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





INDEX

1. INTRODUCTION

ORGANIZATION CHART

COMPANY REGISTRATION

ISO CERTIFICATE

KM APPROVED ENGINEERS

2. TYPE TEST CERTIFICATES

11KV SWITCHGEAR

LOW VOLTAGE

3. OUR PRODUCTS

11KV SWITCHGEAR MANUFACTURER: ELIMSAN - TURKEY

LOW VOLTAGE QGC FALCON

- 4. OUR SERVICES
- 5. KAHRAMAA PROJECT APPROVALS

11KV SWITCHGEAR MANUFACTURER: ELIMSAN - TURKEY

LOW VOLTAGE QGC FALCON

6. PROJECT REFERENCE LIST

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



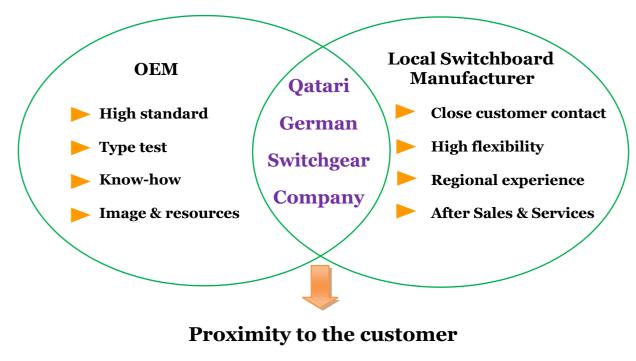
QUALITY PRODUCT

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



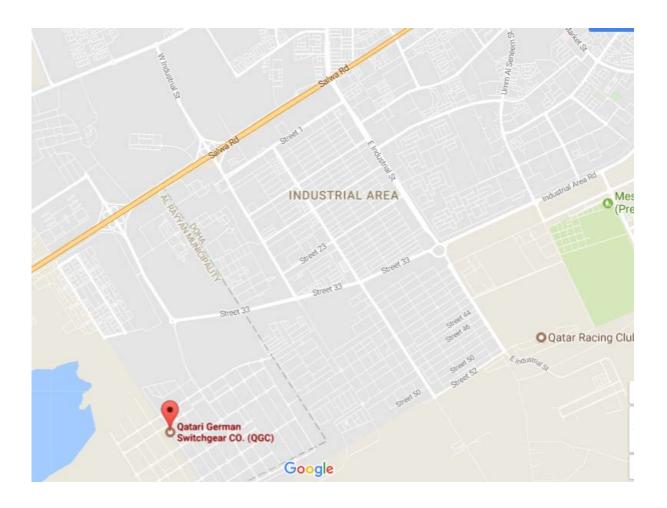


رأس المال ريال قطري مدفوع بالكامل: ٥,٠٠٠,٠٠٠،٥ ص.ب: ٢٣٦٦٦, س.ت: ٢٨٢٢٥ الدوحة - قطر. aاتف: ١٣٧٦ - ٤٤٦ / ٥٣٥ / ٤٤٦ / ١٩٩٢ / ٤٤٥ / ٢٩٩٢ فاكس: ١٦٧٦ • ٤٤٦ ٤٩٧+

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
----------------------------	---	-----------	----	------------

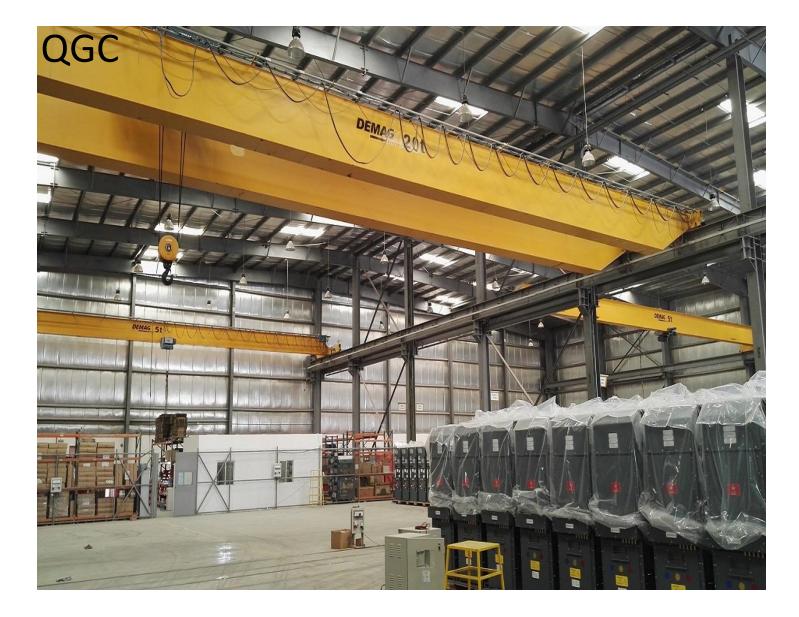
- Existing Built up area : 4452 Sqm
- Shop floor height : 15 mts

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

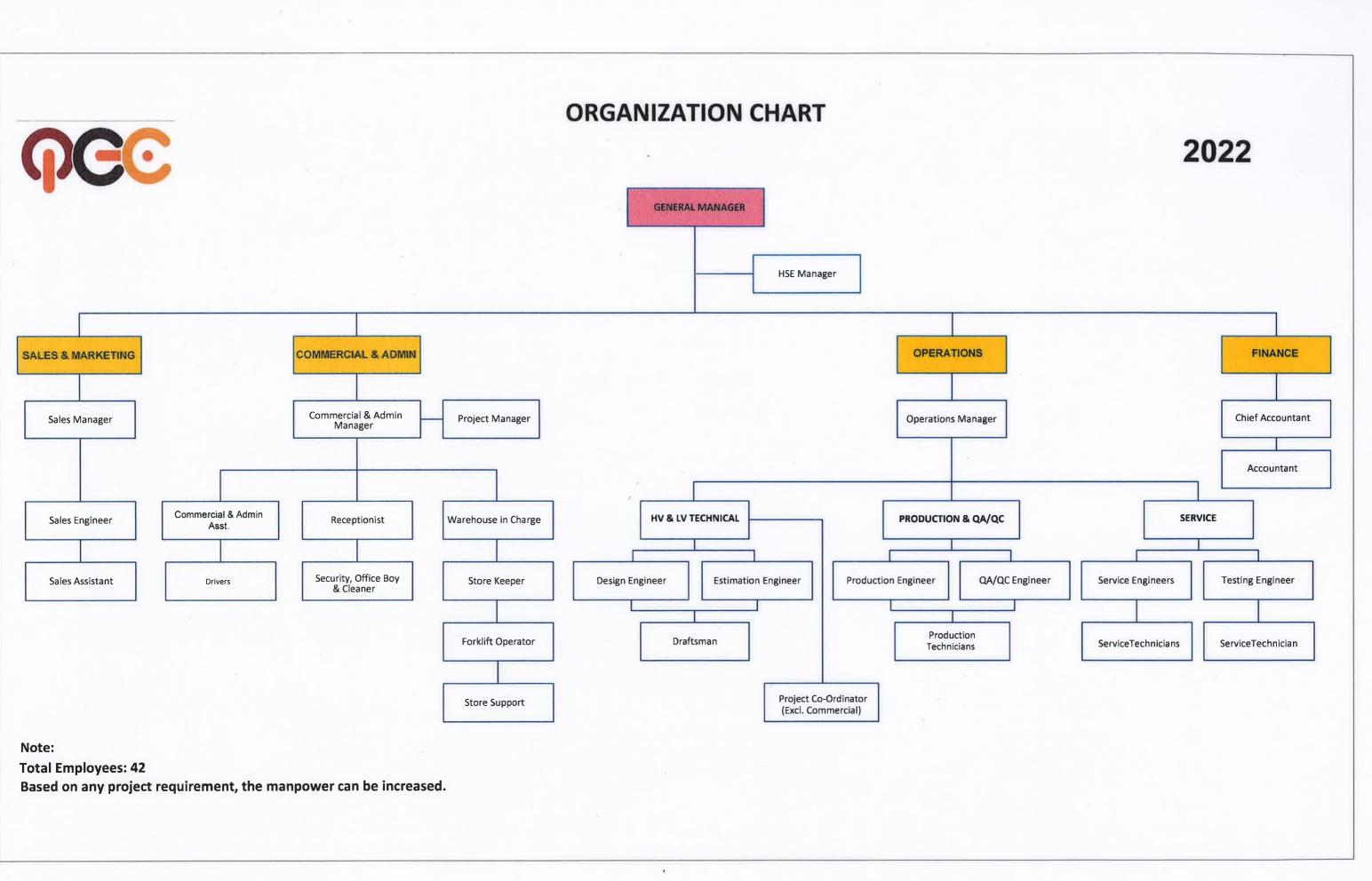


Aerial View of Shop Floor :

- 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				N .	
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

Copyright 2015 by CESI. All rights reserved

Page1

B5011182

÷.							
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)		
	 Bagdat Mah. D-100 Karayolu Cad. No:368 43002 KARTEPE, KOCAELI TURKEY ELİMSAN Salt Cihazlari ve Elektromeka Metal-enclosed air insulated switchgear a one unit Type EMC12QC-02V-140-T5 ec 12 – 150. Basic short-circuit test-duties Single-phase fault tests Single-phase fault tests Single-phase double-carth fault tests Three-phase cable-charging current switch 1EC 62271-100 (2012-09) 	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.

Partial reproduction of this document is permitted only with the written permission from CESI

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

Copyright 2015 by CESI. All rights reserved

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

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

Copyright 2015 by CESI. All rights reserved

Page1/11

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

PAD 85009147 (2088848) - CONFIDENTIAL USE

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

Copyright 2015 by CESI. All rights reserved

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

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	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



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

© Copyright 2015 by CESI. All rights reserved

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

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	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

ACCREDIA

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 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

Copyright 2015 by CESI. All rights reserved

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.		

this document relate only to The Partial reproduction of this document is permitted only with the written permission from CESI.

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



Page1/40

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

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

© Copyright 2015 by CESI. All rights reserved

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

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	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

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

© Copyright 2015 by CESI. All rights reserved

Page1/59

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)				

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

Mod. RPRO V. S

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

Copyright 2014 by CESI. All rights reserved

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				

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

Mod. RPRO v. 8

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

© Copyright 2014 by CESI. All rights reserved



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

© KEMA Quality B.V., Arnhem, The Netherlands. All rights reserved.

It is prohibited to change any and all versions of this document in any manner whatsoever, including but not limited to dividing it into parts. In case of a conflict between the electronic version (e.g. PDF file) and the original paper version provided by KEMA Quality, the latter will prevail.

KEMA Quality B.V. and/or its associated companies disclaim liability for any direct, indirect, consequential or incidental damages that may result from the use of the information or data, or from the inability to use the information or data contained in this document.

The contents of this report may only be transmitted to third parties in its entirety and provided with the copyright notice, prohibition to change, electronic versions' validity notice and disclaimer.

Products may only be provided with a quality mark or put on the market as approved if KEMA Quality B.V. has explicitly granted the right to carry a quality mark.

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



2133222.01-QUA/INC

Page 8 of 106

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.



2133222.01-QUA/INC

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.



2133222.01-QUA/INC

Page 10 of 106

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.



2133222.01-QUA/INC

Page 11 of 106

- 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 Ω which is below the maximum allowed 100 m Ω .

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 μ 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.



2133222.01-QUA/INC

Page 12 of 106

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 ²]
(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.



2133222.01-QUA/INC

Page 13 of 106

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 mm² 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 mm² 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 _{cw} = 65 kA − 3 s	(osc. 2 and 4)
	L3 – N:	I _{cw} = 65 kA − 3 s	(osc. 6 and 8)
Incoming unit Short-time withstand rating (I _{cw}) ACB 3200 A Sace Emax E3	3 phases: L1 – N:	I _{cw} = 65 kA – 3 s I _{cw} = 39 kA – 3 s	(osc. 10 and 13) (osc. 14 and 16)
Conditional short-circuit rating (I _{cc}) ACB 3200 A Sace Emax E3 Remark: neutral is covered by I _{cw} 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 _{cw}) ACB 2500 A Sace Emax E3	3 phases: L1 – N:	I _{cw} = 65 kA − 3 s I _{cw} = 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 _{cc}) ACB 2500 A Sace Emax E3 Remark: neutral is covered by I _{cw} 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.

2133222.01-QUA/INC

Page 14 of 106

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

CONTENTS

Application		
Benefits		2
Typical user	rs	2
Technical D	ata	
Ratings		3
Classifacitio	n, dimensions,	4
room plann	ing	
Product Ra	nge	
Panels		5
Design		
Design Panel Desig	n	6
Panel Desig	n ents, interlocks,	6 7
Panel Desig		, i
Panel Desig Compartme	ents, interlocks,	, i
Panel Desig Compartme operation	ents, interlocks, of Design	7
Panel Desig Compartme operation Advantage Circuit Brea	ents, interlocks, of Design	7
Panel Desig Compartme operation Advantage Circuit Brea	ents, interlocks, of Design ker	7 8 13
Panel Desig Compartme operation Advantage Circuit Brea	ents, interlocks, of Design ker	7 8 13
Panel Desig Compartme operation Advantage Circuit Brea EMC12 Cor Standards	ents, interlocks, of Design ker	7 8 13
Panel Desig Compartme operation Advantage Circuit Brea EMC12 Cor Standards	ents, interlocks, of Design ker npartments	7 8 13 16
Panel Desig Compartme operation Advantage Circuit Brea EMC12 Cor Standards Standards, s	ents, interlocks, of Design ker npartments	7 8 13 16

Benefits, Typical uses

i. Save lives

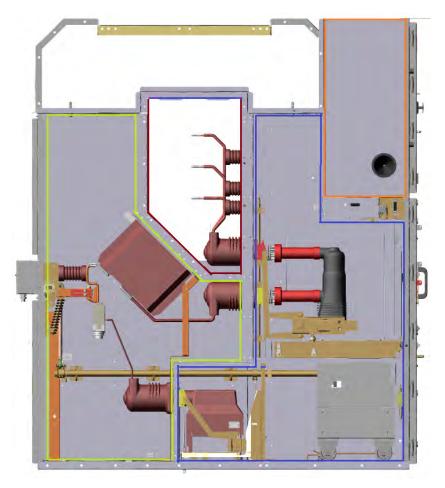
ii. Peace of minds

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

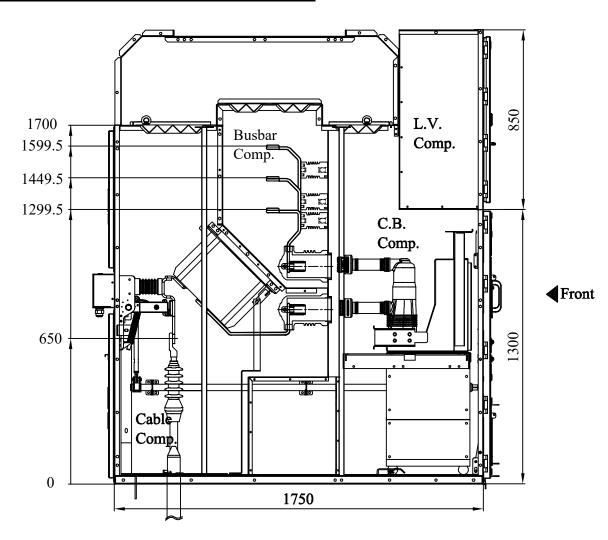
Technical Data

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

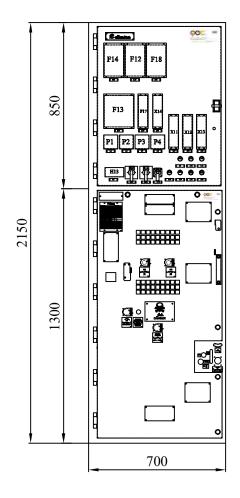


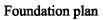
Classifaciton of the EMC12 according to IEC 62271-200

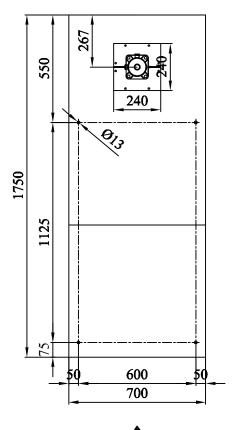
Internal arc classification		
Classification		IAC
Accessibility		
-Front		Туре А
-Rear		Туре А
-Lateral		Туре А
Test current	kA	31.5
Test duration	S	1

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

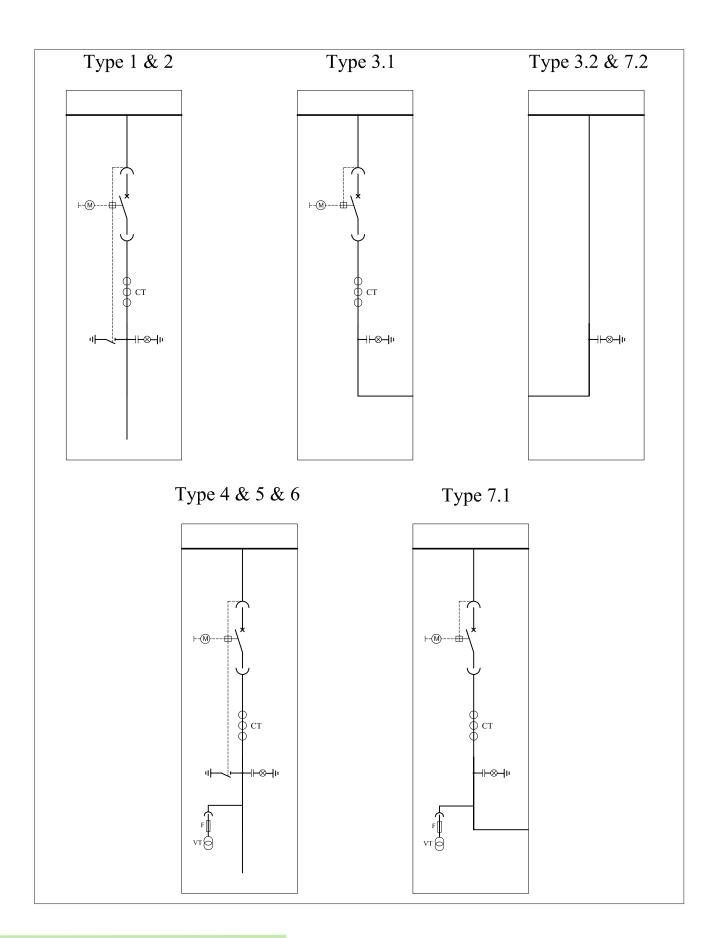


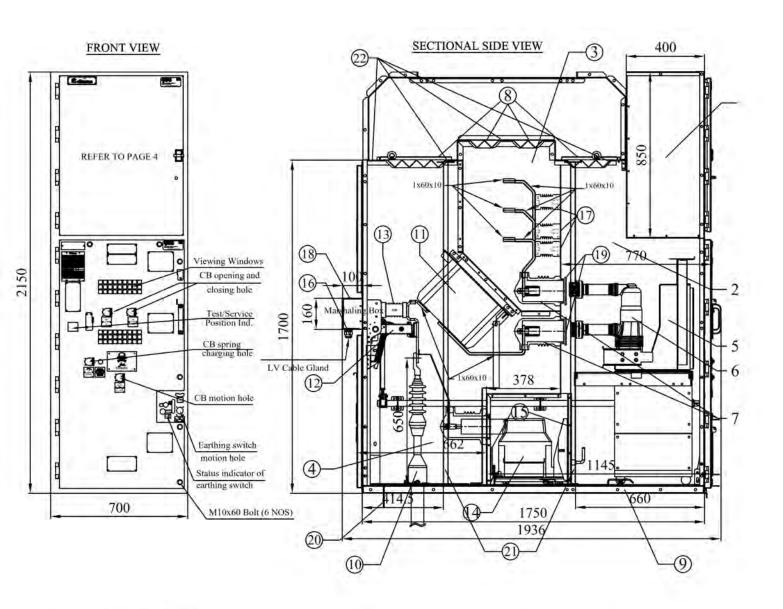




Front

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.

