METAL DEPLOYE	France	METAL DEPLOYE	
12	BARE CONDUCTORS					
12.1	TYPE ACAR/ACSR/ AAAC UPTO 33 KV	10-TMSS-01	ALCOA	USA	ALCOA	
			APAR Industries Ltd. NALAGARH	India NALAGARH	APAR Industries Ltd. NALAGARH	Based on TS & SD letter # 10-01566-2-03032300 dated 14/06/2010, it is prequalified for Bar Conductors as confirming to SEC specification # 10-TMSS-01, rev.01 with following conditions: · The first batch of each type of conductors to be supplied to SEC shall be type tested in an independent accredited test laboratory in the presence of three (3)SEC engineers & one SEC approved independent inspection agency inspector an all the costs pertaining to the test shall be borne by the manufacturer. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19dated 22nd May2010. · Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19dated 22nd May2010.
			APAR Industries Ltd. SILVASSA	India SILVASSA	APAR Industries Ltd. SILVASSA	Based on TS & SD letter # 10-01566-2-03032300 dated 14/06/2010, it is prequalified for Bar Conductors as confirming to SEC specification # 10-TMSS-01, rev.01 with following conditions: · The first batch of each type of conductors to be supplied to SEC shall be type tested in an independent accredited test laboratory in the presence of three (3)SEC engineers & one SEC approved independent inspection agency inspector an all the costs pertaining

						to the test shall be borne by the manufacturer. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19dated 22nd May2010. · Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19dated 22nd May2010.
			MIDAL CABLE LTD.	Bahrain Manama	MIDAL CABLE LTD.	
			Oman Cable Industries	Muscat	Oman Cable Industries	First lot of each type tested in an independent laboratory per 10TMSS-01 & other intl. standards, in presence of SEC engineers and all cost shall be borne by the manufacturer, 10years extended warranty.
			Riyadh Cables	KSA(Riyadh)	Riyadh Cables	
			Saudi Cables	KSA (Jeddah)	Saudi Cables	
			SOUTHWIRE	USA	SOUTHWIRE	
			STERLITE (India)	India	STERLITE (India)	Based on TS & SD letter # 10-F001691/01-03032301 dated 19/06/2010, it is prequalified for Bar Conductors types (ACAR,ACSR &AAAC) as confirming to SEC specification # 10-TMSS-01, rev.01 with following conditions: · The first batch of (AAAC) type to be supplied to SEC shall be type tested in an independent accredited test laboratory in the presence of three (3)SEC engineers & one SEC approved independent inspection agency inspector an all the costs pertaining to the test shall be borne by the manufacturer. · Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
12.2	TYPE ACSR/AW BARE	10-TMSS-01	ALCOA	USA	ALCOA	
			APAR Industries Ltd. NALAGARH	India NALAGARH	APAR Industries Ltd. NALAGARH	Based on TS & SD letter # 10-01566-2-03032300 dated 14/06/2010, it is prequalified for Bar

	CONDUCTOR					Conductors as confirming to SEC specification # 10-TMSS-01, rev.01 with following conditions: · The first batch of each type of conductors to be supplied to SEC shall be type tested in an independent accredited test laboratory in the presence of three (3)SEC engineers & one SEC approved independent inspection agency inspector an all the costs pertaining to the test shall be borne by the manufacturer. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19dated 22nd May2010. · Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19dated 22nd May2010.
			APAR Industries Ltd. SILVASSA	India SILVASSA	APAR Industries Ltd. SILVASSA	Based on TS & SD letter # 10-01566-2-03032300 dated 14/06/2010, it is prequalified for Bar Conductors as confirming to SEC specification # 10-TMSS-01, rev.01 with following conditions: · The first batch of each type of conductors to be supplied to SEC shall be type tested in an independent accredited test laboratory in the presence of three (3)SEC engineers & one SEC approved independent inspection agency inspector an all the costs pertaining to the test shall be borne by the manufacturer. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19 dated 22nd May2010. · Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19 dated 22nd May2010.
			JEDDAH CABLE CO.	KSA (Jeddah)	JEDDAH CABLE CO.	
			MIDAL CABLE LTD.	Bahrain Manama	MIDAL CABLE LTD.	
			Oman Cable Industries	Muscat	Oman Cable	First lot of each type tested in an independent laboratory per 10TMSS-01 & other intl.

					Industries	standards, in presence of SEC engineers and all cost shall be borne by the manufacturer, 10years extended warranty.
			Riyadh Cables	KSA(Riyadh)	Riyadh Cables	
			Saudi Cables	KSA (Jeddah)	Saudi Cables	
			SOUTHWIRE	USA	SOUTHWIRE	
			STERLITE (India)	India	STERLITE (India)	Based on TS & SD letter # 10-F001691/01-03032301 dated 19/06/2010, it is prequalified for Bar Conductors types (ACAR,ACSR &AAAC) as confirming to SEC specification # 10-TMSS-01, rev.01 with following conditions: · ACAR & ACSR conductors are successfully type tested in accredited laboratory in presence of SEC engineers with acceptable results. · For AAAC conductors, type, special, routine and sample tests shall be conducted on the first batch in an independent accredited test laboratory in the presence of three (3) SEC engineers & one (1) SEC approved independent inspection agency inspector and all cost pertaining to the test shall be borne by the manufacturer. · Ten (10) years warranty from the date if PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
12.3	GROUND WIRE	10-TMSS-03	ALCOA	USA	ALCOA	
			APAR Industries Ltd. NALAGRAH	India NALAGRAH	APAR Industries Ltd. NALAGRAH	Based on TS & SD letter # 10-01566-2-03032300 dated 14/06/2010, it is prequalified for Bar Conductors as confirming to SEC specification # 10-TMSS-01, rev.01 with following conditions: · The first batch of each type of conductors to be supplied to SEC shall be type tested in an independent accredited test laboratory in the presence of three (3)SEC engineers & one SEC approved independent inspection agency inspector an all the costs pertaining to the test shall be borne by the manufacturer. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19dated 22nd May2010.

						• Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19dated 22nd May2010.
			APAR Industries Ltd. SILVASSA	India SILVASSA	APAR Industries Ltd. SILVASSA	Based on TS & SD letter # 10-01566-2-03032300 dated 14/06/2010, it is prequalified for Bar Conductors as confirming to SEC specification # 10-TMSS-01, rev.01 with following conditions: • The first batch of each type of conductors to be supplied to SEC shall be type tested in an independent accredited test laboratory in the presence of three (3)SEC engineers & one SEC approved independent inspection agency inspector an all the costs pertaining to the test shall be borne by the manufacturer. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19 dated 22nd May2010. • Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order. This has been confirmed in writing by the manufacturer, through letter # AIL/BRD/PQ/SEC19 dated 22nd May2010.
			ECN CG SA	Spain	ECN CG SA	
			J-POWER SYSTEM CORP	Japan	J-POWER SYSTEM CORP	
			MIDAL CABLE LTD.	Bahrain Manama	MIDAL CABLE LTD.	
			RIYADH CABLES	KSA(Riyadh)	RIYADH CABLES	
			SAUDI CABLE	KSA (Jeddah)	SAUDI CABLE	
			SOUTHWIRE	USA	SOUTHWIRE	
			TREFILEUROPE	France	TREFILEUROPE	

12.4	COPPER CLAD, STEEL GROUNDING CONDUCTOR & GROUNDING ROD	10-TMSS-05	Comscope Bimetals USA	USA Statesville, NC	Comscope Bimetals USA	
			FM Sudafix	UK Nottingham	FM Sudafix	Including exothermic Welding & Grounding Connectors
			FURSE	Saudi Arabia	FURSE	
			GANSEC SHENGYUEAN WIRE & CABLE CO.LTD.	China	GANSEC SHENGYUEAN WIRE & CABLE CO.LTD.	
			ILJIN CORP/JIWOONG ELECTRIC CO.	South Korea	ILJIN CORP/JIWOONG ELECTRIC CO.	
			LTV COPPERWELD	USA	LTV COPPERWELD	
			SAUDI ELECTRIC INDUSTRIES CO.LTD.	KSA (Jeddah)	SAUDI ELECTRIC INDUSTRIES CO.LTD.	
12.5	COMPOSITE OPTICAL OH GROUND WIRE (OPGW)	10-TMSS-04	AFL TELECOMMUNI-CATIONS EUROPE LTD	United Kingdom	AFL TELECOMMUNI-CATIONS EUROPE LTD	Previously ALCOA FUJIKURA LTD (AFL)
			AFL Telecommunications GmbH	Germany Monchengladbach	AFL Telecommunications GmbH	Extended Guarantee/Warranty for a period of 10 years. Previously Draka comteq Germany GMBh & KG
			BRUGG TELECOM AG	Switzerland	BRUGG TELECOM AG	
			CORNING CABLES (BICC)	UK-PRESCOT	CORNING CABLES (BICC)	
			DRAKA NK	Finland	DRAKA NK	
			FUJIKURA	Japan	FUJIKURA	
			FURUKAWA ELECTRIC CO LTD.	Japan	FURUKAWA ELECTRIC CO LTD.	

