

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: info@qgc-qatar.com • Website: www.qgc-qatar.com





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INTRODUCTION

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.

SILL is a public share holding company incorporated in Qatari SILL group of Companies owns several subsidiary companies in Qatar and other GCC countries since 1948 with annual turnover in excess 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.

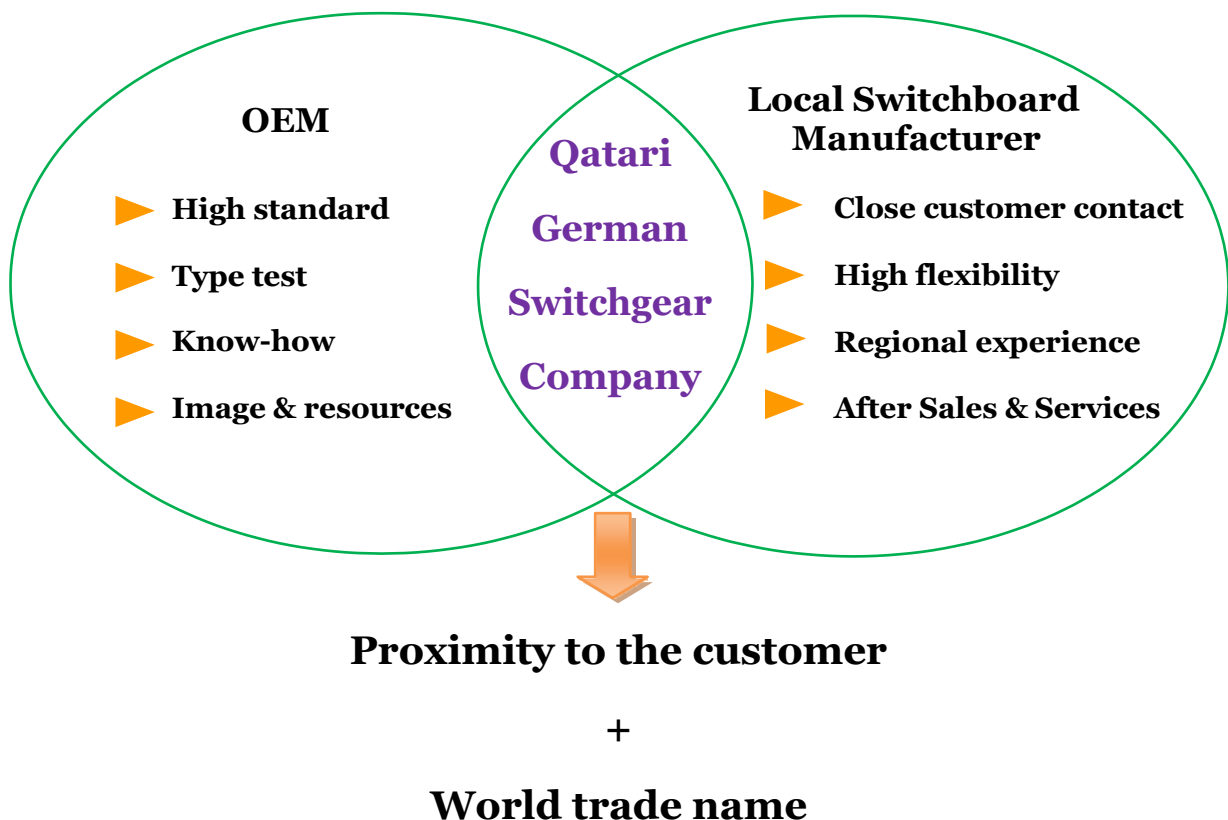
QUALITY PRODUCT

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):

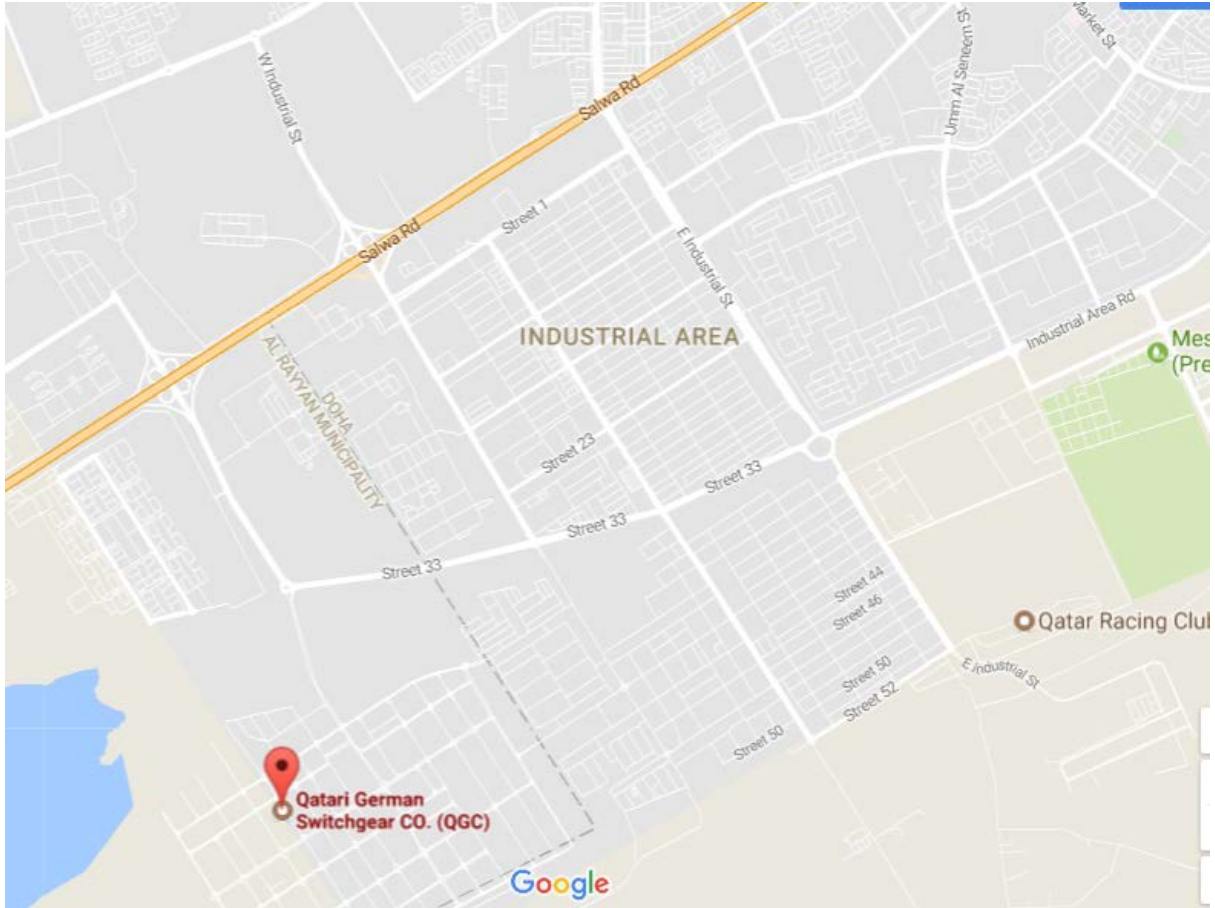




CONTACT DETAILS

NAME:	<u>QATARI GERMAN SWITCHGEAR CO. WLL</u>
POSTAL ADDRESS:	<u>P.O. BOX 23661, DOHA-QATAR</u>
E-MAIL ADDRESS:	<u>info@qgc-qatar.com</u>
WEB ADDRESS:	<u>www.qgc-qatar.com</u>
TEL. NO.:	<u>+974 4460 1992 / 4460 1376 / 4450 4535</u>
FAX NO.:	<u>+974 4460 1676</u>
CONTACT PERSON:	<u>MR. ERFAN SABERI – GENERAL MANAGER</u>

LOCATION MAP



FACTORY ADDRESS:

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

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



QGC

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	- 216.00Sqm
TOTAL BUILT UP AREA (4452.60+216.00)	- 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)

- Plot Area : 11,500 Sqm
- Existing Built up area : 4452 Sqm
- Shop floor height : 15 mts

QGC



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 :