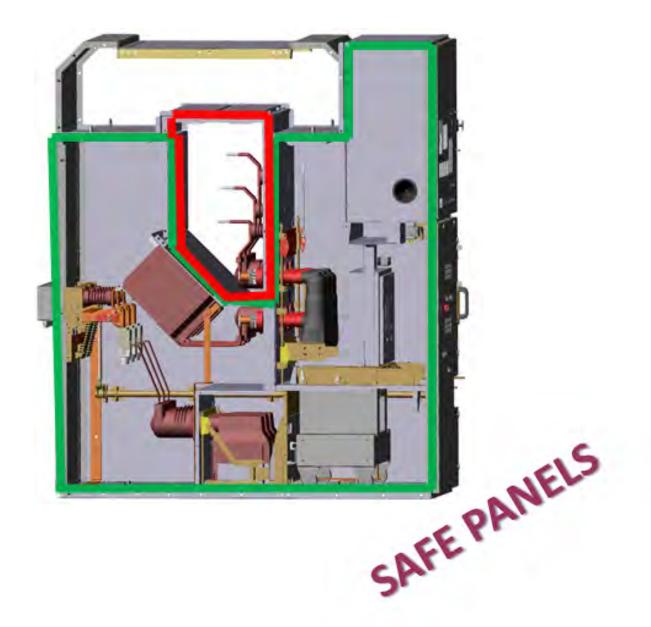
Interlocks

- ✓ 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.

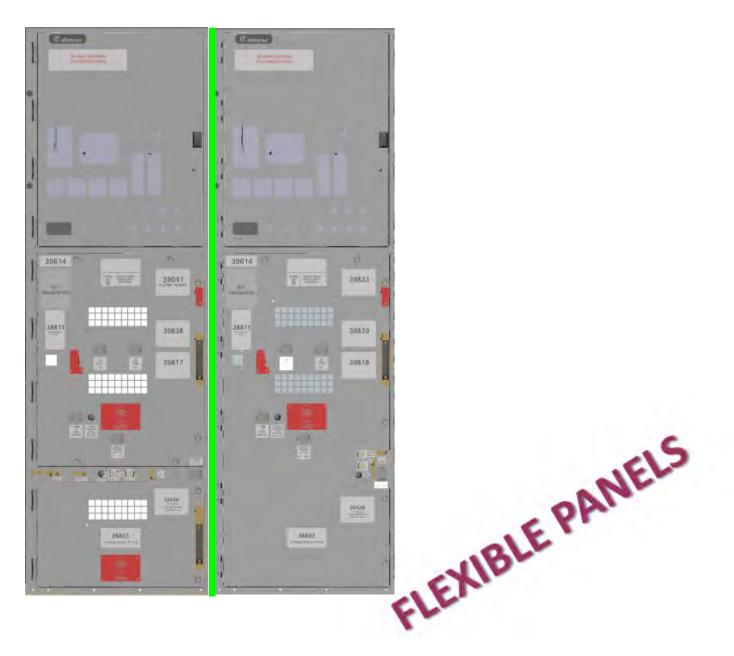
- 1- Identical Design for 25 kA 31,5 kA Panels
- > Interchangeability of all components
- Same spare parts and accessories
- Same operations and maintenance
- Flexibility for Replacement
- Flexibility for Switchboard Alignment
- Flexibility for Stock Usage



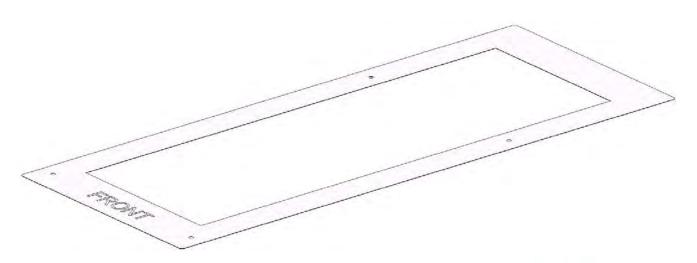
- 2- Safe Access to Cable & CB Chamber with live busbars
 - Safe Access to VCB Chamber with Live Busbars as per KM Requirement
 - Safe Access to Cable Chamber with Live Busbars in Addition to KM requirement.



- 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
 All switching operations including emergency manual operations with high-voltage door closed
 Interlocking between high-voltage door and switching devices
• 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
 Type testing of the circuit-breaker inside the panel
 Use of standard, worldwide available components
Use of maintenance-free vacuum circuit-breakers
 Quality management according to ISO 9001
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.

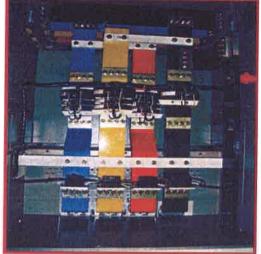
The exclusive use of high-quality FALCON switchgear ensures a long service endurance and reliable operation.

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.

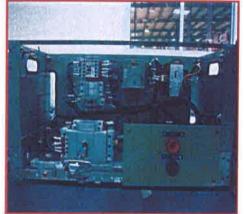
The draw out can be brought into test position, where the main circuit is disconnected while the control circuit is still connected. This gives the possibilities of testing the control circuit in each compartment separately.

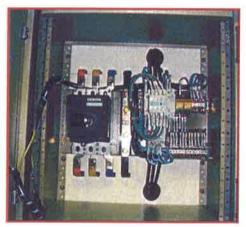
Modular Design

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



-11

s confident ne intendec telephone. iormat u are no e-mail contain in nder. If you sender by copied to anyon any attachments communication. and

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	 Type 1: T1 Standard BB earthing panel: TE.
	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.

Disclaimer: This Fax and any attachments may contain information which is confidential. copied to anyone without the approval of the sender. If you are not one of the intended re any attachments, and all copies, and notify the sender by e-mail or Fax or telephone. Co communication.

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	

Disclaimer: This Fax and any attachments may contain information which is confidential copied to anyone without the approval of the sender. If you are not one of the intended real any attachments, and all copies, and notify the sender by e-mail or Fax or telephone. Co communication.

، 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.

xxxxxxxxxxXENDxxxxxxxxxxxxxx



Disclaimer: This Fax and any attachments may contain information which is confidential, copied to anyone without the approval of the sender. If you are not one of the intended re any attachments, and all copies, and notify the sender by e-mail or Fax or telephone. Co

، سرية، يجب آن لا يوزعا أو يكشف مضمونهما و/أو نسخهما لأي كان من دون موافقة المرسل. إذا لم تكن واحداً من الأ ق الخالاً، يرجى إرجاع الرسالة مع ملحقاتها لنضادً عن إتلا في جميع نسخها. وبعاً ذلك، يرجى الأجالم تكن واحداً من ال - سرية المعلومات أو ي1929-2013 بسيب خطاً ناجم عن إرسال 1998ها الناكس لأشخاص غير م1971-1989 بالمرسل عب







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	



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192

20/02/2014



Qatar General Electricity & Water Corporation

.||

	(25 KA)-PILOT-30V DC -	FMW C	OMPA	СТ	
tem	Description	Unit	Qty	Unit Price	Total Price
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		



 $P_*O. \ Box: 41, \ Doha-Qatar, \ Tel: \ (974) \ 44845150 \quad Fax: \ (974) \ 44845192$

20/02/2014



المؤسسة العامة القطرية للكرمب ، والماء Qatar General Electricity & Water Corporation

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



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192



الموسية العامة القطرية للكرمب ، والماء Qatar General Electricity & Water Corporation

			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	Total Price		
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				



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192

20/02/2014

لحب



المؤسسة العامة القطرية للكرمب ، والماء Qatar General Electricity & Water Corporation

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



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192

20/02/2014



الموسية العامة القطرية للكرمب ، والماء Qatar General Electricity & Water Corporation

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

20/02/2014



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192



المؤسسة العامة القطرية للكهب ءوالماء

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		



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192



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	



P. O. Box : 41, Doha - Qatar, Tel : (974) 44845150 Fax : (974) 44845192



المؤسسة العامة القطرية للكرمب ، والماء Qatar General Electricity & Water Corporation المو

.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	Total Price
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		

P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192



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		



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192

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	



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192



المؤسسة العامة القطرية للكرمب ، والماء Qatar General Electricity & Water Corporation

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	Total Price
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	Total Price		
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				



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192



المؤسسة العامة القطرية للكهرب ءوالماء

Qatar General Electricity & Water Corporation

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



 $P_{*} \ O. \ Box: 41, \ Doha-Qatar, \ Tel: \ (974) \ 44845150 \quad Fax: \ (974) \ 44845192$



المنوب ... العامة القطرية للكرمب ، والماء Qatar General Electricity & Water Corporation

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	Total Price	
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			



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192



المؤسسة العامة القطرية للكهرب ءوالماء

Qatar General Electricity & Water Corporation

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.



 $P. \ O. \ Box: 41, \ Doha-Qatar, \ Tel: \ (974) \ 44845150 \quad Fax: \ (974) \ 44845192$



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).



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192

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)



P. O. Box : 41, Doha - Qatar, Tel : (974) 44845150 Fax : (974) 44845192

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		



P. O. Box : 41, Doha - Qatar, Tel : (974) 44845150 Fax : (974) 44845192



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	-	



P. O. Box : 41, Doha - Qatar, Tel : (974) 44845150 Fax : (974) 44845192

(I) CARGE (I)



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			



P. O. Box : 41, Doha - Qatar, Tel : (974) 44845150 Fax : (974) 44845192



Г

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	



CITT

P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192

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		



P. O. Box : 41, Doha - Qatar, Tel : (974) 44845150 Fax : (974) 44845192

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	-	



P. O. Box : 41, Doha - Qatar, Tel : (974) 44845150 Fax : (974) 44845192

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				



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192

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						



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192



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	



P. O. Box : 41, Doha – Qatar, Tel : (974) 44845150 Fax : (974) 44845192



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 2nd 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.



P. O. Box : 41, Doha - Qatar, Tel : (974) 44845150 Fax : (974) 44845192



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.



P. O. Box : 41, Doha - Qatar, Tel : (974) 44845150 Fax : (974) 44845192



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	
------	------------	---------	---------------	-----------------------	------------------------------------	---	------------------------------	--

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

Disclaimer: This Fax and any attachments may contain information which is confidential. They should not be distributed, disclosed or copied to anyone without the approval of the sender. If you are not one of the intended recipients of this Fax, please return the Fax and any attachments, and all copies, and notify the sender by e-mail or Fax or telephone. Confidentiality is not waived or lost by mistaken communication.

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 تنقد سرية الملومات أو يتنازل عنها سبب خطأ ناجم عن إرسال وتوجيه الناكس في تقد في من من مون موافقة المرسل.





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
------	--------------	---------	---------------	-----------------------	------------------------------------	----	------------------------------

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

Disclaimer: This Fax and any attachments may contain information which is confidential. They should not be distributed, disclosed or copied to anyone without the approval of the sender. If you are not one of the intended recipients of this Fax, please return the Fax and any attachments, and all copies, and notify the sender by e-mail or Fax or telephone. Confidentiality is not waived or lost by mistaken communication.

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 الخطاً، 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 سبب خطأ ناجم عن إرسال وتوجيه الفاكس في تقد فحيم نسخها. وبعد ذلك، يرجى الاتصال بالمرسل عبر البريد





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	
------	------------	---------	---------------	-----------------------	------------------------------------	----	------------------------------	--

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

Disclaimer: This Fax and any attachments may contain information which is confidential. They should not be distributed, disclosed or copied to anyone without the approval of the sender. If you are not one of the intended recipients of this Fax, please return the Fax and any attachments, and all copies, and notify the sender by e-mail or Fax or telephone. Confidentiality is not waived or lost by mistaken communication.

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 الخطاً، 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 سبب خطأ ناجم عن إرسال وتوجيه الفاكس في تقد فحيم نسخها. وبعد ذلك، يرجى الاتصال بالمرسل عبر البريد







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	
------	------------	---------	---------------	-----------------------	------------------------------------	---	------------------------------	--

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

Disclaimer: This Fax and any attachments may contain information which is confidential. They should not be distributed, disclosed or copied to anyone without the approval of the sender. If you are not one of the intended recipients of this Fax, please return the Fax and any attachments, and all copies, and notify the sender by e-mail or Fax or telephone. Confidentiality is not waived or lost by mistaken communication.

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:	#0012738 - 07/29/2021	Number of pages including cover	1	عدد الصفحات متضمنة الغلاف	
------	------------	---------	---------------	-----------------------	------------------------------------	---	------------------------------	--

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.

Interna

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

Disclaimer: This Fax and any attachments may contain information which is confidential. They should not be distributed, disclosed or copied to anyone without the approval of the sender. If you are not one of the intended recipients of this Fax, please return the Fax and any attachments, and all copies, and notify the sender by e-mail or Fax or telephone. Confidentiality is not waived or lost by mistaken communication.

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	
------	------------	---------	---------------	-----------------------	------------------------------------	---	------------------------------	--

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.

Interna

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

Disclaimer: This Fax and any attachments may contain information which is confidential. They should not be distributed, disclosed or copied to anyone without the approval of the sender. If you are not one of the intended recipients of this Fax, please return the Fax and any attachments, and all copies, and notify the sender by e-mail or Fax or telephone. Confidentiality is not waived or lost by mistaken communication.

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	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
------	------------	---------	---------------	-----------------------	------------------------------------	---	------------------------------

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.

Interna

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

Disclaimer: This Fax and any attachments may contain information which is confidential. They should not be distributed, disclosed or copied to anyone without the approval of the sender. If you are not one of the intended recipients of this Fax, please return the Fax and any attachments, and all copies, and notify the sender by e-mail or Fax or telephone. Confidentiality is not waived or lost by mistaken communication.