			Jiangsu Zhongtian Technology Co. Ltd (ZTT) China	China Nantong	Jiangsu Zhongtian Technology Co. Ltd (ZTT) China	Based on TS & SD letter # 10-01654-03032301 dated 05/06/2010, it is pre-qualified for OPGW as confirming to SEC specification # 10-TMSS-04, rev.0 with the following conditions: • The first batch of OPGW to be supplied to SEC shall be type tested in an independent testing laboratory in the presence of three (3) SEC engineer & one (1) SEC approved independent agency inspector and all cost pertaining to the test shall be borne by the manufacturer. All type/design, routine/sample and special tests as per SEC material specification number 10-TMSS-04, rev.0 shall be conducted. This was confirmed in writing by the manufacturer through letter # NIL dated 18th June 2009 • Ten (10) years warranty from the date of PAC of turnkey project in case of contract award or date of delivery in case of direct material supply order. This has been confirmed in writing by the manufacturer through letter # NIL dated 18TH June 2009
			LS CABLES	Republic Of Korea	LS CABLES	Based on TS & SD letter # 10-0258-03032301 dated 19/09/2010, it is pre-qualified for OPGW as confirming to SEC specification # 10-TMSS-04, rev.0 with the following conditions: • All type, design, special & routine as per SEC material specifications # 10-TMSS-04, rev.0 of first batch of OPGW to be supplied to SEC in securing an order in the manufacture's laboratory in the presence of three (3) engineer & one (1) approved independent inspection agency inspector and all cost pertaining to the test shall be borne by the manufacturer. This was confirmed in writing by the manufacturer through letter # NIL dated 24th December 2009. • Ten (10) years warranty from the date of PAC of turnkey project in case of contract award or date of delivery in case of direct material supply order. This has been confirmed in writing by the manufacturer through letter # NIL dated 24TH December 2009.
			PHILIPS FITEL	Canada	PHILIPS FITEL	
			PIRELLI	Italy	PIRELLI	

			PRYSMIAN TELECO	Spain	PRYSMIAN TELECO	Previously "PIRELLI"
			TAIHAN ELECTRIC WIRE COMPANY	Republic Of Korea	TAIHAN ELECTRIC WIRE COMPANY	Based on TS & SD letter # 09-F00730/03-03032301 dated 24TH August 2009.Taihan Electric Wire Co. Ltd. From South Kora Anyang for OPWG as confirming to SEC specification # 10-TMSS-04, rev.0 with the following conditions: • All type, design, special & routine as per SEC specifications/standards shall be carried out on the first batch to be supplied to SEC in securing an order in the manufacture's laboratory in the presence of three (3) engineer & one (1) approved independent inspection agency inspector. • Ten (10) years warranty from the date of turnkey project in case of contract award or date of delivery in case of direct material supply order.
12.6	HEAT RESITANT ALUMINUM ALLOY CONDUCTOR	10-TMSS-06	FUJIKURA VISCAS CORP	Japan	FUJIKURA VISCAS CORP	It is a consortium of FUJIKURA &FURUKAWA. Only invar conductors are per clause 1.3 & 1.4 of 10TMSS-06. Forst lot to be type tested in the presence of 3 SEC engr & Inspector, extended warranty for 10 years.
			J-POWER SYSTEM CORP.	Japan	J-POWER SYSTEM CORP.	Based on TS & SD letter # 09-00649-1-03032301dated 28th March 2009 it is pre-qualified for GTACSR & GZTACSR.
			LS CABLES	Republic Of Korea	LS CABLES	Based on TS & SD letter # 10-0258-03032301 dated 19/09/2010 it is pre-qualified for Heat Resistance Aluminum Alloy Conductors, Gap & non Gap as confirming to SEC specification #10-TMSS-06, rev.0 with the following conditions: • All type/designs, routine/sample and special tests per SEC material specification # 10-TMSS-06, rev.0 of first batch of each type of Heat Resistant Aluminum Alloy Conductors to be supplied to SEC shall be conducted in an independent testing laboratory in the presence of three (3) SEC engineers & one (1)SEC approved independent inspection agency inspector & all cost of pertaining to the test shall be borne by the manufacturer. This was confirmed in writing by the manufacturer through letter # NIL dated 08January 2010. • Ten (10) years warranty for the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order. This has been

						confirmed in writing by the manufacturer through letter # NIL dated 08th January 2010. - Full time presence of LS-Korea expert during execution of first order with GAP type conductor for guidance & training of SEC/Contractor staff about installation of this type conductor as confirmed through LS letter # LS/LHJ-100526/00 dated 26th May 2010. - Full technical support will be provided to SEC during operation of GAP Conductors for minimum five (5) years period from first project as confirmed through LS letter # LS/LHJ-100526/00 dated 26th May 2010.
13	INSULATED CONDUCTOR CABLE (XLPE)					
13.1	13.8 KV XLPE CABLE 13.8 KV	APPLICABLE STANDARDS	DUBAI CABLE CO.	UAE DUBAI	DUBAI CABLE CO.	Including joints & terminations.
			ELSEWEDY EGYTECH CABLE CO.	EGYPT	ELSEWEDY EGYTECH CABLE CO.	Including joints & terminations.
			JEDDAH Cable Co.	KSA (Jeddah)	JEDDAH Cable Co.	Including joints & terminations.
			LS	Republic Of Korea	LS	Previously LG; including joints & terminations.
			Oman Cable Industries	Muscat	Oman Cable Industries	Ref # is 08-02531/01-0303230 dated 08/11/2008 no accessories as per-qualified.
			Riyadh Cables	KSA(Riyadh)	Riyadh Cables	Including joints & terminations.
			Saudi Cables	KSA (Jeddah)	Saudi Cables	Including joints & terminations.
			TAIHAN ELECTRIC WIRE COMPANY	Republic Of Korea	TAIHAN ELECTRIC WIRE COMPANY	Including joints & terminations.
13.2	33 & 34.5 KV XLPE CABLE	APPLICABLE STANDARDS	DAINICHI NIPPON CABLES (MITSUBISHI)	Japan	DAINICHI NIPPON CABLES (MITSUBISHI)	Including joints & terminations.
			DEMIRER KABILO / SAUD CABLE CO.	Turkey	DEMIRER KABILO / SAUD CABLE CO.	Including joints & terminations.

			DUBAI CABLE CO.	UAE DUBAI	DUBAI CABLE CO.	Including joints & terminations.
			ELSEWEDY EGYTECH CABLE CO.	EGYPT	ELSEWEDY EGYTECH CABLE CO.	Including joints & terminations.
			FUJIKURA CABLES	Japan	FUJIKURA CABLES	Including joints & terminations.
			Jeddah Cable Co.	KSA (Jeddah)	Jeddah Cable Co.	Including joints & terminations.
			J-Power System Corp.	Japan	J-Power System Corp.	Including joints & terminations.
			LS	Republic Of Korea	LS	Previously LG; including joints & terminations.
			MKM	Hungary	MKM	Including joints & terminations.
			Oman Cable Industries	Muscat	Oman Cable Industries	Ref # is 08-02531/01-0303230 dated 08/11/2008 no accessories as per-qualified.
			Riyadh Cables	KSA(Riyadh)	Riyadh Cables	Including joints & terminations.
			Saudi Cable	KSA (Jeddah)	Saudi Cable	Including joints & terminations.
			SHOWA CABLE	Japan	SHOWA CABLE	Including joints & terminations.
			TAIHAN ELECTRIC WIRE COMPANY	Republic Of Korea	TAIHAN ELECTRIC WIRE COMPANY	Including joints & terminations.
13.3	XLPE CABLES 69 KV CABLES	11-TMSS-01	ALCATEL	France	ALCATEL	Including joints & terminations.
			DAINICHI NIPPON CABLES (MITSUBISHI)	Japan	DAINICHI NIPPON CABLES (MITSUBISHI)	Including joints & terminations.
			DEMIRER KABILO / SAUD CABLE CO.	Turkey	DEMIRER KABILO / SAUD CABLE CO.	Including joints & terminations.
			DRAKA NK	Finland	DRAKA NK	Including joints & terminations.
			ELSEWEDY EGYTECH CABLE	Egypt	ELSEWEDY EGYTECH CABLE CO.	To carry out all type/design & routine/sample test at SEC approved independent laboratory in presence of 3rd party inspection agency & three

			CO.			engineers of SEC for first contract, 10 years of extended guarantee/warranty. For joints and terminations also.
			FUJIKURA CABLES	Japan	FUJIKURA CABLES	Including joints & terminations.
			FURUKAWA ELECTRIC CO. LTD	Japan	FURUKAWA ELECTRIC CO. LTD	Including joints & terminations.
			Jeddah Cable Co.	KSA (Jeddah)	Jeddah Cable Co.	Based on TS & SD letter # 10-02784-01-03032301 dated 24/10/2010, it is pre-qualified for 69KV, 1x630mm2 XLPE POWER CABLE AS CONFIRMING TO sec SPECIFICATION # 11-TMSS-01.rev.0, with the following conditions: · Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order. This was confirmed in writing by Jeddah Cable Co. through letter # NIL dated 26th June 2006.
			J-Power System Corp.	Japan	J-Power System Corp.	Including joints & terminations.
			MKM	Hungary	MKM	Including joints & terminations.
			NEXANS NORWAY AS	Norway	NEXANS NORWAY AS	Including joints & terminations.
			Riyadh Cables	KSA(Riyadh)	Riyadh Cables	Including joints & terminations.
			PIRELLI KABEL AND SYSTEM Gmbh	Germany Berlin	PIRELLI KABEL AND SYSTEM Gmbh	Including joints & terminations.
			Saudi Cable	KSA (Jeddah)	Saudi Cable	Including joints & terminations.
			SUDKABEL	Germany	SUDKABEL	Previously ABB. Including joints & terminations.
			Quingdao Hanhe Cable Co.	China	Quingdao Hanhe Cable Co.	Prequalified in Power Cables (XLPE) up to 69 KV.
		12-TMSS-11	*	--------		Link box supplied/manufactured by approved power cable manufacturers are acceptable.
			AARTCO	KSA (Al-Khobar)	AARTCO	Up to 230 KV

14.1	LINK BOX FOR U/G POWER		ABB	Sweden	ABB	
			AL SHAHRANI EST.	KSA(Riyadh)	AL SHAHRANI EST.	
			DEMIRER KABILO / SAUD CABLE CO.	Turkey	DEMIRER KABILO / SAUD CABLE CO.	
			FUJIKURA VISCAS CORP.	Japan	FUJIKURA VISCAS CORP.	
			HAYCOLEC SWITCHGEAR PTY	Australia NSW	HAYCOLEC SWITCHGEAR PTY	
			J-Power System Corp.	Japan	J-Power System Corp.	
			LS CABLES	Republic Of Korea	LS CABLES	Previously LG
			Mohammed Al-Ojaimi Factory	KSA (Riyadh)	Mohammed Al-Ojaimi Factory	Pad mounted stainless steel boxes & underground fiber glass boxes up to 132 KV acceptable. Extended guarantee for 10 years for the first supply and it will be reduced yearly in case of future project awards.
			NEXANS	France	NEXANS	
			PIRELLI	Germany Berlin	PIRELLI	
			Power & Telecommunication Equipment Factory (P.T.E.Co.) (CEPCO)	KSA (Jeddah)	Power & Telecommunication Equipment Factory (P.T.E.Co.) (CEPCO)	Based on TS & SD fax ref # 09-00396-1-03032301 dated 17/02/2009 P.T.E is prequalified for Link Boxes rated up to 380KV. *(10) years extended warranty
			STEINER	GERMANY	STEINER	
14.5	SHEATH VOLTAGE LIMITERS (SVL)	APPLICABLE STANDARDS	ABB	Sweden	ABB	
			HAYCOLEC SWITCHGEAR PTY	Australia NSW	HAYCOLEC SWITCHGEAR PTY	
		APPLICABLE STANDARDS	FUJIKURA VISCAS CORP.	Japan	FUJIKURA VISCAS CORP.	

