## Qatari German Switchgear Company W.L.L



### **COMPANY PROFILE**





P.O. BOX 23661 DOHA-QATAR Tel +974 4460 1376 / 1992 • Fax +974 4460 1676 Email: <u>info@qgc-qatar.com</u> • Website: www.qgc-qatar.com





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LOW VOLTAGE QGC FALCON

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## INTRODUCTION

**Qatari German** Switchgear **Company** W.L.L.



INTRODUCTION

Qatari German Switchgear Co OPC, (QGC) established in 2004 under the umbrella of SALAM INTERNATIONAL INVESTMENT LIMITED with ISO 9001-2008 certification issued by Bureau Veritas.

QGC has now moved to New Industrial Area with new facilities at 11,500 sq.m for manufacturing Low and High Voltage Switchgear Panels

QGC has signed an EXCLUSIVE Partnership Agreement with ELIMSAN Switchgear Equipment and Electromechanical Industry & Trade Inc., Turkey, for the supply of HV Switchgears as **FALCON 12** brand.

**Elimsan 11KV Indoor switchgear** are Type tested at CESI-Italy & KEMA Netherland as per IEC standards and Kahramaa Specification & requirement.

QGC has successfully completed the TYPE TEST of Low Voltage Panels at KEMA laboratory, The Netherland as **FALCON** brand and we are the only local supplier with such privilege. We are one of the authorized panel builder of EATON Electric for LV products to have maximum share in the electrical switchgear market and to be a major player in the current upsurge of industrial activity in Qatar.

We, at QGC, involved into supervision of installation, Testing & Commissioning of panels, Operation & Maintenance, Retrofit & Modification works are being provided to our valued customers with well qualified teams and necessary equipment.

SIIL is a public share holding company incorporated in Qatari SIIL group of Companies owns several subsidiary companies in Qatar and other GCC countries since 1948 with annual turnover in access USD. 300 Million.

Our Vision is to be a preferred supplier for Total Electrical Solution for Projects in Qatar, Oman & United Arab Emirates, especially in sectors like Oil & Gas and Petrochemical. Due to the proximity of our factory we can fulfill the requirement of after sales and service to our valued client. Needless to mention that our engineers are well trained and capable. Towards this vision, we believe that Customer satisfaction is possible by maintaining High Quality of Standards, Products, After Sales & Service and our positive attitude / approach towards our valued Customer.





Page 1 of



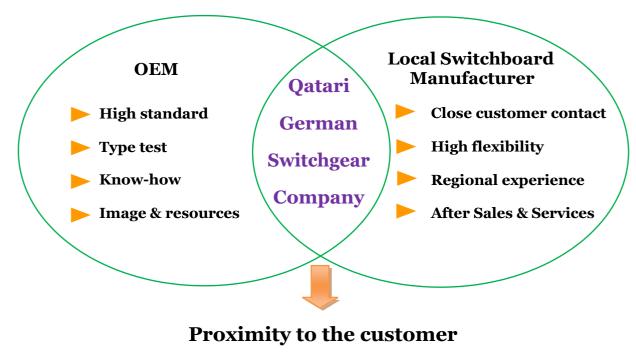
#### QUALITY PRODUCT

QGC delivers highest product quality According to OEM Standard with the most user friendly features. This ensures operational reliability, equipment availability and maximum safety for the operating personnel and it results into highest level of productivity and profitability.

#### **TECHNOLOGICAL LEADERSHIP**

Our collaboration with major Original Equipment Manufacturer (OEM) - technology leader in the design and manufacturing of Low, Medium and High Voltage switchgear, This ensures benefits to QGC customers from latest innovation like compact size, freedom from maintenance, independence from environmental conditions or other state of art features found in OEM Switchgears.

Benefit of partnership with Original Equipment Manufacturer (OEM):



╋

### World trade name





Page 2 of

رأس المال ريال قطري مدفوع بالكامل: ٥,٠٠٠,٠٠٠، ص.ب: ٢٢٦٦٦, س.ت: ٢٨٢٢٥ الدوحة - قطر. هاتف: ٢٢٦٦ / ٤٤٥-٤٥٣٥ / ٢٤٦٠١٩٩٢ فاكس: ٢٦٦٦ ٤٤٦ +٩٧٤ Email: info@qgc-qatar.com | www.qgc-qatar.com





# **CONTACT DETAILS**

NAME:

**QATARI GERMAN SWITCHGEAR CO. WLL** 



## P.O. BOX 23661, DOHA-QATAR

**E-MAIL ADDRESS:** 

info@qgc-qatar.com

**WEB ADDRESS:** 

www.qgc-qatar.com

+974 4460 1992 / 4460 1376 / 4450 4535 TEL. NO.:

FAX NO.: +974 4460 1676

**CONTACT PERSON:** 

## **MR. ERFAN SABERI – GENERAL MANAGER**

FULLY PAID CAPITAL QATARI RIYAL: 5,000,000.00 CR. No. 28225, P O. Box. 23661, DOHA, QATAR. TEL. NO .: +974 4460 1992 / 4460 1376 / 4450 4535 FAX. NO.: +974 4460 1676 EMAIL: info@qgc-qatar.com | www.qgc-qatar.com



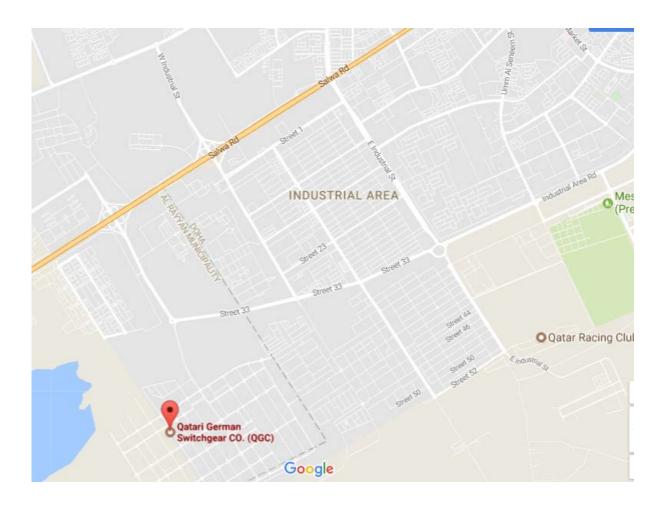


رأس المال ريال قطري مدفوع بالكامل: ٥,٠٠٠,٠٠٠،٥ ص.ب: ٢٣٦٦٦, س.ت: ٢٨٢٢٥ الدوحة - قطر. aاتف: ١٣٧٦ - ٤٤٦ / ٥٣٥ / ٤٤٦ / ١٩٩٢ / ٤٤٥ / ٢٩٩٢ فاكس: ١٦٧٦ • ٤٤٦ ٤٩٧+

Email: info@qgc-qatar.com | www.qgc-qatar.com



## **LOCATION MAP**



#### **FACTORY ADDRESS:**

ST. NO.10, GATE NO.50, NEW INDUSTRIAL AREA, DOHA, QATAR





رأس المال ريال قطري مدفوع بالكامل: ٥,٠٠٠,٠٠٠ ص.ب: ۲۳٦٦١, س.تَّ: ۲۸۲۲۵ الدوحة - قطر. هاتف: ۲۳٦٦١ / ٤٤٥٠٤٥٢٥ / ٤٤٦٠١٩٩٢+ فاكس: ١٦٧٦ •٩٧٤ ٤٤٦٠ +٩٧٤ Email: info@ggc-gatar.com | www.ggc-gatar.com Qatari German Switchgear Company W.L.L., Street-10, Gate-50, New Industrial Area, Doha – Qatar.

- Member of Salam International Investment Limited.
- Phone : +974 4460 1992
- Email : info@qgc-qatar.com
- Website : www.qgc-Qatar.com



- FIUL AIEa . 11,300 SQIII	-	Plot Area	1:	11,500 Sqm
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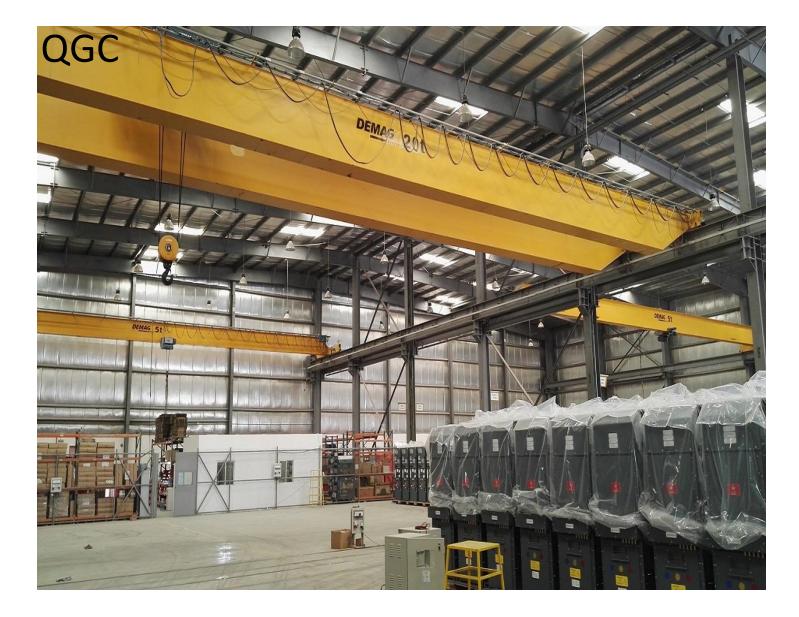
- Existing Built up area : 4452 Sqm
- Shop floor height : 15 mts

AREA STATEMENT		
PLOT AREA	-	11500.79 Sqm
GROUND FLOOR AREA (FACTORY)	-	3600.00 Sqm
GROUND FLOOR AREA (COMPRESSOR SHED)	-	60.00 Sqm
GROUND FLOOR AREA (OFFICE)	-	177.00 Sqm
MEZZANINE FLOOR AREA (OFFICE)	-	177.00 Sqm
GUARD ROOM AREA	-	28.20 Sqm
INSULATION SHOP	-	40.00 Sqm
TESTING AREA GROUND FLOOR	-	148.80 Sqm
TESTING AREA MEZZANINE FLOOR	-	116.60 Sqm
SUB STATION AREA	-	105.00 Sqm
EXISTING COVERED AREA	-	4159.00Sqm
EXISTING BUILT UP AREA	-	4452.60Sqm
PERCENTAGE OF COVERED AREA		36.16 %
MAXIMEM HEIGHT	-	15.00 M
FACTORY EXTENSION AREA	-	216.005qm
TOTAL BUILT UP AREA (4452.60+216.00)	222	4668.60 Sqm
TOTAL COVERED AREA (4159.00+216.00)	-	4375.00Sqm
PERCENTAGE OF COVERED AREA		38.04 %
COLOUR CODE ROOF WALL RAL 3014 (ANTIQUE PINK) RAL 3015 (LIGHT PINK)		

Shop Floor equipped with :

- 20 Ton crane 1nos
- 5 Ton crane 2 nos

- Rails for movement of Transformer Units to Oven, Paint shop & Test yard

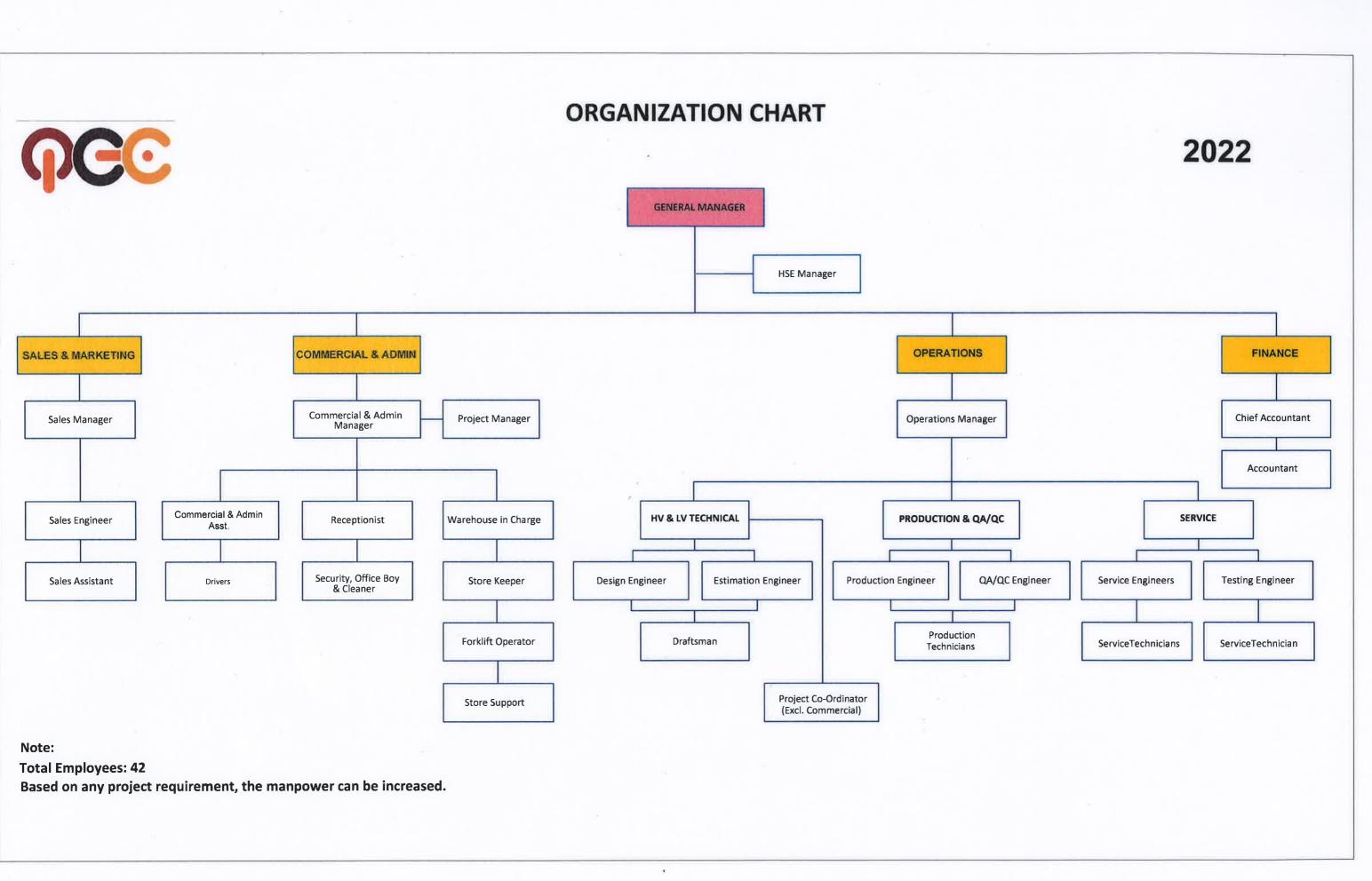


Aerial View of Shop Floor :

- 15mts height roof
- Shop floor area of 3600 Sqm



## **ORGANIZATION CHART**



## **COMPANY REGISTRATION**



وزارة التجارة والصناعة

Ministry of Commerce and Industry

إدارة التسجيل والتراخيص التجارية

مستخرج ببعض بيانات السجل التجارب

Registration and Commercial Licenses Department

تاريخ الطباعة: 2022/05/16

### 

5000493346	رقم التسجيل الضريبي:	28225	رقم السجل التجارى:
	السمة التجارية:	الشركة القطرية الالمانية لتصنيع اللوحات	الأسم التجارب:
		الكهربائية	
14/06/2023	تاريخ انتهاء السجل:	15/06/2004	تاريخ انشاء السجل:
5000000	راس المال:	شركة ذات مسئولية محدودة	الشكل القانونى:
قطر	جنسية المنشأة:	نشط محجوز	حالة السجل:
		0	عدد الفروع:
		معلومات الاتصال	
	أرقام الاتصال:		صندوق البريد:

#### المالك

الجنسية	رقم السجل	رقم الإثبات	الأسم
قطر	20363		شركة السلام العالمية للاستثمار
			المحدوده

#### المدراء (المخولون بالتوقيع)





Ministry of Commerce and Industry

#### إدارة التسجيل والتراخيص التجارية

### مستخرج ببعض بيانات السجل التجارب

Registration and Commercial Licenses Department

	•		
صلاحيات كاملة ومطلقة – مدير	الارحن	26240000140	محمدياسر خليل محمد حمد
صلاحيات كاملة ومطلقة – مدير	كندا	25612400052	عدنان علـب ســتيتية
صلاحيات كاملة ومطلقة – مدير	قطر	28263403252	عبدالسلام عيسب عبدالسلام محمد
			ابوعيست
صلاحيات كاملة ومطلقة – مدير	قطر	27163400470	بسام عبدالسلام محمد ابوعيست
صلاحيات كاملة ومطلقة – مدير	قطر	25563400154	عيسب عبدالسلام محمد ابوعيسب
صلاحيات كاملة ومطلقة – مدير	الارحن	27340001136	فوزان فالح محمود مصطفب
صلاحيات كاملة ومطلقة - مدير	ايران	27836400432	سيدعرفان سيدمحمود صابرت افتخارت انار
صلاحيات كاملة ومطلقة – مدير	الارحن	26240000035	حكمت عبدالفتاح احمد يونس
صلاحيات كاملة ومطلقة – مدير	قطر	25963400171	حسام عبدالسلام ابوعيسب

#### الأنشطة التجارية

_	إسم النشاط	الرقم
	استيراد الالات و المعدات و قطع غيارها لغرض	4610302
	المصنع	
	الصيانة العامة	2000876

إسم النشاط	الرقم
صناعة المعدات الكهربائية	2700000



## **ISO CERTIFICATE**



#### **QATARI GERMAN SWITCHGEAR COMPANY W.L.L**

## BUILDING NO. 50, ZONE NO. 81, STREET NO. 10, NEW INDUSTRIAL AREA, DOHA, P.O. BOX: 23661, STATE OF QATAR

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

### ISO 9001:2015

Scope of certification

#### DESIGN, MANUFACTURE, INSTALLATION, TESTING & COMMISSIONING OF LOW AND MEDIUM VOLTAGE SWITCHGEARS AND BATTERY CHARGERS.

Original cycle start date:		16-01-2019
Expiry date of previous cycle:		NA
Certification / Recertification Audit date:		NA
Certification / Recertification cycle start date:		14-01-2022
Subject to the continued satisfactory operation of the organization's Management System, this certificate e	1	15-01-2025
Certificate No.: QA002962 Version: 1	lssue Date:	14-01-2022

Certification Body Address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom

Local Office: Bureau Veritas International Doha W.L.L, G1-G3, Ground Floor, KG Building (Bldg. No. 194, Street No. 230, Zone 26), C Ring Road, Opposite Gulf Times, P. O. Box: 22157, Doha, State of Qatar

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +97440329729





#### **QATARI GERMAN SWITCHGEAR COMPANY W.L.L**

## BUILDING NO. 50, ZONE NO. 81, STREET NO. 10, NEW INDUSTRIAL AREA, DOHA, P.O. BOX: 23661, STATE OF QATAR

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

### ISO 14001:2015

Scope of certification

DESIGN, MANUFACTURE, INSTALLATION, TESTING & COMMISSIONING OF LOW AND MEDIUM VOLTAGE SWITCHGEARS AND BATTERY CHARGERS.

and an and a second				<b>N</b> .	
Original cycle start date:				16-01-2019	
Expiry date of previous cycle:				NA	
Certification / Recertification Audit da	te:			NA	
Certification / Recertification cycle sta	rt date:			14-01-2022	
Subject to the continued satisfactory o organization's Management System, t			pires on:	15-01-2025	
Certificate No.: QA002963	Version:	1	Issue Date:		KAS NAGEMENT VSTEMS

Certification Body Address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom

Local Office: Bureau Veritas International Doha W.L.L, G1-G3, Ground Floor, KG Building (Bldg. No. 194, Street No. 230, Zone 26), C Ring Road, Opposite Gulf Times, P. O. Box: 22157, Doha, State of Qatar

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +97440329729





#### **QATARI GERMAN SWITCHGEAR COMPANY W.L.L**

## BUILDING NO. 50, ZONE NO. 81, STREET NO. 10, NEW INDUSTRIAL AREA, DOHA, P.O. BOX: 23661, STATE OF QATAR

Bureau Veritas Certification Holding SAS – UK Branch certifies that the Management System of the above organisation has been audited and found to be in accordance with the requirements of the management system standards detailed below

### ISO 45001:2018

Scope of certification

DESIGN, MANUFACTURE, INSTALLATION, TESTING & COMMISSIONING OF LOW AND MEDIUM VOLTAGE SWITCHGEARS AND BATTERY CHARGERS.

all and the second s		
Original cycle start date:		16-01-2019
Expiry date of previous cycle:		NA
Certification / Recertification Audit date:		NA
Certification / Recertification cycle start date:		14-01-2022
Subject to the continued satisfactory operation o organization's Management System, this certific		15-01-2025
Certificate No.: QA002964 Version:	1 Issue Date:	14-01-2022

Certification Body Address: 5th Floor, 66 Prescot Street, London, E1 8HG, United Kingdom

Local Office: Bureau Veritas International Doha W.L.L, G1-G3, Ground Floor, KG Building (Bldg. No. 194, Street No. 230, Zone 26), C Ring Road, Opposite Gulf Times, P. O. Box: 22157, Doha, State of Qatar

Further clarifications regarding the scope and validity of this certificate, and the applicability of the management system requirements, please call: +97440329729



## **KM APPROVED ENGINEERS**





Reference:ED/EDR/6131/2021 Date: 30/12/2021

#### To, Mr. Balaji Vaithiyanathan (M/s Qatar German Switchgear Co W.L.L)

### Subject: Renewal of License for MV Panel Protection Testing Assistant ED/EDR/P2-010

#### Greetings from Qatar General Electricity & Water Corporation (KAHRAMAA)

This has the reference to your fee payment (Receipt No.6281221000031 dated on 28.12.2021) for renewal of MV panel protection testing Assistant license of Mr. Balaji Vaithiyanathan, License No. ED/EDR/P2-010

This is to inform you that your license has been renewed for further 1 (one) year, until 31.12.2022.

Ahmed Ali Y M Al Aali **Head (Distribution Protection)** 

CC: • ED

• EDR File











Reference:ED/EDR/6132/2021 Date: 30/12/2021

#### To, Mr. Balaji Vaithiyanathan (M/s Qatar German Switchgear Co W.L.L)

#### Subject: Renewal of License for LV Panel Protection Testing ED/EDR/P3-018

#### Greetings from Qatar General Electricity & Water Corporation (KAHRAMAA)!

This has the reference to your fee payment (Receipt No.6281221000029, dated on 28.12.2021) for renewal of the LV (25V≤LV<1kV) Panel Protection Testing License for Mr. Balaji Vaithiyanathan, License No. ED/EDR/P3-018.

This is to inform you that your license has been renewed for further 1 (one) year, until 31.12.2022.

Ahmed Ali Y M Al Aali **Head (Distribution Protection)** 

CC: ED • EDR File







## TYPE TEST CERTIFICATES

## **11KV SWITCHGEAR**

CES							IPH I
TEST REPOR	RT			APPR	OVED	B5011539	FGH
Client		ELÍMSAN	Salt Cihazlari	ve Elektromek	anik Sar	n. ve Tic. A.S.	
Address of the o	lient		ah. D-100 Kai 002 Kartepe,	rayolu Cad. Kocaeli, TURK	EY		
Manufacturer		ELÌMSAN	Salt Cihazlari	ve Elektromek	anik Sar	n. ve Tic. A.S.	
Tested samples/	items	composed		ilated switchge ts Type 6 and 5		controlgear	
Tests carried ou	t	Arcing du	e to internal	fault			
Standards/Speci	fications	Client's re	quests based	on IEC 62271-	200 (201	1-10)	
Tests date	fror	n April 29, 2	015	to April	30, 2015		
The results reported Partial reproduction					n from CE	51.	
	47		No. of a		0		
No. of pages Issue date	43 June 4,	2015	No. or p	ages annexed	8		
Prepared	PSV - E	leccarini Pier	angelo			CEE	1
Verified	PHV - A	mato Marco.	PSV - Vidori	Mauro		Testing & Certil Testing Ope	S.p.A.

PAD B5011539 (2095723) - CONFIDENTIAL USE

Mod. RPRO v. 8

CESI 5.p.A. Via Rubattino 54 I-20134 Milano - Italy Tel; +39 02 21251 Fax: +39 02 21255440 e-mail: info@cesi.it www.cesi.it

Capitale sociale € 8.550.000 interamente versato C.F. e numero iscrizione Reg. Imprese di Milano 00793580150 P.I. IT00793580150 N. R.E.A. 429222

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Page1

B5011182

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A	10	0	17	33	М	50	£

UEDI	Approved	Page 1
ELİMSAN Salt Cihazlari ve Elektrome	kanik San. ve Tíc. A.S.	
Bagdat Mah. D-100 Karayolu Cad. No:368 43002 KARTEPE, KOCAELI TURKEY		
ELİMSAN Salt Cihazlari ve Elektromeka	nik San. ve Tíc. A.S.	
Basic short-circuit test-duties Single-phase fault tests Single-phase double-carth fault tests Three-phase cable-charging current switch	ing tests	
IEC 62271-100 (2012-09) IEC 62271-200 (2011-10)		
	<ul> <li>Bagdat Mah. D-100 Karayolu Cad. No:368 43002 KARTEPE, KOCAELI TURKEY</li> <li>ELİMSAN Salt Cihazlari ve Elektromeka</li> <li>Metal-enclosed air insulated switchgear a one unit Type EMC12QC-02V-140-T5 ec 12 – 150.</li> <li>Basic short-circuit test-duties Single-phase fault tests</li> <li>Single-phase fault tests</li> <li>Single-phase double-carth fault tests</li> <li>Three-phase cable-charging current switch</li> <li>1EC 62271-100 (2012-09)</li> </ul>	ELİMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S. Bagdat Mah. D-100 Karayolu Cad. No:368 43002 KARTEPE, KOCAELI TURKEY ELİMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S. Metal-enclosed air insulated switchgear and controlgear for rated voltag one unit Type EMC12QC-02V-140-T5 equipped with circuit breaker Ty 12 – 150. Basic short-circuit test-duties Single-phase fault tests Single-phase double-earth fault tests Three-phase cable-charging current switching tests

CESI

Tests date

from May 26, 2015

to May 28, 2015

The results reported in this document relate only to the tested samples/items.

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No. of pages	26	No. of pages annexed	200
Issue date	May 28, 2015		
Prepared	TČE – C. Assi		
Verified	TCE – P. Magistris		
Approved	TCE – L. Arcidiaco		

D10001G rev.06

Via R. Rubattino 54 20134 Milano - Italia Telefono +39 022125 Fax +39 0221255440 http://www.cesi.it

							AISMES
CES							IPH I
TEST REPOR	RT			APPRC	OVED	B5008223	FGH
Client		ELÍMSAN S	Salt Cihazlari	ve Elektromeka	anik San	. ve Tic. A.S	
Address of the o	lient	Adapazari TURKEY	i Yolu, 17. K	m. 41255 – U	zuntarl	a, Kartepe,	Kocaeli City,
Manufacturer		ELÍMSAN S	Salt Cihazlari	ve Elektromeka	anik San	. ve Tic. A.S	
Tested samples/	items		ar for indoor	insulated me application co tings: 12kV, 80	mposed	by No.3 fu	inctional units
Tests carried ou	t		tests: ing impulse vo r-frequency vo				
		Dielectric	tests on auxili	ary and contro	l circuit	5	
Standards/Speci	fications		-200 (2011-10) -1 (2011-08)	1			
Tests date	from	April 16, 2	2015	to April 2	21, 2015		
The results reported Partial reproduction					from CES	l.	
No. of pages	56		No. of pa	iges annexed	2		
Issue date	May 11, 3	2015					
Prepared	PHV - De	el Giorgio Ca	arlo			CE	
Verified	PSV - Vie	dori Mauro,	PMV - Magistr	is Paolo		Testing & Cer	S.p.A. tification Division perations Area
Approved	PMI - Th	e Manager	- Arcidiaco L	orenzo	/	"Milan	Platform"

CESI S.p.A. Via Rubattino 54 I-20134 Milano - Italy Tel: +39 02 21251 Fax: +39 02 21255440 e-mail: info@cesi.it www.cesi.it

PAD B5008223 (2087472) - CONFIDENTIAL USE

Mod. RPRO v. 8

Capitale sociale € 8.550.000 interamente versato C.F. e numero iscrizione Reg. Imprese di Milano 00793580150 P.I. IT00793580150 N. R.E.A. 429222

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CESI	IPH
TEST REPORT	APPROVED B5009169
Client	ELİMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Address of the client	Bagdat Mh, D-100 Karayolu Cd. No:368 KOCAELI – TURKEY
Manufacturer	ELİMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Tested samples/items	Three-pole medium voltage air-insulated earthing switch in fixed version

Tests carried out		Mechanical endurance test	(class M0)
Standards/Specificatio	ns	IEC 62271-1 (2007-10) IEC 62271-102 (2012-02)	
Tests date	from	April 27, 2015	to April 27, 2015

The results reported in this document relate only to the tested samples/items. Partial reproduction of this document is permitted only with the written permission from CESI.

No. of pages	11	No. of pages annexed	d
Issue date	May 18, 2015		
Prepared	PMV - Mariani Ro	berto	CESI s.p.A.
Verified	PSV - Vidori Maur	o, PMV - Magistris Paolo	Testing & Certification Division Testing Operations Area "Milan Platform"
Approved	PMI - The Manage	er - Arcidiaco Lorenzo	Corecce Manageriliace u

CESI S.p.A.