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 الخطاً، 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 سبب خطأ ناجم عن إرسال وتوجيه الفاكس في تقد فجهه تشخها. وبعد ذلك، يرجى الاتصال بالمرسل عبر البريد



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		
Engli	Distributio	n Stgnature	Received		ttal	Secon Received Date	d Submittal		
Assigned Protection	to n Engineer F	Signature Remarks (2)	412/2015	Date	IS E Signature	Received Date	IS E Signature		
Assigned	to n Engineer F	Stignature Remarks (2)	412/2015 ne tr	Date	S E Signature	Received Date	IS E Signature		
Assigned Protection	to n Engineer F	signature Remarks (2)	412/2015 ne tr	Date	IS E Signature	Received Date	IS E Signature		
Assigned Protection	to n Engineer F Proken	signature Remarks (2)	UNDAR	Date) Checkee (3859	S E Signature	Received Date	IS E Signature		
Assigned Protection	to Engineer F Proketi Ins Engineer	Remarks (2) r Remarks	UILIZANS ne tr DEDR ION	Date	S E Signature	Received Date	IS E Signature		



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

			Ge	neral Infor	rmation					
BP No. 84752	and a constant			Cu	stomer Name IEIKHA MARIAM	SULTAN AL-	KAWARI			
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.			
regulations is from this resp	the sole responsions to the sole responsion to the sole response to the sole of the sole o	of the design and sibility of the electri om date of receipt by the second sub	ical consultan t	it stamping this	s form, and the appro	var provided by h	tal with KAHRAMAA rules and KAHRAMAA does not release him			
			Fo	or Official L		12				
	Received D	ate	T		Jse Only	12	cond Submittal			
W. Hessa	Signature Distributio	5.6.205	T	or Official L First Sub	Jse Only	12				
Assigne	Signature Distributio	5.6.2015 on Stgnature	-	or Official L First Sub	Jse Only mittal	Sec				
Hessa Assigne Protectic * REF (Signature Distribution of to Distribution on Engineer I Protection	5.6.2015 Istgnature Remarks	Received	Date	Jse Only mittal	Received Da				
Protectic * REF (Installati	Signature Distribution and to on Engineer F protection of 1 1 1000	5.6. 2015 Signature Remarks Scheme r Remarks	Received	Date	Jse Only mittal IS E Signature	Received Da	IS E Signature			
Protectic * REF (Installatl 1 st Subm	Signature Distribution an Engineer F Micclim of 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.6.205 on Signature Remarks Scheme r Remarks For Discussion	Received	Date	Jse Only mittal IS E Signature	Received Da	IS E Signature			
Protectic * REF (Installati	Signature Distribution an Engineer F Micclim of 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.6. 2015 Signature Remarks Scheme r Remarks	Received	Date	Jse Only mittal IS E Signature	Received Da	IS E Signature			
Protection Assigned Protection Assigned Protection Assigned Protection Assigned Protection Assigned Assign	Signature Distribution an Engineer F Micclim of 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.6. 205 on Signature Remarks Scheme For Discussi For Discussi	Received	Date	Jse Only mittal IS E Signature	Received Da	IS E Signature			

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		
	BP Dielectric Pro	artice Machar	nical Operatio	on & Function	al Tests Certificates	ginal should be subm			
him from this r	responsibility.	om date of rece	ipt ubmittal a nev		a new form is to be		IRAMAA does not relea		
r	Received Da	10	T	First Subr		Second	I Submittal		
Eng-Al Assigned	Signature	Partin	15 Received	i Date	IS E Signature	Received Date	IS E Signature		
Protectio	n Engineer F	a management of the second s			6	2	\sim		
* REF	Protect	n'on scl	none	s cheef		nd &	Signature	, ofoghow	
1000			EDIER	DRICE 3	132/10/08/	2015	Signature		
1 st Submi	ons Enginee	r Remarks For Discuss	ion	Cor	rect and resubn	nit [OK to Stamp		
2 nd Subm		For Discuss		Cor	rect and resubn		OK to Stamp		
Super Super	how	fh (206	h Si	2e	618/15	10 pm	il	
		terra	13		11	1	A CARLER OF		
IS - (MV - Panel	June App Form) - V7 -	<u>l Cons</u> 25/11/2008	Rep-au	1519	up & Sig		1.111		



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

			Ge	eneral Info	ormation				
P No.					Customer Name				
094					SALAM INTERNA	TIONAL			
ype of Build	ding				Location (Area)				
	ALL (THE GA	TE)			ONAIZAH				
anufacture	r Name MAN SWITC	HGEAR COM	MPANY		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		
V-Panel			-		S Signa	iture (2/11		
normation	ACB Rating	1600A					3/2-1		
New Submittal √	Re- Submitta	al Dat	te		Contraction of the				
ttachments	Copy of approved	Single Line Diagram	Material List	Three Li Diagrar		*1 Copy of submittal	Short Circuit & Temp Rise test Certificate		
machments	BP Dielectric Bron	-		1	onal Tests Certificate	3	Gortinicato		
 Inquiry Date is If the material 	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			
	Received Da				Use Only		d Submittal		
	Received Da 8 · 20 Signature Distribution	te See	Fo	First Su	Use Only		d Submittal IS E Signature		
q. Eng. Ag Assigned	Received Da 8 · 20 Signature Distribution	te V V Signature	Fo	First Su	Use Only bmittal	Second			
q. Eng. Ag Assigned	Received Da 8 · 20 Signature Distribution 10/114 10 n Engineer R Profect	te Signature remarks	Fo 60 Received	Profficial First Su 8/14 Date	Use Only bmittal IS E Signature	Second Received Date	IS E Signature		
9. FA2 Ad Assigned Protection * Ref	Received Da 8 · 20 Signature Distribution 10/114 10 n Engineer R Profect	te Signature emarks Ton Sch	Fo 60 Received	Profficial First Su 8/14 Date	Use Only bmittal IS E Signature	Second Received Date			
9. FA2 Ad Assigned Protection * Ref	Received Da 8 · 20 Signature Distribution 1 to n Engineer R Project ons Engineer	te Signature emarks Ton Sch	Fo Fo Received P/CDR/	r Official First Su 8//4 Date	Use Only bmittal IS E Signature	Second Received Date	IS E Signature		
9. Fng. Af Assigned Protection * REF for Installation	Received Da 8 · 20 Signature Distribution 1 to n Engineer R Project ons Engineer ittal	te Signature temarks Ton Sch Remarks	Fo Fo Received Preceived Preceived	BING BING Date	Use Only bmittal IS E Signature	Received Date	IS E Signature		



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				
QATARI GER	MAN SWITC	HGEAR CO	MPANY		STREAM INDUSTRIAL & ENGINEERING				
Applicant's e	-mail in	fo@qgc-qata	r.com.				1.0		
	-	1 . 1	- i - i		SU'Consultant	Stamp & Own	ner Signature/Stamp		
VV-Panel	Quantity	1			Sigoan	ure)			
nformation	ACB Rating	1600A							
New	Re-		ate	* AL					
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.		
			Fo	or Official Use	Only				
	Received Da	ate		First Submit	tal	Second	Submittal		
a.2.	2015								
, 0	Signature	Reem							
	Distributio								
Eng Abd Assigned	NAL (46/8/	Received	Date 1	S E Signature	Received Date	IS E Signature		
		Signature	1				0		
the second second second second second second second second second second second second second second second se	n Engineer l			cheep	1 100 to	1 & Good			
	Protectus	n orner			Very	10-	Signature 24		
oh jol	08 2015		EDIEDI	2 (2) 343	10 08 201	5	Signature '		
Installatio	ons Enginee								
1 st Submi	ttal	For Discuss	sion	Correc	t and resubmi	it .	OK to Stamp		
2 nd Subm	ittal	For Discuss	sion	Correc	t and resubmi	it 💋	OK to Stamp		
54	·N F	ME	arbin	cab!	esiz	ef.	1618115		
he	yeriout	Consult	and sk	4.p8 5	esiz	40	1 sent		
				N	-	Sic	antare		
IS – (MV – Panel A	App. Form) –V7 –	25/11/2008		1	22 /11		AMB		
				2	142/12				



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
--	---------	-------	-------	-------	-------	-------	----	----

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 1st Submittal OK to Stamp Correct and resubmit For Discussion 2nd 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>

and the second second second second second second second second second second second second second second second			Ger	ieral Infor	nation		allet make man when the state of the
BP No. 82836				PU		UTHORITY (BL	JILDING AFFAIRS)
Type of Build AQUATIC & F	ling ISHERIES F	RESEARCH C	ENTER	AL-	ation (Area) KHOR		
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
New Submittal √	Re- Submit	tal Dat	ie			munt	المعنية الأشغال المامة المعنية الأشغال المامة PUBLIC WORKS AUTHORNY
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
	-			Official U			
	Received D	Date		First Subm	ittal	Secor	nd Submittal
	Distributi	Been	Received D)ate	Xa har	Received Date	IS E Signature
Assigne			1				
while	9	the cts	ED/EDP	1 cos/32	wnfr.d 18/17/05/3	as per cati	Amp Signatures
Installati	ons Engine	er Remarks		-			1 OK to Stamp
1 st Subm	ittal	For Discuss	sion	<u> </u>	ect and resubi		
2 nd Subn	nittal	For Discuss	sion /	Corr	ect and resubi	nit	OK to Stamp
		111 12	C	\sim	0		

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

				mation		
			SHI		ALI AHMAD AL A	HMAD AL THANI
ling			Loc MU	ation (Area) RAIKH – AL RA	YYAN	
Name		APANY W.I		ZZAOUI & PAR	TNERS	
				Consultant	Stamp & Own	er Signature/Stamp
Quantity	1					
	20007		d	18	lyn	-0
	tal Da	te		MZ&P/	ARTN	
				Architectural & Engli	neering Consultanity vv.	L.L.
				1		Short Circuit &
Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Signature	submittal	Temp Rise test Certificate
Dielectric Pro	perties, Mecha	nical Operatio	on & Functional	Tests Certificates	ninal should be submi	tted for final stamp.
onsibility.	and the stands	ipt ubmittal a new	v submittal with	a new form is to be :		
		F	or Official U	Ise Only		
Received D	ate		First Subr	nittal	Secon	d Submittal
Signature	5 geen	-				
Distributio		Receive	d Date	IS E Signature	Received Date	IS E Signature
ito 2	on Signature	Receive	d Date	IS E Signature	Received Date	IS E Signature
n Engineer	y signature Remarks 5			nel as pay	- Calculation	
n Engineer	Remarks	Vikghall	be vent	inel as por		
n Engineer	Remarks	Vikghall	be Ven	26/04/295	Calculation 16/042015	Signature
n Engineer	Remarks	VKghan ED/EDP/	be Ven	26/04/295	Calculahos Calculahos Calculahos nit	Signature
n Engineer Techna	Remarks Remarks The CT The CT	Vikgham ED/EDP/ sion	be Ven	26 04 295 rect and resubr	Calculahos 161012015	Signature
	-mail in Quantity ACB Rating ACB Rating Re- Submitt Copy of approved BP Dielectric Pro (signing) the su e of compliance the sole respons- onsibility. 10 work days I is not approved Received D	OUND Name MAN SWITCHGEAR COM -mail info@qgc-qatar Quantity 1 ACB Rating 2500A Submittal Da Copy of approved BP Single Line Diagram Dielectric Properties, Mechar (signing) the submittal by the IS exponsibility of the electronsibility.	OUND r Name MAN SWITCHGEAR COMPANY W. -mail info@qqc-qatar.com. Quantity 1 ACB Rating 2500A BP Date Copy of approved BP Diagram Dielectric Properties, Mechanical Operatic (signing) the submittal by the IS engineer, two etc. a of compliance of the design and the material he sole responsibility of the electrical consulta onsibility. 10 work days from date of receipt is not approved by the second submittal a new F Received Date U · Watta	SHI ling Loc OUND MU r Name Sup MAN SWITCHGEAR COMPANY W.L.L GA -mail info@qqc-qatar.com. Quantity 1 ACB Rating 2500A Re- Date Submittal Date Copy of approved BP Single Line Diagram Dielectric Properties, Mechanical Operation & Functionar (signing) the submittal by the IS engineer, two extra copies (per esponsibility of the electrical consultant stamping this onsibility. 10 work days from date of receipt is not approved by the second submittal a new submittal with For Official U Received Date	SHEIKH NASSER / Ining Location (Area) MURAIKH – AL RA Supplier Name GAZZAOUI & PAR -mail info@qgc-qatar.com. Quantity 1 ACB Rating 2500A Image: Consultant Signat Re-Submittal Date Image: Consultant Signat Copy of approved BP Date Image: Consultant Signature Diagram List Three Line Stamp & Signature Dielectric Properties, Mechanical Operation & Functional Tests Certificates Signature e of compliance of the design and the material, and/or any other attached document the sole responsibility of the electrical consultant stamping this form, and the appropriation is not approved by the second submittal a new submittal with a new form is to be stand the appropriation of the other of the consultant stamping this form, and the appropriation of the other of the sole responsibility of the electrical consultant stamping this form, and the appropriation is not approved by the second submittal a new submittal with a new form is to be stand the appropriation of the approved submittal a new submittal with a new form is to be stand to approve the second submittal a new submittal with a new form is to be stand to approve the second submittal a new submittal with a new form is to be stand to approve the second submittal a new submittal <td>SHEIKH NASSER ALI AHMAD AL A Ling Location (Area) OUND MURAIKH – AL RAYYAN Supplier Name GAZZAOUI & PARTNERS -mail info@qqc-qatar.com. Quantity 1 ACB Rating 2500A Re- Date Submittal Date Re- Date Copy of approved BP Diagram Diagram List Dialectric Properties, Mechanical Operation & Functional Tests Certificates (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submittal with a new form is to be submitted ei or compliance of the design and the material, and/or any other attached documents, of this submittal with a new form is to be submitted For Official Use Only For Official Use Only Received Date First Submittal</td>	SHEIKH NASSER ALI AHMAD AL A Ling Location (Area) OUND MURAIKH – AL RAYYAN Supplier Name GAZZAOUI & PARTNERS -mail info@qqc-qatar.com. Quantity 1 ACB Rating 2500A Re- Date Submittal Date Re- Date Copy of approved BP Diagram Diagram List Dialectric Properties, Mechanical Operation & Functional Tests Certificates (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submittal with a new form is to be submitted ei or compliance of the design and the material, and/or any other attached documents, of this submittal with a new form is to be submitted For Official Use Only For Official Use Only Received Date First Submittal

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
* After approving (signing) the submittal by the IS er	al Operation & Punctio	(photocopy) of the orig	inal should be submit	ted for final stamp.
from this responsibility. 2-Inquiry Date is 10 work days from date of receipt				
3- If the material is not approved by the second sub			ubmitted	
3- If the material is not approved by the second sub	For Official	Use Only		Submittal
3- If the material is not approved by the second sub-		Use Only		I Submittal IS E Signature
3- If the material is not approved by the second sub-	For Official First Su	l Use Only	Second	
3- If the material is not approved by the second sub-	For Official First Su Received Date	I Use Only Ibmittal	Second Received Date	
3- If the material is not approved by the second sub- Received Date Signature Distribution Assigned to Protection Engineer Remarks While to the Gradient Content of	For Official First Su Received Date	I Use Only Ibmittal IS E Signature	Second	
3- If the material is not approved by the second sub- Received Date Signature Distribution Assigned to Protection Engineer Remarks United Techno the California Installations Engineer Remarks	For Official First Su Received Date	I Use Only Ibmittal IS E Signature	Second Received Date	IS E Signature
3- If the material is not approved by the second sub- Received Date Signature Distribution Assigned to Protection Engineer Remarks while to the comparison of the c	For Official First Su Received Date	I Use Only Ibmittal IS E Signature	Second Received Date	IS E Signature
3- If the material is not approved by the second sub- Received Date Signature Distribution Assigned to Signature Protection Engineer Remarks Note Protection Engineer Remarks Installations Engineer Remarks Ist Submittal For Discussion 2 ^{au} Submittal For Discussion	For Official First Su Received Date	I Use Only Ibmittal IS E Signature	Second Received Date	IS E Signature
3- If the material is not approved by the second sub- Received Date Signature Distribution Assigned to Signature Protection Engineer Remarks Note Protection Engineer Remarks Installations Engineer Remarks Ist Submittal For Discussion 2 ^{au} Submittal For Discussion	For Official First Su Received Date	I Use Only Ibmittal IS E Signature	Second Received Date	IS E Signature

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
New Submittal √	Submitta	al Dat		Tel: 4877629 Fax : 4877205,	- 4877269	Short Circuit &
Atteshments	Copy of approved	Single Line Diagram	Laborate of Laboration 1.	gram Stamp & Stamp & Signature	*1 Copy of submittal	Temp Rise test Certificate
Attachments	BP Dielectric Prov	La contra da la co	ical Operation & Fur	nctional Tests Certificates		
* A Por approving	(signing) the su	bmittal by the IS	engineer, two extra co	opies (photocopy) of the orig	inal should be submitte	ed for final stamp.
regulations is t from this respo	he sole respons insibility.	ibility of the elec	pt ubmittal a new submitt	any other attached documen sing this form, and the appro- tal with a new form is to be s icial Use Only		AMAA does not release nui
	Received D			t Submittal	Second	Submittal
25	- 2- 3	the second second second second second second second second second second second second second second second se				
Eng	Signature Distributio Teha	Qaev on	Received Date	IS E Signature	Received Date	IS E Signature
Assigne	Signature Distributio Teha	on ol Signature	Received Date		0	IS E Signature
Assigne	Signature Distributio Tthe od to	Signature Remarks	Received Date	it shall be	confirm	IS E Signature
Protection	Signature Distributio Teha on Engineer while t	Signature Remarks	Received Date		confirm	1
Protection	Signature Distributio TChG on Engineer while t pace fle ions Engine	Signature Remarks	Received Date	it shall be	confr.m >/ 2015	Signature
Protection Protection Installation	Signature Distributio Tchc on Engineer while f ions Engine nittal	Signature Remarks er Remarks For Discus	Received Date	it shall be cs/2983/30/0	(anfr.m. >/ 2015	Signature
Protection Protection OS (Installat	Signature Distributio Tchc on Engineer while f ions Engine nittal	Signature Remarks	Received Date	it shall be CS 2383 3./ Correct and resubr Correct and resubr Tamp	Confr 5/2015 nit	OK to Stamp OK to Stamp OK to Stamp OK to Stamp



Qatar General Electricity and Water Corporation المريسة العادية التارية التهرياء و الداء Customer Services Department – Installations Section (هارة خليف المشتركين – قسم التعديدات MV-Panel Manufacturing Drawings Submittal Form نموذج تسليم خرائط لوحات توزيع الجهد المنتقض

		General I	nforma	tion		_			
BP No.			0	mer Name C WORKS AU	THORITY	(BUILD	ING AF	FAIRS)	
77434 Type of Build	ing NT OF AL RUWAIS PORT		Locat	ion (Area) IWAIS PORT					
an fraturor		DANY W L.L	Supp CONS	ier Name OLIDATED EI	NGG. CON	STRUC	CTION	Q. W.L.L	
Applicant's e		om.					11	1	
Applicants			Tr	Consultant S	tamp &	Owner	Sgratu	afStamp	
MV-Panel Information	Quantity11ACB Rating2500A160			COV	rə VI	1	W		FHAL
New Submittal √	Re- Submittal			COVILA/S P O. Boy 23 Doha, Vitatar		X	gol	شقال العامة PUBLIC WORKs	AUTHORITY
Attachments	Copy of approved BP Dielectric Properties, Mechanic	Material Three List Diag	ram	Stamp & Signature	*1 Copy submit		Temp F	tise test ficate	Alfairs
from this rest	(signing) the submitted by the to c e: e of compliance of the design and the sole responsibility of the electric onsibility s 10 work days from date of receipt is not approved by the second sub-	l omittal a new submitte	al with a r	ew form is to be s		by KAHRA	AMAA doo	es not releas	
		For Offic		and the second se		econd	Submit	tal	7
	Received Date	First	Submi	ttal		ooona	-		
14.	12 - 2014 Signature Ream Distribution	Received Date		IS E Signature	Received	Date	(5)	E Signature	
Assign	and the local sector of the sector of the sector of the sector of the sector of the sector of the sector of the	1			1		_	-	T
Protecti	on Engineer Remarks Projection Sche	1	hee		not	al	8	ignature	
2.10	EDEDPI	CS 2514/12	2/01/2	2015		-11-2-2-			-
Installat	ions Engineer Remarks	ion] Corre	ct and resubr	nit	R	OK to	Stamp	
2 nd Sub			Corre	ct and resub	nit	1	OK to	Stamp	_
		To Gran		and and an and a second and a second	2		gnature	2,111	13