14.6	EARTHING BONDING CABLE		J-Power System Corp.	Japan	J-Power System Corp.	
			LS CABLES	Republic Of Korea	LS CABLES	Previously LG
			PIRELLI	Germany Berlin	PIRELLI	
			Saudi Cable	KSA (Jeddah)	Saudi Cable	
			Saudi Modern Co. (Riyadh Cables)	KSA (Riyadh)	Saudi Modern Co. (Riyadh Cables)	
15	FIBER OPTIC CABLE					
15.1	NON-METALLIC FIBER OPTIC (F/O) CABLE & ACCESSORIES	48-TMSS-02	ADC	USA	ADC	
			AFL TELECOMMUNICATI-ONS EUROPE LTD	UNITED KINGDOM	AFL TELECOMMUNICATI -ONS EUROPE LTD	Previously ALCOA FUJIKURA LTD (AFL)
			ALCATEL	Sweden	ALCATEL	
			B.V.TWENTSCHE KABELFABRIEK	Netherlands Naaksbergen	B.V.TWENTSCHE KABELFABRIEK	
			BICC	UNITED KINGDOM	BICC	
			BRUGG TELECOM AG	Switzerland	BRUGG TELECOM AG	
			CORNING CABLES	UK PRESCOT	CORNING CABLES	
			DRAKA NK	Finland	DRAKA NK	
			ERICSON	Sweden	ERICSON	Accessories Only
			FUJIKURA LTD.	Japan	FUJIKURA LTD.	
			FURUKWA	Japan	FURUKWA	

			HITACHI	Japan	HITACHI	
			INDISUTRIAS ARRUTI	Spain	INDISUTRIAS ARRUTI	Accessories Only
			LS	Republic Of Korea	LS	Previously LG
			Middle East Optic Fiber & Cable Manufacturing Co.(MEFC)	KSA (Riyadh)	Middle East Optic Fiber & Cable Manufacturing Co.(MEFC)	
			Middle East Specialized Cable (MESC)	KSA (Riyadh)	Middle East Specialized Cable (MESC)	
			NKF KABEL B.V	Netherlands	NKF KABEL B.V	
			NOKIA	Finland	NOKIA	Accessories Only
			Oman Fiber Optic Cable Company	Oman Rusayl	Oman Fiber Optic Cable Company	Based on TS & SD letter # 10-00909-2-03032300 dated April 06, 2010. It is pre-qualified for Non-Metallic Fiber Optic Cables as per SEC specification 48-TMSS-02, rev.0 with the following conditions: · Type tests: The first batch of each type of Non Metallic Fiber Optic Cable to be supplied to SEC shall be type tested pre relevant International and SEC specifications in the presence of three (3) engineers & one (1) SEC approved IIA inspector and all cost pertaining to the test shall be borne by the manufacturer as through letter # NIL dated September 12, 2009. · Extended Warranty: Ten (10) year extended warranty shall be applicable for all supplies made by Oman Fiber Optic Cable Company to SEC as confirmed through letter # EU.SEC.PQ.01 dated June 17, 2009.
			OPTOKON	CZECH Republic Jihlava	OPTOKON	Only for the following accessories: 1 Standard 19" rack (ROV Series) & 23" rack. 2 Standard 19" rack mount fiber optic patch panel type MCNP & MFDC consisting of 12/24/26/48 ports 3 Fiber optic wall mount box type MPIC

						consisting of 12/24/36/48 ports 4 Fiber storage shelf type MFSS 5 Optical pig tails/patch chords equipped with FC/PC & E2000 Connectors.
			PIRELLI	Italy	PIRELLI	
			PRYSMAIN TELECOM	Spain	PRYSMAIN TELECOM	Previously "PIRELLI"
			Riyadh Cables	KSA (Riyadh)	Riyadh Cables	
			Riyadh Telephone Cables Co.	KSA (Riyadh)	Riyadh Telephone Cables Co.	
			Saudi Cable	KSA (Riyadh)	Saudi Cable	
			SIEMENS	Germany	SIEMENS	
			SUMITOMO	Japan Yokohama	SUMITOMO	
			TELECT	Poland Wroclaw	TELECT	Based on TS & SD letter # 09-01095-03032301 dated 18th April 2009 for the following accessories: -Management rack E9000 Series. -Distribution & Termination unit LCX. -Wall mounted unit LnLINXS.
16	PILOT WIRE CABLES & ACCESSORIES					
16.0	PILOT WIRE CABLES & ACCESSORIES	45-TMSS-01 48-TMSS-03 48-TMSS-04 48-TMSS-05	DEMIRER KABLO	Turkey	DEMIRER KABLO	Cable & Accessories
			GOLDSTA	Republic Of Korea	GOLDSTA	Up to 100 pairs
			Jeddah Cable Co.	KSA (Jeddah)	Jeddah Cable Co.	
			KERPENWORK	Germany	KERPENWORK	Cable & Accessories
			LS CABLES	Republic Of Korea	LS CABLES	Previously LG
			Middle East Specialized Cable	KSA(Riyadh)	Middle East Specialized Cable	

			(MESC)		(MESC)	
			Riyadh Cables	KSA(Riyadh)	Riyadh Cables	
			Saudi Cable	KSA(Riyadh)	Saudi Cable	
			SIMENS	Germany	SIMENS	Cable & Accessories
			STEINER	Germany	STEINER	
			TAIHAN ELECTRIC WIRE COMPANY	Republic Of Korea	TAIHAN ELECTRIC WIRE COMPANY	
17	SHIELDED CABLE FOR INSTRUMENTATION					
17.0	SHIELDED CABLE FOR INSTRUMENTATION	APPLICABLE STANDARDS	ALPHA	USA	ALPHA	
			AT & T	USA New York	AT & T	
			BELDEN	USA	BELDEN	
			Middle East Specialized Cable (MESC)	KSA(Riyadh)	Middle East Specialized Cable (MESC)	
			Saudi Cable	KSA (Jeddah)	Saudi Cable	Based on TD & SD fax ref. # 08-02969-3-03032301 dated 07/01/2009, pre-qualified for Shielded Instrumentation & Thermocouple Cables with these conditions: -First batch shall be type, design, special, acceptance & routine tests in the factory test laboratory in presence of (3) SEC engineers & (1) independent inspector. -(10)years warranty.
			TEKAB Co. Ltd.	UAE Sharjah	TEKAB Co. Ltd.	Approved for cables without metallic sheath, type test certificate from independent lab to be submitted for 1st order, extended guarantee for 10 years.
18	POWER / OR CONTROL CABLE (0.6/1 KV)					

18.0	POWER / OR CONTROL CABLE (06/1 KV)	11-TMSS-10	ALFANAR ELECTRICAL SYSTEMS	KSA(Riyadh)	ALFANAR ELECTRICAL SYSTEMS	Based on TD & SD letter # 09-01432-03032301 dated 16th May 2009 prequalified for shielded instrumentation & thermocouple cables with these conditions: -First batch shall be type, design, special, acceptance & routine test in the factory test laboratory in presence of (3) SEC engineers & (1) independent inspector. -(10) years warranty.
			BELDEN	USA	BELDEN	
			ELSEWEDY EGYTECH CABLE CO.	Egypt	ELSEWEDY EGYTECH CABLE CO.	Based on TD & SD fax ref. # 09-00303/01 dated 18/02/2009.
			Jeddah Cable Co.	KSA (Jeddah)	Jeddah Cable Co.	
			Jordan New Cable Company	Jordan Amman	Jordan New Cable Company	
			Middle East Specialized Cable (MESC)	KSA(Riyadh)	Middle East Specialized Cable (MESC)	
			Oman Cable Industries	Muscat	Oman Cable Industries	Based on TD & SD letter # 10-02435-03032301 dated 06/09/2010 & 10-02611-03032301 dated 02/10/2010, it is prequalified for LV power & control cables (0.6/1KV) rating as confirming to SEC specification # 11TMSS-10, rev.0, with the following conditions: · Ten (10) years extended warranty for the proposed LV Power & control cables from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order. This was confirmed by Oman Cables Industry through letter # NIL dated 21/08/2010.
			Riyadh Cables	KSA(Riyadh)	Riyadh Cables	
			Saudi Cables	KSA (Jeddah)	Saudi Cables	
			TAIHAN ELECTRIC WIRE COMPANY	Republic Of Korea	TAIHAN ELECTRIC WIRE COMPANY	
			TEKAB Co. Ltd.	UAE	TEKAB Co. Ltd.	