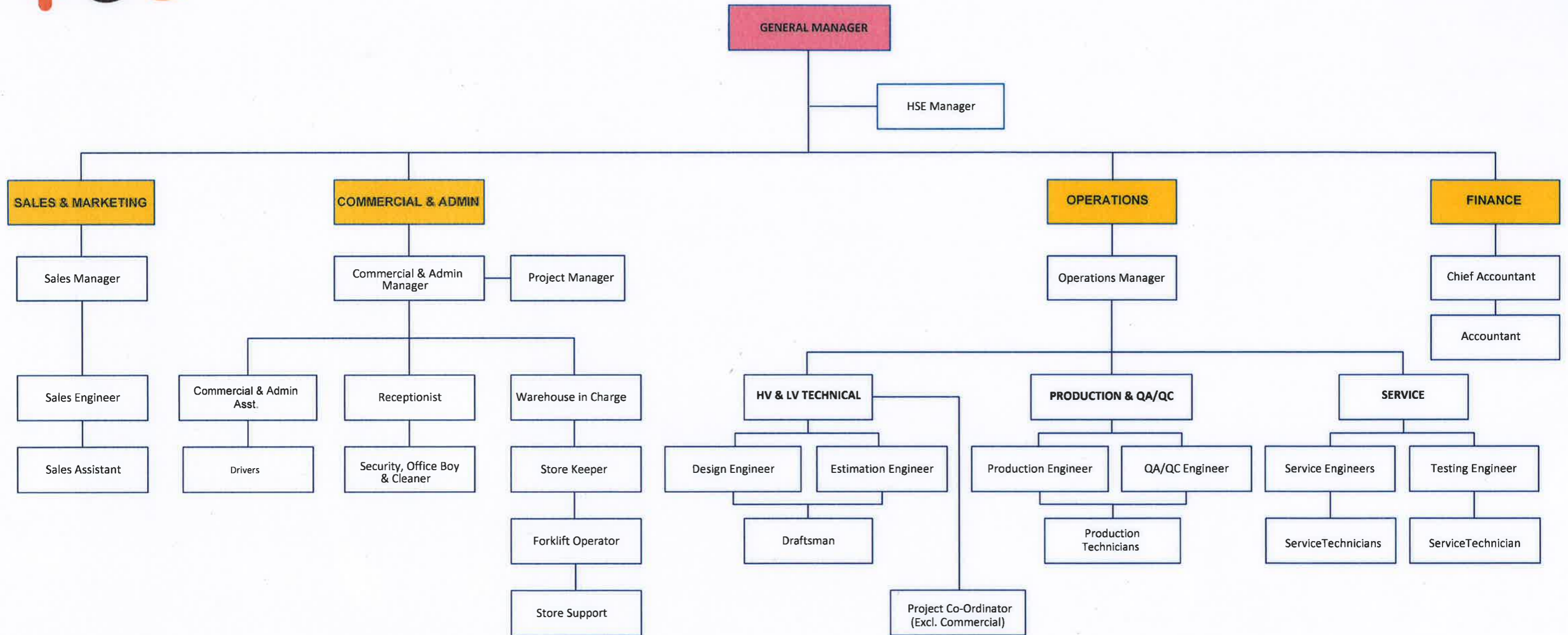
- 15mts height roof
- Shop floor area of 3600 Sqm

ORGANIZATION CHART



ORGANIZATION CHART

2022



Note:

Total Employees: 42

Based on any project requirement, the manpower can be increased.

COMPANY REGISTRATION



وزارة التجارة والصناعة
Ministry of Commerce and Industry

Registration and Commercial
Licenses Department

إدارة التسجيل
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

تاريخ الطباعة: 2022/05/16



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

المالك

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

المدرء (المخولون بالتوقيع)

الاسم	رقم الإثبات	رقم السجل	الجنسية	الصفة (الصلاحية)
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Page 1 of 2
رقم السجل : 28225



تشهد غرفة تجارة و صناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

Qatar Chamber certifies that the above mentioned establishment has been registered



وزارة التجارة والصناعة
Ministry of Commerce and Industry

Registration and Commercial
Licenses Department

إدارة التسجيل
والتراخيص التجارية

مستخرج بعض بيانات السجل التجاري

صلاحيات كاملة ومطلقة - مدير	الأردن		26240000140	محمد ياسر خليل محمد حمد
صلاحيات كاملة ومطلقة - مدير	كندا		25612400052	عدنان علي ستيبة
صلاحيات كاملة ومطلقة - مدير	قطر		28263403252	عبد السلام عيسى عبد السلام محمد ابوعيسى
صلاحيات كاملة ومطلقة - مدير	قطر		27163400470	بسام عبد السلام محمد ابوعيسى
صلاحيات كاملة ومطلقة - مدير	قطر		25563400154	عيسى عبد السلام محمد ابوعيسى
صلاحيات كاملة ومطلقة - مدير	الأردن		27340001136	فوزان فالح محمود مصطفى
صلاحيات كاملة ومطلقة - مدير	إيران		27836400432	سيد عرفان سيد محمود صابري افتخاري انار
صلاحيات كاملة ومطلقة - مدير	الأردن		26240000035	حكمت عبدالفتاح احمد يونس
صلاحيات كاملة ومطلقة - مدير	قطر		25963400171	حسام عبد السلام ابوعيسى

الأنشطة التجارية

إسم النشاط	الرقم
صناعة المعدات الكهربائية	2700000

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



Page 2 of 2
رقم السجل : 28225



تشهد غرفة تجارة و صناعة قطر بان المنشأة المذكورة اعلاه سجلت لدينا

Qatar Chamber certifies that the above mentioned establishment has been registered

ISO CERTIFICATE



BUREAU
VERITAS

Bureau Veritas Certification

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 expires on:	15-01-2025
Certificate No.:	QA002962
Version:	1
Issue Date:	14-01-2022


Vinoth. K.P - Certification Manager



0008

Certification Body Address: 5th Floor, 66 Prescott 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





BUREAU
VERITAS

Bureau Veritas Certification

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.

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 expires on:	15-01-2025
Certificate No.:	QA002963
Version:	1
Issue Date:	14-01-2022


Vinoth. K.P - Certification Manager



0008

Certification Body Address: 5th Floor, 66 Prescott 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





BUREAU
VERITAS

Bureau Veritas Certification

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.

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 expires on:	15-01-2025
Certificate No.:	QA002964
Version:	1
Issue Date:	14-01-2022


Vinoth. K.P - Certification Manager



0008

Certification Body Address: 5th Floor, 66 Prescott 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



To,
Mr. Balaji Vaithyanathan
(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 Vaithyanathan**, 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



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

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

619

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 Vaithiyathan**, 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

Client ELIMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.

Address of the client Bagdat Mah. D-100 Karayolu Cad.
No:368 43002 Kartepe, Kocaeli, TURKEY

Manufacturer ELIMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.

Tested samples/items Metal-enclosed air-insulated switchgear and controlgear
composed by three units Type 6 and 5
12 kV 800 A 31,5 kA

Tests carried out Arcing due to internal fault

Standards/Specifications Client's requests based on IEC 62271-200 (2011-10)

Tests date from April 29, 2015 to April 30, 2015

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

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No. of pages 43 **No. of pages annexed** 8

Issue date June 4, 2015

Prepared PSV - Beccarini Pierangelo
B5011539 2025 AUT

Verified PHV - Amato Marco, PSV - Vidori Mauro
B5011539 3078 VCB B5011539 2196894 VCB

Approved PMI - The Manager - Arcidiaco Lorenzo
B5011539 521814 APC

CESI S.p.A.
Testing & Certification Division
Testing Operations Area
"Milan Platform"
Manager

Client	ELİMSAN Salt Cihazları ve Elektromekanik San. ve Tic. A.S.			
Address of the Client	Bagdat Mah. D-100 Karayolu Cad. No:368 43002 KARTEPE, KOCAELI TURKEY			
Manufacturer	ELİMSAN Salt Cihazları ve Elektromekanik San. ve Tic. A.S.			
Tested samples/items	Metal-enclosed air insulated switchgear and controlgear for rated voltage composed by one unit Type EMC12QC-02V-140-T5 equipped with circuit breaker Type EVBE3 31,5 – 12 – 150.			
Tests carried out	Basic short-circuit test-duties Single-phase fault tests Single-phase double-earth fault tests Three-phase cable-charging current switching tests			
Standards/Specifications	IEC 62271-100 (2012-09) IEC 62271-200 (2011-10)			
Tests date	from	May 26, 2015	to	May 28, 2015

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

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

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 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 Dielectric tests:
- lightning impulse voltage tests;
- power-frequency voltage tests.

Dielectric tests on auxiliary and control circuits

Standards/Specifications IEC 62271-200 (2011-10)
IEC 62271-1 (2011-08)

Tests date from April 16, 2015 to April 21, 2015

The results reported in this document relate only to the tested samples/items.
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No. of pages 56 **No. of pages annexed** 2

Issue date May 11, 2015

Prepared PHV - Del Giorgio Carlo

Verified PSV - Vidori Mauro, PMV - Magistris Paolo

Approved PMI - The Manager - Arcidiaco Lorenzo

CESI S.p.A.
Testing & Certification Division
Testing Operations Area
"Milon Platform"
Manager

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/Specifications 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.

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No. of pages 11 **No. of pages annexed**

Issue date May 18, 2015

Prepared PMV - Mariani Roberto

Verified PSV - Vidori Mauro, PMV - Magistris Paolo

Approved PMI - The Manager - Arcidiaco Lorenzo

CESI S.p.A.
Testing & Certification Division
Testing Operations Area
"Milan Platform"
Manager

Client ELIMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Address of the client Bagdat Mh - D-100 Karayolu Cd. No: 368, Uzuntarla, Kartepe
Kocaeli City - TURKEY
Manufacturer ELIMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Tested samples/items Feeder CB with metering FMW TYPE 6

Tests carried out Electromagnetic compatibility

Standards/Specifications IEC 62271-1

Tests date from April 28, 2015 to April 29, 2015

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

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No. of pages 21 **No. of pages annexed** -

Issue date May 12, 2015

Prepared ECS - Aliprandi Ilario
05009147 3072 APP

Verified PSV - Vidori Mauro, ECS - Crivellaro Fabio
05009147 319854 VER 05009147 2100030 VER

Approved PMI - The Manager - Arcidiaco Lorenzo
05009147 421014 APP

CESI S.p.A.
Testing & Certification Division
Testing Operations Area
"Milan Platform"
Manager

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.