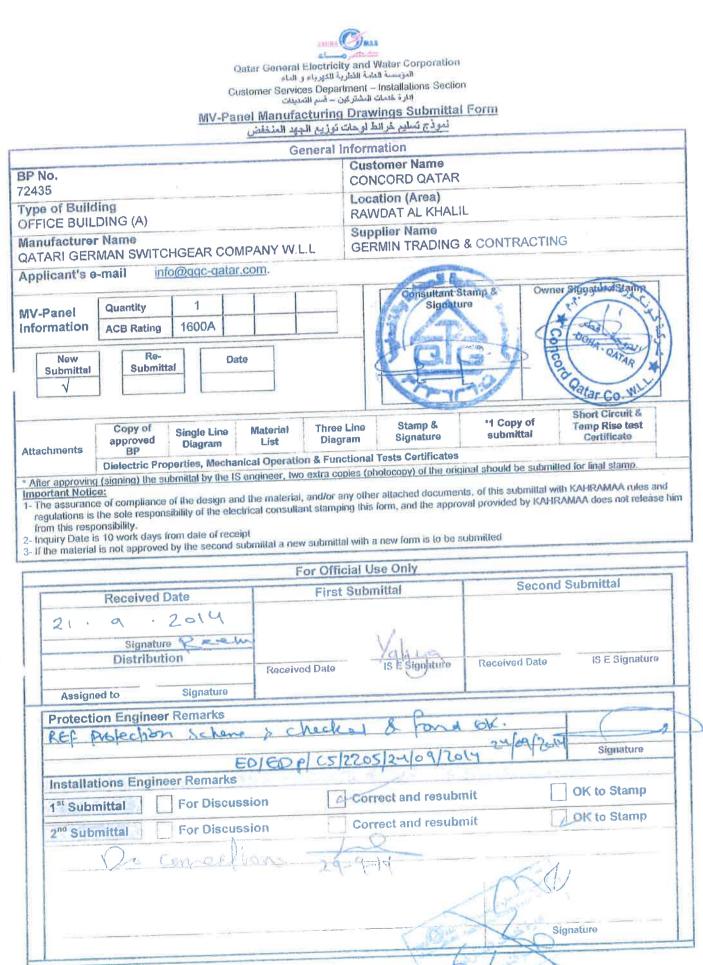
IS - (MV - Panel App. Form) -- V7 - 25/11/2008



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

	Genera	I Information		
		Customer Name		
BP No.		MINISTRY OF AWQ	AF	
78686		Location (Area)		
Type of Build PROPOSED A	ADDITIONAL (G+1) INIVIANI HOUSE &	AIN KHALID		
(G+1) SERVIC	DE BUILDING	Supplier Name		
Manufacturer	MAN SWITCHGEAR COMPANY W.L.L	ELECTROWATT CO), W.L.L	
Applicant's e		3.0		of Signature/Stamp
MV-Panel Information	Quantity 1 ACB Rating 1600A	Consultant S Signatu		(Defin)
New Submittal	Re- Submittal Date	مالىدۇنى ئالىدۇنى		The all and a state of the stat
Attachments	approved Diagram List Di	ree Line Stamp & agram Signature	*1 Copy of submittal	Short Circuit & Temp Rise test Certificate
- total of the total of total of the total of	BP Dielectric Properties, Mechanical Operation & F a (signing) the submittal by the IS engineer, two extra	unctional Tests Certificates	inal should be submit	ted for final stamp.
regulations 13	a (signing) the submittal by the IS engineer, two exacts set of compliance of the design and the material, and/or the sole responsibility of the electrical consultant star ionsibility. s 10 work days from date of receipt I is not approved by the second submittal a new submittal and the second submittal and the submittal and the submittal and the second submittal and the submittal and the second submittal and the submittal and the second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second submittal second second submittal second submittal second submittal second submittal second secon			RAMAA does not release him
		fficial Use Only		
	and 1	st Submittal	Secon	d Submittal
	Received Date Fit	Scoubiliteur		
F	1- 2015			
5-				
	Signature Distribution			IS E Signature
	Distribution Received Dat	te IS E Signature	Received Date	IS E orginatorio
	21 - stars			1
Assign	ed to Signature		0	
Protecti	ion Engineer Remarks	T. 1 0. 10.	Ined the	1/0
XREF	Protection scheme is d	reefeed & ven	1 10	
		5 2392 23/11/20	14 0	S 25 Signature
Installa	tions Engineer Remarks		//	OR to Stamp
1 st Subi	second from the second se	Correct and resub		
2 nd Sub	mittal For Discussion	Correct and resub	mit	OK to Stamp
1	A	()		Tinel
	gal gam	V.	17	9 12/11/2021
5				Signature
	V			1
	$= 1.020$ Form) $= \sqrt{7} = 25/11/2008$			

IS - (MV - Panel App. Form) -V7



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



لمعنون معلم والم والمعلم والمع والمعلم وال والمعلم والمع وولم والم والمعلم والمعلم والمعلم والمولم والمع ووا

1.121.11	بمودج تسليم خرائط لوحلت توزيع الجهد	
Udiation	the cash and the second	_

Ge	neral information
3P No.	Customer Name CONCORD QATAR
75636	
Type of Building	Location (Area)
OFFICE BUILDING (B)	RAWDAT AL KHALIL
in the sturger Mamo	Supplier Name
QATARI GERMAN SWITCHGEAR COMPANY W.L	GERMIN TRADING & CONTRACTING
	and the second sec
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
	Short Circuit &
Copy of Single Line Material approved Diagram List	Three Line Stamp & '1 Copy of Diagram Temp Rise test Certificate
Attachments BP	n & Functional Tests Cortificates
would be the work of the the second s	exita copies (photocopy) of the and
 Important Notice: The assurance of compliance of the design and the material, regulations is the sole responsibility of the electrical consulta from this responsibility. Inquiry Date is 10 work days from date of receipt If the material is not approved by the second submittal a new 	and/or any other attached documents, or ous submitted marked does not release him at stamping this form, and the approval provided by KAHRAMAA does not release him
F	or Official Use Only
Received Date	First Submittal Second Submittal
Assigned to Signature Received Received Received	d Date IS E Signature Received Date IS E Signature
Assigned to	
Protection Engineer Remarks	neeted & Fond ok.
+ REF Protection Schere is	nulapar
EDIEDPIUS 220	Class log [2 obs
EDIEDICSILL	6/01/01/014
Installations Engineer Remarks	OK to Stamp
1 st Submittal For Discussion	Li Gottect alla lesamine
2 nd Submittal For Discussion	Correct and resubmit
- Po connections 29	the deal
	Signature



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

			(General I	nform	ation			
BP No. 61715					Cuel	omer Name	JTHORITY (BU	LDING AFFAIRS)	
Type of Build HEALTH & W	ling ELLNESS C	ARE CENTE	R		Loca	tion (Area) SALAL			
Manufacturer QATARI GER	Name			/.L.L	Sup	p lier Name EAM INDUSTR	IAL & ENGINEE	ERING	
Applicant's e		fo@qqc-qata				-		ENELLA BUILLINE	
	Quantity	1 1	2	T		Consultant S		ng Signature Stamp	/
MV-Panel Information	ACB Rating		1600A			19-1 Signan	RE	ALTERHUNY SXECULATION	
New Submittal √	Re- Submitt		ate		C	Stamp &	A CONTRACT		
Attachments	Copy of approved BP	Single Line Diagram	Material List	Three Diag	ram	Stamp & Signature	*1 Copy of submittal	Short Circuit & Temp Rise test Certificate	
1- The assurance regulations is from this resp	e: e of compliance the sole responsionsibility.	of the design ar sibility of the ele	nd the materia ctrical consul	al, and/or a tant stampi	ny other ng this i		its, of this submittel val provided by KAP	illed for final stamp. with KAHRAMAA rules and IRAMAA does not release	1 him
3-If the material	is not approved	by the second		For Offic					
	Received D) - A -	1	and the second se	Subm		Secor	d Submittal	
Assigne	Signaturo Distributi ad to	a Ofi Signature	Receiv	vert Date		Va hj. 15 E Signature	Received Date	IS E Signature	
Protection REF	Protection	n sche		chec p/cs/2		and Veri 13/10/2014	fine for	Signature	1-16
Installat	ions Engine	er Remarks		10000	es les			The champ	-
1 st Subn	nittal	For Discus				ect and resubn		OK to Stamp	-
2 nd Subr	nittal	For Discus	ssion	 ۵۰ ترو نرین	Corre	ect and resubn			
					Jan	LHT III		Signature	

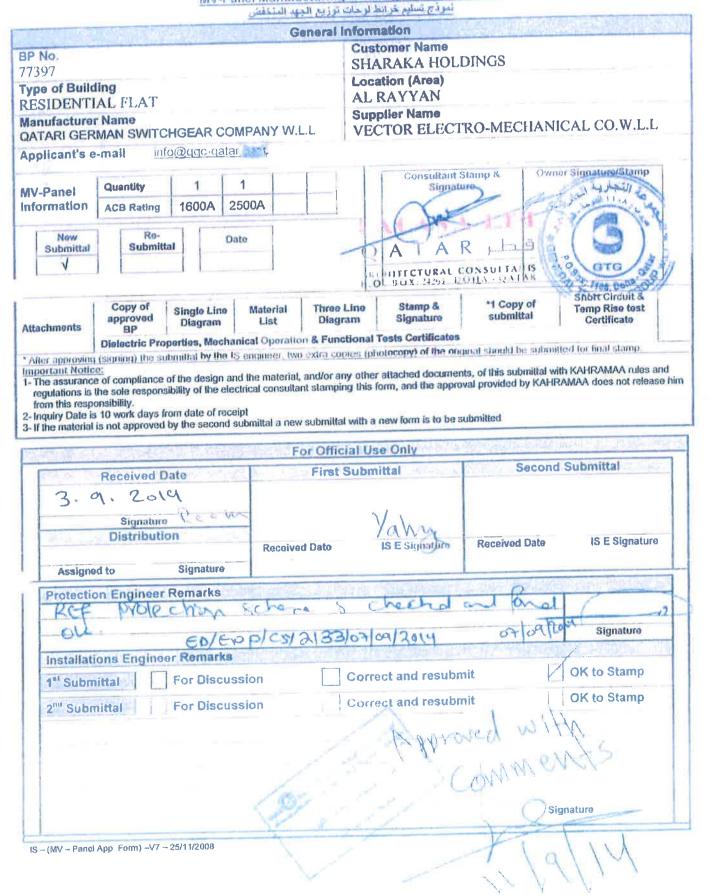
IS - (MV - Panel App. Form) -V7 - 25/11/2008

S.M



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

KAA

			THE REAL PROPERTY AND ADDRESS OF			AT and			
ANY ANY A	12		2.25	General			N		
BP No.						mer Name			
5501					4 4 4 4 4 1 1	EERA			
ype of Build	ing					ion (Area)			
COMMERC	IAL					ITHER			
1	Nama.				Suppl	ier Name CES LIGH	ITS CO M	/ T. T.	
ATARI GER	MAN SWITCH	HGEAR CO	DMPANY V	V.L.L	PRIN	CES LIGE	115 CO. W		
Applicant's e		o@qqc-qat	ar.com.		11 - A			Own	or Signature/Stamp
WV-Panel	Quantity	1				Consultar Sign	aturo	Own	
nformation	ACB Rating	1600A			P	and the	- mil	1/	and ist and a
New Submittal	Re- Submitta	1	Date		64	0350	ma di	64	AiMecra 3
1					0		244	1	40119111 32.0
Attachments	Copy of approved BP	Single Line Diagram	List	Diag	e Line gram	Stamp & Signature	*1 Co subm		Short Circuit &
		ortias Mecl	anical Opera	ition & Fun	nctional Te	ests Certificat	83		led for final stamp
Important Notic 1- The assurance regulations is from this resp	the sole response onsibility.	ionity of the e			a -			d by KAHR	AMAA does not release h
Important Notic 1- The assurance regulations is	the sole response onsibility.	ionity of the e		new submit	tal with a n	ew form is to t		d by KAHR	
Important Notic 1- The assurance regulations is from this resp	the sole responsion onsibility. \$ 10 work days fr is not approved	om date of re by the second		For Offi	a -	ew form is to t e Only			I Submittal
Important Notic 1- The assurance regulations is from this resp 2- Inquiry Date is 3- If the material	Received D Signature	om date of re by the second pate	ceipt 1 submittal a r	For Offi	tal with a n icial Use t Submit	ew form is to t e Only	be submitted		
Important Notic 1- The assurance regulations is from this resp. 2- Inquiry Date is 3- If the material	Received D Signature Distributio	on date of re by the second pate or [ab] a on (Signature	ceipt 1 submittal a r	For Offi First	tal with a n icial Use t Submit	ew form is to t	be submitted	Second	I Submittal
Important Notic 1- The assurance regulations is from this resp. 2- Inquiry Date is 3- If the material	Received D Signature Distribution on Engineer	on date of re by the second pate on (Signature Remarks	ceipt 1 submittal a r	For Offi First	tal with a n icial Use t Submit	ew form is to t Only Ital	be submitted	Second	I Submittal
Important Notic 1- The assurance regulations is from this resp 2- Inquiry Date is 3- If the material Value Assigned Protection Ref	Received D Signature Distribution on Engineer	on date of reby the second	ceipt 1 submittal a r 	For Offi First	tal with a n icial Use t Submit	ew form is to t Only Ital	Receiv	Second ed Date	I Submittal
Important Notic I- The assurance regulations is from this resp: 2- Inquiry Date is 3- If the material Value Assigned Protection Ref	Received D Signature Distribution on Engineer	on date of reby the second	ceipt 1 submittal a r (1) Rece	For Offi First	tal with a n icial Use t Submit	ew form is to t	Received	Second ed Date	I Submittal IS E Signature Signature
Important Notic I- The assurance regulations is from this resp: 2- Inquiry Date is 3- If the material Value Assigned Protection Ref	Received D Signature Distribution on Engineer	on date of reby the second	ceipt 1 submittal a r " " Rece Lot 4 S	For Offi First	tal with a n icial Use t Submit Va i che ch	ew form is to t	Receiv A Receiv A Receiv	Second ed Date	I Submittal IS E Signature Signature
Important Notic In The assurance regulations is from this resp. 2- Inquiry Date is 3- If the material	Received D Signature Distribution on Engineer pices / 1412 ions Engineer	on date of re by the second pate calculation Signature Remarks The Scole on Signature Contraction Signature Signat	ceipt 1 submittal a r n Rece	For Offi First	tal with a n icial Use t Submit Va i che ch	ew form is to t	Receiv A Receiv A Receiv	Second ed Date	I Submittal IS E Signature Signature
Important Notic regulations is from this resp 2- Inquiry Date is 3- If the material	Received D Signature Distribution on Engineer pices / 1412 ions Engineer	ate orlable Signature Remarks Con Signature Remarks Con Signature For Disc	ceipt 1 submittal a r n Rece	For Offi First	tal with a n icial Use t Submit	ew form is to t	Receiv A Receiv A Receiv	Second ed Date	I Submittal IS E Signature Signature

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

17

25

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 1st 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