				Sharjah		For cables with copper conductor with armor per clause 4.3.5b, 4.3.5d only, type test certificate from independent lab to be submitted for 1st order, extended guarantee for 10 years.
19	CONDUCTOR FITTINGS / CABLE ACCESSORIES					
19.1	CABLE SPLICE & TERMINATION KITS UP TO 132 KV	12-TMSS-10	*	--------		Approved power cable manufactures up to 132 KV are acceptable suppliers for splice and termination kits of the same rating.
			ABB	Switzerland	ABB	
			BRUGG CABLE	Switzerland	BRUGG CABLE	
			DAITWEILER	United Kingdom	DAITWEILER	
			ELASTIMOLD	USA	ELASTIMOLD	
			AFUJIKURA VISCAS CORP.	Japan	AFUJIKURA VISCAS CORP.	
			G & W	USA	G & W	Suspended for all ongoing & future projects due to frequent failure & very poor follow up response from the manufacturer.
			J-POWER SYSTEM CORP.	Japan	J-POWER SYSTEM CORP.	
			LS CABLES	Republic Of Korea	LS CABLES	Previously LG.
			NEXANS	Switzerland	NEXANS	
			PFISTERER IXOSIL	Switzerland	PFISTERER IXOSIL	Previously SEFAG IXOSIL.
			PIRELLI	Germany Berlin	PIRELLI	
			RAYCHEM	Germany	RAYCHEM	

			RAYCHEM	KSA (Dammam)	RAYCHEM	LIMITED TO 69 KV only, under the group of TYCO.
			TAIHAN ELECTRIC WIRE COMPANY	Republic Of Korea	TAIHAN ELECTRIC WIRE COMPANY	
20	CONNECTORS, OVERHEAD LINE COMPRESSION TYPE					
20.0	CONNECTORS, OVERHEAD LINE COMPRESSION TYPE	12-TMSS-02	A SLVI & C SPA	Italy Milan	A SLVI & C SPA	
			ALCOA	USA	ALCOA	
			BURNDY	USA	BURNDY	
			CAROBENI	Italy	CAROBENI	
			DALEKOVOD	Croatia Hrvatska	DALEKOVOD	Based on TS & SD fax ref. # 10-01179-03032301 dated April 20, 2010, this manufacturer is prequalified for compression type connectors for O/H/ T/L per 12-TMSS-02. Rev.0 with the following conditions: · Each new design of compression type connectors for O/H T/L which has NOT been tested/supplied to SEC before, shall be tested as per 12-TMSS-02. · Extended warranty of 10 years.
			ELASTIMOLD	USA	ELASTIMOLD	
			HOMAC	USA	HOMAC	
			INDUSTRIAS ARRUTI	Spain	INDUSTRIAS ARRUTI	
			ISELFA	Italy	ISELFA	
			MOSDORFER	Austria	MOSDORFER	
			PFISTERER	Switzerland	PFISTERER	Previously as SEFAG AG

			PFISTERER	Sweden	PFISTERER	Previously as SEFAG AG
			SA_RA Energy, Construction, Trade & Industry Co. Inc.	Turkey Ankara (Polatli Plant)	SA_RA Energy, Construction, Trade & Industry Co. Inc.	Based on TS & SD fax ref. # 09-00087-03032301 dated 11/01/2009 prequalified for TL & S/S lattice steel structure, line hardware and compression type connector for T/L O/J up to 380KV except space damper up to 230 Kv with the following conditions: -All test shall be carried out in the presence of (3) SEC engineers. -(10) years warranty.
			SICAMEX	France Feugerolle	SICAMEX	
			SM-CI	France	SM-CI	Previously as FCI (SAAE) France.
21	INSULATORS					
21.1	PORCELAIN INSULATOR STATION POST INSULATOR PORCELAIN, UP TO 132 KV, 230 KV & 380 KV	15-TMSS-01	DIELVE	Italy	DIELVE	Approved only up to 132 KV Only.
			LAPP	Germany Rosenthal	LAPP	
			LAPP	USA	LAPP	
			NGK	Japan	NGK	
			PPC INSULATORS	AUSTRIA	PPC INSULATORS	Based on TS & SD/ESD e-mail dated 07/07/2010 & PPC Insulators (Austria) letter # Nil DATED 4TH July 2010, it is prequalified for station post insulator porcelain, up to 132 KV, 230 KV & 380 KV as the following to SEC specification # 15-TMSS-01, REV.0 with the following conditions: A)- Type tests conducted in presence of SEC engineers on 132 KV-10.9 KN (Drawing # 124-11740-132-1010), 230 KV-10.3KN (Drawing # 124-11280-132-1010) & 380KV-12KN (Drawing # 124-11860-132-101 & 124-11870-132-801) Insulators. B) Any New type of insulators (other than the types which are mentioned in A) offered by PPC shall be type tested presence of three (3) SEC engineers and one (1) approved independent agency inspector: C) Ten (10) years warranty from warranty from the date of PAC of the turnkey project in case of contract award or date delivery in case of direct

						material supply order.
			SIEMENS	Germany	SIEMENS	
			W.S.I	INDIA	W.S.I	Approved only up to 132 KV only
21.3	OHL COMPOSITE INSULATORS UP TO 230KV	15-TMSS-05	E.B.REBOSIO S.r.I	Italy	E.B.REBOSIO S.r.I	Up to 132 KV Only. Complete type, routine/sample tests for the first order & 10 years warranty from the date of PAC is required.
			FCI (FURUKAWA COMPOSITE INSULATORS LTD)	Hungary Budapest	FCI (FURUKAWA COMPOSITE INSULATORS LTD)	
			LAPP	Germany Rosenthal	LAPP	
			MACLEAN POWER SYSTEM	USA Illinois	MACLEAN POWER SYSTEM	
			NGK LOCKE INC.	USA	NGK LOCKE INC.	
			PFISTERER SEFAG AG	SWITZERLAND	PFISTERER SEFAG AG	It is pre-qualified for composite suspension & tension insulators up to 380Kv composite line post insulators up to 132 KV per SEC specification 15-TMSS-05, REV.0 with the following conditions based on TS & SD letter # 10-02374-03032301 dated August 18, 2010. A) Type tests have been conducted in presence of SEC Engineers on: -110KV, 120KV (Drawing # 138 206-393A) & 160Kn (Drawing # 138 206-887A) at 40 KA - 380KV, 160KN (Drawing # 138 206-588BC) at 50KA. However, the manufactures shall perform the power Arc-Test only at 63 KA. B) Any new type of insulators (other than the types which are mentioned in A) offered by PFISTERRER SEFAG AG – Switzerland shall be Type Tested in presence of three(3) SEC engineers & one (1) approved independent agency inspector. C) Ten (10) years warranty from the date of PAC.

			SEDIVER	BRAZIL	SEDIVER	COMPLETE SAMPLE, TYPE & ROUTINE TESTS FOR THE FIRST ORDERS IS REQUIRED.
			XIANGFAN GUOWANG	CHINA	XIANGFAN GUOWANG	MOLDED DESIGN ONLY: UP TO 132KV ONLY, ALL THE TYPE/SPECIAL/ROUTUINE TESTS TO BE CARRIED OUT FOR FIRST CONTRACT/PROJECT AS SEC APPROVED INDEPENDENT LAB IN PRESENCE OF 3 SEC ENGINEERS & THIRD PARTY INSPECTOR APPROVED BY SEC, 10 YEARS EXTENDED WARRANTY.
22	LINE INSULATOR HARDWARE FITTINGS					
22.1	HARDWARE FITTINGS	12-TMSS-01	A B CHANCE	USA Centralia, Mo	A B CHANCE	
			A SLIVI & C SPA	Italy Milano	A SLIVI & C SPA	
			ALCOA	USA	ALCOA	
			CAROBENI	Italy	CAROBENI	
			DALEKOVOD	Croatia/ Hrvatska	DALEKOVOD	Based on TS & SD fax # 10-01179-03032301 dated April 20, 2010, this manufacturer is prequalified for line hardware except space dampers per 12-TMSS-01, rev.0 with the following conditions: • Each new design of hardware which has NOT been type tested/supplied to SEC before, shall be type tested as per 12-TMSS-01. • Extended warranty of 10 years.
			DAMP	Italy	DAMP	
			DERVAUX	France	DERVAUX	Previously "SM-CI-FRANCE" the name has been changed to DERVAUX-France based on DERVAUX letter # NIL dated 13/10/2009.
			INDUSTRIAS ARRUTI	Spain	INDUSTRIAS ARRUTI	
			ISELFA	Italy	ISELFA	
			JOSLYN	USA	JOSLYN	

			MOSDORFER GmbH	Austria-Weiz	MOSDORFER GmbH	
			PFISTERER	Switzerland	PFISTERER	Previously as SEFAG AG
			PFISTERER	Switzerland	PFISTERER	Previously as SEFAG AG
			PREFORMED LINE PRODUCTC (PLP)	USA	PREFORMED LINE PRODUCTC (PLP)	
			SA_RA Energy, Construction, Trade & Industry Co. Inc.	Turkey Ankara (Polatli Plant)	SA_RA Energy, Construction, Trade & Industry Co. Inc.	Based on TS & SD fax ref. # 09-00087-03032301 dated 11/01/2009 prequalified for TL & S/S lattice steel structure, line hardware & compression type connectors for T/L O/J up to 380KV expect damper up to 230 KV with the following conditions: -All tests shall be carried out in presence of (3) SEC engineers. - 10 years warranty.
			SICAMEX	France Feugerolle	SICAMEX	
23	LINE SUPPORT STRUCTURE					
23.1	SUBSTATION STEEL STRUCTURE (LATTICED)	20-TMSS-01	AL BABTAIN	KSA(Riyadh)	AL BABTAIN	
			AL ZAMIL STEEL	KSA (Dammam)	AL ZAMIL STEEL	
			AL-BABTAIN POWER & TELECOM Co.	Egypt N/A	AL-BABTAIN POWER & TELECOM Co.	First lot of each type of structure shall be type tested in an independent lab in presence of SEC engineers, 10 years extended warranty.
			ALFANAR STEEL	KSA(Riyadh)	ALFANAR STEEL	Based on TS & SD letter # 08-10581/1—03032301 dated 25th May 2009, it is prequalified for transmission towers for projects up to 132 KV, substation & gantry steel structure up to 380KV & communications tower for transmission sector as confirmed to SEC specification # 20-TMSS-01, rev.0 with the following conditions: · All type, routines & special tests, including

						the load test shall be supplied to SEC in securing an order in the manufacturer's testing laboratory in the presence of three (3) SEC engineer & one (1) approved independent inspection agency inspector. · Ten (10) years warranty from the date if PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
			ARABIAN INTERNATIONAL Co.	KSA (Jeddah)	ARABIAN INTERNATIONAL Co.	
			Energy Steel Solution (Hisham Helal El Sewedy & Partners for Steel Industries Co.	KSA(Rabigh)	Energy Steel Solution (Hisham Helal El Sewedy & Partners for Steel Industries Co.	Based on TS & SD letter # 09-2179/07—03032301 dated 11th November 2009 & approval of Executive Director for TS & SD letter # 09-02179/06-03032301 dated 11th November 2009, it is prequalified for transmission line, substation steel structures & communication towers as confirming to SEC specification # 20-TMSS-01, rev.0 with the following conditions: The approval will be initially restricted to the following items only: 1. Transmission Towers for projects up to 132 KV. 2. Substation steel structures and gantry steel structures for projects up to 380KV. 3. Communication towers for Transmission Sector · All type, design, special & routine tests (including the load test) as per SEC specifications/standards and all relevant international standards shall be carried out on the first batch of supplied to SEC in securing an order in the presence of three (3) SEC engineers & one (1) approved independent inspection agency inspector. · Ten (10) years warranty from the date if PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
			GEYARD FOR COMMERCE & IMPORT CO.	KSA (Al-Khobar)	GEYARD FOR COMMERCE & IMPORT CO.	
			HIDADA	KSA (Jeddah)	HIDADA	