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No. of pages 23 **No. of pages annexed** 8

Issue date May 15, 2015

Prepared PHV - Gregori Marco

Verified PSV - Vidori Mauro, PMV - Magistris Paolo

Approved PMI - The Manager - Arcidiaco Lorenzo

CESI S.p.A.

Testing & Certification Division

Testing Operations Area

"Milan Platform"

Manager

Client ELIMSAN Salt Cihazlari ve Elektromekanik San. ve Tic. A.S.
Address of the client Adapazari Yolu, 17. Km. 41255 – Uzuntarla, Kartepe, Kocaeli City
 TURKEY
Manufacturer ELIMSAN 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 withstand current tests

Standards/Specifications 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.
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No. of pages 39 **No. of pages annexed** 9

Issue date May 12, 2015

Prepared PMV - Assolari Mauro
05008944 2083 AUT

Verified PSV - Vidori Mauro, PMV - Magistris Paolo
05008944 2158034 VETR 05008944 2158660 VETR

Approved PMI - The Manager - Arcidiaco Lorenzo
05008944 821814 APP

CESI S.p.A.
 Testing & Certification Division
 Testing Operations Area
 "Milan Platform"
 Manager

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 ELİMSAN 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 circuit

Standards/Specifications 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 document relate only to the tested samples/items.

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No. of pages 40 **No. of pages annexed** --

Issue date May 18, 2015

Prepared PMV - Mariani Roberto
05008731 3525 A1F7

Verified PSV - Vidori Mauro, PMV - Magistris Paolo
05008731 2158654 VER 05008731 2158660 VER

Approved PMI - The Manager - Arcidiaco Lorenzo
05008731 821814 APP

CESI S.p.A.

Testing & Certification Division

Testing Operations Area

"Milan Platform"

Manager

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 ELİMSAN 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 (800 A – 50 Hz – 50 °C)
 Measurement of the resistance of the main and auxiliary circuits
 Temperature-rise test of the auxiliary and control equipment
 Mechanical operation tests

Standards/Specifications 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 document relate only to the tested samples/items.
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No. of pages 59 **No. of pages annexed** --

Issue date May 26, 2015

Prepared PMV - Mariani Roberto
05001940 3525 AUT

Verified PSV - Vidori Mauro, PMV - Magistris Paolo
05001940 2158854 VER 05000540 2158860 VER

Approved PMI - The Manager - Arcidiaco Lorenzo
05001940 82 19 14 APP

CESI S.p.A.
 Testing & Certification Division
 Testing Operations Area
 "Milan Platform"
 Manager

Client ELIMSAN SALT CIHAZLARI VE ELEKTROMEKANIK SAN. VE TIC. A.S.
Address of the client Bagdat Mah. D-100 Karayo N° 368 – 43002 KARTEPE,KOCAELI
TURKEY
Order --
Tested samples/items Enclosure type EMCIZQT-02V-I40-T5 serial n° A-2314

Tests carried out Verification of the degree of protection IP41H

Standards/Specifications Verification of the degree of protection of enclosures IEC 60529:2001

Tests date from 12/06/2015 to 12/06/2015

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

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No. of pages 9 **No. of pages annexed** --

Issue date 12/06/2015

Prepared T&C -CER- PRO - Andrea Padovani

Verified T&C- CER – PRO- Mirko Balaz

Approved T&C – CER– Roberto Piccin

Client ELIMSAN SALT CIHAZLARI VE ELEKTROMEKANIK SAN. VE TIC. A.S.
Address of the client Bagdat Mah. D-100 Karayo N° 368 – 43002 KARTEPE, KOCAELI
TURKEY
Order --
Tested samples/items Enclosure type EMCIZQC-02V-I40-T5 serial n° A-2305

Tests carried out Verification of the degree of protection IP41H

Standards/Specifications Verification of the degree of protection of enclosures IEC 60529:2001

Tests date from 12/06/2015 to 12/06/2015

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

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No. of pages 10 **No. of pages annexed** --

Issue date 12/06/2015

Prepared T&C -CER- PRO - Andrea Padovani

Verified T&C- CER – PRO- Mirko Balaz

Approved T&C – CER– Roberto Piccin



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: Cassette 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 Ismail 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 - V_{kp} > 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 - V_{kp} > 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 $11/\sqrt{3} : 0,11/\sqrt{3} : 0,11/\sqrt{3}$, class 0,5 - 100VA, class 3P - 100 VA

Type 5, ratio $11/\sqrt{3} : 0,11/\sqrt{3}$, 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

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,
Ie 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

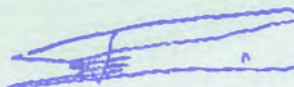
Requirements: IEC 61439-2:2009, clauses 10.2.2, 10.2.3, 10.2.7, 10.3, 10.4, 10.5, 10.9, 10.10, 10.11 and 10.13

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

Applicant : Qatari German Switchgear Company W.L.L.
P.O. Box 23661
Doha
Qatar

Application Date : January 8, 2010

Order Number : 213322200

Subject : Design verification of main distribution board &
withdrawable motor control center

Trademark : Qatari German Switchgear Company W.L.L.

Type(s) : FALCON


Arnhem, November 11, 2010

Manufacturer/ Production sites : Qatari German Switchgear Company W.L.L.
P.O. Box 23661
Doha
Qatar

Overview of tests : See Page 8

Test Requirements : IEC 61439-1:2009 + IEC 61439-2:2009
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 

Checked by : H.L. Schendstok

Contents

- 14 Pages general and description
- 2 Temperature-rise tables
- 8 Short-circuit tables
- 54 Oscillograms
- 17 Photographs
- 12 Drawings

RVer

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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.

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.
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The tests were supervised by

H.G.M. Kormelink	KEMA Quality
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General notes on tests

The frequency during the tests was 50 Hz.

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 current-carrying 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.

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 $1 \text{ N} \pm 10\%$. 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 $10 \text{ l/min} \pm 5\%$. 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 $1 \text{ N} \pm 10\%$. 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 able to pass through a square-meshed sieve with a nominal wire diameter is $50 \mu\text{m}$ and the nominal width between wires is $75 \mu\text{m}$.

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 ($U_{\text{imp}} = 8 \text{ kV}$, $U_{\text{i}} = 690 \text{ V}$, Pollution degree = 3, and Material group = IIIa):

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

The following minimum distances were measured:

- Clearance $> 13,8 \text{ mm}$
- Creepage distance $> 13,8 \text{ mm}$

Result: Pass.

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 mΩ which is below the maximum allowed 100 mΩ.

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.

Conditional short-circuit rating (I_{cc})
L3-PE: $I_{cc} = 39 \text{ kA at } 240 \text{ V}$ (osc. 50)

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

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 μs (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.

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 x 10 mm² to the supply connection of the assembly. Per phase 4 busbars were connected. The assembly was loaded with 3200 A.

The outgoing units were supplied according to the table below.

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

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.

Result: Pass.

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:	$I_{cw} = 65 \text{ kA} - 3 \text{ s}$	(osc. 2 and 4)
L3 – N:	$I_{cw} = 65 \text{ kA} - 3 \text{ s}$	(osc. 6 and 8)

Incoming unit

Short-time withstand rating (I_{cw})

ACB 3200 A Sace Emax E3	3 phases:	$I_{cw} = 65 \text{ kA} - 3 \text{ s}$	(osc. 10 and 13)
	L1 – N:	$I_{cw} = 39 \text{ kA} - 3 \text{ s}$	(osc. 14 and 16)

Conditional short-circuit rating (I_{cc})

ACB 3200 A Sace Emax E3	3 phases:	$I_{cc} = 65 \text{ kA at } 415 \text{ V}$	(osc. 30)
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Remark: neutral is covered by I_{cw} test on neutral.

Outgoing units

Short-time withstand rating (I_{cw})

ACB 2500 A Sace Emax E3	3 phases:	$I_{cw} = 65 \text{ kA} - 3 \text{ s}$	(osc. 42 and 44)
	L1 – N:	$I_{cw} = 39 \text{ kA} - 3 \text{ s}$	(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	3 phases:	$I_{cc} = 65 \text{ kA at } 415 \text{ V}$	(osc. 49)
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Remark: neutral is covered by I_{cw} test on neutral.

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)

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

OUR PRODUCTS

OUR PRODUCTS

MADE IN QATAR



LEPO

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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 disconnector's, and air and gas load break pole or structure mounted air break disconnector's, and air and gas load break switches

BRANDS 



شهادة قيد بإبداع مصنف

يشهد مكتب حماية حق المؤلف والحقوق 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 القولية ومكون من الجدران الخرسانية والخلق والكتل الخرسانية والأساسات المملوءة بشبكة حديدية مدمجة مع بعضها البعض لتشكل تأريض داخل الجدران والكتل الخرسانية، ويتم تجميع الجدران والكتل الخرسانية بنظام البناء التشابكي بالتسلسل والارتكاز على بعضها البعض، إن جميع الأجزاء تتصل ببعضها البعض بواسطة براغي فولاذية أو نواقل نحاسية وذلك من أجل تأريض مناسب، إن جميع نقاط الاتصال معزولة بمادة " البولاي يورثين ماستيك" الصديقة للبيئة، جميع الأبواب وفتحات التهوية مصنوعة من الفولاذ المجلفن والمصطلي غير الناقل للكهرباء، إن السقف محاط بدرابزين مع نظام تصريف مياه يناسب حالات الأمطار الغزيرة، تم بناء قنوات الكوابل في الشبكة والكتل الخرسانية وذلك لتسهيل تثبيتها وتركيبها مع الأنابيب المعزولة.