THE REAL FOR	WAY TENEDERSENING	Genera	I Information	1.50 Stat. 12515-1	The life of the life of the life of the
an Ne	1994年1月1日)。1995年1月1日(1995年1月1日) 1995年1月1日(1995年1月1日) 1995年1月1日(1995年1月1日)		Customer Name		
BP No. 72783			SHEIKHA JABOR M	AL-MUSALAM	
Type of Build	lina		Location (Area)		
VILLA	1119		AIN KHALED		
Manufacturo	r Name		Supplier Name	- OFDVICES MILL	
QATARI GER	MAN SWITCHGEAR CO	MPANY W.L.L	HBK ENGINEERING	5 SERVICES W.L.	
Applicant's			4		
			Consultant S	itamp & Owner	Signature/Stamp
MV-Panel	Quantity 1		المنك سية ال	ITP NI SI	100
Information	ACB Rating 1600A		Skotak		N///
			Sketon En	199 Const. K	All
New Submittal	Re- Da	ato	Tel: ASTION	K: 17461	411
Sublintar	CONSTITUTION		Tel: 4977625	- 3877269	
]		10011200,	Uona - Qatar	
	Copy of approved Diagram	Interest interest	ee Line Stamp & I agram Signature	*1 Copy of submittal	Short Circuit & Temp Rise test Certificate
Attachments	BP	inical Operation & FL	inctional Tests Certificates		
* Allac approving	(pigging) the submittal by the	S engineer, two extra	copies (priorocopy) or the orth	inal should be submitted	d for linal stamp.
1- The assurance	e of compliance of the design at the sole responsibility of the ele	ctrical consultant stan	nping this form, and the appro	val provided by KAHRA	MAA does not release non
from this resp	onsibility.				
2- Inquiry Date i	s 10 work days from date of rec i is not approved by the second	submittal a new subm	ittal with a new form is to be s	aubmitted	
3. If the material					
3- If the material				are the area	
3- If the material		For Of	ficial Use Only	37-14-14-0	Submittal
3- If the material	Received Date	For Of		37-14-14-0	Submittal
3- If the material		For Of	ficial Use Only	37-14-14-0	Submittal
3- If the material	Received Date	For Of	ficial Use Only	37-14-14-0	Submittal
3- If the material	Received Date Signature	For Of	ficial Use Only st Submittal Va Ma	Second	
3- If the material	Received Date	For Of	ficial Use Only st Submittal XqMC	37-14-14-0	Submittal IS E Signaturo
	Received Date Signature Distribution	For Of Fire	ficial Use Only st Submittal XqMC	Second	
Assign	Received Date Signature Distribution ed to Signature	For Of Fire	ficial Use Only st Submittal XqMC	Second Second	
Assign	Received Date Signature Distribution ed to Signature on Engineer Remarks	For Of Fire Received Date	ficial Use Only st Submittal Ya MA IS E Signature	Rocaived Date	
Assign	Received Date Signature Distribution ed to Signature	For Of Fire Received Date	ficial Use Only st Submittal Ya MA IS E Signature	Rocaived Date	IS E Signaturo
Assign	Received Date Signature Distribution ed to Signature on Engineer Remarks	For Of Fire Received Date	ficial Use Only st Submittal Ya MA IS E Signature	Rocaived Date	
Assign Protecti REF	Received Date Signature Distribution ed to Signature on Engineer Remarks Protection Sch	For Of Fire Received Date	ficial Use Only st Submittal Valve Is Esignaturo Dechel and Ics11646/2005	Rocaived Date	IS E Signaturo
Assign Protecti REF	Received Date Signature Distribution ed to Signature on Engineer Remarks Protection Sch	For Of Fir Received Date	ficial Use Only st Submittal Vanc Is E signature Jechel and Ics 11646/2005	Received Date	IS E Signature Signature OK to Stamp
Assign Protecti REF Installat	Received Date Signature Distribution ed to Signaturo on Engineer Remarks Protection Sch	For Of Fire Roceived Date ED/EDP ssion	ficial Use Only st Submittal Valve Is Esignaturo Dechel and Ics11646/2005	Received Date	IS E Signaturo
Assign Protecti Ref Installat	Received Date Signature Distribution ed to Signaturo on Engineer Remarks Protection Sch	For Of Fire Roceived Date ED/EDP ssion	ficial Use Only st Submittal Vanc Is E signature Jechel and Ics 11646/2005	Received Date	IS E Signature Signature OK to Stamp
Assign Protecti Ref Installat	Received Date Signature Distribution ed to Signaturo on Engineer Remarks Protection Sch	For Of Fire Roceived Date ED/EDP ssion	ficial Use Only st Submittal Vanc Is E signature Jechel and Ics 11646/2005	Received Date	IS E Signature Signature OK to Stamp
Assign Protecti Ref Installat	Received Date Signature Distribution ed to Signaturo on Engineer Remarks Protection Sch	For Of Fire Roceived Date ED/EDP ssion	ficial Use Only st Submittal Vanc Is E signature Jechel and Ics 11646/2005	Received Date	IS E Signature Signature OK to Stamp
Assign Protecti Ref Installat	Received Date Signature Distribution ed to Signaturo on Engineer Remarks Protection Sch	For Of Fire Roceived Date ED/EDP ssion	ficial Use Only st Submittal Vanc Is E signature Jechel and Ics 11646/2005	Rocaivad Date	IS E Signaturo Signature OK to Stamp OK to Stamp
Assign Protecti Ref Installat	Received Date Signature Distribution ed to Signaturo on Engineer Remarks Protection Sch	For Of Fire Roceived Date ED/EDP ssion	ficial Use Only st Submittal Vanc Is E signature Jechel and Ics 11646/2005	Rocaivad Date	IS E Signature Signature OK to Stamp

In (MV Panel App Form) -V7 - 25/14/2008

			Qatar Ge	للكهرياء والماه	الموسسة العامة الغطرية	22.0	
				- Cone (listeeli)	artment – Installations Sectio إدارة خدمات المشتركين		
		MV-	Panel Ma	inufacturin	g Drawings Submitta نموذج تسليم خرانط لوحات ت	Form	
	10. 10. 10 mil	23-5303	<u>U</u>	and the second se	Information		AND ALE ALE ALE
P No.	Mer Maria	01/10/04	STRAF CORES		Customer Name SHK. HASSAN ABD		ASSAN ALLAL THAN
3759					SHK. HASSAN ABD	UL KANWAN N	
ype of Build ILLAS					UMM SALAL ALI Supplier Name		
ATARI GER	MAN SWITC	HGEAR C		Y W.L.L	MADAR BUILDING	MATERIALS	
	Quantity		i	1	Sonsultant S		er Signature/Stamp
V-Panel	ACB Rating	2500A					1001
New Submittal	Re- Submitt	al	Date		HUR Zacka	M 1	Dal
						te Coou of	Short Circuit &
	Copy of approved	Single Line			e Line Stamp & gram Signature	*1 Copy of submittal	Temp Rise test Certificate
ttachmonts	BP	Diagram			8. mili		
			Included On	protion & Ful	nctional Tests Certificates		
	(signing) the su	bruillal by the	e 15 anginer	er iwo extra d	nctional Tests Certificates opies (photocopy) of the ong any other attached documen ning this form, and the appro-		
 The assurance regulations is from this resp. 	(signing) the su e of compliance the sole respons onsibility.	of the design sibility of the c	e IS angines and the ma electrical co	aterial, and/or insultant stamp	any other attached documen ping this form, and the appro-	ts, of this submittal v val provided by KAH	
- The assurance regulations is from this resp	(signing) the su e of compliance the sole respons onsibility.	of the design sibility of the c	e IS angines and the ma electrical co	aterial, and/or insultant stamp . '30 a new submit	any other attached documen ping this form, and the appro-	ts, of this submittal v val provided by KAH ubmitted	RAMAA does not release t
 The assurance regulations is from this resp. 	(signing) the su e of compliance the sole respons onsibility.	ithin the design of the design jbility of the o rom date of n by the secon	e IS angines and the ma electrical co	aterial, and/or i insultant stamp insultant stamp interior interior a new submit	any other attached documen ping this form, and the appro- clinitian of the appro- tal with a new form is to be s	ts, of this submittal v val provided by KAH ubmitted	
 The assurance regulations is from this resp. 	(signing) the su entropy of compliance the sole respons onsibility. s 10 work days fi is not approved Received C Signature	invittal by the of the design ibility of the o rom date of n by the secon bate	e IS angines and the ma electrical co	aterial, and/or i insultant stamp insultant stamp interior interior a new submit	any other attached documen ping this form, and the appro- cl cl. cl. ttal with a new form is to be s ficial Use Only	ts, of this submittal v val provided by KAH ubmitted	RAMAA does not release t
 The assurance regulations is from this resp. 	(signing) the su e of compliance the sole respons onsibility. s 10 work days fi is not approved Received C	invittal by the of the design ibility of the o rom date of n by the secon bate	e IS enginee a and the ma electrical co eceipt ad submittal	aterial, and/or i insultant stamp insultant stamp interior interior a new submit	any other attached documen ping this form, and the appro- cl cl tal with a new form is to be s ficial Use Only t Submittal	ts, of this submittal v val provided by KAH ubmitted	RAMAA does not release t
- The assurance regulations is from this resp	(signing) the su e of compliance the sole respons onsibility. s to work days fi is not approved Received C Signature Distribution	invittal by the of the design ibility of the o rom date of n by the secon bate	e IS enginee a and the ma electrical co ecceipt ad submittal	aterial, and/or nsultant stamp a new submit Foc Offi Firs	any other attached documen ping this form, and the approv of the second second second tal with a new form is to be s ficial Use Only it Submittal	ts, of this submittal v val provided by KAH ubmitted Secon	RAMAA does not release t
Assigne	(signing) the su e of compliance the sole respons onsibility. s 10 work days fi is not approved Received C Signature Distributioned to on Engineer	ibuillal by the of the design ibility of the o rom date of n by the secon bate Date Signature Remarks	e IS angines a and the ma electrical co eccipt nd submittal	ar Iwo extra 6 aterial, and/or insultant stamp 'nc a new submit For Offi Firs acceived Date	any other attached documen ping this form, and the appro- cl content of	ts, of this submittal v val provided by KAH ubmitted Secon Received Date	RAMAA does not release t
Assigne	(signing) the su e of compliance the sole respons onsibility. s to work days fi is not approved Received C Signature Distributioned to	ibuillal by the of the design ibility of the o rom date of n by the secon bate Date Signature Remarks	e IS angines and the ma electrical co ecceipt ad submittal	ar Iwo extra 6 aterial, and/or insultant stamp '10 Foc Offi Firs aceived Date	any other attached documen ping this form, and the appro- clicities of the second tal with a new form is to be s ficial Use Only it Submittal VALK IS E Signature	ts, of this submittal v val provided by KAH ubmitted Secon Received Date	d Submittal
Assigned	r (signing) the su e of compliance the sole respons onsibility. s 10 work days fi is not approved Received C Signature Distribution ad to on Engineer	ibuiltal by the of the design ibility of the o rom date of n by the secon by the secon by the secon bate Date Signature Remarks	e IS enginee a and the ma electrical co ecceipt ad submittal /c* Re P C* C* C* C* C* C* C* C* C* C*	ar Iwo extra 6 aterial, and/or insultant stamp 'nc a new submit For Offi Firs acceived Date	any other attached documen ping this form, and the appro- clicities of the second tal with a new form is to be s ficial Use Only it Submittal VALK IS E Signature	ts, of this submittal v val provided by KAH ubmitted Secon Received Date	d Submittal
Assigned	(signing) the su e of compliance the sole respons onsibility. s 10 work days fi is not approved Received C Signature Distributioned to on Engineer	Invittal by the of the design sibility of the of rom date of n by the secon bate Date Signature Remarks M S Ch	e IS engines a and the ma electrical co ecceipt ad submittal /C Re e E D/C ks	ar Iwo extra 6 aterial, and/or insultant stamp '10 Foc Offi Firs aceived Date	any other attached documen ping this form, and the appro- cl content of	ts, of this submittal v val provided by KAH ubmitted Secon Received Date	d Submittal IS E Signature
Assigned	i (signing) the su e of compliance the sole respons onsibility. s 10 work days fi is not approved Received C Signature Distribution ad to on Engineer Protect of ions Engine	ibuiltal by the of the design ibility of the o rom date of n by the secon by the secon by the secon bate Date Signature Remarks	e IS engines a and the ma electrical co ecceipt ad submittal /C Re e E D/C ks	ar Iwo extra 6 aterial, and/or insultant stamp '10 Foc Offi Firs aceived Date	any other attached documen ping this form, and the appro- cl content of	ts, of this submittal v val provided by KAH ubmitted Secon Received Date	d Submittal IS E Signature Signature
Assigned Protection	i (signing) the su in (signing) the su e of compliance the sole respons onsibility. is to work days fi is not approved Received D Signature Distribution ad to on Engineer Protoc (nor ions Engine	Invittal by the of the design sibility of the of rom date of n by the secon bate Date Signature Remarks M S Ch	e IS engineer a and the ma electrical co ecceipt ad submittal /c Re e ED/C ks cussion	ar Iwo extra 6 aterial, and/or insultant stamp '10 Foc Offi Firs aceived Date	any other attached documen ping this form, and the appro- cl content of	ts, of this submittal v val provided by KAH ubmitted Secon Received Date	d Submittal IS E Signature
Assigner Protection Regulations is from this resp Inquiry Date is If the material Assigner REF Installat	i (signing) the su in (signing) the su e of compliance the sole respons onsibility. is to work days fi is not approved Received D Signature Distribution ad to on Engineer Protoc (nor ions Engine	Invittal by the of the design sibility of the of rom date of n by the secon Date Date Signature Remarks M S Ch er Remark	e IS engineer a and the ma electrical co ecceipt ad submittal /c Re e ED/C ks cussion	ar Iwo extra 6 aterial, and/or insultant stamp '10 Foc Offi Firs aceived Date	any other attached documen ping this form, and the appro- cl content of	ts, of this submittal v val provided by KAH ubmitted Secon Received Date	d Submittal IS E Signature Signature
Assigner Protection Regulations is from this resp Inquiry Date is If the material Assigner REF Installat	i (signing) the su in (signing) the su e of compliance the sole respons onsibility. is to work days fi is not approved Received D Signature Distribution ad to on Engineer Protoc (nor ions Engine	Invittal by the of the design sibility of the of rom date of n by the secon Date Date Signature Remarks M S Ch er Remark	e IS engineer a and the ma electrical co ecceipt ad submittal /c Re e ED/C ks cussion	ar Iwo extra 6 aterial, and/or insultant stamp '10 Foc Offi Firs aceived Date	any other attached documen ping this form, and the appro- cl content of	ts, of this submittal v val provided by KAH ubmitted Secon Received Date	d Submittal IS E Signature Signature
Assigner Protection Regulations is from this resp Inquiry Date is If the material Assigner REF Installat	i (signing) the su in (signing) the su e of compliance the sole respons onsibility. is to work days fi is not approved Received D Signature Distribution ad to on Engineer Protoc (nor ions Engine	Invittal by the of the design sibility of the of rom date of n by the secon Date Date Signature Remarks M S Ch er Remark	e IS engineer a and the ma electrical co ecceipt ad submittal /c Re e ED/C ks cussion	ar Iwo extra 6 aterial, and/or insultant stamp '10 Foc Offi Firs aceived Date	any other attached documen ping this form, and the appro- cl content of	ts, of this submittal v val provided by KAH ubmitted Secon Received Date	d Submittal IS E Signature Signature

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

Installations Engineer Remarks

 1" Submittal
 For Discussion
 Correct and resubmit
 OK to Stamp

 2nd Submittal
 For Discussion
 Correct and resubmit
 OK to Stamp

15 - (My Panet App Form) - 97 - 25/11/2008

		بة الكهرياء والماه	y and Water Corporation المرسية العلم القلو المرسية العلمة القلو tment – Installations Section		
	MV-Pane	ن – نسم التعديدات Manufacturing اد	ادارہ خدمات المشتر کی Drawings Submittal		
	in e i an	، توزيع الجهد المنخفض	بمودج تسليم خرائط لوحات	and the second second	- 01400-01-01-01-01-01-0-0-0-0-0-0-0-0-0-0
Strands and		General I	nformation Customer Name		and the second second
BP No. 3146			QATAR PETROLE	JM	
Type of Build	ling EPLACEMENT AT QATAF	RPETROLEUM	Location (Area) RAS BU ABBOUD		
Manufacture			Supplier Name STREAM INDUSTR	RIAL & ENGINEE	RING
Applicant's e	-mail info@ggc-gatar.	com.			
MV-Panel Information	Quantity1ACB Rating1600A		Consultant	A desirable and	ner Signature/Stamp
New Submittal	Ro- Submittal All 21 2013 221 121 2013 13	e (aria Qata	Petroleum
Attachments	Copy of approved BP Single Line Diagram		Line Stamp & gram Signature	*1 Copy of submittal	Short Circuit & Temp Rise test Certificate
him from this r	the sole responsibility of the electresponsibility.	rical constituent stamp			vith KAHRAMAA rules and RAMAA does not release
him from this r	the sole responsibility of the elect	ot ibmittal a new submitt	al with a new form is to be s		RAMAA does not release
him from this / 2- Inquiry Date is 3- If the material	the sole responsibility of the electro- responsibility. s 10 work days from date of receipt is not approved by the second su	ot ibmittal a new submitt For Offic	al with a new form is to be a	submitted	RAMAA does not release
him from this / 2- Inquiry Date is 3- If the material	the sole responsibility of the electresponsibility. s 10 work days from date of receip is not approved by the second su Received Date Signaturo Distribution	ot ibmittal a new submitt For Offic	al with a new form is to be s	submitted	- Subditional and and
him from this / 2- Inquiry Date is 3- If the material 2- If the material 2- 2- 2- 2- 4- Assigned Protection	the sole responsibility of the electronesponsibility. s 10 work days from date of receip is not approved by the second su Received Date Signature Distribution Signature no Signature no Signature no Signature	For Offic For Offic First	al with a new form is to be a ial Use Only Submittal IS E Signature	Second Received Date	Submittal IS E Signature
him from this r 2- Inquiry Date is 3- If the material 2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (the sole responsibility of the electresponsibility. s 10 work days from date of received is not approved by the second sub- Received Date Signature Distribution Signature n Engineer Remarks Received Line Lite	Received Date	al with a new form is to be a ial Use Only Submittal IS E Signature	Second Received Date	Submittal IS E Signature
him from this r 2- Inquiry Date is 3- If the material 2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (the sole responsibility of the electresponsibility. is not approved by the second sub- Received Date Signature Distribution Signature n Engineer Remarks 9 cheme in Lin Plack/1109/100/112/200	Received Date	al with a new form is to be a ial Use Only Submittal IS E Signature	Received Date	IS E Signature
him from this r 2- Inquiry Date is 3- If the material 2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (the sole responsibility of the electresponsibility. s 10 work days from date of receives the second sub- Received Date Signature Distribution Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature	real construction stamp of ibmittal a new submitt For Offic First Received Date	al with a new form is to be a ial Use Only Submittal IS E Signature	Received Date	IS E Signature
him from this r 2- Inquiry Date is 3- If the material 2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (the sole responsibility of the electresponsibility. s 10 work days from date of receip is not approved by the second su Received Date Signature Distribution Signature S	real construction stamp of ibmittal a new submitt For Offic First Received Date	al with a new form is to be a ial Use Only Submittal IS E Signature	Received Date	IS E Signature
him from this a 2- Inquiry Date is 3- If the material 2- In the	the sole responsibility of the electresponsibility. s 10 work days from date of receip is not approved by the second su Received Date Signature Distribution Signature S	real construction stamp of ibmittal a new submitt For Offic First Received Date	al with a new form is to be a ial Use Only Submittal IS E Signature	Received Date	IS E Signature