			KEC INTERNATIONAL LTD.	India	KEC INTERNATIONAL LTD.	Nagpur-Butipori, Jabalpur, Jaipur plants are acceptable, all the tests shall be carried out for first contract/project in presence of three (3) SEC engineers, 10 years of extended warranty.
			LARSEN & TOUBRO LTD	India Chennai	LARSEN & TOUBRO LTD	
			NAJEM	KSA	NAJEM	
			SA_RA Energy, Construction, Trade & Industry Co. Inc.	Turkey Ankara (Polatli Plant)	SA_RA Energy, Construction, Trade & Industry Co. Inc.	Based on TS & SD fax ref # 09-00087-03032301 dated 11/01/2009 prequalified for TL & S/S lattice steel structure, line hardware & compression type connector for T/L O/J up to 380KV except space damper up to 230kv with the following conditions: -All tests shall be carried in the presence of (3) SEC engineers. -(10) Years warranty.
23.3	STEEL POLES, TUBULAR TO 230 KV	20-TMSS-02	Energy Steel Solution (Hisham Helal El Sewedy & Partners for Steel Industries Co.	KSA(Rabigh)	Energy Steel Solution (Hisham Helal El Sewedy & Partners for Steel Industries Co.	Based on TS & SD letter # 10-0331/06--03032301 dated 28/06/2010, it is prequalified for steel poles, Tubular up to 230 KV as confirming to SEC specification # 20-TMSS-02, rev.0 with the following conditions: · All type, routine & special Tests including the load test per SEC specification # 20-TMSS-02 and all relevant International Standards shall be conducted on the first batch in presence of three (3) SEC engineers & one (1) approved independent inspection agency (IIA) inspector and related cost pertaining to the test shall be borne by Hesham Helal El Sewedy & Partners for Steel Industries Co.(Energya Steel Solutions) as confirmed by manufacturer through letter # SEC/WK/100524 dated 24th May 2010. · Ten (10) years extended warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order as confirmed by Hesham Helal El Sewedy & Partners for Steel Industries Co.(Energya Steel Solutions) letter # SEC/WK/100524 dated 24th May 2010.
			Al BABTAIN	KSA(Riyadh)	Al BABTAIN	
			HIDADA	KSA (Jeddah)	HIDADA	

			PETIT JEAN	France	PETIT JEAN	
			SUMMIT MANUFACTURING	USA PA	SUMMIT MANUFACTURING	
			TECHNOPALI	Italy	TECHNOPALI	
			VALMONT	USA	VALMONT	
23.5	WOOD POLES, ANSI CLASS H1-H3	APPLICABLE STANDARDS	ATLANTIC WOOD IND.	USA Georgia	ATLANTIC WOOD IND.	
			CAHABA PRESSURE TREATED FOREST PRODUCT (NORTH PACIFIC GROUP)	USA Alabama	CAHABA PRESSURE TREATED FOREST PRODUCT (NORTH PACIFIC GROUP)	
			COLFAX CREOSOTING CO	USA Louisiana	COLFAX CREOSOTING CO	
			KOOPERS INDUSTRIES	USA-PA	KOOPERS INDUSTRIES	
			STELLAWORTH TIMBER	USA Alabama	STELLAWORTH TIMBER	
			STELLA JONES INC.	Canada New Westminster	STELLA JONES INC.	
			TAYLOR LUMBER (NORTH PACIFIC GROUP)	USA OREGON	TAYLOR LUMBER (NORTH PACIFIC GROUP)	
23.5.2	WOOD POLES, ANSI CLASS 1-4	APPLICABLE STANDARDS	ATLANTIC WOOD IND.	USA Georgia	ATLANTIC WOOD IND.	
			CAHABA PRESSURE TREATED FOREST PRODUCT (NORTH PACIFIC GROUP)	USA Alabama	CAHABA PRESSURE TREATED FOREST PRODUCT (NORTH PACIFIC GROUP)	
			COLFAX CREOSOTING CO	USA Louisiana	COLFAX CREOSOTING CO	

			KOOPERS INDUSTRIES	USA-PA	KOOPERS INDUSTRIES	
			STELLAWORTH TIMBER	USA Alabama	STELLAWORTH TIMBER	
			STELLA JONES INC.	Canada New Westminster	STELLA JONES INC.	
			TAYLOR LUMBER (NORTH PACIFIC GROUP)	USA OREGON	TAYLOR LUMBER (NORTH PACIFIC GROUP)	
24	GALVANIZED GUY WIRE (GROUNDING)					
24.0.0	GALVANIZED GUY WIRE (GROUNDING)	10-TMSS-02	FLORIDA WIRE & CABLE	USA	FLORIDA WIRE & CABLE	
			JOSLYN	USA	JOSLYN	
			SOUTHWIRE	USA	SOUTHWIRE	
			TREFILEUROPE	FRANCE	TREFILEUROPE	
25	RACEWAYS					
25.1	METAL ENCLOSED BUS DUCT, 4.16-13.8 KV OR 34.5 KV	APPLICABLE STANDARDS	ABB (T&D)	USA-N/A	ABB (T&D)	
			UNIBUS	USA	UNIBUS	
			WESCOSA	KSA (Dammam)	WESCOSA	
25.2	CABLE TRAY SYSTEMS		3M	USA	3M	
			AB WIRE	SWEDEN	AB WIRE	
			ABAHSAIN-COPE	KSA (Dharan)	ABAHSAIN-COPE	
			AL-AMAL CO.	KSA(Riyadh)	AL-AMAL CO.	FOR LADDERS & ACCESSORIES ALSO, 10 YEARS OF EXTENDED WARRANTY .
			AL-MISBAH House for steel works	KSA(Riyadh)	AL-MISBAH House for steel works	Based on TS & SD letter 09-00509/1-03032301 dated 16th March 2009 for Metallic Cable Tray Systems as confirming to SEC specifications # 24-TMSS-01, rev.0, with the following

						conditions: Ten (10) years extended warranty. Improvement needs indicated in the plant survey report.
			ARABIAN INTERNATIONAL CO.	KSA (Jeddah)	ARABIAN INTERNATIONAL CO.	
			EFCOR	USA	EFCOR	
			ELECTROLINK Co. Ltd.	KSA(Riyadh)	ELECTROLINK Co. Ltd.	Based on TS & SD letter 09-00524/1-03032301 dated 16th March 2009 for Metallic Cable Tray Systems as confirming to SEC specifications # 24-TMSS-01, rev.0, with the following conditions: Eight (8) years extended warranty. Improvement needs indicated in the plant survey report.
			HIDADA	KSA (Jeddah)	HIDADA	
			MECSS-MID EAST CABLE SUPPORT	KSA (Al-Khobar)	MECSS-MID EAST CABLE SUPPORT	
			O-Z GYDNEY	USA	O-Z GYDNEY	
			SAUDI ELECTRIC INDUSTRIES CO.LTD	KSA (Jeddah)	SAUDI ELECTRIC INDUSTRIES CO.LTD	
			TOLARTOIS	FRANCE	TOLARTOIS	
			WESCOSA	KSA (DAMMAM)	WESCOSA	
26	CONDUIT FITTINGS					
26.1	DUCT SEALING UNITS	23-TMSS-02	AMIANTIT RUBBER IND. (ARIL)	KSA (DAMMAM)	AMIANTIT RUBBER IND. (ARIL)	
			UM-AL QUQAIN RUBBER INDUSTRIES	United Arab Emirates	UM-AL QUQAIN RUBBER INDUSTRIES	
27	SWITCHES					

27.1	DISCONNECT SWITCH, AIR BREAK UP TO 380 KV	30-TMSS-01	ABB (T & D)	USA-N/A	ABB (T & D)	
			ALPHA NIDAU	Switzerland	ALPHA NIDAU	
			AREVA	France	AREVA	
			EFACEC	Portugal	EFACEC	
			HAPAM	Netherlands	HAPAM	
			JAPAN POWER SYSTEMS CORP.	Japan	JAPAN POWER SYSTEMS CORP.	
			MG/EGIC	France	MG/EGIC	
			S & C	USA	S & C	
			SDCEM	France	SDCEM	
			SIEMENS	Germany	SIEMENS	
			SOUTHERN STATES	USA	SOUTHERN STATES	SOUTHERN STATES/USA HAS AEQUIRED SIEMENS SWITCH FACTORY.
27.2	LV AUTO-TRANSFER SWITCH	APPLICABLE STANDARDS	ALSTOM	FRANCE	ALSTOM	
			ASCO	UNITED ARAB EMIRATES	ASCO	
			WESTINGHOUSE	USA	WESTINGHOUSE	