Via Rubattino 54 (-20134 Milano - Italy Tel: +39 02 21251 Fax: +39 02 21255440 e-mail: info@cesi.it www.cesi.it

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CEC		atis	MES
CES		IPH	
TEST REPOR	т	APPROVED B5009147	SH
Client	ELİMSAN Salt Cihazlari ve El	lektromekanik San. ve Tic. A.S.	
Address of the c	ient Bagdat Mh - D-100 Karayolu Kocaeli City - TURKEY	u Cd. No: 368, Uzuntarla, Kartepe	
Manufacturer	ELİMSAN Salt Cihazlari ve El	lektromekanik San. ve Tic. A.S.	
Tested samples/i	eems Feeder CB with metering FN	/W TYPE 6	
Tests carried out	Electromagnetic compatibili	ity	
Standards/Speci	ications IEC 62271-1		
Tests date	from April 28, 2015	to April 29, 2015	
	in this document relate only to the tested samples of this document is permitted only with the writte		
No. of pages	Z1 No. of pages	annexed -	
Issue date	May 12, 2015		
Prepared	ECS - Aliprandi Ilario		
Verified	PSV - Vidori Mauro, ECS - Crivellaro Fa	abio CESI S.p.A Testing & Certification I Testing Operations	Divisio
Approved	PMI - The Manager - Arcidiaco Loren	MARIAN Dialform	Gre
CESI S.p.A.	Capitale sociale € 8.550.000 interamente	Pa	ge1/2

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CESI	IPH
TEST REPORT	APPROVED B5008791
Client	ELİMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Address of the client	Bagdat Mh. D100 Karayolu Cd. No: 368 Kartepe Kocaeli / TURKEY
Manufacturer	ELİMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Tested samples/items	AC three-phase air-insulated metal-enclosed switchgear and controlgear for indoor application composed by No. 3 functional units having the following ratings: 12kV, 800A, 31,5kA for 3s, 50Hz.
Tests carried out	Partial discharge tests according to Procedure A of IEC 62271-200
Standards/Specifications	IEC 62271-200 (2003-11)

Tests date

from April 23, 2015

to April 23, 2015

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No. of pages	23	No. of pages annexed	8
Issue date	May 15, 2015		
Prepared	PHV - Gregori Marco		
Verified	PSV - Vidori Mauro, Pl	MV - Magistris Paolo	
Approved	PMI - The Manager	- Arcidiaco Lorenzo	1



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Page1

CESI	IPH I
TEST REPORT	APPROVED B5008944
Client	ELİMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Address of the client	Adapazari Yolu, 17. Km. 41255 – Uzuntarla, Kartepe, Kocaeli City TURKEY
Manufacturer	ELÍMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Tested samples/items	AC three-phase air-insulated metal-enclosed switchgear and controlgear for indoor application composed by No.3 functional units

having the following ratings: 12kV, 800A, 31,5kA for 3s, 50Hz.

Tests carried out		Short-time and peak withs	tand current tests
Standards/Specificatio	ns	IEC 62271-200 (2011-10) IEC 62271-1 (2011-08)	
Tests date	from	April 27, 2015	to April 28, 2015

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No. of pages	39	No. of pages annexed	9	
Issue date	May 12, 2015			
Prepared	PMV - Assolari Mau	o		
Verified	PSV - Vidori Mauro,	PMV - Magistris Paolo		Testing
Approved	PMI - The Manager	- Arcidiaco Lorenzo	/	100



Page 1

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CESI	IPH AL
TEST REPORT	APPROVED B5008731
Client	ELİMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Address of the client	Bagdat Mh, D-100 Karayolu Cd. No:368 KOCAELI – TURKEY
Manufacturer	ELIMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Tested samples/items	Metal-enclosed switchgear and controlgear composed by no. 4 functional units

Tests carried out		Temperature-rise test (400 A – 50 Hz – 50 °C) Measurement of the resistance of the main circ			
Standards/Specificatio	ns	Client's requests based on: IEC 62271-200 (2011-10) IEC 62271-1 (2007-10)			
Tests date	from	April 23, 2015	to April 24, 2015		
The results reported in this	docume	nt relate only to the tested sample	s/items.		

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No. of pages	40	No. of pages annexed	
Issue date	May 18, 2015		
Prepared	PMV - Mariani Rober	to	(
Verified	PSV - Vidori Mauro,	PMV – Magistris Paolo	Testing
Approved	PMI - The Manager	- Arcidiaco Lorenzo	loren



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CESI	IPH
TEST REPORT	APPROVED B5008540-1
Client	ELİMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Address of the client	Bagdat Mh, D-100 Karayolu Cd. No:368 KOCAELI – TURKEY
Manufacturer	ELIMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Tested samples/items	Metal-enclosed switchgear and controlgear composed by no. 4 functional units

Tests carried out			ance of the main and auxiliary circuits ne auxiliary and control equipment
Standards/Specification	IS	Client's requests based on: IEC 62271-200 (2011-10) IEC 62271-1 (2007-10)	
Tests date	from	April 22, 2015	to April 23, 2015
The results reported in this d	ocume	nt relate only to the tested samp	eclitems

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No. of pages	59	No. of pages annexed	
Issue date	May 26, 2015		
Prepared	PMV - Mariani Robert	0	CESI
Verified	PSV - Vidori Mauro, F	MV - Magistris Paolo	Testing & Certification
Approved	PMI - The Manager	- Arcidiaco Lorenzo	"Milan Plat

S.p.A. cation Division ations Area tfor 98 ac y

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CESI				IPH JA
TEST REPORT		DRA	FT B5012528	FGH
Client	ELIMSAN SALT CIHA	AZLARI VE ELEKTRO	MEKANIK SAN. VE	TIC. A.S.
Address of the client	Bagdat Mah. D-100 TURKEY	Karayo N° 368 – 43	002 KARTEPE, KOCA	AELI
Order	-			
Tested samples/items	Enclosure type EMC	CI2QT-02V-140-T5 ser	iai n° A-2314	
Tests carried out	Verification of the	degree of protection	n IP41H	
Standards/Specifications	Verification of the	degree of protectio	n of enclosures IEC	60529:2001
Tests date from	12/06/2015	to 12/06/2	2015	
The results reported in this docum Partial reproduction of this docum	Construction and and and and again	and the second sec	from CESI,	
No. of pages 9	No.	of pages annexed	-	
Issue date 12/06/20	15			
Prepared T&C -CE	R- PRO - Andrea Pade	ovani		
Verified T&C- CE	R – PRO- Mirko Balaz			
Approved T&C - Cl	ER– Roberto Piccin			
(Printer Later)				

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Page1/9

				IPH M
TEST REPORT		DRAF	T B5012530	FGH
Client	ELIMSAN SALT CI	HAZLARI VE ELEKTRON	MEKANIK SAN. VE	TIC. A.S.
Address of the client	Bagdat Mah. D-10 TURKEY	00 Karayo N° 368 – 430	002 KARTEPE,KOC	AELI
Order	-			
Tested samples/items	Enclosure type EN	1Cl2QC-02V-140-T5 seri	al n° A-2305	
Tests carried out	Verification of the	e degree of protection	IP41H	
Standards/Specificatior	verification of the	e degree of protection	of enclosures IEC	60529:2001
Tests date	from 12/06/2015	to 12/06/20	015	
	locument relate only to the te document is permitted only wi		rom CESI.	
No. of pages 10	No.	of pages annexed		
Issue date 12/0	06/2015			
Prepared T&C	-CER- PRO - Andrea Pac	dovani		
Verified T&C	- CER – PRO- Mirko Bala	Z		
Approved T&C	– CER– Roberto Piccin			
Approved				

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#### KEMA HIGH-VOLTAGE LABORATORY

#### SUMMARY

Order no.: 72124101

#### CLIENT

Elimsan Switchgear Equipment and Electromechanics Industry and Trade Inc Kartepe, Kocaeli, Turkey

#### MATERIAL TESTED

Metal-enclosed switchgear units: Casette Type 4 panel and FMW Type 7.1 panel: C-type feeder panel with metering end and FMW type bus sectional panel with metering

12 kV - 50 Hz - 800 A (31,5 kA / 3 sec)

TEST PROGRAMME Level 1 and level 2 ageing tests in accordance with IEC/TS 62271-304 (2008).

#### DATE AND PLACE OF THE TESTS

6 May until 30 June 2015 in the KEMA High-Voltage Laboratory, Arnhem, the Netherlands.

#### PERSONS (PARTLY) ATTENDING THE TESTS

Name Mr Cemal Sadiki Mr Ergun Yologlu Mr İsmail Ecertastan Company Elimsan A.S., Kocaeli, Turkey

#### THE TESTS WERE CARRIED OUT BY Name Mr Pieter Kuijpers Mr John Mooren Mr A. Visser

Company KEMA Nederland B.V., Arnhem, the Netherlands



#### KEMA HIGH-VOLTAGE LABORATORY

#### SUMMARY

Order no.: 72124275

#### CLIENT

Elimsan Switchgear Equipment and Electromechanics Industry and Trade Inc Kartepe, Kocaeli, Turkey

#### MATERIAL TESTED

Six current transformers, cast resin type, indoor type, Ith 31,5 kA - 3 s, frequency 50 Hz

Type 1, ratio 100/5-5A, class 5P10 - 15 VA, class 1FS5 - 15 VA Type 2/4, ratio 400-300/5A, 400/5-5A, PX - Vkp > 150V, class 5P10 - 15 VA, class 1FS5 - 15 VA Type 3, ratio 400/5-5A, class 5P10 - 15 VA, class 1FS5 - 15 VA Type 5, ratio 100/5-5-5A, class 5P10 - 15 VA, class 1FS5 - 15 VA, class 0,5FS5 - 15 VA Type 6, ratio 400-300/5A, 400/5-5-5A, PX - Vkp > 150V, class 5P10 - 15 VA, class 0,5FS5 - 15 VA, class 1FS5 - 15 VA

Type 7, ratio 400/5-5-5A, class 5P10 - 15 VA, class 1FS5 - 15 VA, class 0,5FS5 - 15 VA

#### TEST PROGRAMME

Complete type test according IEC 61869-2 standard clauses:

- 7.3.1 Power-frequency voltage withstand test on primary terminals
- 7.3.2 Partial discharge measurement
- 7.3.4 Power-frequency voltage withstand tests on secondary terminals
- 7.3.5 Tests for accuracy
- 7.3.6 Verification of markings
- 7.3.201 Determination of secondary winding resistance
- 7.3.203 Test for rated knee point e.m.f and exciting current at rated knee point e.m.f.
- 7.3.204 Inter-turn overvoltage test
- 7.2.3 Impulse voltage withstand test on primary terminals
- 7.2.201 Short-time current tests
- 7.3.1 Power-frequency voltage withstand test on primary terminals (at 90%)
- 7.3.2 Partial discharge measurement (at 100%)
- 7.3.4 Power-frequency voltage withstand tests on secondary terminals (at 90%)
- 7.2.6 Tests for accuracy (after short time withstand tests)
- 7.2.2 Temperature rise test

#### DATE AND PLACE OF THE TESTS

8 until 29 June 2015 in the KEMA High-Voltage Laboratory, Arnhem, the Netherlands.



#### KEMA HIGH-VOLTAGE LABORATORY

#### SUMMARY

Order no.: 72124276

#### CLIENT

Elimsan Switchgear Equipment and Electromechanics Industry and Trade Inc. Kartepe, Kocaeli, Turkey

#### MATERIAL TESTED

Two voltage transformers, cast resin type, indoor type, 1,5 Un 30s, frequency 50 Hz.

Type 6, ratio 11/√3 : 0,11/√3 : 0,11/√3, class 0,5 - 100VA, class 3P - 100 VA Type 5, ratio 11/√3 : 0,11/√3, class 0,5 - 100VA

#### TEST PROGRAMME

Complete type test according IEC 61869-3 standard clauses:

- 7.3.1 Power-frequency voltage withstand test on primary terminals
- 7.3.2 Partial discharge measurement
- 7.3.4 Power-frequency voltage withstand tests on secondary terminals
- 7.3.5 Tests for accuracy
- 7.3.6 Verification of markings
- 7.2.3 Impulse voltage withstand test on primary terminals
- 7.2.301 Short-circuit withstand capability test
- 7.3.1 Power-frequency voltage withstand test on primary terminals (at 90%)
- 7.3.2 Partial discharge measurement (at 100%)
- 7.3.4 Power-frequency voltage withstand tests on secondary terminals (at 90%)
- 7.2.6 Test of accuracy (after short-circuit withstand capability test)
- 7.2.2 Temperature rise test

#### DATE AND PLACE OF THE TESTS

8 until 29 June 2015 in the KEMA High-Voltage Laboratory, Arnhem, the Netherlands.

# LOW VOLTAGE

# **KEMA** Quality

# **TEST CERTIFICATE**

Number: 2133222.100

Issued to:	Qatari German Switchgear WLL P.O.Box – 23661 Doha, Qatar
For the product:	Main Switchboard and withdrawable motor control center
Trade name:	Qatari German Switchgear WLL
Type/Model:	FALCON
Ratings:	Uimp 8 kV, Ui 690 V, Ue 415 V, 50 Hz, IP44, le 3200 A, Icw 65 kA_3 s (main busbar and ACBs), Icc 65 kA at 415 V
Manufactured by:	Qatari German Switchgear WLL P.O.Box – 23661 Doha, Qatar
Requirements:	IEC 61439-2:2009, clauses 10.2.2, 10.2.3, 10.2.7, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11 and 10.13
Remarks:	Clause 10.6, 10.7, 10.8, 10.12 have been covered by declarations provided by the manufacturer. The enclosure complies to IP54 with filters only (without fans). The examination of components in the assembly, with their relevant product standards, is not part of this project.

This Test Certificate is granted on account of an examination by KEMA Quality, the results of which are laid down in test report no 2133222.01-QUA/INC dated November 11, 2010.

The examination has been carried out on one single specimen of the product, submitted by the manufacturer. The Attestation does not include an assessment of the manufacturer's production. Conformity of his production with the specimen tested by KEMA Quality is not the responsibility of KEMA Quality.

Arnhem, November 11, 2010

F.S. Strikwerda Certification Manager

© Integral publication of this certificate and adjoining reports is allowed

KEMA Quality B.V. Utrechtseweg 310, 6812 AR Arnhem P.O. Box 5185, 6802 ED Arnhem, The Netherlands T +31 26 356 2000 F +31 26 352 5800 www.kemaquality.com Company registration 09085396



# KEMA Quality

Page 1 of 106 2133222.01-QUA/INC TEST REPORT Qatari German Switchgear Company W.L.L. Applicant P.O. Box 23661 Doha Qatar **Application Date** January 8, 2010 ż 213322200 Order Number Design verification of main distribution board & Subject withdrawable motor control center Qatari German Switchgear Company W.L.L. Trademark FALCON Type(s) Arnhem, November 11, 2010 Manufacturer/ Production sites Qatari German Switchgear Company W.L.L. P.O. Box 23661 Doha Qatar See Page 8 Overview of tests : IEC 61439-1:2009 + IEC 61439-2:2009 **Test Requirements** 1 clauses 10.2.2, 10.2.3, 10.2.7 and 10.3 - 10.13 Conclusion The product complies with the specified requirements Tested by H.G.M. Kormelink H.L. Schendstok Checked by Contents 14 Pages general and description 2 Temperature-rise tables 8 Short-circuit tables 54 Oscillograms 17 Photographs

#### 12 Drawings

#### RVer

1244-10

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#### 4 Summary of design verifications

Tests for the following clauses of IEC 61439-2 were conducted:

- 10.2.2 Resistance to corrosion;
- 10.2.3 Properties of insulating materials;
- 10.2.7 Marking;
- 10.3 Degree of protection;
- 10.4 Clearances and creepage distances;
- 10.5 Protection against electric shock and integrity of protective circuits;
- 10.6 Incorporation of switching devices and components\*;
- 10.7 Internal electrical circuits and connections\*;
- 10.8 Terminals for external conductors\*;
- 10.9 Dielectric properties;
- 10.10 Verification of temperature rise;
- 10.11 Short-circuit withstand strength;
- 10.12 Electromagnetic compatibility\*;
- 10.13 Mechanical operation;

\* These paragraphs have been covered by declarations provided by the manufacturer. The declaration of the manufacturer can be found in annex E.

The examination of the compliance of components in the assembly, with their relevant product standards, is not part of this project.

#### 5 General Items

Location of the tests

The short-circuit tests were carried out at the Prof. Ir. Damstra Laboratory in Hengelo, the Netherlands. The other tests were carried out at the KEMA Quality laboratory in Arnhem, the Netherlands.

Short-circuit tests were carried out by

R. Wanschers	Prof. Ir. Damstra Laboratory
A. van Bochove	Prof. Ir. Damstra Laboratory

Manufacturer's representatives during tests

Abu-Dhais Feras Qatari German Switchgear Company W.L.L.

The tests were supervised by

H.G.M. Kormelink KEMA Quality

General notes on tests

The frequency during the tests was 50 Hz.



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#### 6 DESCRIPTION OF THE TESTS

#### 6.1 Strength of materials and parts

6.1.1 Resistance to corrosion (IEC 61439-2 clause 10.2.2)

The test was carried out on representative parts showing the same constructional detail as the panel itself: material, thickness, layer of coating, etc. All hinges, locks and fastenings were tested. The samples were in a new and clean condition.

The samples were subjected to the following test conditions (Severity test A – Indoor):

- six cycles of 24 h, damp heat cycling test according to test Db of IEC 60068-2-30 at 40 °C and relative humidity of 95%;
- two cycles of 24 h, salt mist test according to test Ka of IEC 60068-2-11 at a temperature of (35 ± 2) °C.

After the test, the samples were washed in running tap water for 5 min, rinsed in distilled or demineralized water then shaken to remove water droplets. The specimen under test were then stored under normal service conditions for 2 h. By visual inspection it was verified that after the test there is no evidence of rust, cracking or other deterioration.

Result: Pass.

6.1.2 Properties of insulating materials (IEC 61439-2 clause 10.2.3)

# 6.1.2.1 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects (IEC 61439-2 clause 10.2.3.3)

The glow-wire test was carried out on all insulating materials. Insulating materials retaining currentcarrying parts in position were tested at a temperature of 960 °C. Other insulating materials were tested at a temperature of 650 °C. The duration of each test was 30 seconds and the tip of the glow-wire was applied at a place where the section is thinnest and not less than 15 mm from the upper edge of the specimen.

All materials comply with the requirements.

Result: Pass.

#### 6.1.3 Marking

(IEC 61439-2 clause 10.2.7)

The marking is made by pressing / engraving. The test according clause 10.2.7 of IEC 61439-2 is not applicable.

Result: Pass.

# 6.2 Verification of the degree of protection (IEC 61439-1 clause 10.3)

The tests were made on a representative test object with fans and filters according to IEC 60529 for a rating of IP44. The sample has been specially prepared by using kit and a gasket for the ACB compartment.



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#### 6.2.1 Tests for the first numeral 4

Degree of protection test to IP 4X against access to hazardous parts:

This test was done with a straight rigid steel wire with a diameter of 1 mm. The test force was 1 N  $\pm$  10%. The wire could not enter the panel through the filters and adequate clearance was kept.

Result: Pass.

#### 6.2.2 Tests for the second numeral 4

The test was made using a spray nozzle according to fig. 5 of IEC 60529 without counterbalanced shield. The assembly was sprayed for 5 min from all practicable directions with a water flow rate 10 l/min  $\pm$  5%. The distance from the spray nozzle to the assembly was 300 – 500 mm.

The assembly under test was placed in vertical position on the floor. The ventilators were switched off during the test.

After the test there was no ingress of water.

Result: Pass.

#### 6.2.3 Tests for the first numeral 5

IP 5X tests were also conducted on the same enclosure without fans and with filters. Again the sample has been specially prepared by using kit and a gasket for the ACB compartment.

Degree of protection test to IP 5X against access to hazardous parts:

This test was done with a straight rigid steel wire with a diameter of 1 mm. The test force was 1 N  $\pm$  10%. The wire could not enter the panel.

Degree of protection test to IP 5X against dust:

The test was made using the equipment according to fig. 2 of IEC 60529, consisting of a closed test chamber in which talcum powder is maintained in suspension by an air current.

The talcum powder used is be able to pass through a square-meshed sieve with a nominal wire diameter is  $50 \ \mu m$  and the nominal width between wires is  $75 \ \mu m$ .

The amount of talcum powder to be used is 2 kg per cubic metre of the test chamber.

The assembly under test was placed in vertical position on the floor. The duration of the test was 8 h.

After the test the enclosure was free from dust.

Result: Pass.

#### 6.3 Clearances and creepage distances

(IEC 61439-2 clause 10.4)

According to the standard, the following distances are required (Uimp = 8 kV, Ui = 690 V, Pollution degree = 3, and Material group = IIIa):

- Clearance should be  $\ge 8 \text{ mm}$
- Creepage distance should be  $\geq$  10 mm

The following minimum distances were measured:

- Clearance > 13,8 mm
- Creepage distance > 13,8 mm

Result: Pass.



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- 6.4 Protection against electric shock and integrity of protective circuits (IEC 61439-2 clause 10.5)
- 6.4.1 Effective earth continuity between the exposed conductive parts of the assembly and the protective circuit (IEC 61439-2 clause 10.5.2)

The effectiveness of the protective circuit has been verified by measuring the voltage drop from the PE terminal to several points of the assembly. This measurement is done by injecting a DC-current of 10 A. The voltage drop over the injection points is measured and out of that the resistance is calculated.

The maximum measured resistance is  $10 \text{ m}\Omega$  which is below the maximum allowed  $100 \text{ m}\Omega$ .

Result: Pass.

# 6.4.2 Effectiveness of the protective circuit (IEC 61439-2 clause 10.11.5.6)

Details of the testing of the short-circuit withstand strength of the PE are given in Appendix B on sheet 7. The oscillogram is provided in Appendix C. From the data in these appendices it is concluded that the short-circuit withstand strength of the PE complies with the specified value as given on page 2.

After the short-circuit test the effectiveness of the protective circuit has been verified. The value after the short-circuit test is 0,153 m $\Omega$  which is below the maximum allowed 100 m $\Omega$ .

Result: Pass.

#### 6.5 Dielectric properties

(IEC 61439-2 clause 10.9)

The dielectric properties were verified with a power frequency test and an impulse voltage withstand test in the following connections:

- L1 to L2/L3/N/PE
- L2 to L1/L3/N/PE
- L3 to L1/L2/N/PE
- N to L1/L2/L3/PE
- PE to L1/L2/L3/N

#### 6.5.1 Impulse withstand voltage

The assembly was tested for a rated impulse withstand voltage of 8 kV. The applied voltage was 9,8 kV 1,2/50  $\mu$ s (sea level).

The test impulse voltage was applied five times for each polarity at intervals of 1 second minimum in the prescribed connections. No breakdown or flash-over occurred during the tests.

Result: Pass.

#### 6.5.2 Power frequency test

The assembly was tested for an insulation voltage of 690 Vac. The assembly was subjected for 5 seconds to a high voltage test with a test voltage of 2200 Vac. No breakdown or flash-over occurred during the tests.



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Result: Pass.

# 6.6 Verification of temperature rise (IEC 61439-2 clause 10.10)

The temperature-rise at the various points was measured by the means of thermocouples fixed by adhesive foil. The location of the thermocouples is given in the tables and pictures from Appendix A. The ambient temperature in the test room was also measured by thermocouples.

The current in each phase of the panel was kept constant until a steady temperature was reached. The tables give the recorded temperature-rise values.

The enclosure was equipped with 16 fans, which were running during the temperature-rise tests. For location of fans and filters see also the drawings in Appendix E.

#### 6.6.1 Complete assembly

(IEC 61439-2 clause 10.10.2.3.5)

A temperature-rise test was conducted on the complete assembly considering individual functional units, the main and distribution busbars and the assembly collectively. On request from the manufacturer the test was conducted at 50 °C ambient temperature. The temperature rise limits have therefore been reduced with 15 K. Due to the temperature rise restriction at 50 °C, the test results are also valid for 35 °C ambient temperature.

The 50 Hz current source was connected by 3 m long copper busbars of  $100 \times 10 \text{ mm}^2$  to the supply connection of the assembly. Per phase 4 busbars were connected. The assembly was loaded with 3200 A.

Outgoing units	Load current [A]	Cross-section cables / busbars [mm <sup>2</sup> ]
(1x) ACB 2500 A	1150	(4x) 100 x 5
(1x) ACB 1600 A	736	(4x) 240
(2x) MCCB 630 A	289,8	(2x) 185
(2x) MCCB 400 A	184	240
(1x) MCCB 250 A	115	120
(2x) MCCB 160 A	73,6	70
(2x) MCCB 100 A	46	35

The outgoing units were supplied according to the table below.

Table 2 - Temperature rise load currents

Table 3 gives the recorded temperature-rise values at steady state. The values do not exceed the maximum allowed temperature-rise limits.



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#### 6.6.2 Main busbar

(IEC 61439-2 clause 10.10.2.3.7 a))

A temperature-rise test was conducted on the main busbars. On request from the manufacturer the test was conducted at 50 °C ambient temperature. The temperature rise limits are reduced compared to the 35 °C ambient temperature limits, therefore the outcome of this test covers also the lower ambient temperatures.

The 50 Hz current source was connected by 3 m long copper busbars of 100 x 10 mm<sup>2</sup> to the supply connection of the assembly. Per phase 4 busbars were connected. The busbar was loaded with 3200 A. The other side of the main busbar was connected with 2 m long copper busbars of 100 x 10 mm<sup>2</sup> to the starpoint. Per phase 4 busbars were connected.

Table 4 gives the recorded temperature-rise values at steady state. The values do not exceed the maximum allowed temperature-rise limits.

Result: Pass.

#### 6.7 Short-circuit withstand strength

(IEC 61439-2 clause 10.11)

Details of the testing of the short-circuit withstand strength of the assembly are given in Appendix B on sheet 1 up to and including 8. The oscillograms are provided in Appendix C. From the data in these appendices it is concluded that the short-circuit withstand strength of the assembly complies with the specified values as given on page 2.

Main busbar system Short-time withstand rating $(I_{cw})$	3 phases:	I <sub>cw</sub> = 65 kA − 3 s	(osc. 2 and 4)
	L3 – N:	I <sub>cw</sub> = 65 kA − 3 s	(osc. 6 and 8)
Incoming unit Short-time withstand rating (I <sub>cw</sub> ) ACB 3200 A Sace Emax E3	3 phases: L1 – N:	I <sub>cw</sub> = 65 kA – 3 s I <sub>cw</sub> = 39 kA – 3 s	(osc. 10 and 13) (osc. 14 and 16)
Conditional short-circuit rating (I <sub>cc</sub> ) ACB 3200 A Sace Emax E3 Remark: neutral is covered by I <sub>cw</sub> test o	3 phases: on neutral.	$I_{cc} = 65 \text{ kA at } 415 \text{ V}$	(osc. 30)
<u>Outgoing units</u> Short-time withstand rating (I <sub>cw</sub> ) ACB 2500 A Sace Emax E3	3 phases: L1 – N:	I <sub>cw</sub> = 65 kA − 3 s I <sub>cw</sub> = 39 kA − 3 s	(osc. 42 and 44) (osc. 46 and 48)
ACB 1600 A Sace Emax E3	3 phases:	$I_{cw} = 65 \text{ kA} - 3 \text{ s}$	(osc. 52 and 54)
	L1 – N:	$I_{cw} = 39 \text{ kA} - 3 \text{ s}$	(osc. 56 and 58)
Conditional short-circuit rating (I <sub>cc</sub> ) ACB 2500 A Sace Emax E3 Remark: neutral is covered by I <sub>cw</sub> test c	3 phases: on neutral.	$I_{cc} = 65 \text{ kA at } 415 \text{ V}$	(osc. 49)
ACB 1600 A Sace Emax E3	3 phases:	$I_{cc} = 65 \text{ kA at } 415 \text{ V}$	(osc. 20)
	L1 – N:	$I_{cc} = 39 \text{ kA at } 240 \text{ V}$	(osc. 32)
MCCB 630 A Sace Tmax (fixed)	3 phases:	$I_{cc} = 65 \text{ kA at } 415 \text{ V}$	(osc. 21)
	L1 – N:	$I_{cc} = 39 \text{ kA at } 240 \text{ V}$	(osc. 33)



TEST REPORT MCCB 400 A Sace Tmax (fixed) 3 phases:  $I_{cc} = 65 \text{ kA} \text{ at } 415 \text{ V}$ (osc. 22) L1 – N:  $I_{cc}$  = 39 kA at 240 V (osc. 34) MCCB 160 A Sace Tmax (fixed) 3 phases:  $I_{cc} = 65 \text{ kA at } 415 \text{ V}$ (osc. 26) L1 – N:  $I_{cc} = 39 \text{ kA at } 240 \text{ V}$ (osc. 35) MCCB 100 A Sace Tmax (fixed) 3 phases:  $I_{cc} = 65 \text{ kA at } 415 \text{ V}$ (osc. 25) L1 – N:  $I_{cc} = 39 \text{ kA at } 240 \text{ V}$ (osc. 36) MCCB 630 A Sace Tmax 3 phases:  $I_{cc} = 65 \text{ kA at } 415 \text{ V}$ (osc. 23) L1 – N:  $I_{cc} = 39 \text{ kA at } 240 \text{ V}$ (withdrawable) (osc. 37) MCCB 400 A Sace Tmax  $I_{cc} = 65 \text{ kA at } 415 \text{ V}$ 3 phases: (osc. 24) L1 – N:  $I_{cc} = 39 \text{ kA at } 240 \text{ V}$ (withdrawable) (osc. 38) (osc. 29) MCCB 160 A Sace Tmax 3 phases:  $I_{cc} = 65 \text{ kA at } 415 \text{ V}$ (withdrawable) L1 – N:  $I_{cc} = 39 \text{ kA at } 240 \text{ V}$ (osc. 39) MCCB 100 A Sace Tmax  $I_{cc} = 65 \text{ kA at } 415 \text{ V}$ 3 phases: (osc. 28) L1 – N:  $I_{cc} = 39 \text{ kA at } 240 \text{ V}$ (withdrawable) (osc. 40)

Result: Pass.