 \neg

	KANNA (Jatan	
	star General Electricity and Water Corporation المؤسسة العلية التطرية للكيزياء و الماء	
	tomer Services Department – Installations Section (الارم خصات المشتركين – فسر التسبيك	
MV-Pane	el Manufacturing Drawings Submittal Form تعرفج تسليم خرائط لوحات توزيم الجهد المنخفض	
P No.	Customer Name	
51130	SH - ABDUL RAHMAN JASSIM AL THANI Location (Area)	
ype of Building	AL NASERIA	
Tanufacturer Name	Supplier Name	
ype of Building 37 VILCA Co. Manufacturer Name ATARI GERMAN Curre Nonicant's e-mail	NEMOCO	
Applicant's e-mail	aga-gama com	2
AV-Panel Quantity 2	Consultant Stamp & Owner Signature/Stamp	
nformation ACB Rating 2.570 A		
New Re- Dat	Dentes Dentes and the second states	1.100
New Ne- Dat Submittal Submittal		man
	Abdulta 38 - ductor Narser Bio Lassion A	1 - 1 TIGHT
	the literation of Short Circuit &	ص ب
Copy of Single Line approved Diagram	Material Three Enous Stamp of Stamp of Stamp Rise test	
Attachments BP	nical Operation & Functional Tests Certificates	
Dielectric Properties, Mechan	incar operation at a spontant of the supervised for final stanto.	
the automitted by the IS	andineer, two extra copies (photocopy) of the ong	
Alter approving (signing) the submittal by the IS	angineer, two extra copies (producery) of the seg-	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- bio from this responsibility.	S engineer, two extra copies (photocopy) of the engineering of this submittal with KAHRAMAA rules and d like material, and/or any other attached documents, of this submittal with KAHRAMAA rules and trical consultant stamping this form, and the approval provided by KAHRAMAA does not release	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- bio from this responsibility.	S engineer, two extra copies (photocopy) of the engineering of this submittal with KAHRAMAA rules and d like material, and/or any other attached documents, of this submittal with KAHRAMAA rules and trical consultant stamping this form, and the approval provided by KAHRAMAA does not release	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- bio from this responsibility.	Complete, two extra copies (photocopy) of the engineer, two extra copies (photocopy) of the engineer, two extra copies (photocopy) of the engineer, and the submittal with KAHRAMAA rules and chrical consultant stamping this form, and the approval provided by KAHRAMAA does not release to the submittal a new submittal with a new form is to be submitted For Official Use Only	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. Inquiry Date is \- work days from date of recei (- If the material is not approved by the second significant the second significant second significant second significant (- If the material is not approved by the second significant (- If the material is not approved by the second significant second significant second significant second significant second significant second significant second significant second significant second significant second significant second significant second significant second seco	S engineer, two extra copies (photocopy) of the engineer, two extra copies (photocopy) of the engineer, two extra copies (photocopy) of the engineer of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release ipt submittal a new submittal with a new form is to be submitted	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. Inquiry Date is 1- work days from date of recai If the material is not approved by the second si Received Date	Complete, two extra copies (photocopy) of the engineering of the submittal with KAHRAMAA rules and d like material, and/or any other attached documents, of this submittal with KAHRAMAA rules and trical consultant stamping this form, and the approval provided by KAHRAMAA does not release ipt submittal a new submittal with a new form is to be submitted For Official Use Only	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. Inquiry Date is 1- work days from date of recail If the material is not approved by the second st Received Date 13	Complete, two extra copies (photocopy) of the engineering of the submittal with KAHRAMAA rules and d like material, and/or any other attached documents, of this submittal with KAHRAMAA rules and trical consultant stamping this form, and the approval provided by KAHRAMAA does not release ipt submittal a new submittal with a new form is to be submitted For Official Use Only	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. Inquiry Date is \. work days from date of recai If the material is not approved by the second si Received Date	Sengineer, two extra copies (photocoly) of the experimental of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release lipt submittal a new submittal with a new form is to be submitted For Official Use Only First Submittal Second Submittal IS E Signature	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. Inquiry Date is 1 work days from date of recain If the material is not approved by the second st Received Date I B Signature Distribution	Sengineer, two extra copies (photocopy) of the expension of this submittal with KAHRAMAA rules and the approval provided by KAHRAMAA does not release ipt submittal a new submittal with a new form is to be submitted For Official Use Only First Submittal	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elect him from this responsibility. Inquiry Date is 1- work days from date of recail Received Date ABL 2013 Signature Distribution Assigned to Signature	Sengineer, two extra copies (photocoly) of the experimental of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release lipt submittal a new submittal with a new form is to be submitted For Official Use Only First Submittal Second Submittal IS E Signature	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec him from this responsibility. Inquiry Date is 1- work days from date of recail Received Date I.B. 2012 Signature Distribution Assigned to Signature Protection Engineer Remarks	Sengineer, two extra copies (photocoly) of the experimental of the submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release introduction a new submittal with a new form is to be submitted For Official Use Only First Submittal Second Submittal Received Date IS E Signature Received Date IS E Signature	
After approving (signing) the submittal by the IS important Notice: A the assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. I juice Date is A work days from date of recail If the material is not approved by the second si Received Date A J 2013 Signature Distribution Assigned to Signature Protection Engineer Remarks RES Profeection Signature	Sengineer, two oxtra copies (photocoly) of the expression d the material, and/or any other attached documents, of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release intervention ipt <td></td>	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. Inquiry Date is 1- work days from date of recain If the material is not approved by the second st Received Date I B	Sengineer, two oxtra copies (photocoly) of the expression d the material, and/or any other attached documents, of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release ipt ipt <t< td=""><td></td></t<>	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. To loquiny Date is 1- work days from date of recail To the material is not approved by the second si Received Date 13 1 2013 Signature Distribution Assigned to Signature Protection Engineer Remarks RES Profee from Sche M 13 101 7013 Installations Engineer Remarks	Sengineer, two oxtra copies (photocoly) of the expression d the material, and/or any other attached documents, of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release ipt undmittal a new submittal with a new form is to be submitted ipt ip	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. Inquiry Date is 1- work days from date of recain If the material is not approved by the second st Received Date I B	Servineer, two oxits copies (protocorr) of the equivalence of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release international a new submittal with a new form is to be submitted For Official Use Only For Official Use Only Received Date IS E Signature Received Date IS E Signature Signature Signature OK to Stamp	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. The inquiry Date is 1- work days from date of recain The material is not approved by the second si Received Date 13 1, 2013 Signature Distribution Assigned to Signature Protection Engineer Remarks REF Protection Signature Installations Engineer Remarks	Sengineer, two oxtra copies (photocoly) of the expression d the material, and/or any other attached documents, of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release ipt undmittal a new submittal with a new form is to be submitted ipt ip	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To ingle a straight date of recail To installations Engineer Remarks 1 ⁶¹ Submittal Approved	Sengineer, two extra copies (photocopy) of the expression of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release introduction of this submittal with KAHRAMAA does not release introduction of this submittal with KAHRAMAA does not release introduction of this submittal with KAHRAMAA does not release introduction of this submittal with KAHRAMAA does not release introduction of this submittal with a new form is to be submitted For Official Use Only First Submittal Received Date IS E Signature Received Date IS E Signature IS E Signature IS Cheche does not release IS E Signature IS E Signature IS Cheche does not release IS E Signature IS E Signature IS Cheche does not release IS E Signature IS Cheche does not release IS Cheche does not release IS E Signature IS Cheche does not release IS E Signature IS Cheche does not release IS Cheche does not release IS Cheche does not	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To ingle a straight date of recail To installations Engineer Remarks 1 ⁶¹ Submittal Approved	Servineer, two oxits copies (protocorr) of the equivalence of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release international a new submittal with a new form is to be submitted For Official Use Only For Official Use Only Received Date IS E Signature Received Date IS E Signature Signature Signature OK to Stamp	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To ingle a straight date of recail To installations Engineer Remarks 1 ⁶¹ Submittal Approved	Sengineer, two oxits copies (protection of this submittal with KAHRAMAA rules and trical consultant stamping this form, and the approval provided by KAHRAMAA does not release intervention is to be submitted For Official Use Only First Submittal Received Date IS E Signature Received Date IS E Signature Net IS Checked and fond of Signature Correct and resubmit OK to Stamp Correct and resubmit Approved Appr	
After approving (signing) the submittal by the IS important Notice: The assurance of compliance of the design and regulations is the sole responsibility of the elec- him from this responsibility. To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To inquiry Date is 1- work days from date of recail To ingle a straight date of recail To installations Engineer Remarks 1 ⁶¹ Submittal Approved	Sengineer, two extra copies (photocopy) of the expression of this submittal with KAHRAMAA rules and chical consultant stamping this form, and the approval provided by KAHRAMAA does not release introduction of this submittal with KAHRAMAA does not release introduction of this submittal with KAHRAMAA does not release introduction of this submittal with KAHRAMAA does not release introduction of this submittal with KAHRAMAA does not release introduction of this submittal with a new form is to be submitted For Official Use Only First Submittal Received Date IS E Signature Received Date IS E Signature IS E Signature IS Cheche does not release IS E Signature IS E Signature IS Cheche does not release IS E Signature IS E Signature IS Cheche does not release IS E Signature IS Cheche does not release IS Cheche does not release IS E Signature IS Cheche does not release IS E Signature IS Cheche does not release IS Cheche does not release IS Cheche does not	

IS -- (MV - Panel App. Form) -Vr - Yoji V/Y-

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 1st 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 1st Submittal OK-to Stamp Correct and resubmit For Discussion 2^{nu} Submittal Signature IS - (MV - Panel and Found

				9	Jen			
		C	لباء Customer Serv	ices Depart	y and Water Corporation المزيسة العلية العلية ment – Installations Sectio إدارة خصات المتري	n		
		MV-Pa	mai Manuel	acturing	Drawings Submitta نموذج تسليم خرائط أوحاد	I Form		
			A REAL PROPERTY AND A REAL		nformation		and the second division of the	
BP No.					Customer Name			
24172 Type of Build HOUSING (IN	ling		ELOPMEN	T)	Location (Area) AL KHOR			
Manufacture QATARI GER	e Mama				Supplier Name GAZZAOUI & PAF	TNERS		
Applicant's e	and the second second second second	ocauge 193	nr.com					
MV-Panel	Quentity	3			Consultan		Owner Signa	dure/Stamp
Information	ACB Rating	2500A				A.	1 C	11
New Submittal	Re- Submit	tal	Date	-(- AS			4
L	_1			1	/ Lings	land land	Sho	rt Circuit &
	Copy of approved	Single Line Disgram	List	Oling	rune Stamp & gram Signature	submit	tal Tem	p Rise test artificate
Attachments							2	
1- The assurance regulations is	a (signing) the st e of compliance the sole respon	ubmikal by the	s IS engineer,	Pho exiting	ctional Tasts Certificate open (photocopy) of the o any other attached docum ing this form, and the app		te submilled for I	inal stamp RAMAA rules and does not release
1- The assurance regulations is	a (signing) the si e of compliance the sole respon- responsibility.	of the design sibility of the e	and the mater lectrical const eccipt d submittal a	rial, and/or a ultant stamp new submitt	my other altached docum ling this form, and the app lat with a new form is to b	ents, of this sut roval provided	te submilled for I	inal stamp. RAMAA rules and does not release
1- The assurance regulations is	a (signing) the si e of compliance the sole respon- responsibility.	of the design sibility of the e	and the mater lectrical const eccipt d submittal a	rial, and/or a ultant stamp new submitt	any other attached docum ling this form, and the app lat with a new form is to be iat Use Only	ents, of this suit roval provided e submitted	te submitted for f bmittef with KAHF by KAHRAMAA	does not release
1- The assurance regulations is	a (signing) the si e of compliance the sole respon- responsibility.	of the design sibility of the e from date of re t by the secon	and the mater lectrical const eccipt d submittal a	rial, and/or a ultant stamp new submitt	my other altached docum ling this form, and the app lat with a new form is to b	ents, of this suit roval provided e submitted	te submilled for I	does not release
Important Modu 1- The assurance regulations is thim from this 2- Inquiry Date i 3- If the materia	a (signing) the si se of compliance the sole respon- responsibility. s 10 work days 1 l is not approved Received D. Signature Distributio	ubmittal by the of the design sibility of the e from date of re t by the secon ate	and the mater sectrical const sectifical const d submittal a	rial, and/or a ultant stamp new submitt	any other attached docum ling this form, and the app lat with a new form is to be iat Use Only	ents, of this suit roval provided e submitted	econd Subm	does not release
Important Modular 1- The assurance regulations is thim from this 2- Inquiry Date i 3- If the materia	a (signing) the si e of compliance the sole respon- responsibility. I is not approved Received D. Signature Distributio	of the design sibility of the e from date of re t by the secon ate	and the mater sectrical const sectifical const d submittal a	rial, and/or a ultant stamp new submitt For Offic First	my other attached docum ing this form, and the app al with a new form is to be iat Use Only Submittal	ents, of this sub roval provided e submitted	econd Subm	does not release
Important Modular 1- The assurance regulations is him from this 2- Inquiry Date i 3- if the materia Assigne Protection	a (signing) the si se of compliance the sole respon- responsibility. s 10 work days I lis not approved Received D. Signature Distribution on Engineer Proteet	ate	and the mater lectrical const sceipt d submittal at	rial, and/or a ultant stamp new submitt For Offic First	ing other attached docum ing this form, and the app al with a new form is to be ital Use Only Submittal JS E Signature	ents, of this suit roval provided e submitted St Received	econd Subm Date	does not release ittal
Important Modular In The assurance regulations is thim from this 2- Inquiry Date is 3- if the materia Assigned Protection REF 3-14	a (signing) the si e of compliance the sole responsibility. s 10 work days I l is not approved Received D. Signature Distribution d to Froheel 2013 - The	ate	and the mate Nectrical const seeipt d submittal a Receive 15 15 31412	rial, and/or a ultant stamp new submitt For Offic First ved Date	ing other attached docum ing this form, and the app al with a new form is to be ital Use Only Submittal IS E Signature	ents, of this suit roval provided e submitted St Received	econd Subm Date	does not release
Important Modular In The assurance regulations is tim from this 2- Inquiry Date is 3- if the materia Assigned Protection REF 3-14 Installat	a (signing) the si e of compliance the sole responsibility. s 10 work days I lis not approved Received D. Signature Distribution on Engineer Protect 2013 - Tr	ate	and the mater Nectrical consu- nectrical consu- sceipt d submittal a Racel	rial, and/or a ultant stamp new submitt For Offic First ved Date	ing other attached docum ing this form, and the app al with a new form is to be ital Use Only Submittal JS E Signature	ents, of this sut roval provided e submitted Received	econd Subm Date (S OK t	does not release ittal S E Signature Signature o Stamp
Important Modular In The assurance regulations is tim from this 2- Inquiry Date is 3- if the materia Assigned Protection REF 3-14	a (signing) the si e of compliance the sole response is 10 work days i i is not approved Received D Signature Distribution d to Engineer Protect 2013 . The ons Engineer	ate	Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt Receipt	rial, and/or a ultant stamp new submitt For Offic First ved Date	ing other attached docum ing this form, and the app al with a new form is to be ial Use Only Submittal JS E Signature	ents, of this sut roval provided e submitted Received	econd Subm Date (S OK t	does not release ittal S E Signature Signature
Important Modular In The assurance regulations is tim from this 2- Inquiry Date is 3- if the materia Assigne Protection REF 3(4) Installation 1 st Subm	a (signing) the si e of compliance the sole response is a lowork days i l is not approved Received D Signature Distribution on Engineer Protect 2013 . The ons Engineer	ate of the design sibility of the e from date of re- by the second ate of Signature Remarks For Discu For Discu	and the mater Nectrical consu- necipit d submittal a l Receive Receive Arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive arrive and a land Receive arrive a	rial, and/or a ultant stamp new submitt For Offic First ved Date	ing other attached docum ing this form, and the app al with a new form is to be ial Use Only Submittal IS E Signature	ents, of this sut roval provided e submitted Received	econd Subm Date (S OK t	does not release ittal S E Signature Signature o Stamp
Important Modular In The assurance regulations is tim from this 2- Inquiry Date is 3- if the materia Assigne Protection REF 3(4) Installation 1 st Subm	a (signing) the si e of compliance the sole response is 10 work days i i is not approved Received D Signature Distribution d to Engineer Protect 2013 . The ons Engineer	ate of the design sibility of the e from date of re- by the second ate of Signature Remarks For Discu For Discu	and the mater Nectrical consu- necipit d submittal a l Receive Receive Arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive and a land Receive arrive arrive and a land Receive arrive a	rial, and/or a ultant stamp new submitt For Offic First ved Date	ing other attached docum ing this form, and the app al with a new form is to be ial Use Only Submittal IS E Signature	ents, of this sut roval provided e submitted Received 013/4/24 mit mit	econd Subm Date (S OK t	does not release ittal SE Signature Signature o Stamp

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 2nd Submittal J AIW AND Signature BOLEBPICS/ 650/04/07/2015 IS - (MV - Panel App Form) -V7 - 25/11/2008