الجنسية	مالك المصنف
قطر	/الشركة القطرية الالمانية لتصنيع اللوحات الكهربائية

سلمت الشهادة إلى السيد/تي ام بي اجتس ابوغزاله للملكية الفكرية بصفته وكيل المصنف ،
وتفضلوا بقبول فائق التقدير والاحترام ،

رئيس مكتب حق المؤلف والحقوق المجاورة



**11KV SWITCHGEAR
MANUFACTURER:
ELIMSAN - TURKEY**

Date : 20.01.2021

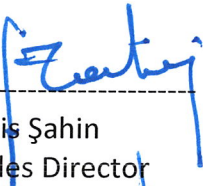
Subject : Renewal of Authorized Sole Dealer & Exclusive Partner
Ref : 21.SDEP-QGC-QA-GM-ES.01

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 validity of this letter , please feel free to contact us.

Yours Sincerely,



Enis Şahin
Sales Director

Hüseyin Mehmet Ağacan
Member of Board

Note: Validity of this document is until 31.12 2021.

03/07/2015

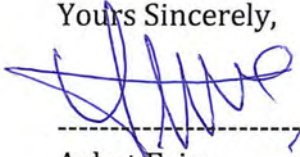
Dear Customer

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 .

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: +90 262 375 23 22

Bagdat Mh. D100 Karayolu Cd. No:368 Kartepe Kocaeli / TURKEY

ELİMSAN ŞALT CİHAZLARI VE ELEKTROMEKANİK
SANAYİ VE TİCARET ANONİM ŞİRKETİ
Merkez Bağdat Mh. D-100 Karayolu Cd. No: 368 Kartepe Kocaeli / TÜRKİYE
Mersis No: 0301 0037 8100 0014 Şirket No: 99364
Alemdar V.D. 301 003 7810 www.elimsan.grup.com



SISBEL

CERTIFICATE

ELİMSAN A.Ş.

Ibrikdere 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 Products, Instrument Transformers and
Concrete Kiosk Development, Production, Sales, After Sales Service,
Maintenance and Support Services

Certificate Number: SISBEL-2020037

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

General Manager
Mehmet SOLAK

Sistem Eğitim ve Belgelendirme Ltd. Şti.

www.sisbel.com info@sisbel.com

Adres: Prof. Dr. Ali Nihat Tarlan Cad. No: 84/6 Ataşehir/İstanbul/TÜRKİYE

Tel: +90 216 5301238



TÜRKAK BDS NO
YS-7B38-8357



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: SISBEL-2020028

İlk 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.

Genel Müdür
Mehmet SOLAK

M. Solak

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



TÜRKAK BDS NO
YS-8400-0D02



EMC12
Air Insulated
Metal Clad
Switchgear
Truck Type

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

Standard IEC 62271-200



Nature is
Our Most
Valuable Partner

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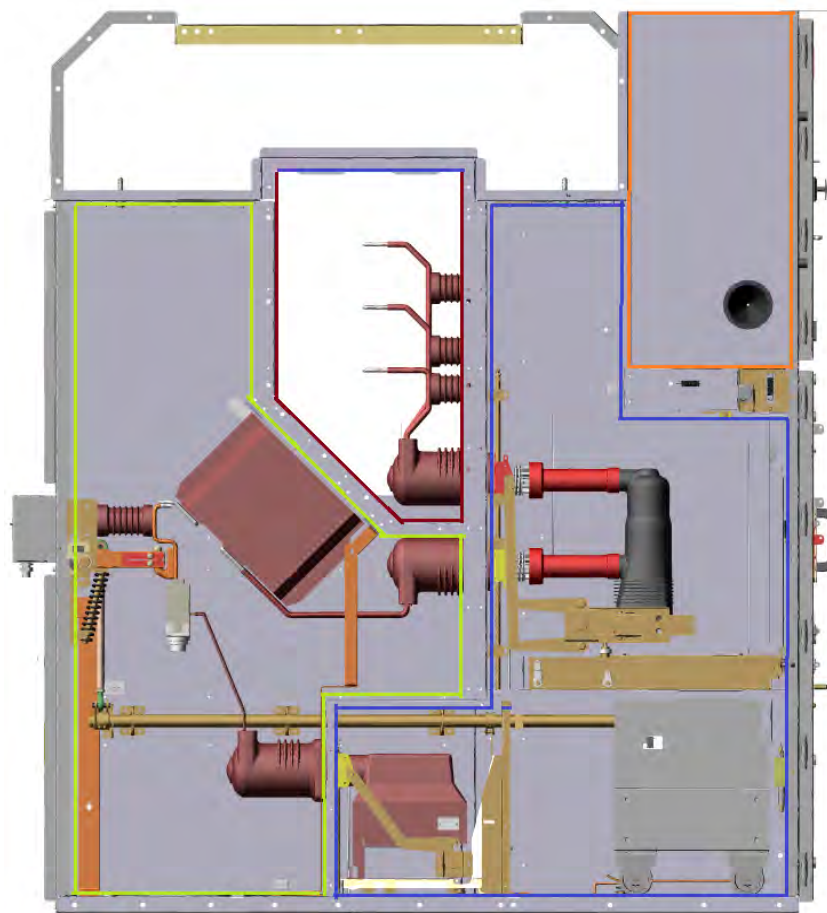
Standards

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Benefits, Typical uses









- i. Save lives
- ii. Peace of minds
- iii. Increases productivity
- iv. Save money

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



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

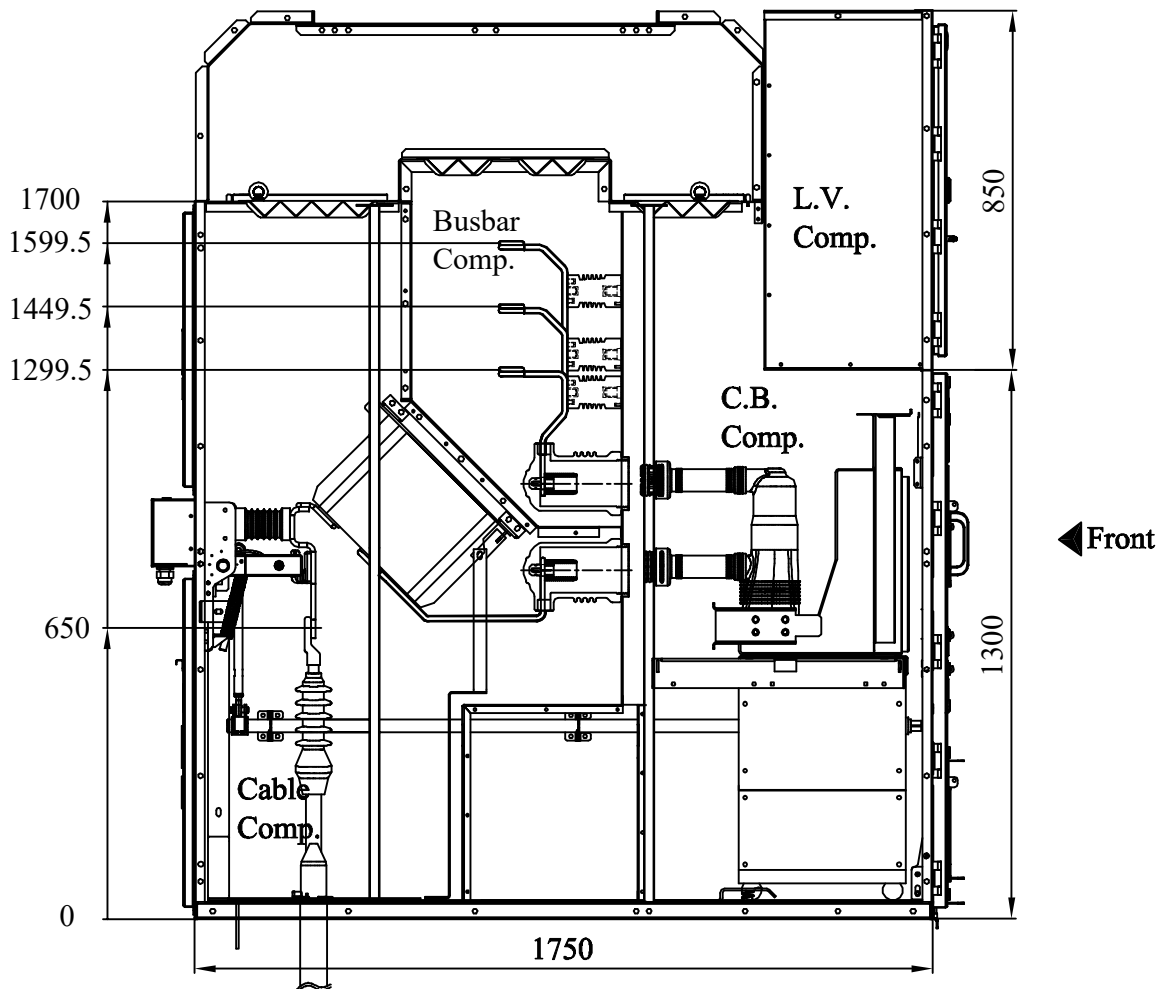
Technical Data

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
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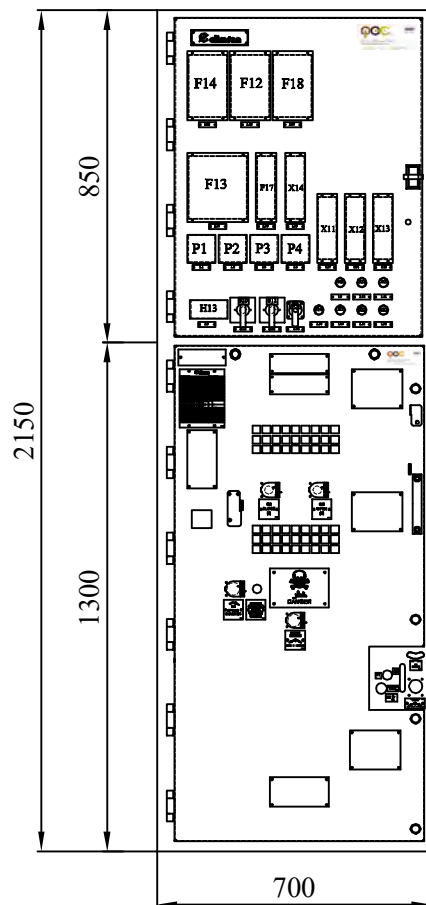
Technical Data