#### 6.8 **Mechanical operation**

(IEC 61439-2 clause 10.13)

Test sequence for cover of 2500 A ACB:

200 x (open lock with key - open cover - close cover - close lock with key). The mechanical operation of the ACB cover and its lock are not impaired.

Test sequence for 160 A MCCB and 630 A MCCB withdrawable units: 200 x (turn handle off - push interlock and withdraw unit - push unit back - turn handle on). The mechanical operation of the withdrawable units and their handles and interlocks are not impaired.

Result: Pass.

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**OUR PRODUCTS** 



## **OUR PRODUCTS**





#### MADE IN QATAR

#### LEQO

Advanced Precast Distribution Substation

#### **HV Panels**

Single Busbar Arrangement Metal Enclosed Switchgear fully compartmentalized Arc Proof construction Horizontal Isolation & Horizontal Drawout Circuit Breaker – Floor Mounted Type & Cassette type Standard – IEC 62271-200



#### **Battery & Charger**

30V DC 48V DC



#### **Feeder pillars**

High – performance medium voltage switchgear. Our best -in-class range includes SF6 gas and oil insulated transformer or ground mounted ring main units, Pole or structure mounted air break disconnetior's , and air and gas load break pole or structure mounted air break disconnetior's, and air and gas load break switches



إدارة حماية حقوق الملكية الفكرية مكتب حق المؤلف و الحقوق المجاورة



وزارة الاقتصاد والتجارة Ministry of Economy and Commerce

تاريخ الطباعة:2018/07/25 2018 صفحة رقم:1 / 1 Page

Intellectual Property Rights Protection Department Copyright&Related rights office

#### شهادة قيد بإيداع مصنف

يشهد مكتب حماية حق المؤلف والدقوق المجاورة، بأنه قد قام بحفظ وإيداع مصنفكم بموجب القانون رقم (7) لسنة 2002م

بشأن حماية حق المؤلف والحقوق المجاورة.

تاريخ قيد المصنف: 2018/07/09

رقم الإيداع: ج م ف/149/2018

اسم المصنف: ADVANCE PRECAST DISTRIBUTION SYSTEM - LEQO BRAND

نوع المصنف: تصميمات ومخططات

موضوع المصنف: إن ليكو هو عبارة عن كشك مسبق الصنع مصبوب بنظام الفولبة ومكون من الجدران الخرسانية والخناق والكتل الخرسانية والأساسات المملوءة بشبكة حديدية مدمجة مع بعضها البعض لتشكل تأريض داخل الجداران والكتل الخرسانية، ويتم تجميع الجدران والكتل الخرسانية بنظام البناء التشابكي بالتسلسل والارتكاز علم بعضها البعض، إن جميع الأجزاء تتصل ببعضها البعض بواسطة براغب فولاذية أو نواقل نحاسية وذلك من أجل تأريض مناسب، إن جميع نقاط الاتصال معزولة بمادة " البولي يوريثين ماستيك" الصديقة للبيئة، جميع الأبوب فولاذية أو نواقل نحاسية وذلك من أجل تأريض والمطلب غير الناقل للكهرباء، إن السقف محاط بدرابزين مع نظام تصريف" الصديقة للبيئة، جميع الأبوب وفتحات التهوية مصنوعة من الفولاذ المجلفن الخرسانية وذلك لتسهيل تثبيتها وتركيبها مع الأنايب المعزولة.

الجنسية	مالك المصنف
قطر	/الشركة القطربة الالمائية لتصنيع اللوحات الكهربائية

سلمت الشهادة إلى السيد/تي ام بي اجنتس ابوغزاله للملكيه الفكريه بصفته وكيل المصنف

وتفضلوا بقبول فائق التقدير والاحترام ،

رئيس مكتب حق المؤلف والحقوق المجاورة



11KV SWITCHGEAR MANUFACTURER: ELIMSAN - TURKEY

Date : 20.01.2021

Subject : Renewal of Authorized Sole Dealer & Exclusive Partner Ref : 21.SDEP-QGC-QA-GM-ES.01

#### TO WHOM IT MAY CONCERN

We as Elimsan, hereby confirm that M/s. Qatari German Switchgear Company W.L.L, P.O. Box 23661, Doha, Qatar is an Elimsan Switchgear Equipment And Electromechanics Industry And Trade Inc. Authorized Sole Dealer for MV Switchgears systems for the territory of the Qatar.

For any further clarification or verification of the validty of this letter , please feel free to contact us.

Yours Sincerely,

C elim/an

Enis Şahin Sales Directo Hüseyin Mehmet Ağacan Member of Board

Note: Validity of this document is until 31.12 2021.



03/07/2015

Dear Customer

We would like to confirm that the actual origin for all our standard products which we are offering in Middle East Region are from Turkey country .

ELİNISAN ŞALT CİHAZLARI VE ELE SANAYİ VE TİCARET ANON Merkez Bağdat Mir. D-100 Karayolu Co. M-30 **DMEKANIK** 

We are at your disposal for any further clarification.

Thank you .

Yours Sincerely,

Aykut Ecin Sales Director aykut.ecin@elimsan.com Office: +90 262 375 23 60 Ext: 674 / Fax: +90 262 37

Office: +90 262 375 23 60 Ext: 674 / Fax: +90 262 375 23 22 Bagdat Mh. D100 Karayolu Cd. No:368 Kartepe Kocaeli / TURKEY 

# CERTIFICATE

# ELİMSAN A.Ş.

İbrikdere Mah. D-100 Karayolu Cad. No: 368 Kartepe/Kocaeli/Türkiye

# ISO 14001:2015

This company's management system for the following scope was audited according to the above standard and verified.

Manufacture of High and Medium Voltage Produsts, Instrument Transformers and Concrete Kiosk Development, Production, Sales, After Sales Service, Maintenance and Support Services

Certificate Number: SISBEL-2020037

General Manager

Mehmet SOLAK

TÜRKAR

First certification date: 21.09.2020 Recertification date: Certificate validity date: 20.09.2022 Revision no/date: 01/22.10.2021

This certificate is valid for three years provided that the organization complies with the terms of the certification contract and verifies compliance with the standard requirements in the surveillances. The certificate will be published annually after certification and surveillances. The organization's compliance with the standard and certification contract requirements will be assessed regularly each year. The certification validation situation can be looked at by www.sisbel.com

Sistem Eğitim ve Belgelendirme Etd. Ştj. www.sisbel.com info@sisbel.com Adres: Prof. Dr. Ali Nihat Tarlan Cad. No: 84/6 Ataşehir/İstanbul/TÜRKİYE Tel: +90 216 5301238 

# Sisbel

# CERTIFICATE

# ELİMSAN A.Ş.

İbrikdere Mah. D-100 Karayolu Cad. No:368 Kartepe Kocaeli Türkiye

# ISO 9001:2015

Standardına göre aşağıdaki kapsamlar için denetlendi ve uygunluğu doğrulandı.

Orta ve Yüksek Gerilim Şalt Cihazları, Ölçü Trafoları ve Beton Köşk tasarımlarını, geliştirilmesini, üretimini, satışını, satış sonrası servis ve bakım hizmeti faaliyetlerini ve bunları gerçekleştirirken gerekli olan destek faaliyetleri

#### Sertifika No: SİSBEL-2020028

Ilk belgelendirme tarihi: 17.08.2020 Yeniden belgelendirme tarihi: Belge geçerlilik tarihi: 16.08.2022 Revizyon no/tarihi: 1/03.09.2021

-

Bu sertifika kuruluşun belgelendirme sözleşmesi şartlarına uyması ve gözetimlerde standart gerekliliklerine uygunluğunun doğrulanması şartıyla belgelendirme tarihinden itibaren üç yıl geçerlidir. Sertifika belgelendirme ve gözetimlerden sonra yıllık olarak yayımlanacaktır. Kuruluşun standart ve belgelendirme sözleşme şartlarını yerine getirdiği her yıl kontrol edilecektir. Sertifikanın geçerlilik durumu **www.sisbel.com** adresinden sorgulanabilir.

Sistem Eğitim ve Belgelendirme Ltd. Şti. www.sisbel.com Adres: Prof. Dr. Ali Nihat Tarlan Cad. No: 84/6 Ataşehir/İstanbul/TÜRKİYE Tel: +90 216 5301238







Genel Müdür

Mehmet SOLAK

242 244





EMC12 Air Insulated Metal Clad Switchgear Truck Type

12 kV, 25 kA - 31,5 kA 3 sec (LSC2B, PM)

Standard IEC 62271-200



Nature is Our Most Valuable Partner

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#### Benefits, Typical uses

i. Save lives

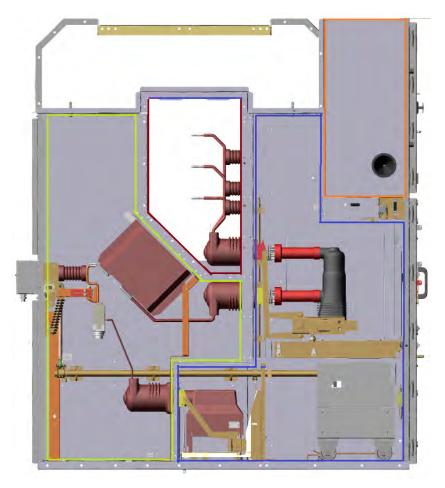
ii. Peace of minds

iii. Increases productivity

iv. Save money

The circuit-breaker switchgear EMC12 is a factory-assembled, type tested switchgear for indoor installation according to IEC 62271-200.

**Application** 



#### Typical uses

The EMC12 circuit-breaker switchgear can be used in transformer and switching substations, e.g.:

- Power supply companies
- 🗕 Hotels
- Shopping centres
- Office buildings
- Business centres
- 🖶 🛛 Water treatment plant
- 🚢 Metro railways
- Textile, paper and food industries

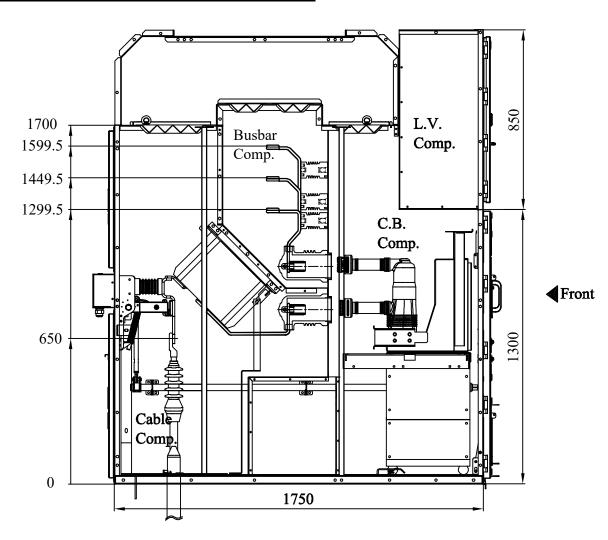
#### **Technical Data**

#### Ratings

Electrical data (maximum values) of EMC12

Ratings	Rated Values (Max.)
Rated voltage (frequency 50Hz)	12 kV
Rated current of feeders	up to 800 A
Rated current of the busbar	up to 800 A
Rated power frequency withstand voltage (rms) 1min.	28 kV
Rated lightning impulse withstand (peak) 1.2/50 microsec.	75 kV
Rated short circuit breaking current (rms)	31.5 kA
Rated short time current (rms) withstand (3 sec.)	31.5 kA
Rated short Circuit making current (peak)	80 kA
Internal arc fault withstand capacity (1 sec.)	31.5 kA
Dimensions (Standard)	
Width (mm)	700
Height (mm)	2150
Depth (mm)	1750

Ratings	Rated Values (Max.)
Rated voltage (frequency 50Hz)	12 kV
Rated current	up to 800 A
Rated power frequency withstand voltage (rms) 1min.	28 kV
Rated lightning impulse withstand (peak) 1.2/50 microsec.	75 kV
Rated short circuit breaking current (rms)	31.5 kA
Rated short time current (rms) withstand (3 sec.)	31.5 kA
Rated short Circuit making current (peak)	80 kA

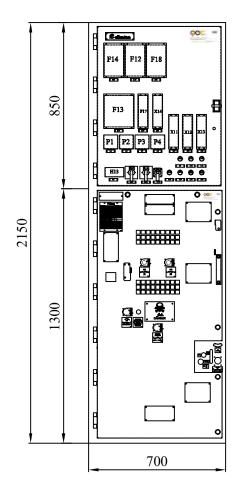


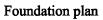
#### Classifaciton of the EMC12 according to IEC 62271-200

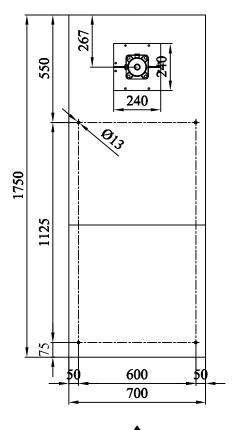
Internal arc classification		
Classification		IAC
Accessibility		
-Front		Туре А
-Rear		Туре А
-Lateral		Туре А
Test current	kA	31.5
Test duration	S	1

Construction and design	
Partition class	PM (metalic)
Loss of service contiunity category	LSC2B
Compartment accessibility (standard)	
-Busbar compartment	Tool-based
-Switching-device compartment	Interlock-based
-Low-voltage compartment	Tool-based
-Cable compartment	Interlock-based

Front view

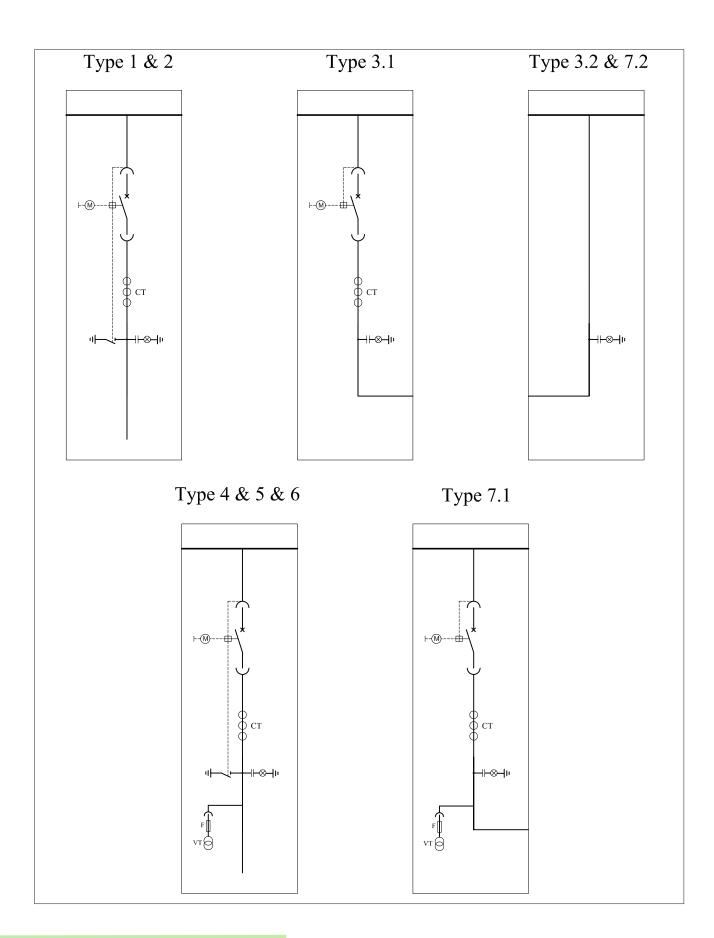


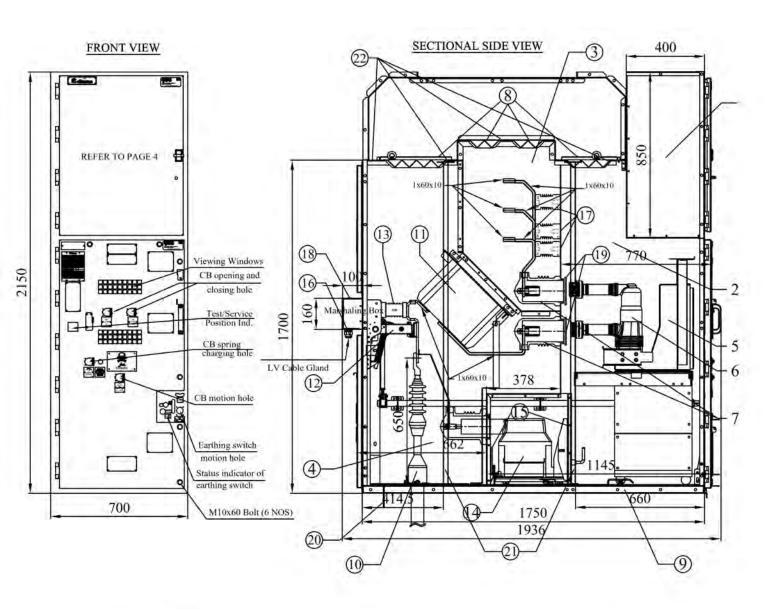




Front

## Product Range





#### LEGEND FOR PANEL DESIGN

- 1- LOW VOLTAGE COMPARTMENT
- 2- CB COMPARTMENT
- 3- BUSBAR COMPARTMENT
- (4)- CABLE CONNECTION COMPARTMENT
- ()- VACUUM CB MECHANISM
- 6- EMBEDED VACUUM CB POLE-ABB PTI
- 7- FLAP BUSHING
- 8- PRESSURE RELIEF
- 9- FLOORING BASE

- 1 CABLE GLAND
- (1). CURRENT TRANSFORMER (3 NOS.)
- 12- EARTHING SWITCH
- 3- CAPACITIVE VOLTAGE DIVIDER
- (4)- VOLTAGE TRANSFORMER WITH FUSE (3 NOS.)
- () VT REMOVABLE COVER & SAFETY SHUTTER
- 6- MARSH. BOX GLANDS (5 NOS./CW20L/M20)
- 1 INSULATOR
- 18 GREEN LAMP FOR ES

(19) - SHUTTER - Material: Sheet Dimensions: 568x125x2 mm

20 - EARTHING BARS

- 2) DRAIN
- (2) ALL TOP BOLTS ARE WITH METAL GASKET WASHER.

#### Compartments, interlocks, operation

EMC 12 range cubicles are composed of three main and one auxillary (low voltage) compartment. Each compartment has been passed 31.5 kA/1second in accordance with IEC 62271-200 standard. In each compartment, the pressure risen from the reason of internal arc is directed to the pressure relief system. Incorporated ducts collect hot gases and avacuate it by opening pressure reliefs.

#### **Cable compartment**

This compartment consists of earthing switch, medium voltage cables, current transformers and voltage transformers which are placed for some type cubicles.

#### **Busbar compartment**

Busbar in this compartment have rating up to 800 Amps. If requested, Busbars have insulation materials. Busbar compartment has been passed successfully power frequency withstand high voltage and lightening withstand tests.

#### **Circuit breaker compartment**

Carriage with drawable type Circuit Breaker, voltage transformer with fuse are the most used switching components in this compartment.

#### Low voltage compartment

This compartment are composed of measurement devices, protection relay and control devices. Low voltage compartment is situated in front of cubicle and it has a connection plug for truck.

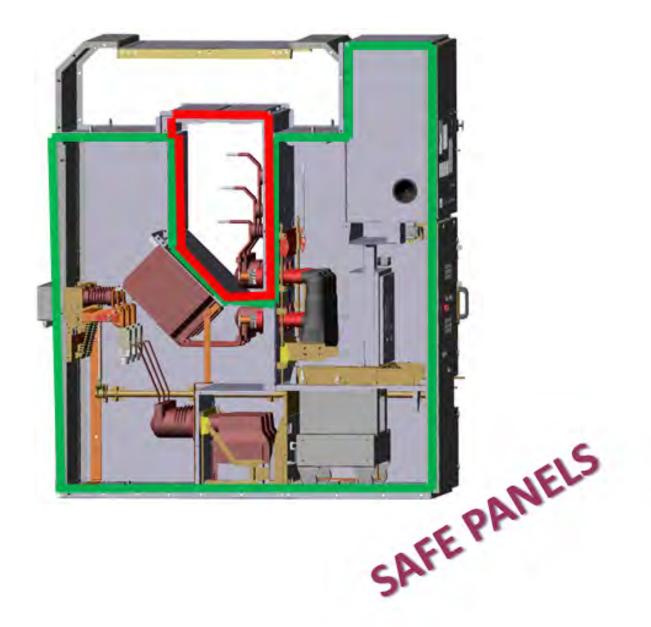
#### Interlocks

- ✓ Interlocking conditions are satisfied according to IEC62271-200.
- ✓ Earthing switch can only be operated with circuit-breaker truck in test position.
- $\checkmark$  CB truck can not be moved to service position if earth switch is closed.
- ✓ Circuit-breaker truck can only be moved with circuit-breaker "OPEN" and earthing switch "OPEN".
- ✓ Interlocking of high-voltage door against circuit-breaker truck.
- ✓ The high-voltage door can only be opened when the circuit-breaker truck is in test position.
- ✓ Option: Electromagnetic interlocks.

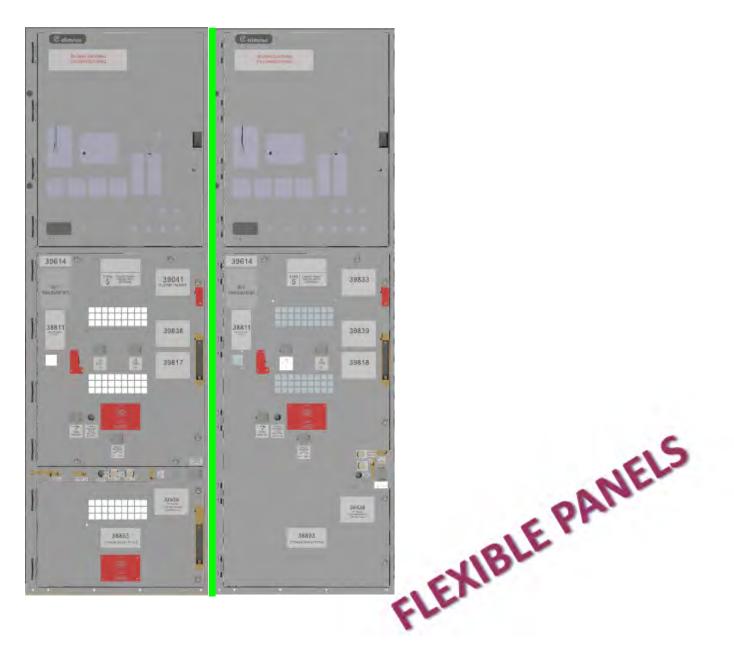
- 1- Identical Design for 25 kA 31,5 kA Panels
- > Interchangeability of all components
- Same spare parts and accessories
- Same operations and maintenance
- Flexibility for Replacement
- Flexibility for Switchboard Alignment
- Flexibility for Stock Usage



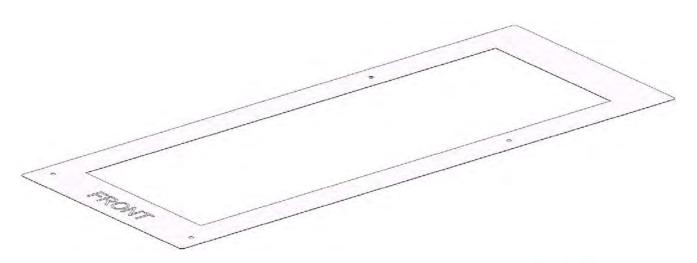
- 2- Safe Access to Cable & CB Chamber with live busbars
  - Safe Access to VCB Chamber with Live Busbars as per KM Requirement
  - Safe Access to Cable Chamber with Live Busbars in Addition to KM requirement.



- 3- Coupling possibility of Truck to Cassette type
- Flexibility for Replacement
- Flexibility for Switchboard Alignment
- Flexibility for Stock Usage



- 4- Installation Shablon
  - > EASY
  - ➢ QUICK
  - ➤ ACCURATE



EASY PANELS

- 5- Quick Coupling
- ➢ 5 Bolts Coupling



Features
<ul> <li>All switching operations including emergency manual operations with high-voltage door closed</li> </ul>
<ul> <li>Interlocking between high-voltage door and switching devices</li> </ul>
• Rack-in, rack-out operations of the circuit-breaker truck with high-voltage door closed
Metallic, earthed shutters and partitions, partition class: PM
• Internal arc tested design up to 5 k s according to IEC 62 271-200, Annex A
Use of vacuum circuit-breakers
Earthing switch interlocked with switching device truck
• Factory-assembled, type-tested switchgear according to IEC 62 271-200
<ul> <li>Type testing of the circuit-breaker inside the panel</li> </ul>
<ul> <li>Use of standard, worldwide available components</li> </ul>
Use of maintenance-free vacuum circuit-breakers
<ul> <li>Quality management according to ISO 9001</li> </ul>
Design based on global best practice sharing and experience
• More than air-insulated switchgear panels from li s n op r tion orld- id
• Use of metallic, earthed shutters and partitions between the compartments ensures highest service continuity of the switchgear (LSC2B according to IEC 62 271-200) during maintenance
Use of maintenance-free vacuum circuit-breakers
Use of maintenance-free vacuum circuit-breakers
-



#### **CB Module Characteristics**

Characteristics		EMC 12	
For the CUBICLES		12kV	
Designation		EVBE3 31.5-12-150	
Reference standards		IEC 62271-100	
Rated voltage	kV rms	12	
Rated current	A rms	up to 1250	
Rated breaking capacity short circuit current	kA rms	31.5	
cable charcing current	А	25	
line charching current	A	10	
single capacitor bank	A	400	
Rated making capacity	kA peak	80	
Rated operating time opening	ms	35	
breaking	ms	max. 55	
arcing	ms	max. 20	
closing	ms	max. 50	
Rated operating sequence		0-0.3s - CO-15s - CO	
Endurance Electrical Mechanical (C/O)		E2 M2: 10000	

## Spring Operating Mechanisms

Designation		EG2
Rated supply voltage	V	240 V AC / 30 V DC
Rated frequency	Hz	50
Reset Motor		
voltage variation range	% of Un	85 to 110
power consumption (max)	W / VA	300
starting current	A	4 In
reset time	S	<10
Shunt opening coil		
voltage variation range	% of Un	70 to 110
power consumption (max)	W / VA	80
minimum impulse duration	ms	100
Shunt closing coil		
voltage variation range	% of Un	85 to 110
power consumption (max)	W / VA	120-250
minimum impulse duration	ms	20
Auxiliary contacts		
Rated current	A	15
Breaking capacity 30 V DC (L/R 10ms)	A	10
Breaking capacity 240 V AC (L/R 20ms)	A	2

## Design

#### Construction

- ✓ Light weight and compact vacuum circuit breaker consisting of three encapsulated poles and a drive mechanism housing which forms a sturdy base for poles.
- poles.
   Operating mechanism is of stored energy type and suitable for auto reclosing duty. It can be manual / electrical as desired.
- ✓ Fully integrated contact arms with tulip type contacts.

#### Standards

✓ IEC 62271-100.

#### Salient features

- ✓ Conforms to IEC standards and is fully type tested.
- ✓ Simple and compact design.
- ✓ Totally restrike free.
- ✓ Highly reliable operation.
- ✓ Suitable for rapid autoreclosing duty.
- ✓ Matching drive and interrupter characteristics.
- ✓ All type tests carried out with VCB mounted inside the panel.

#### Advantages of vacuum over other interrupting media

- $\checkmark$  Highest dielectric strength over a small contact gap.
- ✓ Constant low contact resistance.
- ✓ Fastest recovery strength.
- ✓ Lowest arc energy dissipation.
- ✓ Lowest drive energy requirements.
- ✓ Minimum contact erosion.
- ✓ No fire hazards or explosion risk.
- ✓ VCB has least number of moving parts and hence highest reliability.

#### **Maintenance Free**

- ✓ Maintenance free with new generation Elimsan vacuum interrupters.
- $\checkmark$  The gear box is sealed and lubricated for life.
- ✓ Free from chain snapping problem of conventional operating drive mechanism.

#### **Environmental compatibility**

✓ The vacuum circuit breaker has no effect on the environment during and after the switching operations.

**Circuit Breaker Compartment** 

## EMC12 Compartments

#### **Busbar Compartment**

Cable Compartment





## 16

## **Standarts**

### Standards

The switchgear complies with the relevant standards and specifications applicable at the time of type tests. In accordance with the harmonization agreement reached by the countries of the European Community, their national specifications conform to the IEC standard.

#### Type of service location

The switchgear can be used for indoor installation in accordance with IEC 61936-1 (Power installations exceeding 1 kV AC)

 Indoor lockable electrical service locations. A lockable electrical service location is a place outdoors or indoors that is reserved and which is kept under lock and key. Access is restricted to authorized personnel and persons who have been properly instructed in electrical engineering. Untrained or unskilled persons may only enter under the supervision of authorized personnel or properly instructed persons.

#### **Overview of standards**

		IEC standard
Switchgear	EMC12	IEC 62271-1
		IEC 62271-200
Devices	Circuit Breaker	IEC 62271-1
		IEC 62271-100
	Disconnector and earthing switch	IEC 62271-102
	Voltage detection systems	IEC 61243-5
Degree of protection		IEC 60529
Insulation		IEC 60071
Transformers	Current Transformer	IEC 61289-1/61289-2
	Voltage Transformer	IEC 61289-1/61289-3
Installation		IEC 61966-1

#### Insulating capacity

Rated voltage (RMS value)	kV	12
Rated short-duration-power-frequence	y withstand	l voltage (RMS value)
-Across isolating distances	kV	32
-Between phases and to earth	kV	28
Rated lightning impulse withstand vo	ltage (peak	value)
-Across isolating distances	kV	85
-Between phases and to earth	kV	75

## Certificates

EMC12 range metal clad cubicles are produced according to the latest standards and norms as the following.