		LISTAS (THAN	
	12.0	ar General Electricity and Water Compration	
		to the second distance in the second distance second	
		omit: Services Oppartment - Installations Sactio	
	MA-5-HUR	A Manufacturion Convincia Tubinitia	F. Duni
Constants and	Constant States and States	General information Customer Name	and the second se
BP No.	56179	ALOMAN	A INPUCTORES
ype of Build		Location (Area)	
Walk		5 GUIDING NEW INC	USTRIAL AREA
Janufactura	Marno	MARAR ON MATRE ELE	PETER MICHANICAE GREEPA
GATAN	and strength of the strength o		
pplicaut's e	Toylo (a	Age - gatas - Com	Stame & Owner DigominsStamo
MV-Panel	Quantity 1	Atge	
Information	ACS Rating CosA		1900
-p=10g=10a	ite Date		A Company of C
Submittal	Submittal	(1) to 10	new men
		A CONTRACTOR	THE REAL INDUSTRIES
		AL A SIGNATION	Short Circont &
	Sopy of Single Line	Material Disorant's Stamp &	
Attachments	Oisgram	Lief Diagram ² Signature ical Operation & Functional Tests Certificate intervention of Functional Tests Certificate	
num from this r 1 - Inquiry Date R 7 - If the material	 work days from dats of receip is not approved by the second su 	nt Jomittal a new automittal with a new form a follo	g รมปีหาสมัย
(A. S. Salt		For Official Use Univ	Second Submittal
and the	Received Date	First Submittat	Particular second and a second second
00	2 2013	0	
20	3 BigBlues	Jacon Vin	P
	Distribution	L. L. Lait Red and	
		Deputyon Clate 10 2 Sugardiser	Received Onto 13 6 Signature
	Propagation	Generation Date 10 2 Standarger	Racelved Onte 18 6 Signature
Assigned	and the second se	Considers Cate	Racelved Oate IS & Signature
Protectio	n Enginger Remarks	Constant Date 10 2 Summer	Racelved Onte 18 6 Signature
Protectio	n Engineer Remarks	Chambers Date 10 2 Summer	Raceived Onto 13 6 Signature
Protectio	n Engineer Remacks	Thursd Ck	Racavod Call
Protectio REF unstailatio	n Englower Remarks Prikany (lacked) ana Engineer Remarks		Addition of the second
Protectio	n Englower Remarks Prikany (lacked) ana Engineer Remarks	Correct and resub	mit OK to Stamp
Protectio REF unstailatio	n Englover Remarks Fritanse (Jacked) ans Englover Semarks atal (Grisphansed)		mit OK to Stamp
Protectio RCF tristellatio	n Englover Remarks Fritanse (Jacked) ans Englover Semarks atal (Grisphansed)	Correct and resub	mit OK to Stamp
Protectio RCF tristellatio	n Englover Remarks Fritanse (Jacked) ans Englover Semarks atal (Grisphansed)	Correct and resub	mit OK to Stamp
Protectio RCF tristellatio	n Englover Remarks Fritanse (Jacked) ans Englover Semarks atal (Grisphanned)	Correct and resub	mit OK to Stamp
Protectio RCF tristellatio	n Englover Remarks Fritanse (Jacked) ans Englover Semarks atal (Grisphanned)	Correct and resub	mit OK to Stamp
Protectio RCF tristellatio	n Englover Remarks Fritanse (Jacked) ans Englover Semarks atal (Grisphanned)	Correct and resub	mit OK to Stamp
Protectio ACF unstallation 1 Subm	n Engineer Remarks Fridanse (Asched) ans Engineer Remarks attal Anproven All Anproven	Correct and resub	mit OK to Stamp
Protectio ACF unstallation 1 Subm	n Englover Remarks Fritanse (Jacked) ans Englover Semarks atal (Grisphanned)	Correct and resub	mit OK to Stamp
Protectio KEF urstallatio	n Engineer Remarks Fridanse (Asched) ans Engineer Remarks attal Anproven All Anproven	Correct and resub	mit OK to Stamp

			KOHBR (JMAA ALL MAA Electricity and Water	- 3-AI		
		Customer Service لىدينك Manufac	es Department – Insta ذخليات المشتركين – قسم الا stucing: Drawings	llations Section (الرام) Submittal F	orm	
		جهد المتخفض	حراله لوحات توزيع ال	atom C a bea	Constant South	THE REAL PROPERTY OF
Notion 1	Carland's illus	. Ge	neral Informatio			in the state of the second
BP No.	62.8	- 44-7	NASS	er Name	AMAD NASE	F. AL - MARI
Type of Build	ling	TTYP). RES.	Locatio	n (Area)	MANSOUR	
PROPOSET Manufacturer		- pro-	Supplie	er Name	LECTROME	CHANICAL
GATTAR I Applicant's e	-mail O	Quinctrope A	54	1000		
	Quantity 1	29c - gata C		Consultant Sta Signatur		r Signature/Stamp
MV-Panel Information	ACB Rating 2.52	A	1		(Judy)	1 de
New Submittal	Re- Submittal	Date		A UNI ARGUN		~
		le Lino Material logram List	Three Line Diagram	Stamp & Signature	*1 Copy of submittal	Short Circuit & Temp Rise test Certificate
regulations is t	the sole tesponsiumly	design and the material of the electrical consulta ate of receipt a second submittal a new				
			or Official Use O			1. Ostaku Mander Su
1. S. 1. 1	Received Date	1979. 1 912. 1997	First Submittal	e socialization i	Second	A A A A A A A A A A A A A A A A A A A
4			13			Submittai
	2.201 Signature	2 Amin	-2-13 1.C		Roceiver Date	IS E Signature
R. M. Spinster	Distribution	Raceiveo	2 13 1e	Signature	Roceived Date	
Assigned	Distribution	Raceivec	2 13 1e	Signature	Roceived Date	
Protection	Distribution i to Sign n Engineer Rema	Racejvec arks	I Date IS E		fond	IS E Signature
Protection REF F	Distribution to Slgm n Engineer Remain Projection	arks Scheme B	I Date IS E		Roceived Date	
Protection REF &	Distribution to Slgm n Engineer Remain Yol Children Distribution	arks Schene B 30/7/0/2015 marks	J Date ISE		fond 13/02/2015	IS E Signature
Protection REF f Monoralistic Installatio	Distribution to Slgr n Engineer Rem Yol Children Distribution Slgr Distribution Slgr Note the state of the state o	arks Scheme 5 10/7/0/2012 marks/	Date ISE	1 and pprone	fond 13/02/2015	IS E Signature Signature
Protection REF &	Distribution to Slgr n Engineer Rem Yol Children Distribution Slgr Distribution Slgr Note the state of the state o	arks Schene B 30/7/0/2015 marks	Date ISE	Ipprove	fond 13/02/2015	IS E Signature Signature OK to Stamp

IS - (MV - Panel App. Form) -VY - Te/11/5114

()

			Qatar General	Electric	ity and W	later Corporat	tion					
		C	Surtamor Sprite	es Depa	riment - I	nstallations Se	notas					
		MV-Pa	and Manufa	cturing	ت الكتركين g Drawi	nas Submi	ittal F	orm				
	Contraction of the	** Control with	يد المنطقي G	فرزيع الج eneral	Informa	مرڈج تسلیم خرا ation		14	E des	N 191.5	YES WORK	<u>64</u>
DRECHNA!	Hall Marshy	HACE AND	110 / H 240 / H	of the state	Cust	omer Name	e					
IP No.	631	83				DRIVA	11	Enert	NEER	ing	OFFIC	E
ype of Buil	ding		_		Loca	ition (Area))					
AALLIC	Iding <u>7 Monci</u> er Name	& Crues	C Prove (N LAWE	Sup	olier Name		TAKE_				
fanutacture (Geren.	Court	ALLA PORT	Co.	N	JAP Co	INC	c. Q.	+TAK	2 10	. L. L	
pplicant's	e-mail	MAN E ENTIT	cricit in									
pp		C	1	6		Consult	ant Sta	amp &	0.00	er Signati	ire/Stamp	
V-Panel	Quantity	11 1				sig	gnaturi	0		-		
formation	ACB Rating	2500 A 16	00 A			IN E)-		1	7/0	aa	A
New	Re-		Dato			-			Y	FTA	Res	VU
Submittal	Submit	tal		ſ				A., 4	1	7	[].U.	AI
V	1 [1	1	ECC	-byle Al	沈公	Shi M	F 1	0/		13
						ERING CONS		NTS CEO		6pon	pressie .	N/P
	Copy of approved	Single Line Diagram	Material List		gram	 Signature 		submit		Signal Car	記述の	2
tachments	6713	1			-	Losts Cartifica	ates				the presenter	1000
The assurance regulations is him from this	 (signing) the second sec	of the design a sibility of the ele	15 engineer, lw and the material actrical consult	io axtra c I, and/or i ant stamp	any other ping this fe	attached docu attached docu arm, and the ap	e onom Iments, Ipprova	, of this out il provided i	arraiters inti	Ih KAHRA	MAA rules :	and se
The assurance regulations is him from this	 d (skining) the second cet ce of compliance the sole response 	of the design a sibility of the ele	IS engineer, tw and the material ectrical consulta eipt submittal a ner	io axtra c I, and/or i ant stamp w submitt	cooles (ph any other ping this fo Ital with a i	attached docu attached docu arm, and the ap new form is to	e onom Iments, Ipprova	, of this out il provided i	arraited tot	Ih KAHRA	MAA rules :	and
The assurance regulations is him from this	g (skining) the so ce: the sole response the sole responsibility. is 1 - work days in t is not approved	ubmitted by the of the design a sibility of the ele rom date of rec by the second	IS engineer, tw and the material ectrical consulta eipt submittal a ner	o extra c I, and/or ant stamp w submitt	cooles (phi any other ping this fo tal with a r cial Uso	attached docu attached docu orm, and the ap new form is to Only	e onom Iments, Ipprova	, of this sut il provided (smitted	miltal wi	Ih KAHRA	MAA roles :	and
The assurance regulations is him from this	 (signing) the second sec	ubmitted by the of the design a sibility of the ele rom date of rec by the second	IS enginner, lw and the material ectrical consulta aipt submittal a ner Es	io axtra c I, and/or i ant stamp w submitt or Offic First.	cooles (oh any other ping this fe Ital with a i cial Uso Schimit	attached docu attached docu orm, and the ap new form is to Only	e onom Iments, Ipprova	, of this sut il provided (smitted	miltal wi	In KAHRA IAMAA do	MAA roles :	and
nportant Nolli The assurance ragulations is him from this Inquiry Date i If the materia	g (skining) the so ce: the sole response the sole responsibility. is 1 - work days in t is not approved	ubmitted by the of the design a sibility of the ele rom date of rec by the second	IS enginner, lw and the material ectrical consulta aipt submittal a ner Es	o extra c I, and/or ant stamp w submitt	cooles (oh any other ping this fe Ital with a i cial Use Schimit	attached docu attached docu orm, and the ap new form is to Only	e onom Iments, Ipprova	, of this sut il provided (smitted	miltal wi	In KAHRA IAMAA do	MAA roles :	and ise
nportant Nolli The assurance regulations is him from this Inquiry Date i If the materia	((skinion) the se cet the sole response the sole responsibility, is 1 work days fi l is not approved Received D -{2, 2c Signature	obmitted by the of the design a sibility of the ele rom date of rec by the second	IS enginner, lw and the material ectrical consulta aipt submittal a ner Es	io axtra c I, and/or i ant stamp w submitt or Offic First.	cooles (oh any other ping this fe Ital with a i cial Use Schimit	attached docu attached docu orm, and the ap new form is to Only	e onom Iments, Ipprova	, of this sut il provided (smitted	miltal wi	In KAHRA IaMAA do Submilt	MAA rules : es not relea 1	and ise
portant Noli The assurance ragulations is him from this finquiry Date i If the materia	((skinion)) the se cet be of compliance the sole respon- responsibility. is 1 work days in 1 is not approved Received D -{2, 2c	obmitted by the of the design a sibility of the ele rom date of rec by the second	IS enginner, lw and the material ectrical consulta aipt submittal a ner Es	io extra c I, and/or a ant stamp w submitt or Offic First- - 2 -	coolus (ohr any other ping this fo ttaf with a) cial Uso Solumit	attached docu attached docu orm, and the ap new form is to Only	iments, ipprova	, of this sut il provided (smitted	mital wi	In KAHRA IaMAA do Submilt	MAA roles :	and ise
portant Noli The assurance ragulations is him from this finquiry Date i If the materia	((skinion)) the so cet the sole compliance the sole response is 1 work days fi 1 is not approved State Received D -(2, 2c Signature (Distributio	obmitted by the of the design a sibility of the ele rom date of rec by the second	IS enginner, Iw and the material ectrical consult appt submittal a new Fr	io extra c I, and/or a ant stamp w submitt or Offic First- - 2 -	coolus (ohr any other ping this fo ttaf with a) cial Uso Solumit	attached docu attached docu orm, and the ap new form is to Only tal	iments, ipprova	, of this sut il provided i smitted St	mital wi	In KAHRA IaMAA do Submilt	MAA rules : es not relea 1	and ise
portant Noli The assurance regulations is inim from this finquiry Date i If the materia	a (skining) the so ce: be of compliance the sole response the sole response is not approved compliance responsibility. is not approved compliance compli compliance compliance compliance compliance compliance c	obmittal by the of the design a sibility of the ele rom date of rec by the second of the second signature Signature Remarks	IS enginner, lw und lhe material ectrical consult appt submittal a ner Fr B Received	io extra C I, and/or i ant stamp w submitt or Offic First - 2 - I Date	contes (phr any other ping this fo that with a) cial Use Solumit , 1, 3	attached docu attached docu orm, and the ap new form is to l Only tal	be sub	, of this sut il provided f amitted S Roceived f	mittal wi by KAHP econd	In KAHRA IaMAA do Submilt	MAA rules : es not relea 1	and ise
Assigned Protectio RSS Pro	a (skinion) the so cet the sole respon- responsibility. is 1- work days fi 1 is not approved Accentrat D -{2,.2c Signature Distribution d to m Engineer f 	obmittal by the of the design a sibility of the ele rom date of rec by the second sibility of () Signature Remarks	IS engineer, lw and the material ectrical consulta eipt submittal a ner Fo Received C pecche	io extra C I, and/or i ant stamp w submitt or Offic First - 2 - I Date	contes (phr any other ping this fo that with a) cial Use Solumit , 1, 3	attached docu attached docu orm, and the ap new form is to Only tal 5 E Signature	be sub	, of this sut il provided i smitted St	mittal wi by KAHP econd	In KAHRA IaMAA do Submilt	MAA rules : es not relea 1	and Ise
Assigned Protectio RSS Pro	a (skining) the so ce: be of compliance the sole response the sole response is not approved compliance responsibility. is not approved compliance compli compliance compliance compliance compliance compliance c	Signature	IS engineer, lw und the material ectrical consult appt submittal a new Fs Received C heach	io extra C I, and/or i ant stamp w submitt or Offic First - 2 - I Date	solus (ph any other ping this fo ital with a) sial Uso Solumit , 1, 3 (2)	attached docu attached docu orm, and the ap new form is to l Only tal	be sub	, of this sut il provided f amitted S Roceived f	mittal wi by KAHP econd	IS E	MAA rules : es not relea 1	and ise
Assigned Protection	a (skinion) the so cet the sole respon- responsibility. is 1- work days fi 1 is not approved Accentrat D -{2,.2c Signature Distribution d to m Engineer f 	sibility of the design a sibility of the design a sibility of the electron date of rec. by the second of the secon	IS engineer, lw und the material ectrical consult appt submittal a new Fs Received C heach	in extra C I, and/or i ant stamp w submitt or Offic First - 2 - i Date	ing this for any other ping this for that with a in sial Uso Solumiti - 1 3 IS	attached docu attached docu orm, and the ap new form is to Only tal 5 E Signature	be sub	, of this sut il provided f amitted S Roceived f	mittal wi by KAHP econd	IS E	MAA rules : es not relea il Signature	and Ise
Assigned Protection	a (skining) the so ce: the sole responsibility, is 1- work days in 1 is not approved Received Received C Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature D Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signature Signa	sibility of the design a sibility of the design a sibility of the electron date of rec. by the second of the secon	IS engineer, lw und the material ectrical consult appt submittal a new Fs Received C heach	in extra C I, and/or i ant stamp w submitt or Offic First - 2 - i Date	ing this for any other ping this for that with a in sial Uso Solumiti - 1 3 IS	attached docu attached docu orm, and the ap new form is to l Only tal	be sub	, of this sut il provided f amitted S Roceived f	mittal wi by KAHP econd	IS E	MAA rules : es not relea il Signature	and ise
Assigned Protectio RES Protectio Installation	a (skining) the so ce: the sole compliance the sole response the sole response is '- work days fill is not approved A a Received 'D -{2, 2c Signature Distribution d to m Engineer fill - ('o Distribution ('o	obmittal by the of the design a sibility of the ele rom date of rec by the second inter- io ()	IS engineer, lw und the material ectrical consult appt submittal a new Fs Received C heach	in extra C I, and/or i ant stamp w submitt or Offic First - 2 - i Date	correc	attached docu attached docu orm, and the ap new form is to Only tal 5 E Signature	be sub	, of this sut il provided f amitted S Roceived f	mittal wi by KAHP econd	IS E	MAA rules : es not relea il Signature (mature Stamp	and Ise
Assigned Protectio RES Pre- Installatio	a (skanica) the so ce! ce of compliance the sole responsibility. is '- work days fill is not approved Received'D -{22c Signature Distribution d to m Engineer fill Acchical Sc cons Engineer ittal	abbility of the design a sibility of the design a sibility of the ele- rom date of rec by the second in a signature Remarks licence in Remarks Approved Approved	IS engineer, lw	io extra c I, and/or i ant stamp w submitt or Offic First. - 2 - I Date (of Cov	correc	attached docu attached docu orm, and the ap new form is to Only tal 5 E Signature	be sub	, of this sut il provided f amitted S Roceived f	mittal wi by KAHP econd	IS E OK to S	MAA rules : es not relea il Signature (mature Stamp	and ise
Protection RSF Protection Installation	a (skanica) the so ce! ce of compliance the sole responsibility. is '- work days li is not approved Received'D -{22c Signature Distribution d to m Engineer f Acchical Sc cons Engineer ittal	abbility of the design a sibility of the design a sibility of the ele- rom date of rec by the second in a signature Remarks licence in Remarks Approved Approved	IS engineer, lw und the material ectrical consult appt submittal a new Fs Received C heach	io extra c I, and/or i ant stamp w submitt or Offic First. - 2 - I Date (of Cov	correc	attached docu attached docu orm, and the ap new form is to Only tal 5 E Signature	be sub	, of this sut il provided f amitted S Roceived f	mittal wi by KAHP econd	IS E OK to S	MAA rules : es not relea il Signature (mature Stamp	and ise
Assigned Protectio RSS Pro The submit	a (skanica) the so ce! ce of compliance the sole responsibility. is '- work days li is not approved Received'D -{22c Signature Distribution d to m Engineer f Acchical Sc cons Engineer ittal	abbility of the design a sibility of the design a sibility of the ele- rom date of rec by the second in a signature Remarks licence in Remarks Approved Approved	IS engineer, lw	io extra c I, and/or i ant stamp w submitt or Offic First. - 2 - I Date (of Cov	correc	attached docu attached docu orm, and the ap new form is to Only tal 5 E Signature	be sub	, of this sut il provided f amitted S Roceived f	mittal wi by KAHP econd	IS E OK to S	MAA rules : es not relea il Signature (mature Stamp	and ise
Assigned Protection RSF Protection Installation Protection Installation	a (skanica) the so ce! ce of compliance the sole responsibility. is '- work days li is not approved Received'D -{22c Signature Distribution d to m Engineer f Acchical Sc cons Engineer ittal	abmittal by the of the design a sibility of the ele- rom date of rec by the second in a signature Remarks lease in Remarks Approved Approved	IS engineer, lw	io extra c I, and/or i ant stamp w submitt or Offic First. - 2 - I Date (of Cov	correc	attached docu attached docu orm, and the ap new form is to Only tal 5 E Signature	be sub	, of this sut il provided f amitted S Roceived f	mittal wi by KAHP econd	IS E OK to S	MAA rules : es not relea il Signature (mature Stamp	and ise
Assigned Protection RSF Protection Installation Protection Installation	a (skanica) the so ce! ce of compliance the sole responsibility. is '- work days li is not approved Received'D -{22c Signature Distribution d to m Engineer f Acchical Sc cons Engineer ittal	abmittal by the of the design a sibility of the ele- rom date of rec by the second in a signature Remarks lease in Remarks Approved Approved	IS engineer, lw	io extra c I, and/or i ant stamp w submitt or Offic First. - 2 - I Date (of Cov	correc	attached docu attached docu orm, and the ap new form is to Only tal 5 E Signature	be sub	, of this sut il provided i smitted Si Received I	Cond Cond Cond Cond Cond Cond Cond Cond	IS E	MAA roles : es not relea il Signature (nature Stamp Stamp	and ise
Protection References Installation Protection References Installation Protection References Installation	a (skanica) the so ce! the sole compliance the sole compliance the sole compliance the sole compliance the sole compliance tesponsibility. is '- work days in it is not approved Received 'D -{22_c Signature ID stribution d to m Engineer f (sole Sole Sole (sole Sole Sole (sole Sole Sole (sole Sole Sole Sole (sole Sole Sole Sole Sole Sole Sole Sole S	ability of the design a sibility of the design a sibility of the ele- rom date of rec by the second sibility of th	IS engineer, lw	io extra c I, and/or i ant stamp w submitt or Offic First. - 2 - I Date (of Cov	correc	attached docu attached docu orm, and the ap new form is to Only tal 5 E Signature	be sub	, of this sut il provided i smitted Si Received I	Cond Cond Cond Cond Cond Cond Cond Cond	IS E	MAA roles : es not relea il Signature (nature Stamp Stamp	and
nportant Nolli - The assurant regulations is him from this - Inquiry Date i - If the materia - If the materia - O Assigned Protectio RES Pro- - Installatio - Installatio - Installatio - Installatio	a (skanica) the so ce! ce of compliance the sole responsibility. is '- work days li is not approved Received'D -{22c Signature Distribution d to m Engineer f Acchical Sc cons Engineer ittal	ability of the design a sibility of the design a sibility of the ele- rom date of rec by the second sibility of th	IS engineer, lw	io extra c I, and/or i ant stamp w submitt or Offic First. - 2 - I Date (of Cov	correc	attached docu attached docu orm, and the ap new form is to Only tal 5 E Signature	be sub	, of this sut il provided i smitted Si Received I	Cond Cond Cond Cond Cond Cond Cond Cond	IS E OK to S	MAA roles : es not relea il Signature (nature Stamp Stamp	and ise