Classification of the EMC12 according to IEC 62271-200

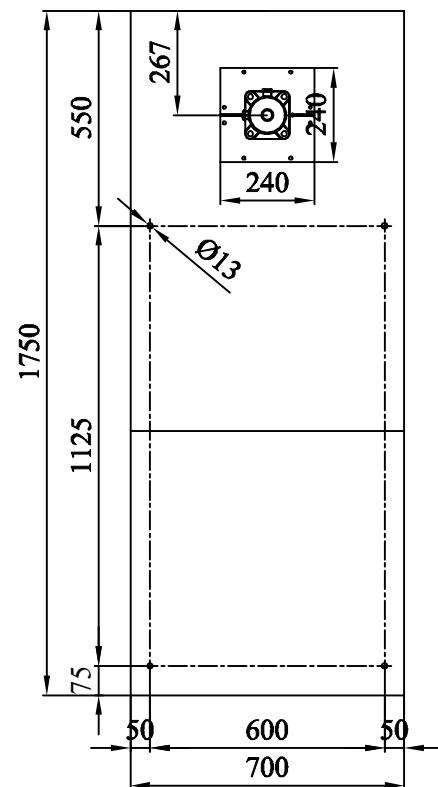
Internal arc classification		
Classification		IAC
Accessibility		
-Front		Type A
-Rear		Type A
-Lateral		Type A
Test current	kA	31.5
Test duration	s	1

Construction and design	
Partition class	PM (metallic)
Loss of service continuity 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