EMC12 range metal clad cubicles have been designed to meet the requirements of international standards (IEC), and validated by type tests, caried out by independent laboratories. These independent laboratories and related standards are as follows:

IEC 62271-200 TS EN 622271-200



switchgear are submitted to customer.

- Power frequency withstand voltage test
- Auxilary and control circuit withstand voltage test
- Main circuit resistance measurement
- · Design control and visual check
- Interlocking control
- Paint quality control
- Wiring control

Elimsan Switchgear Equipment and Electromechanics Industry and Trade, Inc. Kartepe / KOCAELI / TURKEY Tel : 90 262 375 23 60 Fax : 90 262 375 23 22 elimsanpazarlama@elimsan.com eli@elimsan.com www.elimsan.com LOW VOLTAGE QGC FALCON



## QGC's FALCON Type Tested Panel

The Falcon low voltage switchgear board is the standard solution for building & industrial technology.

FALCON has successfully passed all routine factory tests and type tests as per latest IEC 61439-1 & 2 standards at KEMA, the High Power and High Voltage International Laboratories at The Netherlands.

As power distribution board, FALCON is available throughout the world and can be used at all power level s up to 3200A, as withdrawable as well as plug-in and fixed-mounted units.

FALCON tailored to the needs of alobal market and offers distinct advantage to esteemed customers the standard solutions from single source and made locally available resulting in substantial savings term of



cost, consistent and high quality product delivered quickly.

#### Modular Technology:

Every FALCON is made exclusively from standardized and type-coded modules. All modules are of high quality and conform to the latest IEC61439-1 & 2 design specification.

The multiple possibilities of combining the components fulfill every varied requirement.

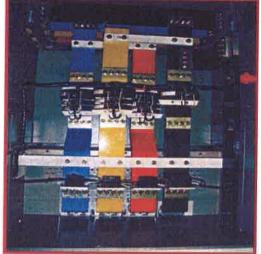
The exclusive use of high-quality FALCON switchgear ensures a long service endurance and reliable operation.

Qatari German Switchgear Company W.L.L.

الشركة القطرية الألمان لتصنيع اللوحات الكهربائية ا

## **FALCON features:**

- Type tested standard modules;
- Standardized bus bar position at the top of cubicle;
- 4 3 and 4- pole bus bar system up to 3200 Amps;
- Deep switchgear compartment for universal installation:
- Single-front and back- toback installation;
- Cable lead-in from above or below;
- Cable connection from the front or rear;



- Any components can be installed in the device compartments regardless of the bus bar position and cubicle depth;
- Deep device compartments.

## **Optimum Adaptation to space Conditions:**

- Wall mounted or free standing;
- Cables and bus bars may be connected optionally from above or below;
- Cabling compartments front or rear-located;
- Good accessibility of bus bars.

### Frame and Enclosure:

The frame consists of rigid sheet steel sections that are linked to one another. FALCON's dimensionally accurate and sturdy fare is available in bolted or welded



version.

- Flexible door system for all requirements
- Door opening angle up to 180DEG
- Spring-loaded locks reliable prevent doors from opening unintentionally

## Oatari German Switchgear **Company** W.L.L.

الشركة القطرية الألمانية لتصنيع اللوحات الكهربائية ذ.م.م.

## Surface Treatment:

Galvanised/Powder-Coated

#### Material:

Frame and enclosure are manufactured from sheet steel in the following thickness: Frame: 2, 2.5mm Enclosure: 1.5, 2.0mm

### Degrees of protection to IEC 60529:

IP 30, IP 31, IP 40, IP 41, IP 42 naturally ventilated IP 44, IP 54 forced ventilated

## Variable Bus bar System:

Differing requirements for the bus bar system call for individual options, FALCON offers modules for economical setup and high level of safety.

### **Circuit Breaker Design:**

Compact, Reliable and User-Friendly

The supply, feeder and coupling cubicles of the circuit-breaker design are equipped with withdrawable or fixed-mounted, Circuit breakers,

As a large number of loads are generally connected to these cubicles, particular importance is attached to them in terms of the long-term operating reliability and personal safety of the switchboard

FALCON meets these requirements with circuit- breaker design components.

### **Compact and Reliable:**

- High degree of safety due to type tested standard modules;
- Test and disconnected positions with door closed;
- Circuit breakers integrated in separate compartments, each equipped with a separate door;
- Optimum connection conditions for every rated current range;
- Cable connection from above or below.

### **Switching Device Compartment:**

- Reliable travel of the circuit breaker while the door is closed;
- A maintenance position allows direct local inspection without removal of the circuit breaker.

## **Cable or Busbar Connection Compartment**

- Cable or busbar connection optionally from below;
- 🐇 A rated current dependent connection compartment offers optimum termination conditions for cables and busbar;
- Assembly times are shortened by optimum connection compartments.

Qatari German Switchgear Company W.L.L.

الشركة القطرية الألمانية لتصنيع اللوحات الكهربائية ذ.م.م.

### **Fixed Mounted Design:**

FALCON fixed-mounted design offers excellent economy, safety, reliability and variability

The cubicles for cable feeders in fixed mounted execution are equipped with moulded- case circuit breakers or fuse- switch disconnectors (conventional or inline), depending on requirements.

These cubicles are used for applications in which replacement under operating conditions is not necessary or where short downtimes are acceptable.

#### Draw Out (Withdrawable) Design:

FALCON draw out design are used where a production stop for longer time is unacceptable & where preventive maintenance is demanded & feeder replacement & maintenance without system shutdown.

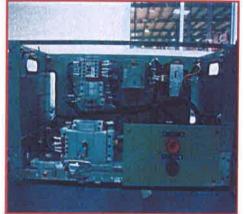
The draw out can be brought into test position, where the main circuit is disconnected while the control circuit is still connected. This gives the possibilities of testing the control circuit in each compartment separately.

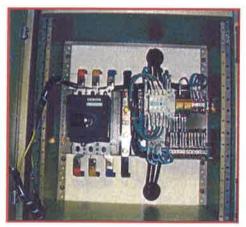
#### Modular Design

The modular cable feeders enable efficient installation, above all whenever operation-specific changes or adaptations are necessary.

- Moulded- case circuit breakers or fuseswitch disconnectors and be fitted as required;
- Free combination of cable feeders within one cubicle;
- Continuously adjustable mounting plates for standard front plane;
- Cable feeders with and without measuring instruments.

#### Cable feeders in compartment design





The compartment design with its individual sub-section for every circuit breaker offers increased active safety for installation and personnel protection.

- Individual sub-sections with doors for each circuit breaker;
- Moulded Case Circuit Breaker with or without plug-in kit;
- High form of internal separation up to form 4 Type 7;
- Optimum connection conditions in the rear cable connection compartment

Qatari German Switchgear Company W.L.L. لتصنيع اللوحات المكهربائية ذ.م.م.

## **Major Specifications of FALCON Type Test**

Item No.	Major Specifications	FALCON
1	Type test standard	IEC61439-1 & 2
2	Short circuit withstand current	65KA/3sec
3	Conditional short-circuit Icc	65KA
4	Fixed, Modular & Withdrawable SWGR	1600A,2500A Up to 3200A
5	Ingress protection	IP3X UP TO IP54
6	Form of separation	Form 3 UP TO Form 4 type 7
7	Ambient temperature	50 Deg. C
8	Height at 50 Deg. C 3200A IP54	2200mm

## **OUR SERVICES**



## **OUR SERVICES**

## **OUR SERVICES**

## Installation & Cabling

- HV/MV/LV Switchgear up to 33KV
- Distribution and power Transformers up to 20MVA
- Generators
- Package Substations
- Ring Main Units (RMU)

## **Testing & Commissioning**

- High, medium & low voltage switchgear
- Distribution & Power Transformers up to 20MVA
- Generators
- Package Substations
- Ring Main Units (RMU)
- Protection Relays, Control & Monitoring Equipment's

## **Operation & Maintenance**

- 24/7 on Call services with experienced maintenance team
- Operations support
- Routine maintenance
- Fault Detection and Correction
- For all type of Transformers , Switchgears & Generators

## **Retrofit & Modification**

- General arrangement design
- Enclosure cut-out & installation
- Re-wiring & harnessing
- Mechanical & Electrical Operation check
- Loop checks
- Routine test & site acceptance test











## **Testing & Commissioning**

- Inspection of panel & accessories installation
- Verification of installation of switchgear as per scheme drawing
- Visual inspection of switchgear assembly to component level
- Perform routine test on switchgear (Primary Injection on Busbars / CT, Secondary Injection for Checking Protection & Metering Circuits, Insulation Resistance & Die-electric Test, Electrical & Mechanical Operation of Switchgear)
- Supervise & assist during commissioning
- Provide support for relay setting & SCADA loop checking





## **Retrofit & Modification**

- General arrangement design
- Enclosure cut-out & installation
- Re-wiring & harnessing
- Mechanical & electrical operation check
- Loop checks
- Routine test & site acceptance test

## **Operation & Maintenance**

- Low & Medium Voltage Switchgear
- Plant Outage Testing & Maintenance
- Switchgear Inspection & Repair
- Vacuum Circuit Breaker
- Metal Clad Switchgear
- Switchgear Dielectric Testing



## **MAJOR PROJECTS**

## HAMAD INTERNATIONAL AIRPORT



Client: QD-SBG 5 yrs Operation & Maintenance Support for Utilities FM0003, Cargo & ATC Substations

Client: Keppel FMO Preventive Maintenance at MTZ & FTZ Substations

Client: ADB Airfield Solutions Preventive Maintenance LV Switchboard at North & South Runway AGL Substations

Client: AKTOR Facility Management Preventive Maintenance of LV Switchgear at Qatar Duty Free Substations

#### Client : CP10 SGW / LFE / Target Rotary

Annual Operation & Maintenance for NAVAID Package Substation Testing of LV Switchgear as per NETA Standard; Supply & Installation of Busbar Neutral to Earth Link for LV Panels; Retrofit & Modification of 6.6kV Switchgear; REF Relay Stability Test Testing of LV Panels at Air Craft Facility Substation Inspection & Testing of Standby Generator Set Electromechanical Modification of 6.6kV Areva Panels Inspection & Testing of Faulty 6.6kV Switchgear Testing of NAVAID Package Substation Testing of Areva 6.6kV Switchgear Testing & Commissioning of LV Main Panels

### Client : BEMCO CP13

UV Relays Modification; Changing Incomer Panel to Bus Coupler Panel; Supply & Installation of Lock-out Relays Testing & Commissioning of 415V & 11kV Substations Modification of Metering Compartment CT Mounting Bracket Modification Modification of 8BK80

Client : CP18 Siemens / Ekin Proje Rectifying & Testing of 415V VFD Panels









## **MAJOR PROJECTS**

## **EDUCATION CITY**

## QATAR FACULTY OF ISLAMIC STUDIES Client : TRAGS / Qatar Foundation

• Testing & Pre-Commissioning of 11kV Switchgear

## NORTH UTILITY TUNNEL Client : Al Jaber & Partners/ Qatar Foundation

• Testing & Pre-Commissioning of 11kV Switchgear

## CP7 Client : BEMCO

 Testing & Pre-Commissioning of 3.3kV & 11kV Switchgear

## **CP3/CP6**

## **Client : TRAGS / Qatar Foundation**

 Supply, Installation Supervision, Testing & Commissioning of 3.3kV & 11kV Switchgear

## CP2/CP4

## Client : TRAGS / Qatar Foundation

• Testing & Commissioning of 3.3kV Switchgear







## KAHRAMAA PROJECTS

- ARGUS RELAY REPLACEMENT
   Client : Siemens / Kahramaa
- GTC-224 Call-Off Agreement for the supply of 11kV Switchgear



## **MAJOR PROJECTS**

## DOHA NORTH SEWERAGE TREATMENT WORKS

## Client : Siemens / Keppel Seghers

- Testing & Pre-Commissioning of 11kV Switchgear
- Modification of 11kV 8BK80
- 11kV LT Chamber Installation

## ENERGY CENTRE & MULTI LEVEL CARPARK AT ONAIZA ROAD

## Client : TRAGS Engineering

• Testing & Pre-Commissioning of 11kV Switchgear

## WEST BAY DISTRICT COOLING SCHEME

## Client : QATAR COOL

 Maintenance of Breakers & Dry Type Transformers for 11kV & 3.3kV Switchgear

## **MUSEUM OF ISLAMIC OF ARTS**

## Client : Qatar Museum Authority

• Installation & Testing of Capacitor Bank

## CONSTRUCTION OF MULTI-STOREY CAR PARKING AT DAFNA FOR UPDA

Client : KEMCO

• Testing & Commissioning of 11kV Switchgear







## ADMINISTRATION & TRAINING FIELD

Client : TRAGS Electrical & Contracting

Testing & Commissioning of 8BK80 Switchgear

## DIWAN AL AMIRI CAR PARK

Client : Galfar Al Misnad Testing & Commissioning of 8BK80 Switchgear



## **OTHER PROJECTS**

## **QAFCO**

 Engineering, Procurement, Installation, Testing & Commissioning of Auto Changeover System for QAFCO 1 Switchboard 4.1.2

## AL JABOR CEMENT

- Annual Operation & Maintenance of 6.6kV Siemens 8BK80 Switchgear
- REF Testing
- Replace Motor Protection Siemens Relay



## OIL & GAS

## Clients : Qatargas / Rasgas / WGI / Stream

- Servicing of Transformers
- Busbar Cleaning & Tin Coating Work
- Modification of A6 & B6 6.6kV 8BK80 Panel
- Busbar for LV Panel
- Testing & Commissioning of LV SIVACON Switchgear
- Retrofit & Modification of LV SIVACON Switchgear
- Testing & Commissioning of Rasgas MV Panels
- Testing & Commissioning of Rasgas MCC Feeders



## AL JAZEERA

• Preventive Maintenance of MV Panel

## VENTURE GULF

- Preventive Maintenance for 11kV Motor Feeder System
- Retrofitting of VCB for 8BK80 Switchgear

## **BUZWAIR**

- Rectification & installation of Dis-Connector
- CO2 Factory LV Panel Modification





# KAHRAMAA PROJECT APPROVALS

# M = k°U°°° hhk\†-) hk\)y#u hk-jy° O@@#°u@ V¨

\*



لمؤسسة العامةالقطرية للكهرب ءوالماء

Qatar General Electricity & Water Corporation Electricity Network Planning Department Material Standards & Specification Section

То:	M/s. Elimsan Salt A.S. – Turkey.	Cihazlari ve	Elektro	omekanik San. ve Tic.	إلى	Fac: e	simil	+90 262 375 25 22	فاكس
	Attn: Mr. Burak Or M/s. Qatari Germa Attn: Mr. Erfan Sa	n Switchge	ar Co, I	Doha-Qatar				00974 4460 1676	
From:	Director, Electr	icity Netw	orks A	fairs	من	Face	simile	4483 4850	فاكس
Date:	<i>o5  </i> 05/ 2021	التاريخ	Ref:	KM- ELIMSAN/P	Q/2021-010	l.	إشارة	5	عدد الصفحات متضمنة الغلاف

## Subject: PRODUCT PRE-QUALIFICATION RENEWAL

We are pleased to inform you that your application for pre-qualification **renewal** of below mentioned product has been accepted and updated in KM approved vendors list for Electricity Distribution Network with reference to the below metioned details and conditions.

Product Description		Product Details
Name of Product(s)	IND SWG -AIS - VCB	
Type/Model		ce to below mentioned KM specification. Model: y Withdrawable) and C (Cassette)
Rating & Capacity	11 kV, (25 up to 31.5) kA/03se	ec.
KM Specification Reference	EP-MS-P4/S2-082, Issue 3, dat	ted 21-07-2013
Manufacturer Name/Product Origin	Elimsan Salt Cihazlari ve Elekt	tromekanik San. ve Tic. A.S Turkey
Manufacturer's Product ID/Code		.X2.TX3.X4.X5.X6.X7.X8.X9.X10.X11.X12.X13. 150 (for 25 KA up to 31.5kA/03sec),and EVBE3 (31.5) - 12 –
Product Rating/Type	Bus Bar : 800A@50°C and Fee	eder : 400A @50°C
Name of Local Agent/Supplier	M/s Qatari German Switchge Tel: +974 4460 1992, Fax: +974 e-mail: info@qgc-qatar.com	4 4460 1676 P.O. Box: 23661 Doha, Qatar.
Validity	03 Years	From 05 / 05/2021 To: 04 / 05/2024
Warranty from Commissioning date	Five (05) Years. Warranty Cer	rtificate ref: ELM/QAT-KM/PQCR2021/WC/R1 dated 2/5/2021.

#### Approvals Conditions

1. KM reserves the right to cancel this approval, at any time, without assigning the reasons or be liable for such action.

2. This approval does not vouch, in any way, for the performance of the product, and shall not be used as testimonial for promotion of the product.

3. This approval does not provide any guarantee to the manufacturer/supplier/Local agent, in any way, for automatic acceptance of the product against any KM tender(s) or other external projects. This will certainly provide an additional qualification to compete with other vendors.

- 4. In the event the manufacturer makes any changes in the product design, construction or use of different materials/components/accessories, they need to obtain KM approval.
- 5. Since this approval is given based on specific manufacturing facility (factory/country of Origin), any change in the source of product origin shall be considered as new product, and pre-qualification process becomes mandatory.
- 6. Should there be any change in your company or manufacturer's profile (e.g. name, address, telephone, fax, renewal/ termination of local agency agreement etc), the same shall be notified to KM immediately.
- KM reserves the right to inspect the material/witness FAT tests at factory when required. The supplier/ manufacturer/ project owner need to inform KM at-least one month in advance before delivery of materials from factory, against external project requirements.
- 8. KM reserves the right to witness type tests or special tests when required. Further, KM retains the option of inspecting 'proto type samples' of the proposed product either at 'KM workshop' or factory.
- 9. Only brand new material/equipment need to be delivered against any projects, old and used material are not acceptable.
- 10. If any of these conditions are violated, or any deviations are found in the equipment/materials at the time of inspection or installation or unsatisfactory performance, this approval shall become void and material shall be liable for rejection.
- 11. The approval certificate is valid for the period mentioned above. A new approval to be obtained upon the expiry.

Best Regards.

AQC

## Eng. Abdulla Ali Al Theyab DIRECTOR, ELECT. NETWORKS AFFAIRS

الخطار برجي إدجارا ويست مستونين و از مستهما و يو المنتهما من الالان من مواهله الرسل إذا لم يحق واخدا من الار سرية العلومات أو يو103-21 بسبب حطة ناجم عن إدسار 1589 له الناكس لأشخاص غير م144 و14 والالال عبر



Material Standards & Specification Section Ref: KM- ELIMSAN/PQ/2021-010

## Annexure no.1 (References)

References:

- 1- L-040/QGC/GM/2020 Dated 28th June 2020 for Renewal of PQ
- 2- L-055/QGC/21/ELM-PQCR- Dated 15th April 21 , submitting the master file with attached final Doc.
- 3- ELM/QAQC/QAT-KM/CVI UL/R01 dated 16/03/2021 Undertaking letter from Elimsan Turkey.
- 4- ELM/QAT-KM/PQCR2021/WC/R1 dated 2/5/2021 Warranty Certificate



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بدآ من الح کن وا. بالمرسل شاتها فنشباذ عن إتلاف جميع نسبخها ، وبع خطأ ناجم عن إرسان ssue EPM-P7/F14 1000 27-03-2019



Ref: KM- ELIMSAN/PQ/2021-010

## <u>Annexure no.2</u> (Compulsory Coding System)

## Code Structure : KM.MMM.I.V.X0.X1.X2.TX3.X4.X5.X6.X7.X8.X9.X10.X11.X12.X13

CODE	DESCRIPTION	VALUES	RESTRICTIONS
KM	KAHRAMAA	KM	KM.
МММ	Manufacturer Name: 3 letters for manufacture name abbreviation e.g. SIE for Siemens	ELM	ELM.
	Insulation type of SWG AIS	A	Selection as per project.
I I	Insulation type of SWG GIS	G	Selection as per project.
	12 KV	12	Selection as per project.
V	22 KV	22	Selection as per project.
	33 KV	33	Selection as per project.
	FMW	W	Selection as per design.
X0	Cassette	С	Selection as per design.
	Fixed	F	Selection as per design.
X1	STW/ Duration:25 KA/03 SEC	2	Selection as per network requirements.
ХТ	STW/ Duration :31.5 KA/03 SEC	3	Selection as per network requirements.
X2	Aux. Supply: 30 Vdc	3	Selection as per design.
72	Aux. Supply: 48 Vdc	4	Selection as per design.
	X3: type of panel with respect to KM specification	X3: 1 to 9	T is fixed in all abbreviations, e.g. The final values will be for instance:
TX3	Bus Bar Earthing panel (Standard Type)	E	<ul> <li>Type 1: T1</li> <li>Standard BB earthing panel: TE.</li> </ul>
	Bus Bar Earthing panel (Dummy Type)	D	- Dummy BB earthing panel will be TD.
	Sub type for the panel		whenever alteration will be applied to
×4	Nil	N	accommodate specific project
X4	Non-Standard (different CT ratios Feeders, etc.)	к	requirements.
	IDMT Relay Make		
	Nil	N	To be selected if IDMT not applicable.
	Siemens	S	Selection as per design.
VE	ABB	A	Selection as per design.
X5	Schneider	С	Selection as per design.
	SEL	L	Selection as per design.
	GE	G	Selection as per design.
	others (Specify)	0	Selection as per design.

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ق الخطلا. يرجى إرجاع الدسالة مع ملحقاتها فنصاحً عن إتلاف جميع نسخها. وبعد ذلك، يرجه 14- بالر - سرية المعلومات أو 1992-12-13 بسبب خطأ ناجم عن إرسان ssupple الناكس لأشخاص غير م14-14



Qatar General Electricity & Water Corpo Electricity Network Planning Department Material Standards & Specification Section Ref: KM- ELIMSAN/PQ/2021-010

	IDMT Relay Type		
	IDMT relays with BCPU	В	Selection as per project.
X6	IDMT relays without BCPU	Х	Selection as per project.
	Not applicable	Ν	Selection as per project.
	Differential Relay Model		
	Nil	N	To be selected if not applicable.
	SOLKOR R-PW	А	Selection as per project.
	MBCI-PW	В	Selection as per project.
	SOLKOR N-PW	С	Selection as per project.
	RED 615-PW	D	Selection as per project.
	SIPROTEC 7SD61 - PW	E	Selection as per project.
X7	SOLKOR N-FO	F	Selection as per project.
	RED 615-FO	G	Selection as per project.
	SIPROTEC 7SD61 - FO	н	Selection as per project.
	MICOM P543-FO	I	Selection as per project.
	RED 670-FO	J	Selection as per project.
	GE- MHOR PW	M	Selection as per project.
	others (Specify)	0	Selection as per project.
	Guard Relay Make		
	Nil	N	To be selected if not applicable.
	Siemens	S	Selection as per design.
	ABB	A	Selection as per design.
X8	GE	G	Selection as per design.
	Schneider	С	Selection as per design.
	SEL	L	Selection as per design.
	others (Specify)	о	Selection as per design.
	Modem Availability		
X9	Nil (not applicable)	N	Selection as per project.
79	With Modem	М	Selection as per project.
	Without Modem	X	Selection as per project.
	Relay Communication System		
	P+: relays with IEC 61850	P	Selection as per project.
X10	Relays with IEC 103	I H	Selection as per project.           Selection as per project.
	Hard Wired Signals		Selection as per project.
	Nil (not applicable)	N	

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، سرية. يجب آن لا يوردا أو يكفف مختصونهما و/أو نسخهما لأي كان من دون مواطقة المرسل. إذا لم تكن واب ق المثلاً، يوجي إرجام إلى مع منصقاتها انتشاذ عن إتلاق جيمين منصفها، وبدأ ذلك، يرجب 14. - سرية الملومات أو ب2003-2013 بسبب خطأ ناجم عن إرسال (ssue) الاناكس لأشاعي غير مـEPMP7/114



Electricity Network Planning Department Material Standards & Specification Section Ref: KM- ELIMSAN/PQ/2021-010

	Manitavin - Orangen		
	Monitoring Sensors		
	Not Applicable	0	
	Temp/Hotspot Monitoring	1	Selection as per project requirements.
	Temp & Humidity Monitoring	2	Selection as per project requirements.
X11	Partial Discharge Monitoring	3	Selection as per project requirements.
	Humidity Monitoring	4	Selection as per project requirements.
	Temp & Humidity & Partial Discharge Monitoring	5	Selection as per project requirements.
	IA Sensor	6	Selection as per project requirements.
	others (for the future)	7	Selection as per project requirements.
	Year of KM design approval with respect to the applicable KM Specification		
	2015	Α	Selection as per design.
	2016	В	Selection as per design.
	2017	С	Selection as per design.
X12	2018	D	Selection as per design.
	2019	Е	Selection as per design.
	2020	F	Selection as per design.
	2021	G	Selection as per design.
	2022	Н	Selection as per design.
	2023	I	Selection as per design.
	2024	J	Selection as per design.
	Country of Origin		
	QATAR	Q	Selection as per manufacturer.
	Turkey	Т	Selection as per manufacturer.
X13	Germany	G	Selection as per manufacturer.
	Kuwait	К	Selection as per manufacturer.
	Czech Republic	С	Selection as per manufacturer.
	Portugal	Р	Selection as per manufacturer.

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Reference:ENA/122/2022 Date: 25/04/2022 From: Electricity Network Directorate M/s. QGC – Qatar Attn: General Manager Fax: 44601676 Email: Info@qgc-gatar.com M/s. RELKO ENERJI – Turkey Attn: Development Director Fax: 00903124805547 Email: Info@relkoenerji.com Total Pages: 1

## Subject: Renewal of Acceptance letter for Prequalification of 30V & 48V DC Battery Charger. Mfr: RELKO ENERJI Turkey. Local Supplier: QGC Qatar.

Greetings from Qatar General Electricity & Water Corporation (KAHRAMAA), This has further reference to KM PQ Acceptance fax: ENA/19/2020 date 12/01/2020 and QGC letter ref. L-013/QGC/RELKO-PQ dated 23/03/2022 regarding above mentioned subject.

Please be informed that the submitted documents for renewal of Prequalification of 30V & 48 V DC Battery Charger (Tripping Unit) with following Product Codes manufactured by RELKO ENERJI -Turkey and its accessories NiCad Battery manufactured by SAFT-Czech Republic and **all these items with 05 (five) years warranty from commissioning date** is **re-approved** and can be used in "Kahramaa non air-conditioned secondary substations" for different projects within State of Qatar for **ONE (1) calendar Year i.e. from 21/04/2022 to 20/04/2023 only.** 

### Product Codes:

For 30V DC -01.11.30.10.30.13.4.11.1 model – ASC1030-10A Battery model – UP1L30

For 48V DC – 01.11.48.35.62.13.4.11.1 model – ASC1048-35A Battery model – UP1L62

### Note:

Manufacturer will be informed and requested to comply to KM specification whenever it is issued to fulfill with prequalification process.

This is for your information and further necessary action.



# GTC-768 LETTER OF AWARD



## LETTER OF AWARD

Date: 21/11/2016

Ref: TA/TMP6/GTC-768/2015/A

M/S. Qatari German Switchgear Company P.O. Box: 23661, DOHA– QATAR Tel: 44601992 Fax: 44601676

Attn: Mr. Erfan Saberi, General Manager.