27.3	PAD MOUNTED SF/6 OIL SWITCH 34.5KV	APPLICABLE STANDARDS	FRITZ DRIESHER KG	Germany	FRITZ DRIESHER KG	
28	LV PANELS & ENCLOSURES					
28.1	RELAY & CONTROL PANEL	31-TMSS-01	ABB (T & D)	Sweden	ABB (T & D)	
			ABB / AEIL	KSA	ABB / AEIL	
			ACRATYLE	United Kingdom	ACRATYLE	
			AEL-AIEMENS	KSA (Jeddah)	AEL-AIEMENS	
			ALFANAR ELECTRICAL SYSTEMS	KSA(Riyadh)	ALFANAR ELECTRICAL SYSTEMS	Based on TS & SD letter # 09-01251-03032301 dated 03rd May 2009 up to 380KV as confirming to SEC specification # 31-tmss-01, rev.0 with Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery material supply order.
			AREVA	United Kingdom	AREVA	
			CRUINKSHANK & PARTNERSHIP LTD.	United Kingdom	CRUINKSHANK & PARTNERSHIP LTD.	
			EPS LTD. (GROUPE SCHNEIDER)	KSA(Riyadh)	EPS LTD. (GROUPE SCHNEIDER)	
			ETA-PCS	UNITED ARAB EMIRATES (Dubai)	ETA-PCS	Type/Design, special, routine tests shall be performed for the first project at an independent laboratory in the presence of 3rd party & SEC engineers. Extended warranty for 10 years.
			JAL INTERNATIONAL	KSA (Al-Khobar)	JAL INTERNATIONAL	UP TO 132 KV ONLY, FIRST BATCH OF RELAY & CONTROL PANEL SHALL BE TYPE TESTED IN AN INDEPENDENT LAB IN THE PRESENCE OF THREE (3) SEC ENGINEERS & ONE (IIA) INSPECTOR, EXTENDED GUARANTEE FOR TEN (10) YEARS.
			LS	Republic Of Korea	LS	Previously LG.

			MOHD. AL-OJAIMI LTD.	KSA(Riyadh)	MOHD. AL-OJAIMI LTD.	Extended warranty for 10 years.
			PROTEA/AREVA T & D	France	PROTEA/AREVA T & D	10 years extended warranty.
			REYROLLE LTD	United Kingdom	REYROLLE LTD	
			SCHNEIDER H.V. FACTORY	FRANCE GRENOBLE	SCHNEIDER H.V. FACTORY	
			SIEMENS	Germany	SIEMENS	
			System House Factory for Electric Panels (SEP)	KSA(Riyadh)	System House Factory for Electric Panels (SEP)	Based on TS & SD letter # 09-01500-03032301 dated May 25, 2009 & 10-01055/02-03032301 dated May 03, 2010, System House Factory for electric panels (SEP) from Saudi Arabia-Riyadh for relay & control panel up to 132KV as confirming to SEC specification # 31-TMSS-01, rev.0 with the following conditions: · Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
			TIEPCO	KSA (Dammam)	TIEPCO	
			VA TECH	KSA(Riyadh)	VA TECH	ASSEMBLING UP TO 132 KV ONLY, ENCLOSURES SHALL BE PRODUCED FROM MESCO (RIYADH)
			WESCOSA	KSA (Dammam)	WESCOSA	UP TO 132 KV ONLY.
28.2	ANNUICATOR SYSTEM	38-TMSS-05	ABB SUBSTATION AUTOMATION OY	Finland	ABB SUBSTATION AUTOMATION OY	SACO 16D3
			AMETEL POWER INSTRUMENTS	USA	AMETEL POWER INSTRUMENTS	
			FUJIKURA VISCAS CORP	Japan	FUJIKURA VISCAS CORP	
			J-POWER SYSTEM CORP	Japan	J-POWER SYSTEM CORP	

			LS	Republic Of Korea	LS	Previously LG.
			NEXANS	Switzerland	NEXANS	
			PAN ALARM	USA	PAN ALARM	
			PIRELLI	Germany Berlin	PIRELLI	
			RONAN ENGINEERING	United Kingdom	RONAN ENGINEERING	
			RTK ENGINEERING LTD	United Kingdom	RTK ENGINEERING LTD	
			SIEMENS	Germany	SIEMENS	
			STEINER	Japan	STEINER	
29	ARRESTER, SURGE OR LIGHTINING					
29.1	SURGE ARRESTER, STATION CLASS UPTO 380KV	35-TMSS-01	ABB	Sweden	ABB	
			ABB HV TECHNOLOGIES	Switzerland	ABB HV TECHNOLOGIES	
			AREVA	France	AREVA	
			BOWTHORPE	United Kingdom	BOWTHORPE	
			COOPER (MCGRAW-ED)	USA	COOPER (MCGRAW-ED)	
			ELPRO INTL LTD	India	ELPRO INTL LTD	Up to 132KV only- Complete type, routine/acceptance test for first order & 10 years warranty from the date if PAC is required.
			JAPAN AE POWER SYSTEMS CORP.	Japan	JAPAN AE POWER SYSTEMS CORP.	
			MITSUBISHI	Japan	MITSUBISHI	ORIGINALLY TMT&D Corp. & DISSOLVED DURING APRIL 2005
			OHIO BRASS	USA	OHIO BRASS	

			SIEMENS	Germany	SIEMENS	
			TOSHIBA CORPORATION, T & D	Japan	TOSHIBA CORPORATION, T & D	ORIGINALLY TMT&D Corp. & DISSOLVED DURING APRIL 2005
			TRIDELTA	Germany	TRIDELTA	
			TYCO (BOWTHORPE)	Ireland Shannon	TYCO (BOWTHORPE)	PRODUCT SUPPORT & H.V. TESTING LABORATORY ARE STILL REMAINING IN BRIGHTON U.K, TYCO TO GIVE EXTENDED GUARANTEE / WARRANTY FOR 5 YEARS FROM THE DATE OF P.A.C. IN CASE OF THE TURNKEY PROJECT & FROM THE DATE OF DELIVERY IN CASE OF DIRECT SUPPLY ORDER.
			TYCO (BOWTHORPE)	China	TYCO (BOWTHORPE)	Based on TS & SD letter # 09-F01657/02-03032301 dated 14th Nov. 2009, it is pre-qualified for surge arrester up to 132Kv as confirming to SEC specification # 35-TMSS-01, rev.0 with the following conditions: · All type design, special & routine test (including the load test) as per SEC specifications/standards and all the relevant international standards shall be carried out on the first batch to be supplied to SEC in securing an order in an independent testing laboratory in the presence of three (3) SEC engineers & one (1) approved independent inspection agency inspector. · Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
30	CIRCUIT BREAKER					
30.1	DEADTANK SF6 BREAKER 69 KV	37-TMSS-01	ABB (T & D)	USA	ABB (T & D)	
			AREVA	USA CHARLEROI	AREVA	
			GE-HITACHI HVB	USA GEORGIA	GE-HITACHI HVB	

			JAPAN AE POWER SYSTEMS CORP	Japan	JAPAN AE POWER SYSTEMS CORP	
			MITSUBISHI	Japan	MITSUBISHI	ORIGINALLY TMT&D Corp. & DISSOLVED DURING APRIL 2005
			TOSHIBA CORPORATION T & D	Japan	TOSHIBA CORPORATION T & D	ORIGINALLY TMT&D Corp. & DISSOLVED DURING APRIL 2005
30.2	SF6 LIVE TANK, 69 KV	37-TMSS-02	ABB	Sweden	ABB	
			ABB	Switzerland	ABB	
			ABB SWITCHGEAR AB	Sweden Luduvika	ABB SWITCHGEAR AB	
			AREVA	Switzerland Oberentfelden	AREVA	
			AREVA FRANCE, VILLEUR BANNE	FRANCE VILLEUR BANNE	AREVA FRANCE, VILLEUR BANNE	
			SIEMENS	Germany	SIEMENS	
30.4	CIRCUIT SWITCHES, 69-230 KV	APPLICABLE STANDARDS	S & C	Canada	S & C	
			S & C	FRANCE VILLEUR BANNE	S & C	
			SIEMENS	Germany	SIEMENS	
31.3	CCVT AND / OR COUPLING CAPAPCITOR CARRIER	38-TMSS-08	ABB	Sweden	ABB	
			ABB HV TECHNOLOGIES	Switzerland	ABB HV TECHNOLOGIES	
			GE	USA	GE	
	CCPD / CCVT, 69 KV UP TO 380 KV	50-TMSS-02	HAEFELY-TRENCH ELECTRIC	France	HAEFELY-TRENCH ELECTRIC	

			HAEFELY-TRENCH ELECTRIC	Canada	HAEFELY-TRENCH ELECTRIC	
			HAEFELY-TRENCH ELECTRIC	Switzerland	HAEFELY-TRENCH ELECTRIC	
			KONCAR INSTRUMENT TRANSFORMERS INC.	Croatia Hrvatska	KONCAR INSTRUMENT TRANSFORMERS INC.	Limited up to 132 KV only. All type, Special, Routine, tests per SEC Standards and IEC to be performed at KONCAR-Electrical Institute Inc. as independent and accredited testing laboratory. Extended guarantee / warranty for 10 years.
			Nissin	Japan	Nissin	
			PASSONI & VILLA	Italy	PASSONI & VILLA	
			PFIFFNER	Switzerland	PFIFFNER	Based on TS & SD LETTER # 09-01105-03032301 dated 24th June 2009, it is pre-qualified for CT & CVT rated up to 380KV as confirming to SEC specification # 50-TMSS-03, Rev.0 & # 50-TMSS-02, REV.0 respectively with the following conditions: · All type , routine & special test including the load test shall be carried out on the first batch to be supplied to SEC in securing an order in an independent testing laboratory in the presence of three (3) SEC engineers & one (1) approved independent inspector agency inspector. · Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
			RITZ	USA	RITZ	Type Test required in first supply.
			TRENCH ITALIA	Italy N/A	TRENCH ITALIA	Previously as VA TECH (NOUVA MAGRINI GALILEO)
31.4	REMOTE TERMINAL UNIT (RTU)	38-TMSS-03	ABB	Germany	ABB	RTU-560, SPIDER 200,232 & 233
			AREVA	France	AREVA	
			EFACEC Sistemas de Electronica S.A	Portugal Maia	EFACEC Sistemas de Electronica S.A	Based on TS & SD letter # 09-01819-03032301 dated 23rd June 2009, it is prequalified for RTU type CLP500 as confirming to SEC specification # 38-TMSS-03,rev.0 with the following conditions:

						• Type test shall be carried out on the batch to be supplied to SEC in securing an order in an independent laboratory in the presence of three (3) SEC engineers or in the manufacturer's testing laboratory with the additional presence of an engineer from independent testing laboratory. • Ten (10) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
			FOXBORO	Australia	FOXBORO	
			GE HARRIS	Canada	GE HARRIS	HARRIS D20
			Global Energy Technologies Ltd.	UNITED ARAB EMIRATES (Dubai)	Global Energy Technologies Ltd.	Ten years (10) extended warranty. Microsol Xcell SCADA RTU System.
			HARRIS CORPORATION	USA MELBOURNE	HARRIS CORPORATION	HARRIS MICROPLEX 5000
			JAL INTERNATIONAL	KSA (Al-Khobar)	JAL INTERNATIONAL	ASSEMBLING ONLY
			LSIS	Republic Of Korea	LSIS	Seven (7) years extended warranty.
			MICROSOL LTD	Ireland Dublin	MICROSOL LTD	MICROSOL
			SAT	Austria	SAT	
			SIEMENS	Germany	SIEMENS	
			SIEMENS (LANDYS) TELEGYR	USA SAN Jose CA	SIEMENS (LANDYS) TELEGYR	TELEGYN 5700
			VA TECH	Austria	VA TECH	
31.5	SEQUENCE OF EVENTS RECORDER	38-TMSS-04	ABB	Germany	ABB	RTU-500
			GE HARRIS		GE HARRIS	HARRIS D20

			Global Energy Technologies Ltd.	UNITED ARAB EMIRATES (Dubai)	Global Energy Technologies Ltd.	Ten years (10) extended warranty. Microsol Xcell SCADA RTU System.
			JAL INTERNATIONAL	KSA (Al-Khobar)	JAL INTERNATIONAL	SOE RECORDING SYSTEM & INTERFACE & CONTROL CABINET / MARSHALING PANELS.
			LSIS	Republic Of Korea	LSIS	Seven (7) years extended warranty.
			MICROSOL LTD	Ireland Dublin	MICROSOL LTD	MICROSOL
			RONAN ENGINEERING	USA Los Angeles, CA	RONAN ENGINEERING	X500E / 1000
31.6	TRANSDUCERS	APPLICABLE STANDARDS	ALSTOM	USA	ALSTOM	
31.6.1	FREQUENCY TRANSDUCERS		ISKRA MIS	SLOVENIA KRANJ	ISKRA MIS	ACCEPTENCE SUBJECTED TO SUCESSFUL PRODUCT EVALUATION / ACCEPTANCE BY SEC CONCERNED END USER DEPARTMENT FOR EACH PURCHASE ORDER / PROJECT DURING TENDER / BIDDING STAGE
31.6.2	TAP POSITION TRANSDUCERS	APPLICABLE STANDARDS	AREVA	UNITED KINGDOM	AREVA	
31.6.3	TRANSDUCERS		CEWE INSTRUMENTS AB	Sweden	CEWE INSTRUMENTS AB	
			ENERDIS	France	ENERDIS	
			LSIS	Republic Of Korea	LSIS	Seven (7) years extended warranty.
			TLLQUIST	Sweden	TLLQUIST	
			TYCO ELECTRONICS (UK) Ltd CROMPTON INSTRUMENTS	UNITED KINGDOM	TYCO ELECTRONICS (UK) Ltd CROMPTON INSTRUMENTS	Based on TS & SD letter # 10-F00230-03032301 dated 03/02/2010 & Tyco Electronics letter # INT-SEC-12-01-10 dated 12/01/2010 for Integra 1560, this product was reclassified to this item, # 32.1.0 & item # 32.2.0 with the following conditions: · Type test shall be carried out on the first batch to be supplied to SEC in securing an order in the independent laboratory in the

						presence of three (3) SEC engineers & one (1) approved independent inspection inspector. Five (5) years warranty for the date of PAC of the turnkey project in case if contract award or date of delivery in case of direct material supply order.
31.6.4	WATTHOURS / VARHOURS TRANSDUCERS	APPLICABLE STANDARDS	ISKRA MIS	Slovenia Kranj	ISKRA MIS	ACCEPTANCE SUBJECTED TO SUCESSFUL PRODUCT EVALUATION / ACCEPTANCE BY SEC CONCERNED END USER DEPERTMENT FOR EACH PURCHASE ORDER / PROJECT DURING TENDER / BIDDING STAGE.
			MITSUBISHI ELECTRIC	Japan	MITSUBISHI ELECTRIC	
			SCIENTIFIC COLUMBUS	USA	SCIENTIFIC COLUMBUS	
31.6.5	VOLTAGE TRANSDUCERS	APPLICABLE STANDARDS	ABB (ASEA INC.)	Canada Montreal	ABB (ASEA INC.)	
			AREVA	UNITED KINGDOM	AREVA	
			ISKRA MIS	Slovenia Kranj	ISKRA MIS	ACCEPTANCE SUBJECTED TO SUCESSFUL PRODUCT EVALUATION / ACCEPTANCE BY SEC CONCERNED END USER DEPERTMENT FOR EACH PURCHASE ORDER / PROJECT DURING TENDER / BIDDING STAGE.
31.6.6	WATTS / VARS TRANSDUCERS	APPLICABLE STANDARDS	ABB (ASEA INC.)	Canada Montreal	ABB (ASEA INC.)	
			AREVA	UNITED KINGDOM	AREVA	
			ISKRA MIS	Slovenia Kranj	ISKRA MIS	ACCEPTANCE SUBJECTED TO SUCESSFUL PRODUCT EVALUATION / ACCEPTANCE BY SEC CONCERNED END USER DEPERTMENT FOR EACH PURCHASE ORDER / PROJECT DURING TENDER / BIDDING STAGE.
			TRANSDATA	USA	TRANSDATA	

31.7 31.7.1	RELAYS PROTECTIVE RELAYS	APPLICABLE STANDARDS	ABB	Sweden	ABB	Type of Relay subject to review / approval by the concerned protection engineering Division.
			AREVA FRANCE/STAFFORD, ENGLAND	France/Stafford, England	AREVA FRANCE/STAFFORD, ENGLAND	
			ELECTRO-SWITCH	USA	ELECTRO-SWITCH	Type of Relay subject to review / approval by the concerned protection engineering Division.
			GE	UNITED KINGDOM	GE	Type of Relay subject to review / approval by the concerned protection engineering Division.
			MORS SMITT	France	MORS SMITT	For Auxiliary Relays. Type of Relay subject to review / approval by the concerned protection engineering Division.
			MR	Germany	MR	Type of Relay subject to review / approval by the concerned protection engineering Division.
			SCHNEIDER ELECTRIC (Merlin Gerin)	France	SCHNEIDER ELECTRIC (Merlin Gerin)	Up to 33 KV Voltage Level Only: Type of Relay subject to review / approval by the concerned protection engineering Division.
			SCHNEIDER ELECTRIC (Telemecanique)	France	SCHNEIDER ELECTRIC (Telemecanique)	Type of Relay subject to review / approval by the concerned protection engineering Division.
			SEL	USA	SEL	Type of Relay subject to review / approval by the concerned protection engineering Division.
			SIEMENS	Germany	SIEMENS	Type of Relay subject to review / approval by the concerned protection engineering Division.
			VA TECH	UNITED KINGDOM	VA TECH	Type of Relay subject to review / approval by the concerned protection engineering Division.
31.7.2	PROECTIVE RELAYS FOR MOTORS	APPLICABLE STANDARDS	MULTILIN	Canada Ontario	MULTILIN	Type of Relay subject to review / approval by the concerned protection engineering Division.
31.8	TERMINAL BLOCK	APPLICABLE STANDARDS	ENTRELEC	France	ENTRELEC	
			PHOENIX	Germany	PHOENIX	
			WEIDMULLER	Germany	WEIDMULLER	

31.9	FAULT RECORDERS	APPLICABLE STANDARDS	AMETEK (ROCHESTER)	USA	AMETEK (ROCHESTER)	
32	METERS					
32.1	KILOWATT HOUR METER (ENERGY METER)	40-TMSS-02	GEC MEASUREMENT	UNITED KINGDOM	GEC MEASUREMENT	
			SIEMENS	Germany	SIEMENS	
32.2	AMMETER, VOLTMETER, MW, MVAR	40-TMSS-02	AREVA	France	AREVA	
			CELSA	Italy	CELSA	
			CEWE	Spain	CEWE	
			ISKRA MIS	Slovenia Kranj	ISKRA MIS	ACCEPTENCE SUBJECTED TO SUCESSFUL PRODUCT EVALUATION / ACCEPTANCE BY SEC CONCERNED END USER DEPARTMENT FOR EACH PURCHASE ORDER / PROJECT DURING TENDER / BIDDING STAGE
			SCHNIDER ELECTRIC	Canada	SCHNIDER ELECTRIC	DIGITAL METERING SYSTEMS TYPE ION 6200 (0.5% ACCURACY CLASS), 10 YEARS EXTENDED WARRANTY
			TYCO ELECTRONICS (UK) Ltd CROMPTON INSTRUMENTS	UNITED KINGDOM	TYCO ELECTRONICS (UK) Ltd CROMPTON INSTRUMENTS	DIGITAL METERING SYSTEMS TYPE INTEGRA 1530, 1630 & 1540, FIRST BATCH SHALL BE TYPE TESTED IN AN INDEPENDENT LAB IN THE PRESENCE OF THREE (3) SEC ENGINEERS & ONE (1) SEC APPROVED IIA INSPECTOR, EXTENDED GURANTEE FOR FIVE YEARS
33	CAPACITORS					
		43-TMSS-01	ABB	Sweden	ABB	Based on TS & SD letter # 10-00269-03032301 dated 24/01/2010, it is pre-qualified for Shunt Capacitor Banks as confirming to SEC specification # 43-TMSS-01, rev.0 with the