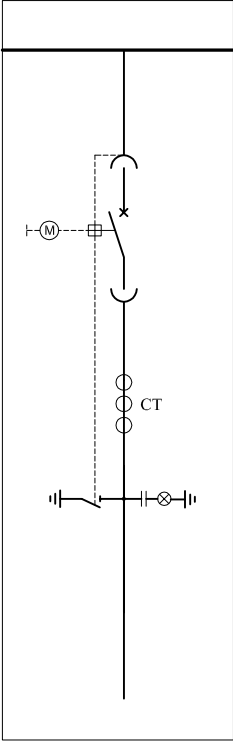
Foundation plan



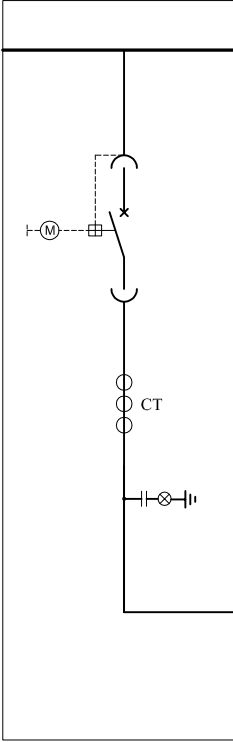
▲
Front

Product Range

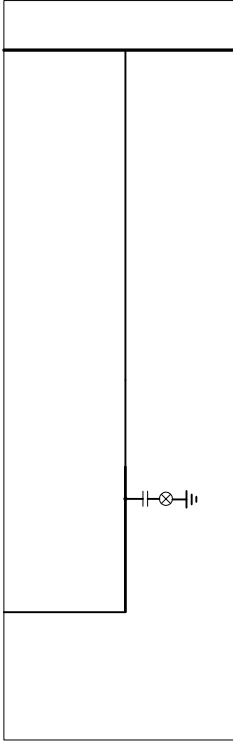
Type 1 & 2



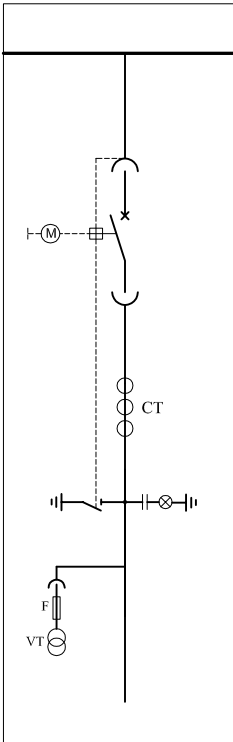
Type 3.1



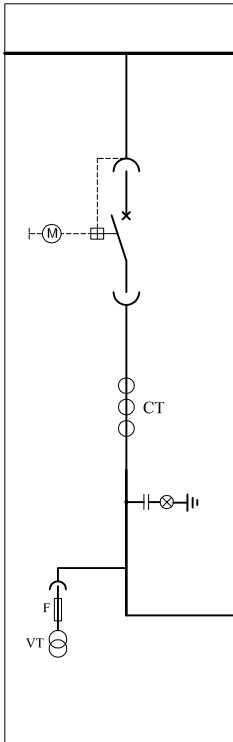
Type 3.2 & 7.2



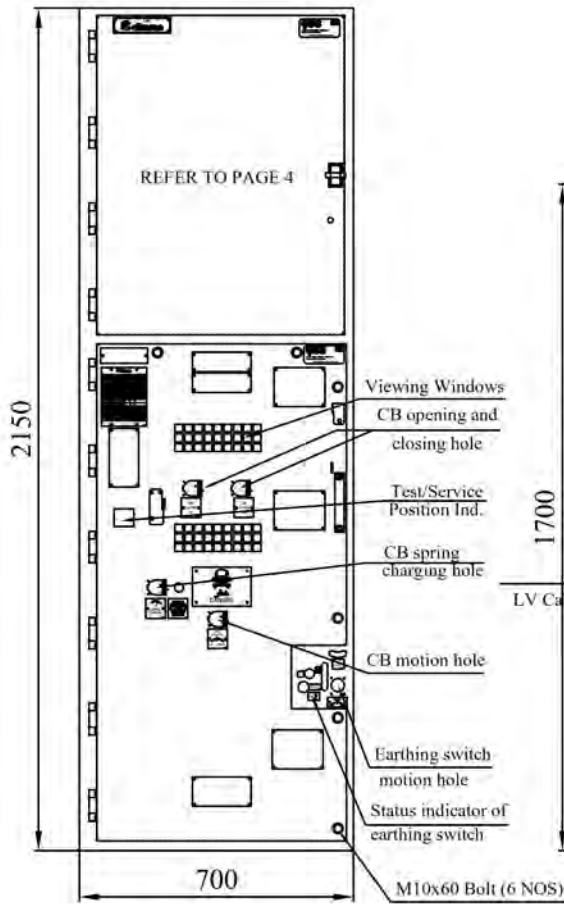
Type 4 & 5 & 6



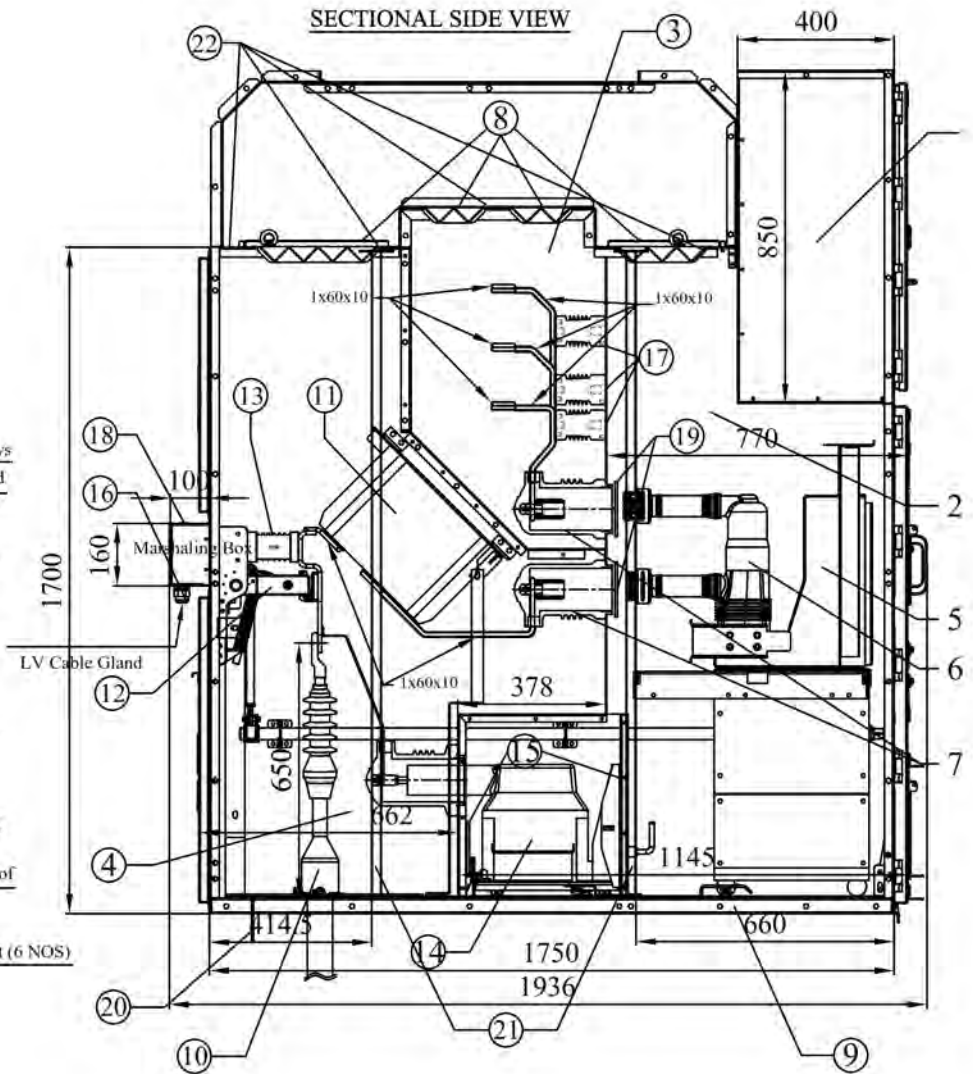
Type 7.1



FRONT VIEW



SECTIONAL SIDE VIEW



LEGEND FOR PANEL DESIGN

- ① - LOW VOLTAGE COMPARTMENT
- ② - CB COMPARTMENT
- ③ - BUSBAR COMPARTMENT
- ④ - CABLE CONNECTION COMPARTMENT
- ⑤ - VACUUM CB MECHANISM
- ⑥ - EMBEDDED VACUUM CB POLE-ABB PT1
- ⑦ - FLAP BUSHING
- ⑧ - PRESSURE RELIEF
- ⑨ - FLOORING BASE

- ⑩ - CABLE GLAND
- ⑪ - CURRENT TRANSFORMER (3 NOS.)
- ⑫ - EARTHING SWITCH
- ⑬ - CAPACITIVE VOLTAGE DIVIDER
- ⑭ - VOLTAGE TRANSFORMER WITH FUSE (3 NOS.)
- ⑮ - VT REMOVABLE COVER & SAFETY SHUTTER
- ⑯ - MARSH. BOX GLANDS (5 NOS./CW20L/M20)
- ⑰ - INSULATOR
- ⑱ - GREEN LAMP FOR ES

- ⑲ - SHUTTER - Material; Sheet
Dimensions: 568x125x2 mm
- ⑳ - EARTHING BARS
- ㉑ - DRAIN
- ㉒ - ALL TOP BOLTS ARE WITH METAL
GASKET WASHER

Design

Compartments, interlocks, operation

EMC 12 range cubicles are composed of three main and one auxiliary (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 evacuate 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 lightning 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.
- ✓ 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.

Advantage of Design

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



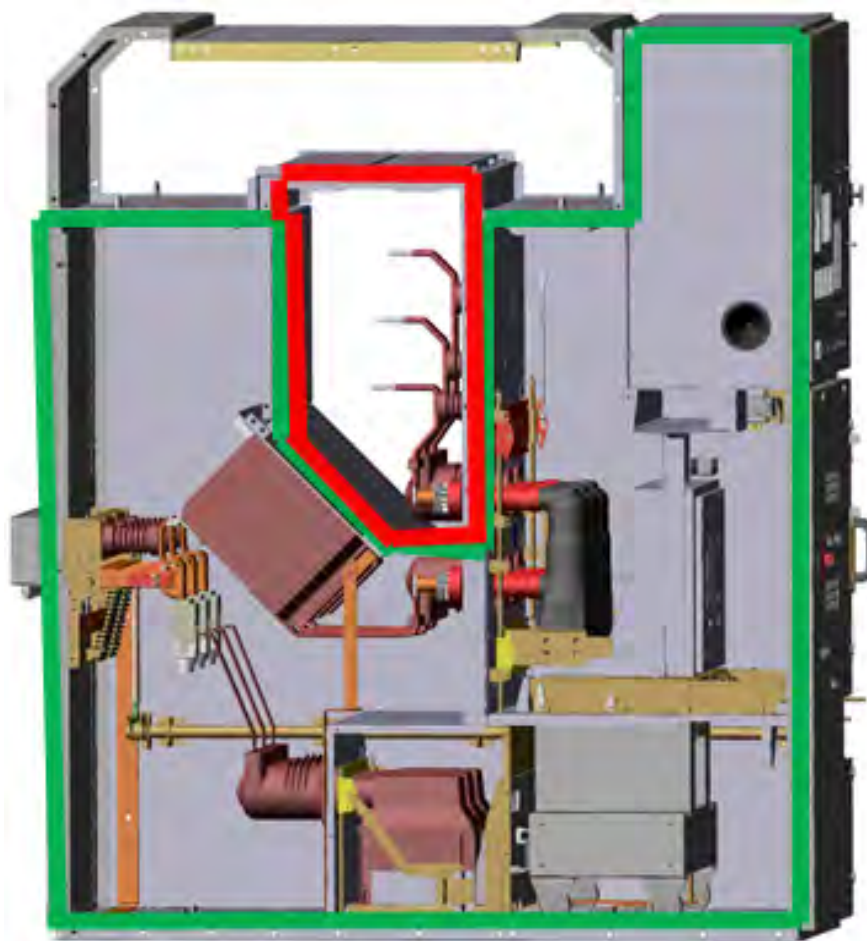
SAME PANELS

Design

Advantage of Design

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.



SAFE PANELS

Advantage of Design

3- Coupling possibility of Truck to Cassette type

- Flexibility for Replacement
- Flexibility for Switchboard Alignment
- Flexibility for Stock Usage



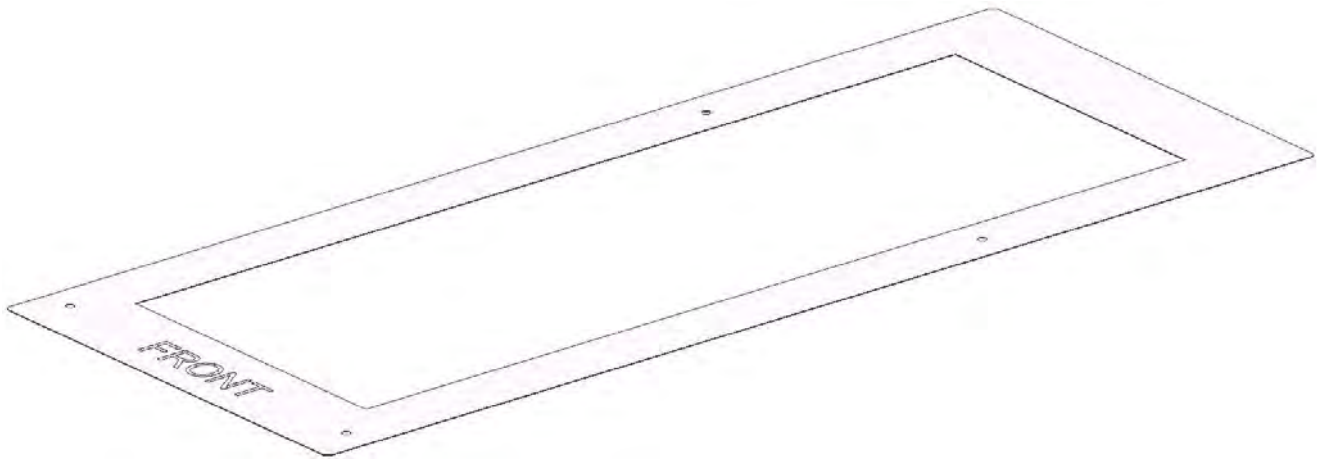
FLEXIBLE PANELS

Design

Advantage of Design

4- Installation Shablon

- EASY
- QUICK
- ACCURATE



EASY PANELS

Advantage of Design

5- Quick Coupling

➤ 5 Bolts Coupling



EASY PANELS

Benefits	Features
<ul style="list-style-type: none"> • Saves lives 	<ul style="list-style-type: none"> • 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 kA according to IEC 62 271-200, Annex A • Use of vacuum circuit-breakers • Earthing switch interlocked with switching device truck
<ul style="list-style-type: none"> • Peace of mind 	<ul style="list-style-type: none"> • 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 100 air-insulated switchgear panels from 110 kV to 252 kV
<ul style="list-style-type: none"> • Increases productivity 	<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Saves money 	<ul style="list-style-type: none"> • Use of maintenance-free vacuum circuit-breakers



Design

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 charging current	A	25
line charging current	A	10
single capacitor bank	A	400
Rated making capacity		kA peak
Rated operating time		
opening	ms	35
breaking	ms	max. 55
arcing	ms	max. 20
closing	ms	max. 50
Rated operating sequence		O-0.3s - CO-15s - CO
Endurance		
Electrical		E2
Mechanical (C/O)		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.
- ✓ 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

- ✓ 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.
- ✓ 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.