Dear Sirs,

## Sub: GTC-768/2015 Three Years Call-Off Agreement for Supply of Indoor Switchgears for 11 KV Distribution Networks

## LETTER OF AWARD

We are pleased to advise you that KAHRAMAA has decided to accept your offer and award a part of the above tender to you for the value of

	BOQ I-A ( 25KA PILOT-30V DC - FN				
Item	Description	Unit	Qty	Unit Price	Total Price
1	Transformer Circuit Breaker Panel	No	318		
2	Transformer Circuit Breaker Panel with Metering	No	3		
3	Feeder Circuit Breaker Panels with Pilot wire protection(send) and IDMT protection	No	186		
4	Feeder Circuit Breaker Panels with Pilot wire protection(receive) and IDMT protection	No	186		
5	Feeder Circuit Breaker Panel with Pilot wire protection and Directional IDMT protection.	No	120		
6	Feeder Circuit Breaker Panel Pilot wire protection with Directional IDMT protection.	No	22	Ţ	
7	Feeder Circuit Breaker Panel with Pilot wire protection and IDMT Protection and Tariff Metering	No	4		
8	Bus-Bar Section Circuit Breaker Panel with IDMT Protection	No	22		
9	Bus-Bar Section Circuit Breaker Panel with IDMT Protection and Metering	No	1		
			Tot	al BOQ I-A	



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	(25 KA)-PILOT-30V DC -	FMW C	OMPA	СТ	
tem	Description	Unit	Qty	Unit Price	<b>Total Price</b>
1	Release Solenoid 30V DC	No	50		
2	Tripping Solenoid 30V DC	No	50	Ī	
3	Motor for Spring Charging	No	50	Ť	
4	Local/Remote Selector Switch	No	35		
5	VCB Trip/ Neutral/Close Selector Switch	No	35	1	
6	6A HRC Fuse	No	25		
7	10A HRC Fuse	No	25		
8	11KV PT Fuse	No	13		
9	Pilot Indicating Light assembly (Red) 30V DC	No	25		
10	Pilot Indicating Light assembly (Green) 30V DC	No	25		
11	Red bulb 30V DC	No	38		
12	Green bulb 30V DC	No	38	T	
13	Spare Vacuum Circuit Breaker(Normal Rating)	No	8		
14	Spare Vacuum Circuit Breaker(Bus-section)	No	2		
15	CT for Transformer Feeder Panel (Panel without metering & with metering) 100/5 5P10 15VA	No	30		
16	CT for Transformer Feeder Panel (Panel without metering & with metering) 100/5 CL 1.0 15VA	No	30		
17	CT for Transformer Feeder Panel (Panel without metering & with metering)100/50/5 CL 0.5S 15VA	No	3		
18	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR) -400/300/5 CL X	No	38		
19	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR)-400/5 SP10 15VA	No	38	1	
20	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR)-400/5 CL 1.0	No	38		
21	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR)-400/5 CL 0.5S 15VA	No	3		
22	CT for bus-section feeder (with OC, MTR)- 400/5 5P10 15VA	No	8		
23	CT for bus-section feeder (with OC, MTR)- 400/5 CL 1.0 15VA	No	8		
24	CT for bus-section feeder (with OC, MTR)- 400/5 CL 0.5S 15VA	No	3	_	
25	VT Truck (with complete 3 Nos. VT assembly set)	No	2	_	
26	Inter Panel Coupling Bolts	No	1250		
27	Panel Busbar Shutter Lifter	No	15		
28	Panel Circuit Shutter Lifter	No	15		



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uchciui	Electricity a Water corporation		
29	Panel Pressure Relief Cover (complete assembly set as per the design of the SWGR. Pressure relief system	No	75
30	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	No	5
31	Grouting Bolts	No	150
32	Grommet for End Panel	No	300
33	End Panel (B/bar Chamber) Cover for Left Side Panel	No	10
34	End Panel (B/bar Chamber) Cover for Right Side Panel	No	10
35	Tripping unit HRC Fuse	No	50
36	Tripping unit MCB	No	10
37	Tripping Unit Battery Bank Connection Link	No	100
38	Panel Earth Switch Mechanism Assembly	No	5
39	Push Button for Closing	No	13
40	Push Button for Tripping	No	13
41	Go - No - Go Gauge for VCB Contact Alignment	No	8
42	VCB Contact Jaws (as per the VCB ratings)	No	75
43	Spare of all Type MCB for Individual Control Circuit Inside Control Cubicle	Set	3
44	Spare for all Type Terminal Block for Control Cubicle for AC & DC Auxiliary Supply Connection for each Circuit	Set	8
45	Spare Marked Ferrule set for Control Wiring	Set	3
46	Spare Trifoliate Label for Circuit for each Ferrule Rolls	No	50
47	Phase Comparison Test Unit	No	5
48	Test Bushing Sets	Set	5
49	Bus Bar Coupling Kit with Shrouds	Set	30
50	End Cover Kits with Shrouds and Boots	Set	20
51	Set of Tools Boxes	Set	10
52	All types of Operating Handles	Set	10
53	Other Shrouds & Boots (as applicable)	Set	10
54	Portable Steel Ramp for CB Truck	No	10
55	Cable Glands (for control cables)	Se	80
56	Control Cable Termination Lug	No	160
57	Portable Earth Truck	Set	10
58	Complete HV Metering set with meters for Panel with Metering	Set	1
59	Ammeter for FDR Panel (for 03 Phases)	Set	5
60	Ammeter for TX Panel (for 03 Phases)	Set	4
61	Voltmeter for Directional panel	No	5
62	CVD Module (complete set)	Set	50



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			Tota	I BOQ I-
67	Thermostat	No	43	
6	Heater	No	43	
65	Contact Lubrication grease (as recommended by manufacturer)	No	15	
64	Contact Cleaner	No	15	
63	Ammeters and Voltmeters set for Bus-Section (as applicable)	Set	3	

	BOQ II-A ( 25KA PILOT – 48V DC - C OR F COM			S OR ST	
Item	Description	Unit	Qty	Unit Price	Total Price
1	Transformer Circuit Breaker Panel	No	972		
2	Transformer Circuit Breaker Panel with Metering	No	10	Ī	
4	Feeder Circuit Breaker Panels with Pilot wire protection and IDMT protection(with send end supervision)	No	567		
5	Feeder Circuit Breaker Panels with Pilot wire protection and IDMT protection(with send Receive end supervision)	No	567		
6	Feeder Circuit Breaker Panel with Pilot wire protection (send) and Directional IDMT protection.	No	250		
7	Feeder Circuit Breaker Panel with Pilot wire protection (send) and Directional IDMT protection.	No	184		
8	Feeder Circuit Breaker Panel with Pilot wire protection and IDMT Protection and Tariff Metering	No	12		
9	Bus-Bar Section Circuit Breaker Panel with IDMT Protection	No	66		
10	Bus-Bar Section Circuit Breaker Panel with IDMT Protection and Metering	No	1		
				Total II-A	

	BOQ II-B ( 25KA/03SEC) PILOT-48V DC -C OR F COMPACT UP TO S OR ST						
Item	Description	Unit	Qty	Unit Price	<b>Total Price</b>		
1	Release Solenoid 48V DC	No	100				
2	Tripping Solenoid 48V DC	No	100				
3	Motor for Spring Charging	No	38				
4	Local/Remote Selector Switch	No	75				
5	VCB Trip/ Neutral/Close Selector Switch	No	75				



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لحب



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6	6A HRC Fuse	No	75
7	10A HRC Fuse	No	75
8	11KV PT Fuse	No	8
9	Pilot Indicating Light assembly (Red) 48V DC	No	100
10	Pilot Indicating Light assembly (Green) 48V DC	No	100
11	Red bulb 48V DC	No	150
12	Green bulb 48V DC	No	150
13	Spare Vacuum Circuit Breaker (Normal Rating)	No	15
14	Spare Vacuum Circuit Breaker ( Bus-section Rating)	No	2
15	CT for Transformer Feeder Panel (Panel without metering & with metering)-100/5 5P10 15VA	No	88
16	CT for Transformer Feeder Panel (Panel without metering & with metering)-100/5 CL 1.0 15VA	No	88
17	CT for Transformer Feeder Panel (Panel without metering & with metering)-100/5 CL 0.5S 15VA	No	4
18	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR) -400/300/5 CL X	No	100
19	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR)-400/5 SP10 15VA	No	100
20	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR)-400/5 CL 1.0	No	100
21	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR)-400/5 CL 0.5S 15VA	No	5
22	CT for bus-section feeder (with OC, MTR) - 400/5 5P10 15VA	No	20
23	CT for bus-section feeder (with OC, MTR)- 400/5 CL 1.0 15VA	No	20
24	CT for bus-section feeder (with OC, MTR) - 400/5 CL 0.5S 15VA	No	2
25	VT Truck (with complete 3 Nos. VT assembly set)	No	5
26	Inter Panel Coupling Bolts	No	2500
27	Panel Busbar Shutter Lifter	No	15
28	Panel Circuit Shutter Lifter	No	15
29	Panel Pressure Relief Cover (complete assembly set as per the design of the swgr. Pressure relief system)	No	250
30	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	No	15
31	Grouting Bolts	No	250
32	Grommet for End Panel	No	500



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33	End Panel (B/bar Chamber) Cover for Left Side Panel	No	20
34	End Panel (B/bar Chamber) Cover for Right Side Panel	No	20
35	Tripping unit HRC Fuse	No	38
36	Tripping unit MCB	No	15
37	Tripping Unit Battery Bank Connection Link	No	150
38	Panel Earth Switch Mechanism Assembly	No	10
39	Push Button for Closing	No	50
40	Push Button for Tripping	No	50
41	Go - No - Go Gauge for VCB Contact Alignment	No	8
42	VCB Contact Jaws (as per the VCB ratings)	No	75
43	Spare of all Type MCB for Individual Control Circuit Inside Control Cubicle	Set	5
44	Spare for all Type Terminal Block for Control Cubicle for AC & DC Auxiliary Supply Connection for each Circuit	Set	5
45	Spare Marked Ferrule set for Control Wiring	Set	5
46	Spare Trifoliate Label for Circuit for each Ferrule Rolls	No	25
47	Phase Comparison Test Unit	No	5
48	Test Bushing Sets	Set	20
49	Bus Bar Coupling Kit with Shrouds	Set	45
50	End Cover Kits with Shrouds and Boots	Set	23
51	Set of Tools Boxes	Set	20
52	All types of Operating Handles	Set	20
53	Other Shrouds & Boots (as applicable)	Set	20
54	Portable Steel Ramp for CB Truck	Pc	20
55	Cable Glands (for control cables)	Set	180
56	Control Cable Termination Lug	No	360
57	Portable Earth Truck	Set	10
58	Complete HV Metering set with meters for Panel with Metering	Set	2
59	Ammeter for FDR Panel (for 03 Phases)	Set	45
60	Ammeter for TX Panel (for 03 Phases)	Set	35
61	Voltmeter for Directional panel	No	20
62	CVD Module (complete set)	Set	100
63	Ammeters and Voltmeters set for Bus-Section (as applicable)	Set	3
64	Contact Cleaner	No	20
65	Contact Lubrication grease (as recommended by manufacturer)	No	20
66	Heater	No	100
67	Thermostat	No	100

BOQ II-B

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140.000	FIBER OPTIC -48V DC - C OR F C			T T	Tatal Datas
ltem	Description	Unit	Qty	Unit Price	Total Price
1	Transformer Circuit Breaker Panel	No	135		
2	Transformer Circuit Breaker Panel with Metering	No	2		
3	Feeder Circuit Breaker Panels with IDMT protection and Numeric cable Differential Protection to use with Fiber Optics	No	158		
4	Feeder Circuit Breaker Panel with Directional IDMT protection and Numeric cable Differential Protection to use with Fiber Optics.	No	61		
5	Feeder Circuit Breaker Panel with IDMT protection and Numeric cable Differential Protection with Metering	No	3		
6	Bus-Bar Section Circuit Breaker Panel with IDMT Protection	No	9		
7	Bus-Bar Section Circuit Breaker Panel with IDMT Protection and Metering	No	1		

	BOQ III-B ( 25KA				
	FIBER-48V DC - C OR F COM	1			
ltem	Description	Unit	Qty	Unit Price	Total Price
1	Release Solenoid 48V DC	No	25		
2	Tripping Solenoid 48V DC	No	25		
3	Motor for Spring Charging	No	18		
4	Local/Remote Selector Switch	No	38		
5	VCB Trip/ Neutral/Close Selector Switch	No	38		
6	6A HRC Fuse	No	25		
7	10A HRC Fuse	No	25		
8	11KV PT Fuse	No	5		
9	Pilot Indicating Light assembly (Red) 48V DC	No	25		
10	Pilot Indicating Light assembly (Green) 48V DC	No	25		
11	Red bulb 48V DC	No	38		
12	Green bulb 48V DC	No	38		
13	Spare Vacuum Circuit Breaker(Normal Rating)	No	5		
14	Spare Vacuum Circuit Breaker(Bus-section Rating)	No	1		
15	CT for Transformer Feeder Panel (Panel without metering & with metering) 100/5 5P10 15VA	No	15		
16	CT for Transformer Feeder Panel (Panel without metering & with metering) 100/5 CL 1.0 15VA	No	15		



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17	CT for Transformer Feeder Panel (Panel without metering & with metering) 100/5 CL 0.5S 15VA	No	3	T
18	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR) 400/300/5 CL X	No	18	
19	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR) 400/5 SP10 15VA	No	18	
20	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR) 400/5 CL 1.0	No	18	
21	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR) 400/5 CL 0.5S 15VA	No	3	
22	CT for bus-section feeder (with OC, MTR) 400/5 5P10 15VA	No	3	
23	CT for bus-section feeder (with OC, MTR) 400/5 CL 1.0 15VA	No	3	
24	CT for bus-section feeder (with OC, MTR) 400/5 CL 0.5S 15VA	No	2	
25	VT Truck (with complete 3 Nos. VT assembly set)	No	1	
26	Inter Panel Coupling Bolts	No	250	
27	Panel Bus bar Shutter Lifter	No	8	
28	Panel Circuit Shutter Lifter	No	8	
29	Panel Pressure Relief Cover (complete assembly set as per the design of the swgr. Pressure relief system)	No	88	
30	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	No	5	
31	Grouting Bolts	No	125	
32	Grommet for End Panel	No	250	
33	End Panel (B/bar Chamber) Cover for Left Side Panel	No	10	
34	End Panel (B/bar Chamber) Cover for Right Side Panel	No	10	
35	Tripping unit HRC Fuse	No	15	
36	Tripping unit MCB	No	8	
37	Tripping Unit Battery Bank Connection Link	No	50	
38	Panel Earth Switch Mechanism Assembly	No	5	
39	Push Button for Closing	No	25	
40	Push Button for Tripping	No	25	
41	Go - No - Go Gauge for VCB Contact Alignment	No	5	
42	VCB Contact Jaws (as per the VCB ratings)	No	25	
43	Spare of all Type MCB for Individual Control Circuit Inside Control Cubicle	Set	5	
44	Spare for all Type Terminal Block for Control Cubicle for AC & DC Auxiliary Supply Connection for each Circuit	Set	5	



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.5 SI	pare Marked Ferrule set for Control Wiring	Set	5
an i '	pare Trifoliate Label for Circuit for each errule Rolls	No	25
47 Pł	nase Comparison Test Unit	No	3
48 Te	est Bushing Sets	Set	3
49 Bi	us Bar Coupling Kit with Shrouds	Set	15
50 Er	nd Cover Kits with Shrouds and Boots	Set	15
51 Se	et of Tools Boxes	Set	3
52 AI	l types of Operating Handles	Set	5
53 Of	ther Shrouds & Boots (as applicable)	Set	5
54 Po	ortable Steel Ramp for CB Truck	Pc	5
55 Ca	able Glands (for control cables)	Set	15
56 Co	ontrol Cable Termination Lug	No	30
57 Po	ortable Earth Truck	Set	3
20 1	omplete HV Metering set with meters for anel with Metering	Set	1
59 Ar	nmeter for FDR Panel (for 03 Phases)	Set	5
60 Ar	nmeter for TX Panel (for 03 Phases)	Set	3
61 Vo	oltmeter for Directional panel	No	3
62 CV	/D Module (complete set)	Set	25
63	nmeters and Voltmeters set for Bus- ection (as applicable)	Set	1
	ontact Cleaner	No	5
<u></u>	ontact Lubrication grease (as commended by manufacturer)	No	5
66 He	eater	No	25
67 Tr	nermostat	No	25
			To

	BOQ IV-A (31.5K	A/03 S	EC)		
F	PILOT-31.5 48 V DC -FMW COMPACT OR	C OR F	COMF	ACT UP TO	S OR ST
Item	Description	Unit	Qty	Unit Price	<b>Total Price</b>
1	Transformer Circuit Breaker Panel	No	315		
2	Transformer Circuit Breaker Panel with Metering	No	3		
3	Feeder Circuit Breaker Panels with Pilot wire protection and IDMT protection(with send end supervision)	No	184		
4	Feeder Circuit Breaker Panels with Pilot wire protection and IDMT protection(with send Receive end supervision)	No	184		
5	Feeder Circuit Breaker Panel with Pilot wire Protection (send) and Directional IDMT protection.	No	141		
6	Feeder Circuit Breaker Panel with Pilot wire protection (receive) and IDMT Metering	No	4		

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7	Bus-Bar Section Circuit Breaker Panel with IDMT Protection	No	22		
8	Bus-Bar Section Circuit Breaker Panel with IDMT Protection and Metering	No	1		
				Total IV-A	

-	BOQ IV-B ( 31.5K				
	PILOT-48V DC -FMW COMPACT or C C				
ltem	Description	Unit	Qty	Unit Price	Total Price
1	Release Solenoid 48V DC	No	50		
2	Tripping Solenoid 48V DC	No	50		
3	Motor for Spring Charging	No	38		
4	Local/Remote Selector Switch	No	38		
5	VCB Trip/ Neutral/Close Selector Switch	No	38		
6	6A HRC Fuse	No	25		
7	10A HRC Fuse	No	25	I	
8	11KV PT Fuse	No	13		
9	Pilot Indicating Light assembly (Red) 48V DC	No	25	T .	
10	Pilot Indicating Light assembly (Green) 48V DC	No	25		
11	Red bulb 48V DC	No	38		
12	Green bulb 48V DC	No	38	Ť	
13	Spare Vacuum Circuit Breaker Normal Rating	No	13	T	
14	Spare Vacuum Circuit Breaker Bus-section Rating	No	2		
15	CT for Transformer Feeder Panel (Panel without metering & with metering)100/5 5P10 15VA	No	30		
16	CT for Transformer Feeder Panel (Panel without metering & with metering)100/5 CL 1.0 15VA	No	30		
17	CT for Transformer Feeder Panel (Panel without metering & with metering) 100/5 CL 0.5S 15VA	No	3		
18	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR)-400/300/5 CL X	No	38		
19	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR)-400/5 SP10 15VA	No	38		
20	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR)-400/5 CL 1.0	No	38		
21	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR)-400/5 CL 0.5S 15VA	No	5		
22	CT for bus-section feeder (with OC, MTR) 400/5 5P10 15VA	No	8		
23	CT for bus-section feeder (with OC, MTR) 400/5 CL 1.0 15VA	No	8		



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20/02/2014



## المؤسسة العامة القطرية للكهرب ووالماء

Qatar General Electricity & Water Corporation

24	CT for bus-section feeder (with OC, MTR) 400/5 CL 0.5S 15VA	No	3	
25	VT Truck (with complete 3 Nos. VT assembly set)	No	2	
26	Inter Panel Coupling Bolts	No	500	
27	Panel Busbar Shutter Lifter	No	15	
28	Panel Circuit Shutter Lifter	No	15	
29	Panel Pressure Relief Cover ( complete assembly set as per the design of the SWGR. Pressure relief system)	No	100	
30	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	No	5	
31	Grouting Bolts	No	250	
32	Grommet for End Panel	No	500	
33	End Panel (B/bar Chamber) Cover for Left Side Panel	No	10	
34	End Panel (B/bar Chamber) Cover for Right Side Panel	No	10	
35	Tripping unit HRC Fuse	No	50	
36	Tripping unit MCB	No	10	
37	Tripping Unit Battery Bank Connection Link	No	100	
38	Panel Earth Switch Mechanism Assembly	No	5	
39	Push Button for Closing	No	13	
0	Push Button for Tripping	No	13	
1	Go - No - Go Gauge for VCB Contact Alignment	No	8	
2	VCB Contact Jaws (as per the VCB ratings)	No	75	
3	Spare of all Type MCB for Individual Control Circuit Inside Control Cubicle	Set	3	
4	Spare for all Type Terminal Block for Control Cubicle for AC & DC Auxiliary Supply Connection for each Circuit	Set	8	
5	Spare Marked Ferrule set for Control Wiring	Set	3	
6	Spare Trifoliate Label for Circuit for each Ferrule Rolls	No	50	
7	Phase Comparison Test Unit	No	5	
8	Test Bushing Sets	Set	8	
9	Bus Bar Coupling Kit with Shrouds	Set	15	
0	End Cover Kits with Shrouds and Boots	Set	10	
1	Set of Tools Boxes	Set	10	
2	All types of Operating Handles	Set	15	
3	Other Shrouds & Boots (as applicable)	Set	10	
4	Portable Steel Ramp for CB Truck	Рс	10	
5	Cable Glands (for control cables)	Set	25	
6	Control Cable Termination Lug	No	50	
7	Portable Earth Truck	Set	8	



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58	Complete HV Metering set with meters for Panel with Metering	Set	1	
59	Ammeter for FDR Panel (for 03 Phases)	Set	15	
60	Ammeter for TX Panel (for 03 Phases)	Set	10	
61	Voltmeter for Directional panel	Nos	5	
62	CVD Module (complete set)	Set	50	
63	Ammeters and Voltmeters set for Bus-Section (as applicable)	Set	3	_
64	Contact Cleaner	No	15	
65	Contact Lubrication grease (as recommended by manufacturer)	No	15	9
66	Heater	No	50	
67	Thermostat	No	50	
			Total	BOQ IV-B

	BOQ V-A (31.5K FIBER-31.5 48 V DC –C OR F CC			O S OR ST	
Item	Description	Unit	Qty	Unit Price	<b>Total Price</b>
1	Transformer Circuit Breaker Panel	No	60		
2	Transformer Circuit Breaker Panel with Metering	No	1		
3	Feeder Circuit Breaker Panels with IDMT protection and Numeric cable Differential Protection to use with Fiber Optics	No	70		
4	Feeder Circuit Breaker Panel with Directional IDMT protection and Numeric cable Differential Protection to use with Fiber Optics.	No	27		
5	Feeder Circuit Breaker Panel with IDMT protection and Numeric cable Differential Protection to use with Fiber Optics with Metering	No	1		
6	Bus-Bar Section Circuit Breaker Panel with IDMT Protection	No	4		
7	Bus-Bar Section Circuit Breaker Panel with IDMT Protection and Metering	No	1		
			Tota	al BOQ V-A	

BOQ V -B ( 31.5KA/03 SEC)							
FIBER -48V DC -C OR F COMPACT UP TO S OR ST							
Item	Description	Unit	Qty	Unit Price	<b>Total Price</b>		
1	Release Solenoid 48V DC	No	10				
2	Tripping Solenoid 48V DC	No	10				
3	Motor for Spring Charging	No	10				
4	Local/Remote Selector Switch	No	8				
5	VCB Trip/ Neutral/Close Selector Switch	No	8				



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6	6A HRC Fuse	No	5
7	10A HRC Fuse	No	5
8	11KV PT Fuse	No	3
9	Pilot Indicating Light assembly (Red) 48V DC	No	5
10	Pilot Indicating Light assembly (Green) 48V DC	No	5
11	Red bulb 48V DC	No	10
12	Green bulb 48V DC	No	10
13	Spare Vacuum Circuit Breaker (Normal rating)	No	4
14	Spare Vacuum Circuit Breaker Bus-section Rating	No	1
15	CT for Transformer Feeder Panel (Panel without metering & with metering) 100/5 5P10 15VA	No	8
16	CT for Transformer Feeder Panel (Panel without metering & with metering) 100/5 CL 1.0 15VA	No	8
17	CT for Transformer Feeder Panel (Panel without metering & with metering) 100/5 CL 0.5S 15VA	No	2
18	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR) 400/300/5 CL X	No	10
19	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR) 400/5 SP10 15VA	No	10
20	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR) 400/5 CL 1.0	No	10
21	CT for feeder panel(with PW+OC, PW+DOC, OC+MTR) 400/5 CL 0.5S 15VA	No	2
22	400/5 5P10 15VA	No	2
23	400/5 CL 1.0 15VA	No	2
25	VT TRUCK (WITH COMPLETE 3 NOS. VT ASSEMBLY SET)	No	1
26	INTER PANEL COUPLING BOLTS	No	150
27	PANEL BUS BAR SHUTTER LIFTER	No	3
28	PANEL CIRCUIT SHUTTER LIFTER	No	3
29	Panel Pressure Relief Cover ( complete assembly set as per the design of the SWGR. Pressure relief system)	No	20
30	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	No	1
31	Grouting Bolts	No	100
32	Grommet for End Panel	No	150
33	End Panel (B/bar Chamber) Cover for Left Side Panel	No	3
34	End Panel (B/bar Chamber) Cover for Right Side Panel	No	3
35	Tripping unit HRC Fuse	No	13
36	Tripping unit MCB	No	5
37	Tripping Unit Battery Bank Connection Link	No	38



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38	Panel Earth Switch Mechanism Assembly	No	3
39	Push Button for Closing	No	5
40	Push Button for Tripping	No	5
41	Go - No - Go Gauge for VCB Contact Alignment	No	3
42	VCB Contact Jaws (as per the VCB ratings)	No	20
	Spare of all Type MCB for Individual Control		-
43	Circuit Inside Control Cubicle	Set	2
	Spare for all Type Terminal Block for Control	1	-
44	Cubicle for AC & DC Auxiliary Supply	Set	3
	Connection for each Circuit		
45	Spare Marked Ferrule set for Control Wiring	Set	2
46	Spare Trifoliate Label for Circuit for each Ferrule Rolls	No	15
47	Phase Comparison Test Unit	No	2
48	Test Bushing Sets	Sets.	3
49	Bus Bar Coupling Kit with Shrouds	Sets.	10
50	End Cover Kits with Shrouds and Boots	Sets.	3
51	Set of Tools Boxes	Sets.	3
52	All types of Operating Handles	Sets.	5
53	Other Shrouds & Boots (as applicable)	Sets.	5
54	Portable Steel Ramp for CB Truck	Pc.	5
55	Cable Glands (for control cables)	Set.	38
56	Control Cable Termination Lug	No.	75
57	Portable Earth Truck	Set	3
58	Complete HV Metering set with meters for Panel with Metering	Set	1
59	Ammeter for FDR Panel (for 03 Phases)	Set	8
60 60	Ammeter for TX Panel (for 03 Phases)	Set	5
50 51	Voltmeter for Directional panel	Nos	3
52	CVD Module (complete set)	Set	10
	Ammeters and Voltmeters set for Bus-Section		-
63	(as applicable)	Set	1
64	Contact Cleaner	No.	10
35	Contact Lubrication grease (as recommended by manufacturer)	No.	10
66	Heater	No.	10
67	Thermostat	No.	10
			Tota

BOQ VI						
Item	Description	Unit	Qty	Unit Price	<b>Total Price</b>	
1	Tripping Units 48 V DC	No	120	(		
2	Tripping Units 30 V DC	No	40	ŀ		
3	Tripping unit HRC Fuse For 48 V DC	No	8			
4	Tripping unit HRC Fuse For 30v DC	No	2			
5	Tripping unit MCB For 48 V DC	No	8			



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5	Tripping unit MCB For 30v DC	No	2
7	Tripping Unit Battery Bank Connection Link For 48 V DC	Set	8
3	Tripping Unit Battery Bank Connection Link For 30v DC	Set	2
9	Battery Bank Flexible Wire for Positive & Negative Connection with Ring Type Lugs For 48 V DC Tripping Unit	No	8
)	Battery Bank Flexible Wire for Positive & Negative Connection with Ring Type Lugs For 30v DC Tripping Unit	No	2
1	11kV Live Phasing Stick	No	2
2	Suitable Torque Wrench Set	No	10
			То

BOQ VII						
Item	Description	Unit	Qty	Price		
1	Provide Training for Installation, Operation & Maintenance by Manufacturer for 6 days minimum for 40 Engineers & Technicians of Kahramaa in Qatar. Including supply of required Training Materials & Manuals.	Lump sum	1	Included		

Summary of Prices fo	r All BOQs
BOQ I-A	
BOQ I-B	•
BOQ II-A	•
BOQ II-B	
BOQ III-A	
BOQ III-B	
BOQ IV-A	•
BOQ IV-B	
BOQ V-A	
BOQ V-B	
BOQ VI	
BOQ VII	
Grand Total (QAR)	

#### Manufacturer: Elimsan, Turkey

#### 1.0 References

- 1.1 Tender document titled Three Years Call-Off Agreement for Supply of Indoor Switchears for 11 KV Distribution Networks, Tender No. GTC-768/2015
  - 1.2 Your Technical Offer.
  - 1.3 Your Commercial Offer dated 29/10/2015.



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1.4 Pre closing date correspondences "All Circulars",
1.5 All Clarifications during evaluation, including: Our fax # TMP6/GTC/768/2014 dated 28/12/2015. Your clarifications letter # L-009/QGC/16/SD dated 17/02/2016 Our fax # TMP6/GTC/768/2015 dated 09/03/2016 Your clarification letter received on 30/03/2016 Our fax # TMP6/GTC/768/2015 dated 11/05/2016 Your clarification letter # L-037/QGC/16/OPR dated 18/05/2016 Our fax # TMP6/GTC/768/2015 dated 11/10/2016 Your reply letter # L-101/QGC/16/OPR dated 12/10/2016

#### 2.0 CONTRACT EFFECTIVE DATE

The Contract effective date shall be fourteen (14) calendar days from the date of your letter of confirmation to this letter of award.

#### 3.0 CONTRACT DURATION

The Contract Duration will be three years from the CONTRACT EFFECTIVE DATE.

#### 4.0 MOBILIZATION PERIOD

Within 6.5 months from the date of your letter of confirmation to this Letter of Award. Delivery shall be against Call-off Order Release issued under this Contract.

#### 5.0 WARRANTY PERIOD

Supplied material shall be guaranteed against any defect for 3 (three) years from the date of delivery or 2 (two) years from the date of installation whichever comes first. First two years to be supported with Performance bond and the total three years to be supported with Warranty Certificate.

#### 6.0 CONTRACT REQUIREMENTS

The following particulars are required prior to signing and shall form part of the contract document:

- a) The Performance Bond (10% of the total Contract value) with validity to cover the Contract period plus 24 months to cover two years warranty plus Ninety (90days).
- b) The required Insurances in accordance with the General Conditions of Contract and its Appendix (C).
- c) The programme of works "Execution Plan".
- d) Attested Certificate showing the specimen signatures of the authorized to sign the Form of Tender and the Contract (Form of Agreement).



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بادوالماء **Qatar General Electricity & Water Corporation** 

The above mentioned particulars should be submitted within fourteen (14) Calendar days from the date of this Letter of Award.

#### 7.0 LETTER OF CONFIRMATION

We look forward to your written confirmation of unconditional acceptance to our Letter of Award, within two (02) working days from the date of this letter.

Note: Contract Document shall be signed by both parties shortly.

Regards,

Eng. Essa Bin Hilal Al Kuwari President Qatar General Electricity & Water Corporation

Cc: - DE (44834850, 5741), GTC(5506)



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# GTC-571 LETTER OF AWARD



### LETTER OF AWARD

Date: 09/01/2015

Ref: TA/TMP6/GTC-571/2013/A

M/s. Qatari German Switchgear Company P.O. Box: 23661, DOHA– QATAR Tel: 44601992 <u>Fax: 44601676</u>

Attn: Dr. Eihab Abdalla, Managing Director.