		KUHEA مريام tar General Electricity ar التقرية للكورياء و الماء tomer Services Departmen	المرسبة العلية t – Installations Section		
	MV-Pan	شتركين – قسم التعديدات. Manufacturing Dra	الارة عمام الم awings Submittal f	Form	
		رحات توزيع الجهد المنخفض	the second second second second second second second second second second second second second second second se	or the grant of	
	allan an an an an an an	General Info	mation	en le prove service	
BP No.	26805		ABDULLA F	FAHAD S	AL-BUZWAIR
Type of Build	OFFICE L	BULLDING	ocation (Area) ALHHU upplier Name	AL, Do	HA GATAR
Manufacture	r Name	SUITCHEAR CO	AZZAD	VI -F P	AKTNERS
Applicant's e	mail	atar com			
MV-Panel Information	Quantity 1 ACB Rating PODOA Rob Submittal Dat	<u> </u>	Consultant Si Simplur		ar Signature/Stamp
Attachments	Copy of epproved Diagram	Material Three Lin List Diagram		*1 Copy of submittal	Short Circuit & Temp Rise test Certificate
him from this n T - Inquiry Date is T - If the material	asponsibility. >- work days from date of receip is not approved by the second su	ot Ibmilitat a new submittal wi		bmitted	
		First Sub		Second	Submittal
4	Received Date 16 - 20 12 Signature Distribution	Received Date	IS E Signature	Received Date	IS E Signature
Assigned		Charles and parts of	CARLES AND SHE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0/1
REF.S	tengineer Remarks	PSOCA LA ponel	checked &	bund ok.	Signature
Installatio	ns Engineer Remarks	C Cor	rect and resubmit		OK to Stamp
r ^{ind} Submi	and a second sec	1.18.	rect and resubmit		OK to Stamp
Cab	les size and a	Utzana)s (100	IC Sings	مع المشتركين مناقع المشتركين	ature

IS - (MV - Panel App Form) - VY - to/ty/

C.I.

Anna Contrato (Qatar General Electricity and Water Corporation) المزيسة المليزية التيزية اليوياء ر الداء Customer Services Department – Installations Section إدارة خلاك المشرعين – قلم الصديمان MN-Pared Manufecturing Dr. where Submitted Earth Ganeral Intermetion Customer Name AL-MANA 10085 SAAD MOHAMMED Lossen (rea) you of Duilding MAREKA COMPOUND upplier Name TNERS Ganofacturer Name GAZZADUI SWITCHCIEAR CO REEMAN AATARI Applicant's e-mail @ age - gatar . com Ovino Company 2080 nfo Continent Statutes Quantity WV-Panel Information 2500A ACB Rating Re-Date New Submittal Submittal Eterri Circon S Copy of submittal Certificate Stamp & Three Line Mathrial Single Line Diagram Copy of Signatura Diagram approved BP Dielacuic Properties, Mechanical Operation & Functional Tests Certificates Attachments After approving (stream) the submittal by the IS engineer, two extra copies (photocomy) of the example second be submitted for first class, important flotice; 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 Inquiry Data is 1+ work days from data of receipt
 Inquiry Data is 1+ work days from data of receipt
 In 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 8-11-12 S. 2012 Signature IS & Signature Distributio Recolved Date 20 d Signature Ir Remarks ptection Equin ~ 5/8/202 mend Schan 1-5 REF Prekelion ADENON lignature 8/20VL installations Engloper Remarks Correct and resulation Approved "Sohmittat Stamp aprovad 1 D_{G} - out gring + Nuft Mable. 5 - KW- Pre

	کېږيام و الماء Customet Services Dev	ricity and Water Corporation المؤسسة المله التكرية لا gartment – Installations Section
	فيم التعييلات MV-Papel Manufacturi	ng Drawings Submittal Form
	زيع الجهد المنخفض	سردج تسليم خرائط الرحات تو
	Genera	I Information
BP No. 1	DM 1258	NASSER GASSIM DARWISH FALITROD
Type of Build	ding HOTEL & CLUB	Location (Area)
Manufacture		AL-KHOCEES MODERN LIGHT
	GERMAN SWACKSEAR (C D-mall D & Age - Gaby. Com	
MV-Panel	Quantity 1	Consultant Stamp & V Owner Bigmetine Signature
Information	ACB Rating 1608 A	شاكة الدامة للغناقي والسيامة
New Submittal	Re- Submittal	Oasis flotels & Tourism Company WLL
10		Short Circuit &
Attachments		blagram Signature submittal Certificate
him from this	responsibility. s > work days from date of receipt its not approved by the second submittal a new subr	mping this form, and the approval provided by KAHRAMAA does not release mittal with a new form is to be submitted
		st Submittal Second Submittal
14	- 10 - 2012 Signature Distribution Received Date	2 De Received Data IS E Signature
Assigne		and the second second second second second second second second second second second second second second second
	R AL AND DAMAGE	
Protectio	n Engineer Remarks	anil Pond ou in 22/10/2012
Protection REF Pro	tection schene is checked	
REFPRO	it is Approved. Like 1 ons Engineer Remarks	Zavz Signature
REFPRO	ittal Approved	Correct and resubmit OK to Stamp
REF Pro	ittal Approved	Zavz Signature
REFPro Installation	ittal Approved	Correct and resubmit OK to Stamp

 \cap

	Cust	ریه للکېریاء و الباء omer Services Departi بن – فیر التدینان	AMA v and Water Corporation المزيسة الملية mant – Installations Section المزينة خدمات المشتر المزينة حمات المشتر		
	MV-Pane	ت توزيع الجهد المتخفض	Drawings Submittal نموذج تسایم خرائط لرحاد		
E LENA		General Ir	formation		
BP No.	55620		PRIVATE	ENGINEERI	ING OFFICE
Type of Build	Ing HOTEL		Location (Area) Soup Wi Supplier Name	AGIE, Dol	HA, GATTRE
	EL CLERMAN SW		GA 22AU	UI & PAR	TNERS
A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	Quantity 1	Com	Consultant	are and a second second second second second second second second second second second second second second se	ner Signature/Stamp
MV-Panel Information	ACB Rating RSDUA 800	A		C WI I	
New Submittal	Re- Submittal 02 02	8/2012-	MZ & PARTNER	ing Consolitanty	200
Attachments	Copy of approvedSingle Line DiagramBPDiagramDialectric Properties, Mechan	Material Three List Diag	ram Signature	*1 Copy of submittal	ShortCite & Tempisisa tot Certificate
regulations is	 and the design and the sole responsibility of the electresponsibility. work days from date of recail is not approved by the second state of				terresto not release
Standard States			ial Use Only	in paradiment	
2- Assigned	Received Date: And Signature Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution	First	Submittal US E Signature	Second Received Date	I Submittal IS E Signature
Protectio	n Engineer Remarks	11 check	d and Count	A4 cm -	1/
86F P	2012 They for,	it is Apr	scone 1 30/09	12012	Signature
	ons Engineer Remarks	Contraction and the second	Correct and resubn	nit [OK to Stamp
1 st Subm			Correct and resubn		LOK TO Stamp
Sec.	Approved The comments is	1 Killing	all allot	And And And And And And And And And And	ignature 8 111 201 L
IS - (MV - Panel	Αρρ. Form) VY ٢٥/١١/٦٠٠٨	the start	P.O. Box: J tage Oche - Qatar C.R. No: 41013	2	

and the second second second second second second second second second second second second second second second	ng a bakadapa salamati gi i inni Ng Kangelang setar pige at la ta maduja
21006	Ministry of Awgat.
1, a of Edinomy Islamic Contor Building	Industrial Area
Constructional Dama QGC	GAZZADUI / HKH
Replicent's comments 2 Replicential Comments 2 Information Automatics 250	Singer States
Submittal	
	niee Line State Constant State Constant State St
the background of the second second second second second second second second second second second second second	Yakan Unite Yahaya
Engling - D	
Approved A	villalsala
Approved Provide Single Line	11/10/200

()

	المرا المعالية المراجعة - المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة الم المراجعة المنظور المراجعة المنظور المراجعة المنظور المراجعة المنظور المراجعة المنظور المراجعة المنظور المراجعة
Mu Parpol	anufacturing Drawings Bubrollian Forth
TANK STANDARD STANDARD	construction and the second second second second second second second second second second second second second
25337	Customer Name Jolellev, Lallace
pa of Building	Win Location (Arou) Do'VI -telein
anufacturer Name	Supplier Name HANTED ELECTROMECHANICAL INTL
iplicant's a-mail	(W/TER) ELECTINO FIEL CHARACTER TALL
	Consultant Stanlers & Demon Signature Digun
V-Panel Quantity 4	ST and simple the
formation ACS Rating 259 0	and a second and a second as a
New Re- Submittal Submittal Date	- Edges Bassesson in and Edge
	11111111 Autom
approved	cloidel Three Line Stano S Concob Tamp Niss on List Diagram Stanature antimized Contracter
achments BP	and the second
Distactric Properties, Mechanical for approving (stanian) the submittal by the Color partner Molton the disturbance of compliance of the design and the synthican is the acts inspirationality of the disclorum partner transmission addition	Operation & Functional Tests Cartificates uncer, task active cooles (obstances) of the original should be adverted for and should be minimized aution any other infatiend distances at this is been device the distances of some that standing less than , but he upproval consider the test of the standard standard standard in the standard of the standard standard standard standard in the standard st
Dialactric Propertius, Mechanical filer approving (stanion) the submitted by the 45 and partner Moltse: the discussion of compliance of the observation egolations is the color inspiration and your state about the respect to the respect shally. Inspire Data is Neward days from only or recept films insteaded by the second scheme	nores, tusi satta capies (photoconv) of the original solution and the deal of the second solution of the second so
Dielactric Propertius, Mechanical for approving (stanian) the submittal by the LS set partner Moltse: The dissurance of compliance of the design and the systematic responsibility of the disclorum matrices that responsibility. If the disclorum matrix that responsibility frims unaterial to not approved by the second orders	nores, tast satta capies (photocov) of the operation inductor and the device of the operation of the device of the
Dielactric Propertius, Mechanical the controlling (stanion) the submittal by the E-set partiant Mol(set The disturbance of cheropliance of the occurry and the epsilitions is the acte margination of the occurry and nois this responsibility intermediate is worked days from only of rescent rithe material to not approved by the vectored occurry in an initial responsibility in material to not approved by the vectored occurry in a material to not approved by the vectored occurry in a material to not approved by the vectored occurry in a material to not approved by the vectored occurry in a material to not approved on the vectored occurry in a material to not approved on the vectored occurry in a material to not approved on the vectored occurry in a material to not approved on the vectored occurry in a material to not approved on the vectored occurry in a material to not approved occurry in a material to noccurry in a material to noccurr	nores, tasi satta capies fontrecorvi at the annual sharener are finded to find an internet state of the design of the annual state of the design of the upper of the design of the desig
Dielactric Propertius, Mechanical for approving (stanion) the submittal by the Color partner Metice: The dissurance of compliance of the design and the systematic respectation, standard and the design and intervention active active compliance of the design and the material respects shally. Instity Parts is Neward days from only of record rino material to not approved by the second scheme intervention of the sec	the second
Dielactric Propertius, Mechanical the approving (stanian) the submittal by the E-sector origine Molton: The discussion of compliance of the optimit and the systematic respectively of the optimit and material transmission of the optimit and material to not approved by the second optimit Record of Date 27/16/2017 Stanian Differentiation Differentiation	the second
Dielactric Propertius, Mechanical for approving (stanion) the submittal by the Color partner Metice: The dissurance of compliance of the design and the synthican is the adds compliance of the design and the material respects shally. Instity Parts is Neward days from only of receiver instity Parts is Neward days from only of receiver films material to not apprecial by the second scheme Received Date 22/16/2017 Statements Billeteibution Construc	the second
Dielactric Propertius, Mechanical for reporteing (stanion) the submittal by the Court partner Molice: The discussion of a compliance of the option and the egolutions is the association of the option and the egolutions is the association of the second and the properties the way days from only or recept line material to not approved by the second addine Received Date 2.2716/2.a.7 Received Date 2.27	nones, tasi antia capes foldencoso a di la anno di ma di la diversi di l
Dialactric Properties, Mechanical for approving (stanion) the submitted by the Color partner Molifse: The discussion of compliance of the design and the synthesis of the adds incommunity of the design and in real trait respected by the second addition interest the respected by the second addition film individual to not apprecial by the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 20/16/2007) Standard of t	neres task active comes foldercook of the operation of th
Dielactric Propertius, Mechanical for neorooling (stanion) the submittal by one to dep optimize Molifse: The discupace of compliance of the optimized by egolutions is the optimized in provide the second and monitor full respectability. Institution is the voil days from only or recept this material to not approved by the second addine Received Date 2.2.1.612 and Standard Contraction Constraints of approved by the second addine Constraints of a population of a	nones, tasi antia capes foldencoso a di la anno di ma di la diversi di l
Dialactric Properties, Mechanical for approving (stanion) the submitted by the Color partner Molifse: The discussion of compliance of the design and the synthesis of the adds incommunity of the design and in real trait respected by the second addition interest the respected by the second addition film individual to not apprecial by the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 20/16/2007) Standard of t	neres task active comes foldercook of the operation of th
Dialactric Properties, Mechanical for approving (stanion) the submitted by the Color partner Molifse: The discussion of compliance of the design and the synthesis of the adds incommunity of the design and in real trait respected by the second addition interest the respected by the second addition film individual to not apprecial by the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 29/16/2007) Standard of the second addition (Recorded Date 20/16/2007) Standard of t	neres task active comes foldercook of the operation of th

 $\langle \hat{\} \rangle$

C)

PROJECT REFERENCE LIST

SUPPLIER REFERENCE LIST



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

PROJECT REFERENCE LIST

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





Page 1 of 7



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





Page 2 of 7



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

PROJECT REFERENCE LIST





Page 3 of 7



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

PROJECT REFERENCE LIST





Page 4 of 7



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

PROJECT REFERENCE LIST





Page 5 of 7



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

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





Page 6 of 7



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

7,181

PROJECT REFERENCE LIST

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





Page 7 of 7

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+

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