EMC12 Compartments

Busbar Compartment



Cable Compartment



Circuit Breaker Compartment



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
	Disconnecter 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

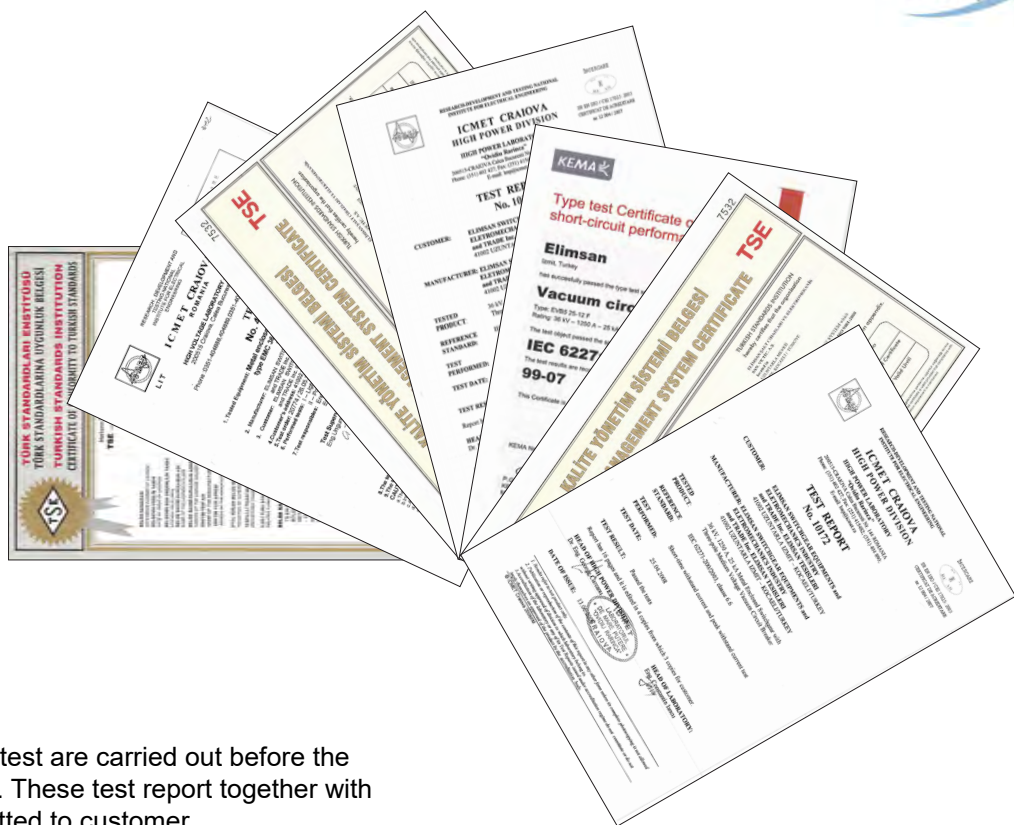
Rated voltage (RMS value)	kV	12
Rated short-duration-power-frequency withstand voltage (RMS value)		
-Across isolating distances	kV	32
-Between phases and to earth	kV	28
Rated lightning impulse withstand voltage (peak value)		
-Across isolating distances	kV	85
-Between phases and to earth	kV	75

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, carried out by independent laboratories. These independent laboratories and related standards are as follows:

IEC 62271-200
TS EN 62271-200



The following routine test are carried out before the control in factory. These test report together with switchgear are submitted to customer.

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

Note : Elimsan's policy is continuous development and improvement. Therefore the right is reserved to supply products which may differ in detail from those described and illustrated in this publication.

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 levels up to 3200A, as withdrawable as well as plug-in and fixed-mounted units.

FALCON is tailored to the needs of the global market and offers the distinct advantage to our esteemed customers the standard solutions from single source and made locally available resulting in substantial savings in term of cost, consistent and high quality product delivered quickly.



Modular Technology:

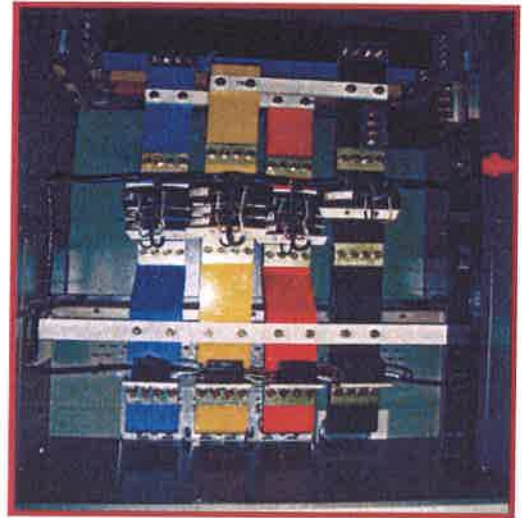
Every FALCON is made exclusively from standardized and type-coded modules. All modules are of high quality and conform to the latest IEC61439-1 & 2 design specification.

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.

FALCON features:

- ✚ Type tested standard modules;
- ✚ Standardized bus bar position at the top of cubicle;
- ✚ 3 and 4- pole bus bar system up to 3200 Amps;
- ✚ Deep switchgear compartment for universal installation;
- ✚ Single-front and back- to- back 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.

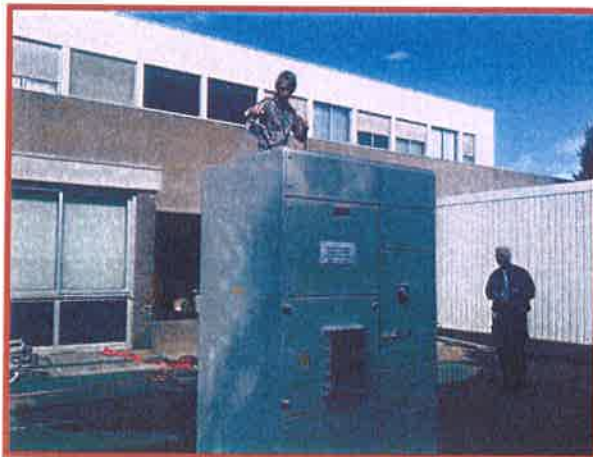


Optimum Adaptation to space Conditions:

- ✚ 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



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.

Fixed Mounted Design:

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

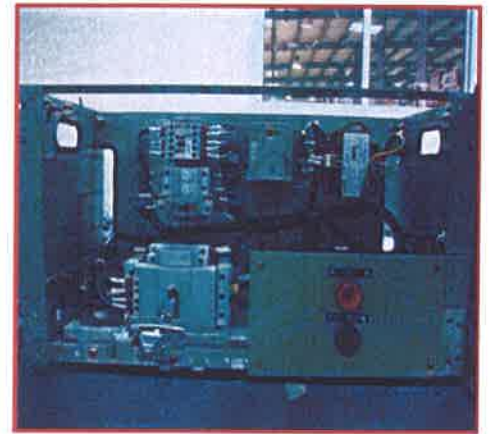
The cubicles for cable feeders in fixed mounted execution are equipped with moulded- case circuit breakers or fuse- switch disconnectors (conventional or in-line), depending on requirements.

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.

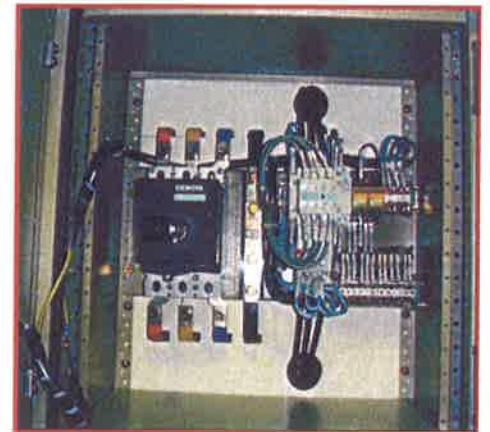
The draw out can be brought into test position, where the main circuit is disconnected while the control circuit is still connected. This gives the possibilities of testing the control circuit in each compartment separately.