Dear Sirs,

#### Sub: GTC-571/2013 TWO YEARS CALL-OFF AGREEMENT FOR SUPPLY OF INDOOR SWITCHGEARS

#### LETTER OF AWARD

We are pleased to advise you that KAHRAMAA has decided to accept your offer and award a part of the above tender to you for the value of

in accordance with the following:

Item	OQ 1-A; (25KA/03SEC) CLASS C OR F Description	Unit	Qty		Extended Price QAR
1	Transformer Circuit Breaker Panel	Nos.	301		QAN
2	Transformer Circuit Breaker Panel with Metering	Nos.	3	1	
3	Feeder Circuit Breaker Panels with Pilot wire protection/IDMT protection	Nos.	425	1	
4	Feeder Circuit Breaker Panel with Directional IDMT protection.	Nos.	38		
5	Feeder Circuit Breaker Panel with Metering	Nos.	3		
6	Bus-Bar Section Circuit Breaker Panel	Nos.	25		
7	Bus-Bar Section Circuit Breaker Panel with Metering	Nos.	2	1	
8	Test Bushing Sets	Set	193		
9	Bus Bar Coupling Kit with Shrouds	Set	638		



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Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
10	End Cover Kits with Shrouds and Boots	Set	320		
11	Set of Tools Boxes	Set	200	1	
12	Operating Handles	Set	200	1	
13	Other Shrouds & Boots	Set	797	1	
14	End Plates	Set	320	1	
15	Foundation Bolts	Set	797	1	
16	Panel Interconnection Bolts	Set	797		
17	Portable Live Phase Comparator Instruments	Set (3Plugs)	5	1	
18	Portable Steel Ramp for CB Truck	Pc.	200	1	
19	Cable Glands	Set	800		
20	Cable Lugs & Its Connections Bolts	Set	750	1	
21	Portable Earth Truck	Set	16	1	
			Tota	ul l	

### BOQ 1-B; (25KA/03SEC) CLASS C OR F AND STANDARD OR ST SIZE - SPARE PARTS -

Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
1	Release Solenoid 30V DC	Nos	33	- X.m.	QAN
2	Tripping Solenoid 30V DC	Nos	33		
3	Motor for Spring Charging	Nos	33		
4	Local/Remote Selector Switch	Nos	33	+	
5	VCB Trip/ Neutral/Close Selector Switch	Nos	33	+	
6	6A HRC Fuse	Nos	33	-	
7	10A HRC Fuse	Nos	33	+	
8	11KV PT Fuse	Nos	7	+	
9	Pilot Indicating Light assembly (Red) 30V DC	Nos	33	+	
10	Pilot Indicating Light assembly (Green) 30V DC	Nos	33	+	
11	Red bulb 30V DC	Nos	33		
12	Green bulb 30V DC	Nos	33		
13	Spare Vacuum Circuit Breaker	Nos	33		
14	CT for Transformer Feeder Panel (100/5+5A CL 5P10 + 1.0 15VA CT)	Nos	13		





F

Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
15	CT for Feeder Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	12	Quint	Quint
16	CT for Bus Section Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	3	1	
17	VT Truck	Nos	7	1	
18	Inter Panel Coupling Bolts	Nos	33	1	
19	Panel Busbar Shutter Lifter	Nos	33	1	
20	Panel Circuit Shutter Lifter	Nos	33	1	
21	Panel Pressure Relief Cover	Nos	33		
22	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	Nos	5		
23	Grouting Bolts	Nos	33		
24	Grommet for End Panel	Set	200	1	
25	End Panel (B/bar Chamber) Cover for Left Side Panel	Panel	200		
26	End Panel (B/bar Chamber) Cover for Right Side Panel	Panel	200		
27	Tripping unit HRC Fuse	Panel	24	-	
28	Tripping unit MCB	Nos	24		
29	Tripping Unit Battery Bank Connection Link	Nos	24		
30	Panel Earth Switch Mechanism Assembly	Sets	33		
31	Push Button for Closing	Sets	33	2	
32	Push Button for Tripping	Nos	33		
33	Go - No - Go Gauge for VCB Contact Alignment	Nos	33		
34	VCB Contact Jaws (as per the VCB ratings)	Nos	33		
35	Spare of all Type MCB for Individual Control Circuit Inside Control Cubicle	Nos	33	3	
36	Spare for all Type Terminal Block for Control Cubicle for AC & DC Auxiliary Supply Connection for each Circuit	Nos	33		
37	Spare Marked Ferrule set for Control Wiring	Nos	33		
38	Spare Trifoliate Label for Circuit for each Ferrule Rolls	Nos	33		
39	Phase Comparison Test Unit	Nos	10	-	



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Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
1	Transformer Circuit Breaker Panel	Nos	214	QAR	QAR
2	Transformer Circuit Breaker Panel with Metering	Nos	2	t	
3	Feeder Circuit Breaker Panels with Pilot wire protection/IDMT protection	Nos	350	Ť.	
4	Feeder Circuit Breaker Panel with Directional IDMT protection.	Nos	32	Ť.	
5	Feeder Circuit Breaker Panel with Metering	Nos	3		
6	Bus-Bar Section Circuit Breaker Panel	Nos	8		
7	Bus-Bar Section Circuit Breaker Panel with Metering	Nos	1	Ť	
8	Test Bushing Sets	Set	150		
9	Bus Bar Coupling Kit with Shrouds	Set	490		
10	End Cover Kits with Shrouds and Boots	Set	245	t	
11	Set of Tools Boxes	Set	152	1	
12	Operating Handles	Set	152	1	
13	Other Shrouds & Boots	Set	610	1	
14	End Plates	Set	245	1	
15	Foundation Bolts	Set	610	1	
16	Panel Interconnection Bolts	Set	610	1	
17	Portable Live Phase Comparator Instruments	Set (3 Plugs)	5	1	
18	Portable Steel Ramp for CB Truck	Pc.	152	1	
19	Cable Glands	Set	625		
20	Cable Lugs & Its Connections Bolts	Set	600		
21	Portable Earth Truck	Set	13		

	BOQ 2-B; (25KA/03SEC) CLASS FMW ONLY AND COMPACT SIZE - SPARE PARTS -						
Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR		
1	Release Solenoid 30V DC	Nos	25				
2	Tripping Solenoid 30V DC	Nos	25				
3	Motor for Spring Charging	Nos	25	1			



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Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
4	Local/Remote Selector Switch	Nos	25		
5	VCB Trip/ Neutral/Close Selector Switch	Nos	25		
6	6A HRC Fuse	Nos	25		
7	10A HRC Fuse	Nos	25		
8	11KV PT Fuse	Nos	6	T.	
9	Pilot Indicating Light assembly (Red) 30V DC	Nos	25	T	
10	Pilot Indicating Light assembly (Green) 30V DC	Nos	25		
11	Red bulb 30V DC	Nos	25	Ť	
12	Green bulb 30V DC	Nos	25	Ť	
13	Spare Vacuum Circuit Breaker	Nos	25		
14	CT for Transformer Feeder Panel (100/5+5A CL 5P10 + 1.0 15VA CT)	Nos	9	T	
15	CT for Feeder Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	10	Ī	
16	CT for Bus Section Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	1	T	
17	VT Truck	Nos	6		
18	Inter Panel Coupling Bolts	Nos	25		
19	Panel Busbar Shutter Lifter	Nos	25	T	
20	Panel Circuit Shutter Lifter	Nos	25		
21	Panel Pressure Relief Cover	Nos	25		
22	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	Nos	5	T	
23	Grouting Bolts	Nos	25		
24	Grommet for End Panel	Sets	155	T	
25	End Panel (B/bar Chamber) Cover for Left Side Panel	Nos	155	T	
26	End Panel (B/bar Chamber) Cover for Right Side Panel	Nos	155	T	
27	Tripping unit HRC Fuse	Nos	20	T	
28	Tripping unit MCB	Nos	20		
29	Tripping Unit Battery Bank Connection Link	Nos	20	Ť	
30	Panel Earth Switch Mechanism Assembly	Sets	25	Ť	
31	Push Button for Closing	Sets	25	T	
32	Push Button for Tripping	Nos	25	Ť	



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TM-PUTF16



Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
33	Go - No - Go Gauge for VCB Contact Alignment	Nos	25		
34	VCB Contact Jaws (as per the VCB ratings)	Nos	25		
35	Spare of all Type MCB for Individual Control Circuit Inside Control Cubicle	Nos	25	T	
36	Spare for all Type Terminal Block for Control Cubicle for AC & DC Auxiliary Supply Connection for each Circuit	Nos	25	Ī	
37	Spare Marked Ferrule set for Control Wiring	Nos	25	T	
38	Spare Trifoliate Label for Circuit for each Ferrule Rolls	Nos	25	T	
39	Phase Comparison Test Unit	Nos	10	1	
		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Tota	11	

Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
1	Transformer Circuit Breaker Panel	Nos	53		
2	Transformer Circuit Breaker Panel with Metering	Nos	1		
3	Feeder Circuit Breaker Panels with Pilot wire protection/IDMT protection	Nos	88		
4	Feeder Circuit Breaker Panel with Directional IDMT protection.	Nos	8		
5	Feeder Circuit Breaker Panel with Metering	Nos	1	t	
6	Bus-Bar Section Circuit Breaker Panel	Nos	2		
7	Test Bushing Sets	Set	38	t	
8	Bus Bar Coupling Kit with Shrouds	Set	123	1	
9	End Cover Kits with Shrouds and Boots	Set	60	T	
10	Set of Tools Boxes	Set	40		
11	Operating Handles	Set	40	T	
12	Other Shrouds & Boots	Set	155		
13	End Plates	Set	60		
14	Foundation Bolts	Set	155		
15	Panel Interconnection Bolts	Set	155		
16	Portable Live Phase Comparator Instruments	Set (3 Plugs)	5		



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Issue: 0



Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
17	Portable Steel Ramp for CB Truck	Pc.	38		
18	Cable Glands	Set.	155		
19	Cable Lugs & Its Connections Bolts	Set	150	T	
20	Portable Earth Truck	Set	3	1	
			Total		

Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
1	Release Solenoid 30V DC	Nos	7		
2	Tripping Solenoid 30V DC	Nos	7		
3	Motor for Spring Charging	Nos	7		
4	Local/Remote Selector Switch	Nos	7		
5	VCB Trip/ Neutral/Close Selector Switch	Nos	7	Ī	
6	6A HRC Fuse	Nos	7	t	
7	10A HRC Fuse	Nos	7	† .	
8	11KV PT Fuse	Nos	2	t	
9	Pilot Indicating Light assembly (Red) 30V DC	Nos	25	1	
10	Pilot Indicating Light assembly (Green) 30V DC	Nos	25	1	
11	Red bulb 30V DC	Nos	25		
12	Green bulb 30V DC	Nos	25	1	
13	Spare Vacuum Circuit Breaker	Nos	25		
14	CT for Transformer Feeder Panel (100/5+5A CL 5P10 + 1.0 15VA CT)	Nos	2		
15	CT for Feeder Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	3		
16	VT Truck	Nos	2		
17	Inter Panel Coupling Bolts	Nos	7		
18	Panel Busbar Shutter Lifter	Nos	7	7	
19	Panel Circuit Shutter Lifter	Nos	7	1	
20	Panel Pressure Relief Cover	Nos	7		
21	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	Nos	5		
22	Grouting Bolts	Nos	6	-	



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Issue: 0



Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
23	Grommet for End Panel	Set	40		
24	End Panel (B/bar Chamber) Cover for Left Side Panel	Panel	40		
25	End Panel (B/bar Chamber) Cover for Right Side Panel	Panel	40		
26	Tripping unit HRC Fuse	Panel	5		
27	Tripping unit MCB	Nos	5		
28	Tripping Unit Battery Bank Connection Link	Nos	5		
29	Panel Earth Switch Mechanism Assembly	Sets	6		
30	Push Button for Closing	Sets	6		
31	Push Button for Tripping	Nos	6		
32	Go - No - Go Gauge for VCB Contact Alignment	Nos	6		
33	VCB Contact Jaws (as per the VCB ratings)	Nos	6		
34	Spare of all Type MCB for Individual Control Circuit Inside Control Cubicle	Nos	6		
35	Spare for all Type Terminal Block for Control Cubicle for AC & DC Auxiliary Supply Connection for each Circuit	Nos	6		
36	Spare Marked Ferrule set for Control Wiring	Nos	6		
37	Spare Trifoliate Label for Circuit for each Ferrule Rolls	Nos	6	T	
38	Phase Comparison Test Unit	Nos	10	T	

B	BOQ 4-A; (31.5KA/03SEC) CLASS C OR F AND STANDARD OR ST SIZE							
Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR			
1	Transformer Circuit Breaker Panel	Nos	75	0.				
2	Transformer Circuit Breaker Panel with Metering	Nos	1	Ī				
3	Feeder Circuit Breaker Panels with Pilot wire protection/IDMT protection	Nos	106	Ť.				
4	Feeder Circuit Breaker Panel with Directional IDMT protection.	Nos	10					
5	Feeder Circuit Breaker Panel with Metering	Nos	1	T				



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TM-P01/F16



Item	DQ 4-A; (31.5KA/03SEC) CLASS C OI Description	Unit	Qty	Unit Price QAR	Extended Price QAR
6	Bus-Bar Section Circuit Breaker Panel	Nos	6		
7	Bus-Bar Section Circuit Breaker Panel with Metering	Nos	1		
8	Test Bushing Sets	Nos	50		
9	Bus Bar Coupling Kit with Shrouds	Nos	160		_
10	End Cover Kits with Shrouds and Boots	Nos	80		_
11	Set of Tools Boxes	Nos	50		
12	Operating Handles	Nos	50		
13	Other Shrouds & Boots	Nos	200		
14	End Plates	Nos	80		
15	Foundation Bolts	Nos	200		
16	Panel Interconnection Bolts	Nos	200		-
17	Portable Live Phase Comparator Instruments	Set (3 Plugs)	5		
18	Portable Steel Ramp for CB Truck	Pc.	50		
19	Cable Glands	Set	200		
20	Cable Lugs & Its Connections Bolts	Set	200		
21	Portable Earth Truck	Set	5		

BOQ 4-B; (31.5KA/03SEC) CLASS C OR F AND STANDARD OR ST SIZE									
Item	Description	Unit	Qty		Extended Price QAR				
1	Release Solenoid 30V DC	Nos	8	line and an an an an an an an an an an an an an					
2	Tripping Solenoid 30V DC	Nos	8						
3	Motor for Spring Charging	Nos	8						
4	Local/Remote Selector Switch	Nos	8						
5	VCB Trip/ Neutral/Close Selector Switch	Nos	8						
6	6A HRC Fuse	Nos	8						
7	10A HRC Fuse	Nos	8						
8	11KV PT Fuse	Nos	2						
9	Pilot Indicating Light assembly (Red) 30V DC	Nos	8						
10	Pilot Indicating Light assembly (Green) 30V DC	Nos	8						
11	Red bulb 30V DC	Nos	8						



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Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
12	Green bulb 30V DC	Nos	8		
13	Spare Vacuum Circuit Breaker	Nos	8		
14	CT for Transformer Feeder Panel (100/5+5A CL 5P10 + 1.0 15VA CT)	Nos	3		
15	CT for Feeder Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	3		
16	CT for Bus Section Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	1	Ī	
17	VT Truck	Nos	2		
18	Inter Panel Coupling Bolts	Nos	8		
19	Panel Busbar Shutter Lifter	Nos	8		
20	Panel Circuit Shutter Lifter	Nos	8	1	
21	Panel Pressure Relief Cover	Nos	8		
22	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	Nos	5	Ī	
23	Grouting Bolts	Nos	8		
24	Grommet for End Panel	Sets	50	Ι	
25	End Panel (B/bar Chamber) Cover for Left Side Panel	Nos	50	I	
26	End Panel (B/bar Chamber) Cover for Right Side Panel	Nos	50		
27	Tripping unit HRC Fuse	Nos	6		
28	Tripping unit MCB	Nos	6	Ι	
29	Tripping Unit Battery Bank Connection Link	Nos	6		
30	Panel Earth Switch Mechanism Assembly	Sets	8		
31	Push Button for Closing	Sets	8		
32	Push Button for Tripping	Nos	8		
33	Go - No - Go Gauge for VCB Contact Alignment	Nos	8		
34	VCB Contact Jaws (as per the VCB ratings)	Nos	8		
35	Spare of all Type MCB for Individual Control Circuit Inside Control Cubicle	Nos	8		
36	Spare for all Type Terminal Block for Control Cubicle for AC & DC Auxiliary Supply Connection for each Circuit	Nos	8		
37	Spare Marked Ferrule set for Control Wiring	Nos	8		
38	Spare Trifoliate Label for Circuit for each Ferrule Rolls	Nos	8		
39	Phase Comparison Test Unit	Nos	10		
			Tota	1	



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BOQ 5									
Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR				
1	Tripping Units (As detailed in KM Specification # EP-MS-P4/S2-082 issue: 3 date 21.07.2013)	Nos	400		- Quint				
2	M20 Brass Gland with Shrouds for Inter Trip Cable Connection	Set	80	Ť.					
3	11kV Live Phasing Stick	Set	4	-					
4	Torque Wrench Set	Nos	10	-					
5	Battery Bank Flexible Wire for Positive & Negative Connection with Ring Type Lugs.	Nos	25	Ī					
			То	ot:					

BOQ 6							
Item	Description	Unit	Qty	Extended Price QAR			
1	Provide Training for Installation, Operation & Maintenance by Manufacturer for 6 days minimum for 40 Engineers & Technicians of Kahramaa in Qatar. Including supply of required Training Materials & Manuals.	Lump sum	1				

#### Manufacturer: Elimsan, Turkey

#### 1.0 References

- 1.1 Tender document entitled Two Years Call-off Agreement for Supply of Indoor Switchgears, Tender No. GTC-571/2013
- 1.2 Your Technical Offer (Main) dated 14/11/2013.
- 1.3 Your Commercial Offer (Main) dated 14/11/2013.
- 1.4 Your 1st Revised Commercial Offer (Main) ref. L-040/QGC/MD/2014 dated 23/10/2014
- 1.5 Your 2<sup>nd</sup> Revised Commercial Offer (Main) ref. L-048/QGC/MD/2014 dated 16/11/2014
- 1.6 Pre closing date correspondences "All Circulars",
- 1.7 All Clarifications during evaluation, including:

Our fax # TA-TMP6/GTC/571 dated 17/02/2014.



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Your clarifications under letter # L-025/QGC/14/OPR dated 06/03/2014

Your clarifications under letter # L-048/QGC/14/OPR dated 22/04/2014 based on technical meeting Your further clarifications under letters # L-026/QGC/DGM/2014 dated 15/05/2014 and L-001/GTC-571 dated 18/05/2014

Our fax # TA-TMP6/GTC/571 dated 22/05/2014Your clarifications under letter # L022/QGC/14/MKTG/GTC571 dated 25/05/2014

Our fax # TA-TMP6/1/GTC/571 dated 29/10/2014 requesting to extend validities of offer and bid bond

Your fax # L-104/QGC/14/OPR dated 30/10/2014 extending validity of offer until 14/01/2015 and bid bond until 14/02/2014

Our fax # TA-TMP6/1/GTC/571 dated 11/12/2014 requesting for confirmation

Your fax # L-051/QGC/DGM/2014 dated 14/12/2014 dated 12/12/2014 confirming our request

#### 2.0 CONTRACT EFFECTIVE DATE

The Contract effective date shall be fourteen (14) calendar days from the date of your letter of confirmation to this letter of award.

#### 3.0 MOBILIZATION PERIOD

Within eight months from the date of your letter of confirmation to this Letter of Award. Delivery shall be against Call-off Order Release issued under this Contract.

#### 4.0 WARRANTY PERIOD

Supplied material shall be guaranteed against any defect for 3 (three) years from the date of delivery or 2 (two) years from the date of installation whichever comes first. First two years to be supported with Performance bond and the total three years to be supported with Warranty Certificate.

#### 5.0 CONTRACT REQUIREMENTS

The following particulars are required prior to signing and shall form part of the contract document:

- a) The Performance Bond (10% of the total Contract value) with validity to cover the Contract period plus 24 months to cover two years warranty plus Ninety (90 days).
- b) The required Insurances in accordance with the General Conditions of Contract and its Appendix (C).
- c) The programme of works "Execution Plan".
- d) Attested Certificate showing the specimen signatures of the authorized to sign the Form of Tender and the Contract (Form of Agreement).

The above mentioned particulars should be submitted within fourteen (14) Calendar days from the date of this Letter of Award.



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#### 6.0 LETTER OF CONFIRMATION

We look forward to your written confirmation of unconditional acceptance to our Letter of Award, within two (02) working days from the date of this letter.

Note: Contract Document shall be signed by both parties shortly.

Regards,

Dr. Mohamed Bin Saleh Al-Sada Minister of Energy & Industry

Ce - DF: (44834850, 5741), - OTC(5506)



P () 1608 - 41, India - Onlar, Tel : (974) 44845150 - Fax : (974) 44845192

# KAHRAMAA PROJECT APPROVALS



المؤسبة العامة القطرية للكرمب عوالماء Qatar General Electricity & Water Corporation





То	K&H Sons of M.Almana Co.	إلى	Facsimile	4001 6445	فاكس
F.A.0	Robert Helou		Facsimile		
Fror	MANAGER, ELECTRICITY NETWORK PLANNING		Facsimile	4493 4557	فاكس

Date	05/23/2022	التاريخ	Reference No:	#0013810 - 02/15/2022	Number of pages including cover	2	عدد الصفحات متضمنة الغلاف	
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#### Subject: <u>Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW</u> Type

<u>(Manufacturer: Elimsan — Turkey)</u> <u>Project: The Pearl — Al Mana Mall 04 LPS 62 — S/S 18570</u> KM BP #N/2018/0003368 KM Scheme #11-4-2020

Greetings from Qatar General Electricity & Water Corporation (KAHRAMAA), with reference to your application #0013810 dated 02/15/2022 regarding the above mentioned subject.

The technical details and documents submitted with respect of 3 - Nos. of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type manufactured by Elimsan - Turkey have been examined and found meeting with KM requirements. Therefore, it is approved for use in the above referred project. However, the material will be subjected to inspection at site before installation for final approval.

Note:-

- 1. Please note that KM approval of technical submittal is based on prevailing specification and product performance. This approval does not form a basis to approve any future submittals.
- 2. This approval is valid for one year from the date of this letter. The delivery and KM inspection shall be within the period. Afterward, new submittal needs to be submitted for KM review and approval.
- 3. The approval shall become void if any deviations are found as referred below:
  - a) Material data incorrect in respect of BP, Scheme number, Material Details etc.
  - b) Deviation in the physical equipment/materials at the time of installations. Therefore, the rejection letter shall be issued by Electricity Distribution Department.
- 4. This approval is valid considering attached **<u>01-Page APPROVAL ANNEXURE.</u>**

Best Regards,

CC: Director, ENA

Hamad Mohd AI Maddad Al-Marri MANAGER, Electricity Network Planning Dept.

Internal

: Head of Mat. Stds. & Spec.

 EPM-P6/F3
 Issue: 1
 12-02-2018

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المؤسسة العامة القطرية للكرمرب ، ووالماء Qatar General Electricity & Water Corporation





То	Gulf GRC Trading	إلى	Facsimile	44515550	فاكس
F.A.O.	Javid Gudusap		Facsimile		
From	MANAGER, ELECTRICITY NETWORK PLANNING		Facsimile	4493 4557	فاكس

Date	05/15/2022 Č	التاريخ	Reference No:	#0014012 - 03/21/2022	Number of pages including cover	13	عدد الصفحات متضمنة الغلاف
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#### Subject: <u>Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW</u> type

#### <u>(Manufacturer: Elimsan — Turkey)</u> <u>Project: Supply to Factory for BP#: N/2020/1734 Mesaieed</u> KM BP #M/2020/1734 KM Scheme #35-182/2021 + 15-01/2018

Greetings from Qatar General Electricity & Water Corporation (KAHRAMAA), with reference to your application #0014012 dated 03/21/2022 regarding the above mentioned subject.

The technical details and documents submitted with respect of 3 - Nos. of 11kV 31.5kA/3sec Indoor Switchgear, FMW type manufactured by Elimsan - Turkey have been examined and found meeting with KM requirements. Therefore, it is approved for use in the above referred project. However, the material will be subjected to inspection at site before installation for final approval.

Note:-

- 1. Please note that KM approval of technical submittal is based on prevailing specification and product performance. This approval does not form a basis to approve any future submittals.
- 2. This approval is valid for one year from the date of this letter. The delivery and KM inspection shall be within the period. Afterward, new submittal needs to be submitted for KM review and approval.
- 3. The approval shall become void if any deviations are found as referred below:
  - a) Material data incorrect in respect of BP, Scheme number, Material Details etc.
  - b) Deviation in the physical equipment/materials at the time of installations. Therefore, the rejection letter shall be issued by Electricity Distribution Department.
- 4. This approval is valid considering attached 12-Page APPROVAL ANNEXURE.

Best Regards,

CC: Director, ENA

Hamad Mohd AI Maddad Al-Marri MANAGER, Electricity Network Planning Dept.

Internal

## : Head of Mat. Stds. & Spec. EPM-P6/F3 Issue: 1 12-02-2018

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المؤسبة العامة القطرية للكرمب عوالماء Qatar General Electricity & Water Corporation





То	United Development Company	إلى	Facsimile	44098500	فاكس
F.A.O.	United Development Company		Facsimile		
From	MANAGER, ELECTRICITY NETWORK PLANNING		Facsimile	4493 4557	فاكس

Date	04/13/2022	التاريخ	Reference No:	#0012865 - 08/23/2021	Number of pages including cover	13	عدد الصفحات متضمنة الغلاف	
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#### Subject: <u>Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW</u> <u>Type</u>

#### <u>(Manufacturer: Elimsan — Turkey)</u> <u>Project: Gewan Island Plot QQ Marina</u> <u>KM BP #N/A KM Scheme #11/17/2019</u>

Greetings from Qatar General Electricity & Water Corporation (KAHRAMAA), with reference to your application #0012865 dated 08/23/2021 regarding the above mentioned subject.

The technical details and documents submitted with respect of 5 - Nos. of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type manufactured by Elimsan - Turkey have been examined and found meeting with KM requirements. Therefore, it is approved for use in the above referred project. However, the material will be subjected to inspection at site before installation for final approval.

Note:-

- 1. Please note that KM approval of technical submittal is based on prevailing specification and product performance. This approval does not form a basis to approve any future submittals.
- 2. This approval is valid for one year from the date of this letter. The delivery and KM inspection shall be within the period. Afterward, new submittal needs to be submitted for KM review and approval.
- 3. The approval shall become void if any deviations are found as referred below:
  - a) Material data incorrect in respect of BP, Scheme number, Material Details etc.
  - b) Deviation in the physical equipment/materials at the time of installations. Therefore, the rejection letter shall be issued by Electricity Distribution Department.
- 4. This approval is valid considering attached 12-Page APPROVAL ANNEXURE.

Best Regards,

CC: Director, ENA

Hamad Mohd AI Maddad Al-Marri MANAGER, Electricity Network Planning Dept.

Internal

## : Head of Mat. Stds. & Spec. EPM-P6/F3 Issue: 1 12-02-2018

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То	QATARI DIAR REAL ESTATE DEVELOPEMNT COMPANY	إلى	Facsimile	4001 6445	فاكس
F.A.O.	Mr. ARUNAGIRI		Facsimile		
From	MANAGER, ELECTRICITY NETWORK PLANNING	من	Facsimile	4493 4557	فاكس

Date	02/20/2022	التاريخ	Reference No:	#0012742 - 07/29/2021	Number of pages including cover	1	عدد الصفحات متضمنة الغلاف	
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#### Subject: <u>Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW</u> Type

<u>(Manufacturer: Elimsan — Turkey)</u> <u>Project: Lusail Construction Package (CP)-31</u> <u>KM BP #N/A KM Scheme #4-405-2010</u>

Greetings from Qatar General Electricity & Water Corporation (KAHRAMAA), with reference to your application #0012742 dated 07/29/2021 regarding the abovementioned subject.

The technical details and documents submitted with respect of 20 - Nos. of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type manufactured by Elimsan - Turkey have been examined and found meeting with KM requirements. Therefore, it is approved for use in the above referred project. However, the material will be subjected to inspection at site before installation for final approval.

Note:-

- 1. Please note that KM approval of technical submittal is based on prevailing specification and product performance. This approval does not form a basis to approve any future submittals.
- 2. This approval is valid for one year from the date of this letter. The delivery and KM inspection shall be within the period. Afterward, new submittal needs to be submitted for KM review and approval.
- 3. The approval shall become void if any deviations are found as referred below:
  - a) Material data incorrect in respect of BP, Scheme number, Material Details etc.
  - b) Deviation in the physical equipment/materials at the time of installations. Therefore, the rejection letter shall be issued by Electricity Distribution Department.
- 4. This approval is valid considering attached **<u>26-Page APPROVAL ANNEXURE.</u>**
- 5. Recommended for approval in line with the uploaded documents for the referred application and reference to the attached approval annexure in 26 pages.

Best Regards,

CC: Director, ENA : Head of Mat. Stds. & Spec.



Hamad Mohd AI Maddad Al-Marri MANAGER, Electricity Network Planning Dept.

Interna

EPM-P6/F3 Issue: 1 12-02-2018

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То	QATARI DIAR REAL ESTATE DEVELOPMENT COMPANY	إلى	Facsimile	40016445	فاكس
F.A.O.	Mr. Arunagiri		Facsimile		
From	MANAGER, ELECTRICITY NETWORK PLANNING	من	Facsimile	4493 4557	فاكس

Date	02/20/2022	التاريخ	Reference No:	#0012738 - 07/29/2021	Number of pages including cover	1	عدد الصفحات متضمنة الغلاف	
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#### Subject: <u>Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW</u> Type

<u>(Manufacturer: Elimsan — Turkey)</u> <u>Project: Lusail Construction Package (CP)-31 SS-31459</u> <u>KM BP #N/A KM Scheme #4-405-2010</u>

Greetings from Qatar General Electricity & Water Corporation (KAHRAMAA), with reference to your application #0012738 dated 07/29/2021 regarding the abovementioned subject.

The technical details and documents submitted with respect of 3 - Nos. of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type manufactured by Elimsan - Turkey have been examined and found meeting with KM requirements. Therefore, it is approved for use in the above referred project. However, the material will be subjected to inspection at site before installation for final approval.