33.1	SHUNT CAPACITOR					following conditions: · All Type, Special & routine test as per SEC specification/standards shall be carried on the first batch to be supplied to SEC in securing an order in the independent laboratory in the presence of three (3) SEC engineers & one (1) approved independent inspection agency inspector. · Seven (7) years warranty from the date of PAC of the turnkey project in case of contract award or date of delivery in case of direct material supply order.
			AREVA T & D Ltd.	Finland Tampere	AREVA T & D Ltd.	Previously "Nokian Capacitors Ltd-Finland" the name has been changed to Areva T & D Ltd-Finland as per TS &SD/ESD letter # 10-00145-03032301 dated 16/01/2010 & Areva T&D Ltd-Finland letter # Nil dated 04/01/2010.
			COPPER (MCGRAW-ED)	USA	COPPER (MCGRAW-ED)	
			General Electric Energy-CPQP	USA New York	General Electric Energy-CPQP	Based on TS & SD fax ref. # 08-F0623/01-03032301 dated 02/12/2008. Pre-qualified for Capacitor Bank (13.8 KV through 380KV) with these conditions: · First batch shall be type test in an independent laboratory in the presence of three (3) SEC engineer & one (1) independent inspector. · Ten (10) years warranty.
35	INSTRUMENT TRANSFORMERS					
35.1	33 & 34.5 KV CTS	50-TMSS-01	ABB	USA N/A	ABB	
			ABB EJF	Czech Republic	ABB EJF	
			GE	USA	GE	
			KONCAR INSTRUMENT TRANSFORMER INC.	Croatia / Hrvatska	KONCAR INSTRUMENT TRANSFORMER INC.	All Type, Special, Routine Test per SEC Standards and IEC to be performed at KONCAR-Electrical Institute Inc. as Independent and accredited testing laboratory. Extended Guarantee/warranty for 10 years.
			KHULMAN ELECTRIC CORPORATION	USA	KHULMAN ELECTRIC CORPORATION	RING/SPLIT CORE TYPE

			KWK MESWANDLER	Germany	KWK MESWANDLER	RING TYPE
			MEMF	KSA(Riyadh)	MEMF	TS & SD letter # 09-00918-03032301 dated 29 March 2009 it is prequalified for CT up to 36KV with following conditions: TYPE TEST SHALL BE DONE AT AN INTL. TESTING LAB IN PRESENCE OF 3RD PARTY INSPECTOR, EXTENDED GUARANTEE/WARRANTY FOR 10 YEARS FROM PAC.
			PFIFFNER	Switzerland	PFIFFNER	RING/SPLIT CORE TYPE
			SADTEM	France	SADTEM	RING/SPLIT CORE TYPE & BLOCK TYPE CTs UP TO 36KV
			SIEMENS	USA	SIEMENS	
			STE	Italy	STE	RING/SPLIT CORE TYPE
35.2	69 KV CTS	50-TMSS-01	ABB	Sweden	ABB	
			ABB (T&D)	USA	ABB (T&D)	
			ALSTOM (T&D) BELTEAU SA (NV)	Belgium	ALSTOM (T&D) BELTEAU SA (NV)	
			AREVA	United Kingdom	AREVA	
			E.PFIFFNER	Switzerland	E.PFIFFNER	
			GE	USA	GE	
			HAEFELY-TRENCH ELECTRIC	Switzerland	HAEFELY-TRENCH ELECTRIC	
			HAEFELY-TRENCH ELECTRIC	France	HAEFELY-TRENCH ELECTRIC	
			KONCAR INSTRUMENT TRANSFORMERS INC.	Croatia Hrvatska	KONCAR INSTRUMENT TRANSFORMERS INC.	All Type, Special, Routine Test per SEC Standard and ICE to performed at KONCAR-Electrical Institute Inc. as independent and accredited testing laboratory. Extended Guarantee/warranty for 10 years.

			KHULMAN ELECTRIC CORPORATION	USA	KHULMAN ELECTRIC CORPORATION	Ring/Split Core Type
			KWK MESWANDLER	Germany	KWK MESWANDLER	Ring Type
			NISSIN	Japan	NISSIN	
			PFIFFNER	Switzerland	PFIFFNER	Ring/Split Core Type
			RITZ	USA	RITZ	Type test required in first supply, 10 years warranty from the date of PAC is required.
			SADTEM	France	SADTEM	Ring/Split Core Type
			SIEMENS	USA	SIEMENS	
			STE	Italy	STE	Ring/Split Core Type
			TRENCH ITALIA	Italy N/A	TRENCH ITALIA	Previously as VA TECH (NOUVA MAGRINI GALILEO), OIL TYPE.
36	POTENTIAL TRANSFORMER					
36.1	33 & 34.5 KV POTENTIAL TRANSFORMERS	50-TMSS-03	ABB (T & D)	USA N/A	ABB (T & D)	
			ABB EJF	Czech Republic	ABB EJF	
			ALSTOM (T&D) BALTEAU SA (NV)	Belgium	ALSTOM (T&D) BALTEAU SA (NV)	
			AREVA	United Kingdom	AREVA	
			E.PFIFFNER	Switzerland	E.PFIFFNER	
			GE	USA	GE	
			HAEFELY-TRENCH ELECTRIC	France	HAEFELY-TRENCH	

					ELECTRIC	
			HAEFELY-TRENCH ELECTRIC	Switzerland	HAEFELY-TRENCH ELECTRIC	
			KONCAR INSTRUMENT TRANSFORMERS INC.	Croatia / Hrvatska	KONCAR INSTRUMENT TRANSFORMERS INC.	All Type, Special, Routine Test per SEC Standard and ICE to performed at KONCAR-Electrical Institute Inc. as independent and accredited testing laboratory. Extended Guarantee/warranty for 10 years.
			NISSIN	Japan	NISSIN	
			SADTEM	France	SADTEM	BLOCK TYPE PT's UP TO 36 KV
			SIEMENS	Germany	SIEMENS	
36.2	69 KV POTENTIAL TRANSFORMERS	50-TMSS-03	ABB	Sweden	ABB	
			ABB (T&D)	USA N/A	ABB (T&D)	
			ALSTOM (T&) BALTEAU SA (NV)	Belgium	ALSTOM (T&) BALTEAU SA (NV)	
			AREVA	United Kingdom	AREVA	
			E.PFIFFNER	Switzerland	E.PFIFFNER	
			HAEFELY-TRENCH ELECTRIC	Switzerland	HAEFELY-TRENCH ELECTRIC	
			HAEFELY-TRENCH ELECTRIC	France	HAEFELY-TRENCH ELECTRIC	
			KONCAR INSTRUMENT TRANSFORMERS INC.	Croatia / Hrvatska	KONCAR INSTRUMENT TRANSFORMERS INC.	All Type, Special, Routine Test per SEC Standard and ICE to performed at KONCAR-Electrical Institute Inc. as independent and accredited testing laboratory. Extended Guarantee/warranty for 10 years.
			NISSIN	Japan	NISSIN	
			RITZ	USA	RITZ	

						Type test required in first supply, 10 years warranty from the date of PAC is required.
37	INSULATING OIL					
37.1	MINERAL OIL FOR ELECTRICAL APPRATUS	54-TMSS-01	*	--------		CT, PT, POWER TRANSFORMER MANUFACTURERS CAN PRODUCE OIL MEETING ALL THE REQUIRMENTS OF APPLICIABLE STANDARD FROM ANY REPUTED OIL MANUFACTURERS.
			APAR INDUSTRIES	INDIA-RABLE-New Mumbai	APAR INDUSTRIES	UNIHABITED NAPTHENIC BASED OIL TYPE POWER OIL TO 1020 (60U)TYPETEST AND SPECIAL TEST TO BE CONDUCTED AT AN INDEPENDENT TESTING LAB IN PRESENCE OF 3RD PARTY INSPECTIONAPPROVED BY SEC EXTENDED GURANTEE/WARRANTY FOR FIVE (5) YEARS.
			CHEMTRADE/ MOBIL OIL Co Ltd.	Ksa (YANBU)	CHEMTRADE/ MOBIL OIL Co Ltd.	
			NYNAS	SWEDEN	NYNAS	
			PETROMIN CORPORATION (Petrolube)	KSA (JEDDAH)	PETROMIN CORPORATION (Petrolube)	Previously "PETROLUBE" the name has been change to PETROMIN CORPORATION (Petrolube)- Saudi Arabia based on PETROMIN CORPORATION letter # Nil dates 30/06/2010.
			SAVITA	INDIA	SAVITA	
			SHELL	France	SHELL	
37.2	INSULATING OIL FOR LOW PRESSURE OIL FILLED (LPOF) CABLES	APPLICABLE STANDARDS	ATOFINA CHEMCALS	USA	ATOFINA CHEMCALS	
			DIELECTRIC SYSTEM INC.	USA	DIELECTRIC SYSTEM INC.	
			FURAKAWA	Japan	FURAKAWA CABLES	

			CABLES	Fujikura		
			INDOPOL	France Lavera	INDOPOL	
			SIEMENS	Germany	SIEMENS	
38	MOBILE SUBSTATION					
38.1	MOBILE S/S, 110-132/13.8 KV	APPLICABLE STANDARDS	ABB	Sweden	ABB	
			ABB/ADDA	Switzerland	ABB/ADDA	
			SIEMENS	Germany	SIEMENS	
39.3	POWER LINE CARRIER EQPT.	APPLICABLE STANDARDS	ABB	Sweden	ABB	
			ABB/INFOCOM LTD	France Turgi	ABB/INFOCOM LTD	
			AREVA	France	AREVA	
			GENERAL ELECTRIC CO.	USA Lynchburg	GENERAL ELECTRIC CO.	
			NERA	Norway	NERA	
			SIEMENS	Germany	SIEMENS	
39.8	DC POWER SYSTEMS	APPLICABLE STANDARDS	EXIDE CORP.	USA PA	EXIDE CORP.	
			HARMER & SIMMONS	United Kingdom	HARMER & SIMMONS	

			LORAIN PRODUCTS INTERNATIONAL SALES	USA Lorain	LORAIN PRODUCTS INTERNATIONAL SALES	
			SAFT POWER SYSTEMS SAS	France	SAFT POWER SYSTEMS SAS	Previously SAFT-NIFE.