Note:-

- 1. Please note that KM approval of technical submittal is based on prevailing specification and product performance. This approval does not form a basis to approve any future submittals.
- 2. This approval is valid for one year from the date of this letter. The delivery and KM inspection shall be within the period. Afterward, new submittal needs to be submitted for KM review and approval.
- 3. The approval shall become void if any deviations are found as referred below:
  - a) Material data incorrect in respect of BP, Scheme number, Material Details etc.
  - b) Deviation in the physical equipment/materials at the time of installations. Therefore, the rejection letter shall be issued by Electricity Distribution Department.
- 4. This approval is valid considering attached 19-Page APPROVAL ANNEXURE.
- 5. Recommended for approval in line with the uploaded documents for the referred application and reference to the attached approval annexure in 19 pages.

Best Regards,

CC: Director, ENA : Head of Mat. Stds. & Spec.



Hamad Mohd AI Maddad Al-Marri MANAGER, Electricity Network Planning Dept.

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EPM-P6/F3 Issue: 1 12-02-2018

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تقويه هام: هذا الفاكس وأية ملحقات معه قد تحتوي على معلومات سرية، يجب أن لا يبرزعا أو يكثف مضمونهما و/ أو نسخهما لأي كان من دون موافقة المرسل. إذا لم تكن واحداً من الأشخاص الموجه لهم هذا الفاكس ووصل إلى جهاز الفاكس لديكم عن طريق الخطأ، يرجى إرجاع الرسالة مع ملحقاتها فضلاً عن إتلاف جميع نسخها. وبعد ذلك، يرجى الاتصال بالمرسل عبر البريد الإلكتروني أو الفاكس أو الهاتف لإبلاغه بالخطأ الحاصل. لا تقد سرية الملومات أو يتنازل عنها بسبب خطأ ناجم عن إرسال وتوجيه الفاكس فأسخاص غير مقصودين.







То	QATARI DIAR REAL ESTATE DEVELOPMENT COMPANY	إلى	Facsimile	40016445	فاكس
F.A.O.	Mr. Arunagiri		Facsimile		
From	MANAGER, ELECTRICITY NETWORK PLANNING	من	Facsimile	4493 4557	فاكس

Date	02/20/2022	التاريخ	Reference No:	#0012707 - 07/25/2021	Number of pages including cover	1	عدد الصفحات متضمنة الغلاف	
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#### Subject: <u>Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW</u> Type

<u>(Manufacturer: Elimsan — Turkey)</u> <u>Project: Lusail Construction Package (CP)-31</u> <u>KM BP #N/A KM Scheme #4-405-2012</u>

Greetings from Qatar General Electricity & Water Corporation (KAHRAMAA), with reference to your application #0012707 dated 07/25/2021 regarding the abovementioned subject.

The technical details and documents submitted with respect of 23 - Nos. of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type manufactured by Elimsan - Turkey have been examined and found meeting with KM requirements. Therefore, it is approved for use in the above referred project. However, the material will be subjected to inspection at site before installation for final approval.

Note:-

- 1. Please note that KM approval of technical submittal is based on prevailing specification and product performance. This approval does not form a basis to approve any future submittals.
- 2. This approval is valid for one year from the date of this letter. The delivery and KM inspection shall be within the period. Afterward, new submittal needs to be submitted for KM review and approval.
- 3. The approval shall become void if any deviations are found as referred below:
  - a) Material data incorrect in respect of BP, Scheme number, Material Details etc.
  - b) Deviation in the physical equipment/materials at the time of installations. Therefore, the rejection letter shall be issued by Electricity Distribution Department.
- 4. This approval is valid considering attached **<u>28-Page APPROVAL ANNEXURE.</u>**
- 5. Recommended for approval in line with the uploaded documents for the referred application and reference to the attached approval annexure in 28 pages.

Best Regards,

CC: Director, ENA : Head of Mat. Stds. & Spec.



Hamad Mohd AI Maddad Al-Marri MANAGER, Electricity Network Planning Dept.

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То	QATARI DIAR REAL ESTATE DEVELOPMENT COMPANY	إلى	Facsimile	44977775	فاكس
F.A.O.	TARIQ MOHAMED ALI		Facsimile		
From	MANAGER, ELECTRICITY NETWORK PLANNING	من	Facsimile	4493 4557	فاكس

Date	02/10/2022	التاريخ	Reference No:	#0012726 - 07/28/2021	Number of pages including cover	1	عدد الصفحات متضمنة الغلاف
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#### Subject: <u>Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW</u> <u>Type</u>

#### <u>(Manufacturer: Elimsan — Turkey)</u> <u>Project: LUSAIL CONSTRUCTIÓN PACKAGE (CP)-31</u> <u>KM BP #N/A KM Scheme #4-405-2012</u>

Greetings from Qatar General Electricity & Water Corporation (KAHRAMAA), with reference to your application #0012726 dated 07/28/2021 regarding the abovementioned subject.

The technical details and documents submitted with respect of 11 - Nos. of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type manufactured by Elimsan - Turkey have been examined and found meeting with KM requirements. Therefore, it is approved for use in the above referred project. However, the material will be subjected to inspection at site before installation for final approval.

Note:-

- 1. Please note that KM approval of technical submittal is based on prevailing specification and product performance. This approval does not form a basis to approve any future submittals.
- 2. This approval is valid for one year from the date of this letter. The delivery and KM inspection shall be within the period. Afterward, new submittal needs to be submitted for KM review and approval.
- 3. The approval shall become void if any deviations are found as referred below:
  - a) Material data incorrect in respect of BP, Scheme number, Material Details etc.
  - b) Deviation in the physical equipment/materials at the time of installations. Therefore, the rejection letter shall be issued by Electricity Distribution Department.
- 4. This approval is valid considering attached **<u>25-Page APPROVAL ANNEXURE.</u>**
- 5. Recommended for approval in line with the uploaded documents for the referred application and reference to the attached approval annexure in 25 pages.

Best Regards,

CC: Director, ENA : Head of Mat. Stds. & Spec.



Hamad Mohd AI Maddad Al-Marri MANAGER, Electricity Network Planning Dept.

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LOW VOLTAGE QGC FALCON KAHRA COMAA

Qatar General Electricity and Water Corporation المزسسة التطرية الكيرياء و الماء Customer Services Department – Installations Section إدارة خدمات المشتركين – قسم التمويدات

MV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرانط لوحات توزيع الجهد المنخفض

BP No.			Ge	eneral Inform	lation	A CALLER AND A CAL	the state of the s		
63185					Customer Nam REDA SALEH E				
Type of Build PROPOSED INSULATION	WORKSHOP	P & OFFICE I	BUILDING		Location (Area) INDUSTRIAL AREA				
	anufacturer Name ATARI GERMAN SWITCHGEAR pplicant's e-mail info@qgc-qatar.com					Supplier Name GAZZAOUI & PARTNERS			
Applicant's e	e-mail info@	Qqgc-qatar.co	om						
MV-Panel Information	Quantity ACB Rating	1 2500A		$\square$	Consultant		vner Signature/Stamp		
New Submittal √	Re- Submitt	al Da	ite	Gauta			ar For		
Attachments	Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature	*1 Copy of submittal	Certificate		
	1476 - MANSO			r Official Use	onew form is to be a				
	Received Da	ite	Fo	r Official Use First Submi	e Only	174 S. 2017 9			
17.1	- 2016 Signature			Filst Subini	ttal	Secon	d Submittal		
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Assigned Protection	to n Engineer F Proken	signature Remarks (2)	UNDAR	Date ) Checkee (3859	S E Signature	Received Date	IS E Signature		
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معلم من معلم و المام Qatar General Electricity and Water Corporation المؤسسة العامة القطرية للكهرياء و المام Customer Services Department – Installations Section إدارة خدمات المشتركين – قسم التمديدات LV-Panel Manufacturing Drawings Submittal Form ثموذج تسليم خرائط لوحات توزيع الجهد المنخفض

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Type of Build	ding NSION & STA		DATION		Location (Area) AL-RAYYAN					
Manufacture	r Name				Supplier Name GAZZAOUI & PARTNERS					
Applicant's	e-mail inf	o@qgc-qatar.c	com.							
MV-Panel Information	Quantity ACB Rating	1 2500A			Consultant Signat	Ire	Owner Signature/Stamp			
New Submittal √	Re- Submitt	al Date		I	LUSAIL CO	NBULTANTS	Ultur P			
Attachments	Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature	*1 Copy of submittal	Short Circuit & Temp Rise test Certificate			
	Dielectric Pro	perties, Mechanic	cal Operation	8 Functiona	al Tests Certificates		bmitted for final stamp.			
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IS - (MV - Panel App Form) - V7 - 25/11/2008

Qatar General Electricity and Water Corporation المزسسة العامة القطرية للكهرباء و الماء Customer Services Department – Installations Section الدارة خدمات المشتركين – قسم التمديدات MV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرانط لوحات توزيع الجهد المنخفض

			Ge	neral Infor	nation				
BP No.					stomer Name				
7095						IONAL			
Type of Build OFFICE & MA	ling ALL (THE GA	TE)		0	cation (Area) IAIZAH				
Manufacturer QATARI GER	Name MAN SWITC			SI S1	Supplier Name STREAM INDUSTRIAL & ENGINEERING				
Applicant's e		o@qqc-qatar			14				
Applicants					IncliteTIN		ner Signature/Stamp	2	
MV-Panel Information	Quantity ACB Rating	1 1600A			So Solution		P P	6	
New Submittal √	Submitt	ai Da	te		101 446555		A Stars		
Attachments	Copy of approved	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature	*1 Copy of submittal	Short Circuit & Temp Rise test Certificate		
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him from this r	responsibility.	om date of rece	ipt ubmittal a nev		a new form is to be		IRAMAA does not relea		
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Qatar General Electricity and Water Corporation المؤسسة العامة القطرية للكهرباء و الماء Customer Services Department – Installations Section إذارة خدمات المفشركين – ضم التمييات

## MV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

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P No.					<b>Customer Name</b>				
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ype of Build	ding				Location (Area)				
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anufacture	r Name MAN SWITC	HGEAR COM	<b>MPANY</b>		Supplier Name STREAM INDUST	RIAL & ENGINE	ERING		
pplicant's e	e-mail <u>info</u>	o@qqc-qatar	.com				A SIL 2		
	Quantity		1 1	1	Sorganidh		vner Signature/Stamp		
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normation	ACB Rating	1600A					3/2-1		
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ttachments	Copy of approved	Single Line Diagram	Material List	Three Li Diagrar		*1 Copy of submittal	Short Circuit & Temp Rise test Certificate		
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<ul> <li>Inquiry Date is</li> <li>If the material</li> </ul>	s 10 work days fro	om date of recei	pt						
	is not approved t	by the second si			vith a new form is to be	submitted			
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Qatar General Electricity and Water Corporation المؤسسة العامة الظرية للكهرياء و الماء Customer Services Department – Installations Section ادارة خدمات المشتركين – قسم التمديدات <u>MV-Panel Manufacturing Drawings Submittal Form</u> نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

			Ge	neral Informa	tion				
BP No.					omer Name				
7096						IONAL			
Type of Build OFFICE & MA	IING III (THE GA				Location (Area) ONAIZAH				
Vanufacturei		(12)			Supplier Name				
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VV-Panel	Quantity	1			Sigoan	ure)			
nformation	ACB Rating	1600A							
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Submittal	Submit			18	10 00 5	B.			
V					4465550				
	Copy of	Single Line	Material	Three Line	Stamp &	*1 Copy of	Short Circuit & Temp Rise test		
Attachments	approved BP	Diagram	List	Diagram	Signature	submittal	Certificate		
	Dielectric Pro	perties, Mecha	nical Operatio	on & Functional 1	ests Certificates	included be submi	Hed for final stamp		
After approving		ubmittal by the Is	S engineer, two	extra copies (pni	procopy) or the ong	inal should be submi	tteo for inter startip.		
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Qatar General Electricity and Water Corporation المزيسية العامة القطرية للكبرياء و الماء Customer Services Department – Installations Section إدارة خدمات المشتركين – قسم التمديدات

MV-Panel Manufacturing Drawings Submittal Form

	المنخفض	الجهد	توزيع	لوحات	خرائط	تسليم	6.	مو
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**General Information Customer** Name BP No. SALAM INTERNATIONAL 7097 Location (Area) Type of Building ONAIZAH OFFICE & MALL (THE GATE) Supplier Name Manufacturer Name STREAM INDUSTRIAL & ENGINEERING QATARI GERMAN SWITCHGEAR COMPANY info@ggc-gatar.com. Applicant's e-mail TING E Owner Signature/Stamp onsultant stamp & 1 Quantity ignatur MV-Panel Information 1600A ACB Rating New Re-Date Submittal Submittal 1 4465 Short Circuit & Copy of Stamp & \*1 Copy of Three Line Material Temp Rise test Single Line approved submittal Signature Dlagram List Diagram Certificate Attachments BP Dielectric Properties, Mechanical Operation & Functional Tests Certificates \* After approving (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp. 1- The assurance of compliance of the design and the material, and/or any other attached documents, of this submittal with KAHRAMAA rules and regulations is the sole responsibility of the electrical consultant stamping this form, and the approval provided by KAHRAMAA does not release him from this responsibility. 2- Inquiry Date is 10 work days from date of receipt
3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted For Official Use Only Second Submittal First Submittal **Received Date** 2015 8 0 Reen Signature Distribution IS E Signature **Received Date Received Date** IS E Signature MoHamed H - 19. Signature Assigned to Protection Engineer Remarks on 15m Schone ho. \* REI Signature OK. 0/08/2015 435 1000 З 2011 CD/EDR! CS Installations Engineer Remarks OK to Stamp **Correct and resubmit** For Discussion 1<sup>st</sup> Submittal OK to Stamp Correct and resubmit For Discussion 2<sup>nd</sup> Submittal APPro Missi ands 3/11/15 Signature

IS - (MV - Panel App Form) - V7 - 25/11/2008



Qatar General Electricity and Water Corporation المؤسسة العلمية التغرية للكبرياء ( الماء Customer Services Department – Installations Section إدارة خدمات المشتركين – قسم التمديدات <u>MV-Panel Manufacturing Drawings Submittal Form</u> <u>نموذج تسليم خرانط لوحات توزيع الجد المنخفض</u>

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Manufacturer QATARI GER	r Name				plier Name NSOLIDATED	ENGG. CONST	RUCTION CO. W.L.L.
Applicant's e	and the statement	fo@qgc-qatar					
MV-Panel Information	Quantity ACB Rating	5 2500A			Consultant		wner Signature/Stamp
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Attachments	Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature Tests Certificates	*1 Copy of submittal	Short Circuit & Jemip Rise test Bucertificate Bucertificate
regulations is from this resp	the sole respon onsibility.	sibility of the elect	ncal consultant	stamping una	form, and the appr a new form is to be		with KAHRAMAA rules and HRAMAA does not release him
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1 <sup>st</sup> Subm	ittal	For Discuss	sion	<u> </u>	ect and resubi		
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IS - (MV - Panel App. Form) -V7 - 25/11/2008



Qatar General Electricity and Water Corporation المؤسسة النظرية النظرية الكبرباء و الماء Customer Services Department – Installations Section الارة خدمات المشتركين – قسم التمديدات UV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

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IS - (MV - Panel App. Form) -- V7 - 25/11/2008



معتر مساء Qatar General Electricity and Water Corporation المؤسسة الثامة الظرية الكيرياء ر الماء Customer Services Department – Installations Section إدارة خدمات المشتركين – قسم التمديدات MV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

	General Int	formation		S S I NS DESSUE
BP No.	9	Customer Name MRS. HISA ABDUL		
57199		Location (Area)		
Type of Building VILLA		AL GHARAFA		
Manufacturer Name		Supplier Name		
QATARI GERMAN SWITCHGEAR COM	PANY W.L.L	GAZZAOUI & PAR	TNERS QATAR V	V.L.L
Applicant's e-mail info@ggc-gatar.c	om.			
MV-Panel Information     Quantity     1       ACB Rating     2500A       New Submittal     Re- Submittal		Consultant Signat	A G N C	er Signature/Stamp
Attachments Copy of approved BP Diagram Dielectric Properties, Mechanic	Material List Diagram	n Signature	*1 Copy of submittal	Short Circuit & Temp Rise test Certificate
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IS - (MV - Panel App. Form) - V7 - 25/11/2008



Qatar General Electricity and Water Corporation المؤسسة النظرية الكبرياء و الماء Customer Services Department – Installations Section والرة خدمات المشتركين – قسم المثيرات

# MV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

			General	Information		
BP No.				Customer Name		
80982				SHEIKH AHMED HA	MAD AL-THANI	
Type of Build OFFICE BUILI	ing DING (B+G†:	2)		NUAIJA		
Manufacturer	Name			Supplier Name HBK ENGINEERING		
QATARI GERI	MAN SWITC			HBK ENGINEERING	SERVICED WEL	-
Applicant's e-	-mail info	o@qqc-qatar.	.com.			
MV-Panel Information	Quantity ACB Rating	1 2500A		Consultant S تتارات المندسية Sketch Eng P.D.Bost	سكش للإست Const. L	r Signature/Stamp
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Attachments	BP Dielectric Prov	La contra da la co	ical Operation & Fur	nctional Tests Certificates		
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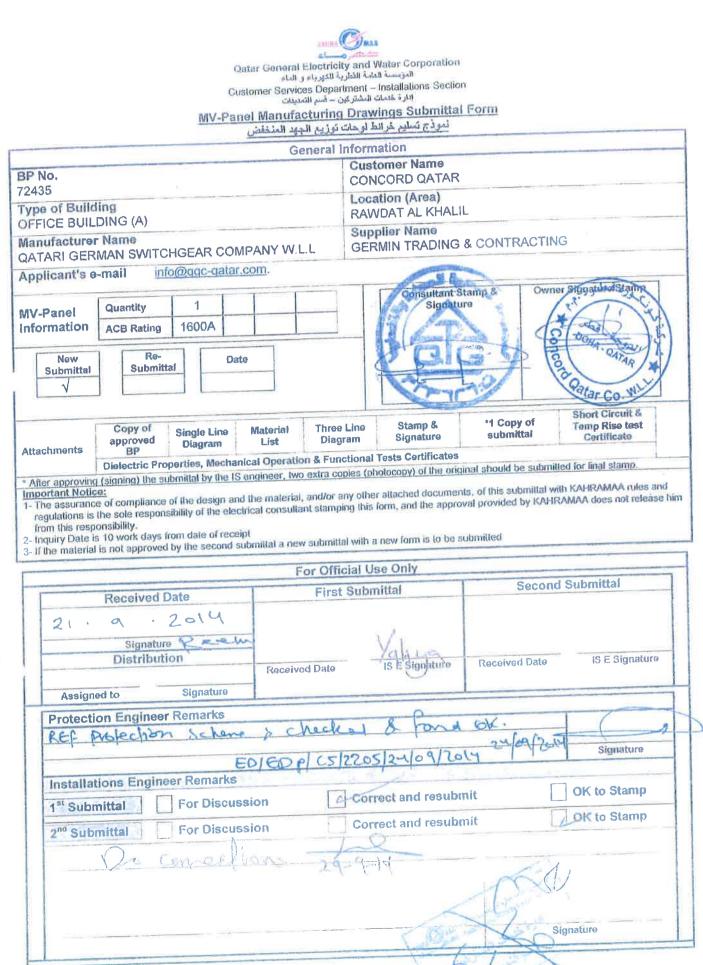
IS - (MV - Panel App. Form) -- V7 - 25/11/2008



Qatar General Electricity and Water Corporation المؤسسة العلمية القلرية التهرياء و الماء Customer Services Department – Installations Section إدارة خدمات المشتركين – قسم التمديدات MV-Panel Manufacturing Drawings Submittal Form تموذج تسليم خرائط لوحات توزيع الجهد المنغفض

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78686		Location (Area)		
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(G+1) SERVIC	DE BUILDING	Supplier Name		
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IS - (MV - Panel App. Form) -V7



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75636	
Type of Building	Location (Area)
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Applicant's e-mail info@ggc-gatar.com	Consultant Stamp & Owner Signature/Stamp
MV-Panel     Quantity     1       Information     ACB Rating     1600A       New     Re- Submittal     Date	Three Line Stamp & '1 Copy of Temp Rise test
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Qatar General Electricity and Water Corporation المرتسنة العلمة القلرية للتيرباء و الداء Customer Services Department – Installations Section (الارة عدمك المشتركين – قدم التعديدان MV-Panel Manufacturing Drawings Submittal Form نموذج تعليم خرائط لوحات توزيع الجهد المنخفض

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Type of Build HEALTH & W	ling ELLNESS C	ARE CENTE	R		Loca	tion (Area) SALAL			
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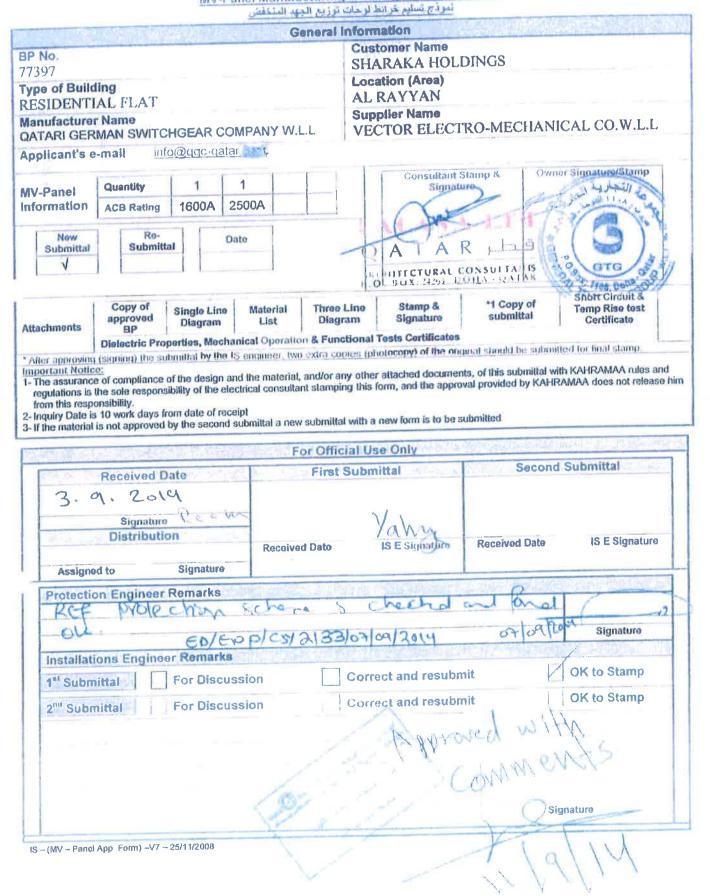
IS - (MV - Panel App. Form) -V7 - 25/11/2008

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Qatar General Electricity and Water Corporation المؤسسة العامة القطرية للكبرياء و الماء Customer Services Department – Installations Section إدارة خلصات المشتركين – قسم التعديدات

MV-Panel Manufacturing Drawings Submittal Form



Qatar General Electricity and Water Corporation المزيسة العلمية التطرية للتهرياء و الماء Customer Services Department – Installations Section إدارة خدمات المشتركين – قسم التعديدات MV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرائط لوحات توزيع البجهد المنخفض

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Applicant's e		o@qqc-qat	ar.com.		11 - A			Own	or Signature/Stamp
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IS - (MV - Panel App Form) -V7 - 25/11/2008

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Qatar General Electricity and Water Corporation المزمسة العامة التطرية الكبرياء و الماء Customer Services Department - Installations Section إدارة خدمات المشتركين - فسم التعديدات MV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرائط لوحات توزيع الجهد المنخفض General Information **Customer** Name BP No. AL MEERA 75507 Location (Area) Type of Building AL WAJBA COMMERCIAL Supplier Name Manufacturer Name PRINCES LIGHTS CO. W.L.L QATARI GERMAN SWITCHGEAR COMPANY W.L.L info@ggc-gatar.com Applicant's e-mail Owner Signature/Stamp Consultant Stamp & Signaturo 1 Quantity **MV-Panel** Information 2500A ACB Rating 11.11 Re-New Date Submittal Submittal 1 Short Circuit & \*1 Copy of 2 Stamp & Teldø Rise test Copy of Material Three Line Single Line submittal approved Signature Certificato Diagram Diagram List Attachments BP Dielectric Properties, Mechanical Operation & Functional Tests Certificates \* After approving (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp. Important Notice: 1- The assurance of compliance of the design and the material, and/or any other attached documents, of this submittal with KAHRAMAA rules and regulations is the sole responsibility of the electrical consultant stamping this form, and the approval provided by KAHRAMAA does not release him from this responsibility. 2- Inquiry Date is 10 work days from date of receipt 3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted For Official Use Only Second Submittal First Submittal **Received Date** 2106/2014 Signature Distribution IS E Signature **Received** Date **Received** Date after t Signaturo Assigned 16 Protection Engineer Remarks OL heales cho < PEE 11/04/2014 Signature 1711/11/06/201 ROLEDVICS Installations Engineer Remarks OK to Stamp Correct and resubmit For Discussion 1<sup>st</sup> Submittal OK to Stamp Correct and resubmit For Discussion 2"" Submittal Signature IS -- (MV -- Panel App Form) -- V7 -- 25/11/2008



Qatar General Electricity and Water Corporation المرسبة العادة القطرية والماد Costomer Services Department – Installations Section الدارة خنيات المقتوعين – فسر التعديدات Submittal F

MV-Panel Manufacturing Drawings Submittal Form نمرذج تسليم خرائط لرحات توزيع الجهد المتخفض

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**Qatar General Electricity and Water Corporation** لمؤسسة العامة القطرية الكهرياء و الماء Customer Service: Department - Installations Section ادارة غدمات المنتركين - قسم المعديدات MV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرانط لوحات توزيع الجهد المنخفض **General Information Customer Name** Mr. Thamir Khalifa Ali M. Al-Meaddadi BP No. 56987 Location (Area) Type of Building Mushairab (B+G+10) Residential Flat Building Supplier Name Manufacturer Name Madar Building Materials QATARI GERMAN SWITCHGEAR COMPANY info@ggc-gatar.com **Applicant's e-mail Owner Signature/Stamp** Consultant Stamp & Signature Quantity 1 **MV-Panel** Information 2500A ACB Rating Re Now Date Submittal Submittal 13 G 5 CONSULTANT Short Circuit & \*1 Copy of Three Line Stamp & **Temp Rise test** Copy of Single Line Material submittal Signature Certificate Diagram approved List Diagram Attachments Dielectric Properties, Mechanical Operation & Functional Tests Certificates After approving (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp. International international him from this responsibility. 3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted 2- Inquiry Date is 10 work days from date of receipt For Official Use Only Second Submittal First Submittal-**Received Date** 30-12-2013 Signature Distribution IS E Signature **Received** Date IS Signature **Received** Date Signature Assigned to Protection Engineer Remarks Th protec ar REG Signature 12/201 B

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Qatar General Electricity and Water Corporation المؤسسة العابة القطرية للتهريام و المام Customer Services Department - Installations Section إدارة خدمات المشتركون - قسم التمديدات MV-Panel Manufacturing Drawings Submittal Form

نبرذج تسليم خرائط لوحلت توزيع الجهد المتخفض

General Information Customer Name INTERNATIONAL TRAD. & CONTRACTING CO. (ITC) BP No. 38217 Location (Area) Type of Building INDUSTRIAL AREA WORKSHOP Supplier Name STREAM INDUSTRIAL & ENGINEERING Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY info@ggc-gatar.com Applicant's e-mail Owner Signature/Stamp Consultant Stamp & Signature 2 Quantity **MV-Panel** 2500A Information ACB Rating Re-New Date Submittal Submittal Short Circuit & 24 1 Copy of Temp Rise test Stamp & Three Line Copy of Material Single Line submittal Diagram Signature Cartificato approved List Diagram Attachments Dielectric Properties, Mechanical Operation & Functional Tests Certificates BP After approving (signing) the submittal by the 1S engineer, two extra copies (photocopy) of the anomal should be submitted for final stamp - The assurance of compliance of the design and the material, and/or any other attached documents, of this submittal with KAHRAMAA rules and regulations is the sole responsibility of the electrical consultant stamping this form, and the approval provided by KAHRAMAA does not release Important Notice: him from this responsibility. 2- Inquiry Date is 10 work days from date of receipt 3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted For Official Use Only Second Submittal First Şubmittal **Received Date** 0 -Signature Distribution IS E Signature **Received Date** 🗹 E Signature Sarowood Date 50 Signature Assigned to Protection Engineer Remarks OIC 1. REF tot Riber challed Signaturo ED ED P ( 5 841 23 10 2013 Installations Engineer Remarks HOK to Stamp Correct and resubmit For Discussion 1<sup>st</sup> Submittal OK to Stamp Correct and resubmit For Discussion 2"" Submittal Signature IS - (MV - Paul Form) -V7 - 25/11/2008

AANHA TET Qatar General Electricity and Water Corporation المؤسسة العامة القطرية للكهرباء والداء Customer Services Department - Installations Section إدارة خدمات المشتركين - فسم التعديدات MV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرائط لوحات توزيع الجهد المنخفض **General Information Customer Name** BP No. SH. NASER ABDALLAH M.JASIM AL-THANI 6375 Location (Area) Type of Building OLD AIR PORT RESIDENTIAL FLATS Supplier Name Manufacturer Name STREAM INDUSTRIAL & ENGINEERING QATARI GERMAN SWITCHGEAR COMPANY W.L.L Applicant's e-mail info@ggc-gatar.com **Owner Signature/Stamp** Consultant Stamp & Signature 1 Quantity **MV-Panel** Information 2500A ACB Rating Re-New Date Submittal Submittal 1 Short Circuit & \*1 Copy of Stamp & Three Line Copy of Temp Rise test Material Single Line submittal approved Signature Certificate Diagram List Diagram Attachments BP Dielectric Properties, Mechanical Operation & Functional Tests Certificates \* After approving (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp 1- The assurance of compliance of the design and the material, and/or any other attached documents, of this submittat with KAHRAMAA rules and regulations is the sole responsibility of the electrical consultant stamping this form, and the approval provided by KAHRAMAA does not release him from this responsibility. 2- Inquiry Date is 10 work days from date of receipt 3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted For Official Use Only Second Submittal **First Submittal Received Date** Signature Distribution IS E Signature **Received Date** IS/E Signature Received Date 1n 10 Signature Assigned to Protection Engineer Remarks cali NO Schene PEF Protection 04/15/ Signature 7/28/10/2013 EDIEDPICSISS Installations Engineer Remarks **OK to Stamp** Correct and resubmit For Discussion 1<sup>st</sup> Submittal OK-to Stamp Correct and resubmit For Discussion 2<sup>nu</sup> Submittal Signature IS - (MV - Panel and Found

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IS - (MV - Panel App. Form) -- V7 - 25/11/2008

Qatar General Electricity and Water Corporation المومسة العامة القطرية للكهرياء و الدرد Customer Services Department - Installations Section إدارة خدمات المشتركين - أسم التمنيدات MV-Panel Manufacturing Drawings Submittal Form تبوذج تسليم خرائط لوحات توزيع الجهد المتكفض General Information Customer Name AL-JOHARA ABDULLA Z. AL-MAHMOUD BP No. 68975 Location (Area) Type of Building AL-EBB (KHARAITIYAT) VILLA Supplier Name Manufacturer Name GAZZAOUI & PARTNERS QATARI GERMAN SWITCHGEAR COMPANY infoitby an-gatar death Applicant's e-mail Owner Signature/Stamp sultant Stamp S. Signature 1 Quantity MV-Panel 2500A Information ACB Rating Const tch Endo P.O.Bex: 17461 Re-New Date : 4377329- 4877269 Submittal Submittal Fax 4877205, Doha - Qata Short Circuit & "1 Copy of Tamp Rise test Stamo & Three Line Copy of Material Single Line submittal Cartificate Signature approved Diagram 1 int Diagram Attachments BP Dielectric Properties, Mechanical Operation & Functional Tests Certificates \* After approving (signing) the submitted by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stand 1- The assurance of compliance of the design and the material, and/or any other attached documents, of this submittal with KAHRAMAA rules and Important Notice: regulations is the sole responsibility of the electrical consultant stamping this form, and the approval provided by KAHRAMAA does not release him from this responsibility. 3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted For Official Use Only Second Submittal First Submittal **Received Date** 04 7013 Signature Distribution (S E Signature **Received** Date IS E Signature Received Date Signature Assigned to Protection Engineer Remarks Signatu & Har approved for 28 6922 2 21 194935 al scales sch eme REF protection Herite REF Schume representation alapart el DE 1 INN BR KAWER Installations Engineer Remarks OK to Stamp Correct and resubmit For Discussion 1" Submittat **OK to Stamp** Correct and resubmit For Olscussion 2<sup>nd</sup> Submittal J AIW AND Signature BOLEBPICS/ 650/04/07/2015 IS - (MV - Panel App Form) -V7 - 25/11/2008

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 regulations is the sole responsibility of the electrical consultant stamping this form, and the approval provided by KAHRAMAA does not release Inquiry Data is 1+ work days from data of receipt
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# **PROJECT REFERENCE LIST**

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الشركة القطرية الألمانية لتصنيع اللوحات الكهربائية ذ.م.م.

#### 11KV & 3.3KV SWITCHGEAR PROJECT REFERENCE LIST SUPPLIER: QATARI GERMAN SWITCHGEAR CO. (QGC) MANUFACTURER: ELIMSAN-TURKEY

NO.	CLIENT	PROJECT	SPECS.	QTY.	YEAR
1	Qatar General Electricity & Water Corporation	GTC-571/2013 - Two Years Call Off Order for the Supply of Indoor Swichgear	11kV,31.5kA, 800A	1,762	Completed 2016
2	Al Jaber Engineering LLC	Lusail Fox Hills Plot MU-B04 Al Jaber Head Quarter	11kV,31.5kA, 800A	3	Completed 2015
3	Samsung C&T Corporation	Lusail Expressway CP05B	11kV,31.5kA, 800A	17	Completed 2016
4	Votage Engineering LTD	Lusail CP06B	11kV,31.5kA, 800A	20	Completed 2016
5	Midmac Yuksel-JV	Lusail Development Primary Infranstructure- CP04B Road A1,A6 Marina & Southern	11kV,31.5kA, 800A	14	Completed 2016
6	Arabian MEP Contracting	Lusail Marina Com 20 Office Tower (3B+G+27F)	11kV,31.5kA, 800A	4	Completed 2017
7	Al Jaber Engineering LLC	Lusail CP07A-1B Waterfront Commercial-North	11kV,31.5kA, 800A	4	Completed 2016
8	Ertibat Engineering Co. (EEC)	Lusail Marina Com 41 & 43 Twin Tower	11kV,31.5kA, 800A	8	Completed 2016
9	ADC Energy System LLC	Qatar Cool West Bay District Cooling Plant-3	11kV,31.5kA, 800A	26	Completed 2016
10	Midmac-Six Construct JV	Khalifa Stadium at Aspire Zone	11kV,25kA, 800A	67	Completed 2016
11	IGEL	Qatar Cool West Bay District Cooling Plant	11kV,31.5kA, 800A	7	Completed 2016
12	Advanced Engineering & Maintenance Co.	Al Mana Building as per BP#58499 Fereej Bin Mahmoud	11kV,31.5kA, 800A	9	Completed 2015
13	Stream Industrial & Engineering (SIE)	Lusail CP07-C-1B, Commercial Boulevard & Waterfront Commercial District -	11kV,31.5kA, 800A	14	Completed 2019
14	ADC Energy System LLC	Lusail Marina Phase 1 District Cooling Plant	11kV,31.5kA, 800A	22	Completed 2016
15	Mastro Qatar	Sinyar Tower At Dafna - Service Apt (2B+G+52)	11kV,31.5kA, 800A	13	Completed 2016
16	Drake & Scull	Lusail CP13B Wadi Modular District Cooling Plant	11kV,31.5kA, 800A	18	Completed 2016
17	QDVC	Lusail Development Transfer Package CP01-C1- C3	11kV,31.5kA, 800A	18	Completed 2017
18	Qatar District Cooling Co.	Replacement of 11kV Switchgear at Qatar Cool West Bay Distric Cooling Plant-1	11kV,31.5kA, 800A	17	Completed 2017
19	Qatar General Electricity & Water Corporation	GTC-571/2013 - Two Years Call Off Order for the Supply of Indoor Swichgear (Variation)	11kV,31.5kA, 800A	1,806	Completed 2018
20	Abdullah Bin Fahad G.Al-Marri	Lusail Marina Mix 052 Commercial Tower (B+G+7P+13F)	11kV,31.5kA, 800A	3	Completed 2016
21	Stream Industrial & Engineering (SIE)	Lusail CP07-C-1B Commercial Boulevard & Waterfront Commercial District- Variation	11kV,25kA, 800A	6	Completed 2016
22	Qatar Trading Agency	Lusail Marina Mix 50 Office Building (3B+G+22)	11kV,31.5kA, 800A	4	Completed 2016
23	Draeih Contracting	Lusail Marina Mix 36 Burj Damac (B+G+20)	11kV,31.5kA, 800A	3	Completed 2017
24	PAT Engineering	Lusail Residential Tower (B+G+Podium+18F) RES- 005	11kV,31.5kA, 800A	3	Completed 2017

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FULLY PAID CAPITAL QATARI RIYAL: 5,000,000.00 CR. No. 28225, P O. Box. 23661, DOHA, QATAR. TEL. NO.: +974 4460 1992 / 4460 1376 / 4450 4535 FAX. NO.: +974 4460 1676 EMAIL: info@qgc-qatar.com | www.qgc-qatar.com





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الشركة القطرية الألمانية لتصنيع اللوحات الكهربائية ذ.م.م.

#### 11KV & 3.3KV SWITCHGEAR PROJECT REFERENCE LIST SUPPLIER: QATARI GERMAN SWITCHGEAR CO. (QGC) MANUFACTURER: ELIMSAN-TURKEY

NO.	CLIENT	PROJECT	SPECS.	QTY.	YEAR
25	SAMKO International Co.	Milaha Logistic City	11kV,25kA, 800A	25	Completed 2017
26	Combined Group Co. for Trading & Contacting W.L.L.	Lusail Development Primary Infrastructure 5A & 6A	11kV,31.5kA, 800A	140	Completed 2017
27	SAK Trading & Contracting Company	Ezdan Oasis Plot-4 Al Wukair	11kV,31.5kA, 800A	91	Completed 2017
28	Trags Engineering	Al Sendian Tower 2B+g+27F+Penthouse	11kV,31.5kA, 800A	3	Completed 2016
29	Trags Engineering	Commercial Development in Lusail-Marina-Com- 11	11kV,31.5kA, 800A	4	Completed 2016
30	Electro Mechanical Engineering Co.	Energy City Qatar Parcel H-01 Lusail Qatar	11kV,31.5kA, 800A	24	Completed 2017
31	Hassanesco Trading & Contracting	Seef Lusail Presentation Center	11kV,31.5kA, 800A	3	Completed 2017
32	AlBawakir Unicorn Co. W.L.L.	Supply to Infrastructure Development at Lusail Energy City - 1, Lusail City	11kV,31.5kA, 800A	20	Completed 2016
33	Trags Engineering	Commercial Develeopment For Nozul Real Estate at Al Thumama	11kV,31.5kA, 800A	9	Completed 2017
34	ACE Qatar	Supply to Infrastructure Development at Lusail - Qatar Entertainment City	11kV,31.5kA, 800A	16	Completed 2017
35	Omega Engineering W.L.L.	GTC/626/2014 Water Security Mega Resevoirs Packages B PRPS 2 - Umm Slal	11kV,31.5kA, 800A	52	Completed 2018
36	Stream Industrial & Engineering (SIE)	Lusail Development Landscape Works for Crescent Park CP10-E-2	11kV,31.5kA, 800A	7	Completed 2017
37	VAFE JV (Voltas Qatar W.L.L & Hamad & Mohamad Al	Place Vendome Mixed Use Development	11kV,31.5kA, 800A	66	Completed 2017
38	China Harbour Engineering Company LTD.	East Corridor PO11 (Package 2)	11kV,25kA, 800A	32	Completed 2017
39	Al Tawfeeq & Partners Contracting	Supply to ECQ-B-08 Lusail City	11kV,31.5kA, 800A	3	Completed 2018
40	Bawabat Al-Shamal Real Estate / Al-Futtaim Real Estate	Doha Festival City	11kV,31.5kA, 800A	19	Completed 2017
41	Advanced Engineering & Maintenance Co.	Marina Tower Res 11 (2B+G+1P+20 Floors)	11kV,31.5kA, 800A	3	Completed 2017
42	Al Thulathi	Residential Building (2B+G+PLINTH+19F)- Res 009 Marina District	11kV,31.5kA, 800A	3	Completed 2019
43	Trags Engineering	AL KAHLIJI HEADQUARTERS -MARINA MIX-040 (3B+G+26)	11kV,31.5kA, 800A	3	Completed 2017
44	Al Thulathi	Doha Souq	11kV,31.5kA, 800A	10	Completed 2018
45	Qatar General Electricity & Water Corporation	GTC-768/2015A – Three Years Call-Off Agreement for Supply of Indoor Switchgears for	11kV,31.5kA, 800A	696	Completed 2019
46	DOMOPAN QATAR	HOTEL BUILDING AL MIRQAB	11kV,31.5kA, 800A	9	Completed 2017
47	Voltage Engineering Limited	INFRASTRUCTURE FOR LUSAIL PROJECT DEVELOPMENT "CP2" FOX HILLS NORTH &	11kV,31.5kA, 800A	142	Completed 2017
48	Qatar Infrastrucuture	LUSAIL DEVELOPMENT PRIMARY INFRASTRUCTURE PACKAGE CP13-C1	11kV,31.5kA, 800A	4	Completed 2018

PROJECT REFERENCE LIST





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الشركة القطرية الألمانية لتصنيع اللوحات الكهربائية ذ.م.م.

#### 11KV & 3.3KV SWITCHGEAR PROJECT REFERENCE LIST SUPPLIER: QATARI GERMAN SWITCHGEAR CO. (QGC) MANUFACTURER: ELIMSAN-TURKEY

NO.	CLIENT	PROJECT	SPECS.	QTY.	YEAR
49	Draieh Contracting	Proposed 1B+G+2P+21 Storey Serviced Apartment Building at Waterfront Residential 12	11kV,31.5kA, 800A	3	Completed 2017
50	QD-SBG	Dukhan Road ( Khalifa Avenue) East Contract Design Build	11kV,25kA, 800A	27	Completed 2017
51	QD-SBG	Dukhan Road ( Khalifa Avenue) East Contract Design Build	11kV,25kA, 800A	5	Completed 2019
52	Marbu Contracting Co.	Marbu Headquarters Building @ ECQ F11	11kV,31.5kA, 800A	3	Completed 2018
53	Ertibat Engineering Co. (EEC)	HERMAS DEVELOPMENT	11kV,31.5kA, 800A	7	Completed 2019
54	Qatar Building Company	JERY AL SAMUR DEVELOPMENT PROJECT PHASE 2	11kV,25kA, 800A	20	Completed 2018
55	Danat Qatar LLC	AL FARDAN VILLAS	11kV,25kA, 800A	9	Completed 2017
56	Al-Sraiya Engineering Consultants	Commercial Tower ( 3B + G + 19 Floors) Nasser Rashid Suraiya Al Kaabi	11kV,31.5kA, 800A	4	Completed 2017
57	Al-Sraiya Engineering Consultants	ECQ-B11 Office Building	11kV,31.5kA, 800A	3	Completed 2017
58	Mastro Qatar	NEW ORBITAL HIGHWAY & TRUCK ROUTE PROJECT 023 - CONTRACT	11kV,25kA, 800A	10	Completed 2018
59	Qatar Power Construction	LEXUS SHOWROOM	11kV,25kA, 800A	6	Completed 2018
60	Hyundai Engineering & Construction Co.	Lusail Expressway	11kV,25kA, 800A	15	Completed 2021
61	Larsen & Toubro	Al Wakrah Bypass Road EXW- P015	11kV,25kA, 800A	14	Completed 2018
62	Voltage Engineering Limited	MARINA COM 005 JABAL THU AILEB	11kV,31.5kA, 800A	6	Completed 2018
63	RAMACO Trading and Contracting	FJ RESIDENTIAL TOWER PROJECT AT LUSAIL	11kV,31.5kA, 800A	3	Completed 2018
64	AlSaad General Contracting W.L.L.	OFFICE BLDG. (B4+G+M+7) AIRPORT RD. UMM GHUWAILINA	11kV,31.5kA, 800A	9	Completed 2017
65	Voltage Engineering Limited	ORYX INTERNATIONAL SCHOOL (B+G+2)	11kV,25kA, 800A	7	Completed 2018
66	Damac	FOX HILLS PROPOSED RESIDENTIAL DEVELOPMENT PROJECT (B+G+4 F)	11kV,31.5kA, 800A	6	Completed 2018
67	UrbaCon Trading & Contracting	DESIGN & BUILD INFRASTRUCTURE ROADS & LANDSCAPING FOR QEZ-1 RAS BUFONTAS	11kV,31.5kA, 800A	172	Completed 2019
68	Al Bawakir Unicon Co.	THE PEARL	11kV,25kA, 800A	36	Completed 2020
69	The Best Trading & Contracting	BARWA VILLAGE EXPANSION	11kV,25kA, 800A	8	Completed 2017
70	Metrix Qatar WLL	WAREHOUSE AND LOGISTICS PARK	11kV,25kA, 800A	42	Completed 2018
71	Consolidated Contractors Company (CCC)	Musheireb Downtown Doha -Phase 4	11kV,25kA, 800A	33	Completed 2018
72	Generic Engineering Technologies WLL	AL BIDDA PARK	11kV,25kA, 800A	1	Completed 2017

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الشركة القطرية الألمانية لتصنيع اللوحات الكهربائية ذ.م.م.

### 11KV & 3.3KV SWITCHGEAR PROJECT REFERENCE LIST SUPPLIER: QATARI GERMAN SWITCHGEAR CO. (QGC) MANUFACTURER: ELIMSAN-TURKEY

NO.	CLIENT	PROJECT	SPECS.	QTY.	YEAR
73	Midmac Contracting Co.	CP-08A1 QETAIFAN ISLAND SPINE ROAD INFRASTRUCTURE WORKS	11kV,31.5kA, 800A	28	Completed 2018
74	Midmac Contracting Co.	CP-08A2 QETAIFAN ISLAND VILLAS - INFRA & LANDSCAPE WORKS	11kV,31.5kA, 800A	116	Completed 2019
75	Qatar Power Construction	SUPPLY TO B+G+7 RES BLDG FOR BP #97628 NAJMA	11kV,25kA, 800A	7	Completed 2018
76	Qatar Power Construction	Residential 2B+G+4 Fox Hills	11kV,31.5kA, 800A	6	Completed 2018
77	Qatar Power Construction	QATAR ENTERTAINMENT CITY	11kV,31.5kA, 800A	3	Completed 2018
78	Ertibat Engineering Co. (EEC)	DFC COMMERCIAL SHOWROOM AL XHEESA- NORTH ROAD	11kV,25kA, 800A	3	Completed 2018
79	The Best Trading & Contracting	Y Office Tower	11kV,31.5kA, 800A	3	Completed 2019
80	Q-Tec	Al Rayyan Road Project 7; C2	11kV,25kA, 800A	18	Completed 2019
81	Al Thulathi	AL SHAHAD TOWER	11kV,31.5kA, 800A	17	Under Execution
82	Qatar Building Company	ACCESS ROAD TO BU FESSEELA WAREHOUSE AND UMM SALAL CENTRAL MARKET	11kV,25kA, 800A	4	Completed 2019
83	Takyeef	QATAR UNIVERSITY SPORTS & EVENTS COMPLEX	11kV,25kA, 800A	5	Completed 2018
84	Gulf Lights Electrical Engineering	RESIDENTIAL TOWER (2B+G+M+16F)	11kV,31.5kA, 800A	4	Completed 2019
85	Al Seal Contracting & Trading	Al Khariej Tower Lusail (2B+G+15)	11kV,31.5kA, 800A	3	Completed 2019
86	Stream Industrial & Engineering (SIE)	RAYYAN ROAD PROJECT 7: CONTRACT 2 WEST OF OLYMPIC R/A TO WEST OF NEW RAYYAN R/A	11kV,31.5kA, 800A	9	Completed 2019
87	Stream Industrial & Engineering (SIE)	BIRKAT AL AWAMER QS028 - P08 ACCESS ROADS TO AL WAKRAH LOGISTICS CITY	11kV,25kA, 800A	6	Completed 2019
88	QBEC	RAS BUFONTAS	11kV,31.5kA, 800A	6	Completed 2018
89	UrbaCon Trading & Contracting		11kV,31.5kA, 800A	6	Completed 2019
90	Qatar Kentz -SNC Lavalin	District Cooling Plant – West Phase-1, Lusail City Development, Qatar	3.3kV,31.5kA, 800A	19	Completed 2020
91	Qatar Kentz -SNC Lavalin	District Cooling Plant – West Phase-1, Lusail City Development, Qatar	11kV,31.5kA, 800A	36	Completed 2020
92	QBEC	UM ALHOUL ECONOMIC ZONE (QEZ-3)	11kV,31.5kA, 800A	33	Completed 2019
93	Qatar Building Company	Industrial Area - Package 3	11kV,25kA, 800A	12	Completed 2020
94	Omega Engineering W.L.L.	Lusail CP07-B	11kV,31.5kA, 800A	12	Under Execution
95	Pioneer Contracting & Trading Co. W.L.L	OASIS HOTEL	11kV,31.5kA, 800A	13	Completed 2020
96	BO JAMHOOR MECHANICAL & ELECTRICAL CO.	NEW COLLEGE OF LAW BUILDING	11kV,25kA, 800A	7	Completed 2019

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11KV & 3.3KV SWITCHGEAR PROJECT REFERENCE LIST SUPPLIER: QATARI GERMAN SWITCHGEAR CO. (QGC) MANUFACTURER: ELIMSAN-TURKEY

NO.	CLIENT	PROJECT	SPECS.	QTY.	YEAR
97	Shapoorji Pallonji Qatar	Al Shareef Head Quarters ECQ-F07	11kV,31.5kA, 800A	3	Completed 2020
98	Lightning Electromechanical WLL	CP07C1B Car Parks P2 11kV SWG.	11kV,31.5kA, 800A	3	Completed 2019
99	BOOM General Contractors	Kakramaa Customer Contact & AMI Center Thumama	11kV,25kA, 800A	9	Completed 2020
100	Gulf Falcon	Lusail Al Hitmi Fox Hills MU/E08	11kV,31.5kA, 800A	3	Under Execution
101	CONSPEL	KATARA TOWERS AT LUSAIL MARINA DISTRICT - PACKAGE 3	11kV,31.5kA, 800A	36	Under Execution
102	САВТЕСН	QEWR	11kV,31.5kA, 800A	6	Completed 2019
103	Arabian MEP Contracting	AL BAKER TOWER HOTEL 1 & 2	11kV,31.5kA, 800A	19	Under Execution
104	DEBBAS	DESIGN & CONSTRUCTION OF CP07B – LUSAIL PLAZA INFRASTRUCTURE, LRT STATION, PUBLIC	11kV,31.5kA, 800A	16	Under Execution
105	MEGA VOLT AMPERE	AFFORDABLE HOUSING DEVELOPMENT AT SALWA ROAD	11kV,31.5kA, 800A	63	Completed 2020
106	MEGA VOLT AMPERE	PROPOSED SCHOOL (B+G+2) FOR BP#N/2016/3870 -AL THUMAMA	11kV,25kA, 800A	8	Completed 2019
107	Advanced Engineering & Maintenance Co.	BURJ AL MANA COMMERCIAL RESIDENTIAL TOWER AT AL DAFNA	11kV,31.5kA, 800A	15	Under Execution
108	Mega Zero Kelvin	Lusail Fox Hills MU04 & ER43	11kV,31.5kA, 800A	6	Completed 2020
109	Qatar Power Construction	Lusail Fox Hills B18 & D49	11kV,31.5kA, 800A	6	Completed 2020
110	Qatar Power Construction	Hotel Apartment Bldg 3B+G+M+6+P at Al Khail	11kV,25kA, 800A	4	Completed 2020
111	Al Jaber Engineering LLC	ISF Camp at Duhail CPC02 - Shaded Stage Bldg	11kV,25kA, 800A	3	Completed 2020
112	SAK Trading & Contracting Company	Hala Tower	11kV,31.5kA, 800A	10	Completed 2020
113	Al Jaber Engineering LLC	ISF- PERMANENT UTILITIES	11kV,25kA, 800A	4	Completed 2020
114	Voltage Engineering Limited	APARTMENT BUILDING (B+G+3) OLD AIRPORT	11kV,25kA, 800A	6	Completed 2020
115	Raptors	Beema Office Bldg	11kV,31.5kA, 800A	3	Completed 2019
116	Advanced Engineering & Maintenance Co.	Al Mana Headquarters	11kV,31.5kA, 800A	5	Completed 2020
117	Raptors	Al Moez Logistic	11kV,31.5kA, 800A	3	Completed 2019
118	Al Jaber Engineering LLC	ISF Package at Duhail	11kV,25kA, 800A	14	Completed 2020
119	Al Jaber Engineering LLC	CONSTRUCTION OF D LINE TSE PUMPING STATION & TRANSMISSION MAIN C762	11kV,31.5kA, 800A	19	Under Execution
120	Voltage Engineering Limited	LUSAIL CP31	11kV,31.5kA, 800A	247	Under Execution

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#### 11KV & 3.3KV SWITCHGEAR PROJECT REFERENCE LIST SUPPLIER: QATARI GERMAN SWITCHGEAR CO. (QGC) MANUFACTURER: ELIMSAN-TURKEY

NO.	CLIENT	PROJECT	SPECS.	QTY.	YEAR
121	Voltage Engineering Limited	LPS4 THE PEARL QATAR	11kV,31.5kA, 800A	7	Completed 2020
122	RBH	2B+G+2 Khalifa Ali Al Kubaisi Office	11kV,31.5kA, 800A	4	Completed 2020
123	Salam Petroleum	Lusail Fox Hills Res/A34	11kV,31.5kA, 800A	3	Completed 2020
124	GETTCO/ARTIC	Hotel Apartment Tower -Al Dafna	11kV,25kA, 800A	8	Under Execution
125	Midmac Contracting Co.	ENERGY CENTER AND CAR PARK ON PLOT Q (AT HAMAD BIN KHALIFA MEDICAL CITY)	11kV,31.5kA, 800A	65	Under Execution
126	Al Jaber Engineering LLC	CPC 08B ISF TRAINING	11kV,25kA, 800A	3	Completed 2020
127	Qatar Power Construction	SW-ST 1 (20241) & SW-ST 3 (20244) - ENTERTAINMENT CITY	11kV,31.5kA, 800A	8	Under Execution
128	The Best Trading & Contracting	EDESON INTERNATIONAL ACADEMY	11kV,31.5kA, 800A	3	Completed 2020
129	The Best Trading & Contracting	2B+G+1 BLDG FOX HILLS LUSAIL	11kV,31.5kA, 800A	3	Completed 2020
130	Al Jaber Engineering LLC	Stand Alone VCB for D Line TSE Pumping Station	11kV,31.5kA, 800A	4	Under Execution
131	Qatar Power Construction	Plot-4D at Jerry Al Samur Logistics	11kV,25kA, 800A	4	Under Execution
132	Qatar Power Construction	Residential Building	11kV,31.5kA, 800A	10	Under Execution
133	Raptors	Temporary Supply to Plot D4	11kV,31.5kA, 800A	2	Completed 2020
134	Qatar Building Company	Industrial Area - Package 3	11kV,25kA, 800A	6	Under Execution
135	UCC	Seef Lusail Plot D1, D2, D3 & D4	11kV,31.5kA, 800A	17	Under Execution
136	Raptors	AL RAKB (SS-31659)	11kV,31.5kA, 800A	3	Under Execution
137	Industrial Services Group	Al Khor Commercial Center (SS-25252)	11kV,31.5kA, 800A	4	Completed 2020
138	Raptors	READY MIX AND TILES FACTORY MESAIEED	11kV,31.5kA, 800A	3	Under Execution
139	Al-Wattan International Trading & Contracting	Plot AW-LP-B-070 Al Rakb (SS-31709)	11kV,31.5kA, 800A	3	Under Execution
140	Raptors	AL RAKB 121 AW-LP-A-088 (SS-32733)	11kV,31.5kA, 800A	3	Under Execution
141	Radiant Engineering Enterprises	BARWA - LABOUR ACCOMODATION	11kV,31.5kA, 800A	161	Under Execution
142	QEMG	Qetaifan lisland	11kV,31.5kA, 800A	42	Under Execution
143	BK Gulf	Dream Hotel	11kV,25kA, 800A	18	Under Execution
144	POWER EXPERTS	COMMERCIAL BLDG LUSAIL ECQ-D29	11kV,31.5kA, 800A	3	Under Execution

PROJECT REFERENCE LIST

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#### **11KV & 3.3KV SWITCHGEAR PROJECT REFERENCE LIST** SUPPLIER: QATARI GERMAN SWITCHGEAR CO. (QGC) MANUFACTURER: ELIMSAN-TURKEY

NO.	CLIENT	PROJECT	SPECS.	QTY.	YEAR
145	AALCO	AL BIDDA PARK (SS-28839)	11kV,25kA, 800A	1	Under Execution
146	The Best Trading & Contracting	DAMAC SEA VIEW WR.RES-07	11kV,31.5kA, 800A	3	Under Execution
147	MIDMAC-MIC JV	Lusail Plaza Towers Plot 1 & 2	11kV,31.5kA, 800A	74	Under Execution
148	Anel MEP	Lusail Plaza Towers Plot 3 & 4	11kV,31.5kA, 800A	75	Under Execution
149	QEMG	Doha Live	11kV,31.5kA, 800A	12	Under Execution
150	Pegasus	Lusail Erkya R-39 & R-52	11kV,31.5kA, 800A	6	Under Execution
151	MEKDAM	CCTV & Control Bldg at Al Wakara Logistic Park	11kV,31.5kA, 800A	3	Under Execution
152	POLARIS	Gewan Island Plot QQ Marina (SS-35578)	11kV,31.5kA, 800A	5	Under Execution
153	Al Jaber Engineering LLC	CPC02-11A ISF Camp - Equestrian Zone 15	11kV,25kA, 800A	5	Under Execution
154	Al Jaber Engineering LLC	Central Doha & Corniche Beautification Package 2A	11kV,31.5kA, 800A	9	Under Execution
155	Qatar Power Construction	LUSAIL FOX HILLS WOQOD PETROL STATION (SS- 24340)	11kV,31.5kA, 800A	3	Under Execution
156	Qatar Power Construction	AW-LP-A-089 AL RAKB SS-32028	11kV,31.5kA, 800A	4	Under Execution
157	Voltage Engineering Limited	The Pearl - Al Mana Mall 04 LPS 62 - S/S 18570	11kV,31.5kA, 800A	3	Under Execution
158	Pegasus	Factory in Mesaieed - S/S 38256	11kV,31.5kA, 800A	3	Under Execution

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رأس المال ريال قطري مدفوع بالكامل: ٥,٠٠٠,٠٠٠٠٠ ص.ب: ۲۳٦٦١, س.ت: ۲۸۲۲۵ الدوحة - قطر. هاتف: ۲۳٦٦١ / ٤٤٦٠٤٥٣٥ / ١٩٢٢٩٤٤٤٩٢+ فاكس: ١٦٧٦ •٤٤٦ ع٩٧٤+

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