Modular Design

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

- ✚ Moulded- case circuit breakers or fuse-switch 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



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



Operation & Maintenance

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

Retrofit & Modification

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



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

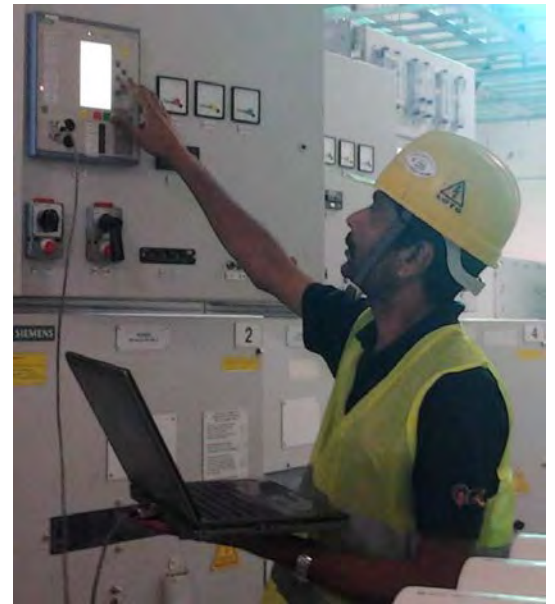
Client : TRAGS / Qatar Foundation

- 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

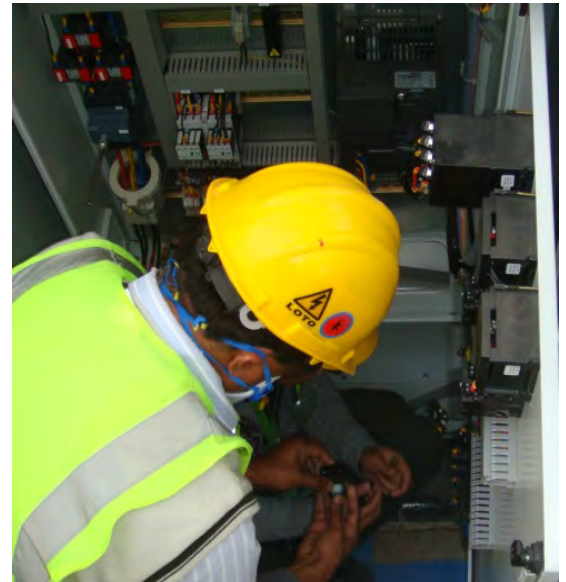
Client : Qatar Museum Authority

- 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



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

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



**KAHRAMAA PROJECT
APPROVALS**

M=k° U ° ° ° hnk\ t-) ·
hk\) y#u' hk- j y ° @#@° u@ V''

Annexure no.2
(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.
MMM	Manufacturer Name: 3 letters for manufacture name abbreviation e.g. SIE for Siemens	ELM	ELM.
I	Insulation type of SWG AIS	A	Selection as per project.
	Insulation type of SWG GIS	G	Selection as per project.
V	12 KV	12	Selection as per project.
	22 KV	22	Selection as per project.
	33 KV	33	Selection as per project.
X0	FMW	W	Selection as per design.
	Cassette	C	Selection as per design.
	Fixed	F	Selection as per design.
X1	STW/ Duration:25 KA/03 SEC	2	Selection as per network requirements.
	STW/ Duration :31.5 KA/03 SEC	3	Selection as per network requirements.
X2	Aux. Supply: 30 Vdc	3	Selection as per design.
	Aux. Supply: 48 Vdc	4	Selection as per design.
TX3	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: - Type 1: T1 - Standard BB earthing panel: TE. - Dummy BB earthing panel will be TD.
	Bus Bar Earthing panel (Standard Type)	E	
	Bus Bar Earthing panel (Dummy Type)	D	
X4	Sub type for the panel		whenever alteration will be applied to accommodate specific project requirements.
	Nil	N	
	Non-Standard (different CT ratios Feeders, etc.)	K	
X5	IDMT Relay Make		To be selected if IDMT not applicable. Selection as per design. Selection as per design. Selection as per design. Selection as per design.
	Nil	N	
	Siemens	S	
	ABB	A	
	Schneider	C	
	SEL	L	
	GE	G	
	others (Specify)	O	

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سرية. يجب أن لا يوزع أو يكشف مضمونهما و/ أو نسخهما لأي كان من دون موافقة المرسل. إذا لم تكن واحداً من الأشخاص المقصودين، يرجى إرجاع نسخة مع ملحقاتها فضلاً عن إتلاف جميع نسخها. وبما ذلك، يرجى إرجاعها بالبريد الإلكتروني أو فاكس أو هاتف. السرية المعلومات أو يفتقر إليها بسبب خطأ نأجم عن إرسال الوثيقة الناكس لأشخاص غير مقصودين.

X11	Monitoring Sensors		
	Not Applicable	0	
	Temp/Hotspot Monitoring	1	Selection as per project requirements.
	Temp & Humidity Monitoring	2	Selection as per project requirements.
	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.
X12	Year of KM design approval with respect to the applicable KM Specification		
	2015	A	Selection as per design.
	2016	B	Selection as per design.
	2017	C	Selection as per design.
	2018	D	Selection as per design.
	2019	E	Selection as per design.
	2020	F	Selection as per design.
	2021	G	Selection as per design.
	2022	H	Selection as per design.
	2023	I	Selection as per design.
	2024	J	Selection as per design.
X13	Country of Origin		
	QATAR	Q	Selection as per manufacturer.
	Turkey	T	Selection as per manufacturer.
	Germany	G	Selection as per manufacturer.
	Kuwait	K	Selection as per manufacturer.
	Czech Republic	C	Selection as per manufacturer.
	Portugal	P	Selection as per manufacturer.

xxxxxxxxxxxxxENDxxxxxxxxxxxxxxxxxxxx

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EPM-B7/E14

Issue:4

27-03-2019



Reference: ENA/122/2022

Date: 25/04/2022

From: **Electricity Network Directorate**

M/s. QGC – Qatar

Attn: General Manager

Fax: 44601676

Email: Info@qgc-qatar.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.




Abdulla Ali Abdulla Al-Theyab
Director Electricity Network Affairs


CC:
• EP
• EPM



ترشيح
Tarsheed

احد مبادرات كهروماء
لدعم الاستخدام



 +974 4484 5656

 tajahan@km.qa

 44845741

 41

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/03SEC)					
PILOT-30V DC - FMW Compact					
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		
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		
Total BOQ I-A					



BOQ I-B (25KA/03SEC)

(25 KA)-PILOT-30V DC - FMW COMPACT

Item	Description	Unit	Qty	Unit Price	Total Price
1	Release Solenoid 30V DC	No	50		
2	Tripping Solenoid 30V DC	No	50		
3	Motor for Spring Charging	No	50		
4	Local/Remote Selector Switch	No	35		
5	VCB Trip/ Neutral/Close Selector Switch	No	35		
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		
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		
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		



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



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	
66	Heater	No	43	
67	Thermostat	No	43	
Total BOQ I-B				

BOQ II-A (25KA/03SEC)					
PILOT – 48V DC - C OR F COMPACT UP TO 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		
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		



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



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
Total BOQ II-B			



BOQ III-A (25KA/03 SEC)

FIBER OPTIC -48V DC - C OR F COMPACT UP TO S OR ST

Item	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		
Total BOQ III-A					

BOQ III-B (25KA/03SEC)

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	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		



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	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



45	Spare Marked Ferrule set for Control Wiring	Set	5	
46	Spare Trifoliolate Label for Circuit for each Ferrule Rolls	No	25	
47	Phase Comparison Test Unit	No	3	
48	Test Bushing Sets	Set	3	
49	Bus Bar Coupling Kit with Shrouds	Set	15	
50	End Cover Kits with Shrouds and Boots	Set	15	
51	Set of Tools Boxes	Set	3	
52	All types of Operating Handles	Set	5	
53	Other Shrouds & Boots (as applicable)	Set	5	
54	Portable Steel Ramp for CB Truck	Pc	5	
55	Cable Glands (for control cables)	Set	15	
56	Control Cable Termination Lug	No	30	
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	5	
60	Ammeter for TX Panel (for 03 Phases)	Set	3	
61	Voltmeter for Directional panel	No	3	
62	CVD Module (complete set)	Set	25	
63	Ammeters and Voltmeters set for Bus-Section (as applicable)	Set	1	
64	Contact Cleaner	No	5	
65	Contact Lubrication grease (as recommended by manufacturer)	No	5	
66	Heater	No	25	
67	Thermostat	No	25	
				Total BOQ III-B

BOQ IV-A (31.5KA/03 SEC)					
PILOT-31.5 48 V DC -FMW COMPACT OR C OR F COMPACT 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		



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 (31.5KA/03 SEC)

PILOT-48V DC -FMW COMPACT or C OR F COMPACT UP TO S OR ST

Item	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		
8	11KV PT Fuse	No	13		
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	13		
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		



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
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 Trifoliolate Label for Circuit for each Ferrule Rolls	No	50
47	Phase Comparison Test Unit	No	5
48	Test Bushing Sets	Set	8
49	Bus Bar Coupling Kit with Shrouds	Set	15
50	End Cover Kits with Shrouds and Boots	Set	10
51	Set of Tools Boxes	Set	10
52	All types of Operating Handles	Set	15
53	Other Shrouds & Boots (as applicable)	Set	10
54	Portable Steel Ramp for CB Truck	Pc	10
55	Cable Glands (for control cables)	Set	25
56	Control Cable Termination Lug	No	50
57	Portable Earth Truck	Set	8



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	
66	Heater	No	50	
67	Thermostat	No	50	
Total BOQ IV-B				

BOQ V-A (31.5KA/03 SEC)

FIBER-31.5 48 V DC -C OR F COMPACT UP TO 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		
Total 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		



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



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
43	Spare of all Type MCB for Individual Control Circuit Inside Control Cubicle	Set	2
44	Spare for all Type Terminal Block for Control Cubicle for AC & DC Auxiliary Supply Connection for each Circuit	Set	3
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	Ammeter for TX Panel (for 03 Phases)	Set	5
61	Voltmeter for Directional panel	Nos	3
62	CVD Module (complete set)	Set	10
63	Ammeters and Voltmeters set for Bus-Section (as applicable)	Set	1
64	Contact Cleaner	No.	10
65	Contact Lubrication grease (as recommended by manufacturer)	No.	10
66	Heater	No.	10
67	Thermostat	No.	10
Total BOQ V-B			

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		
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		



6	Tripping unit MCB For 30v DC	No	2
7	Tripping Unit Battery Bank Connection Link For 48 V DC	Set	8
8	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
10	Battery Bank Flexible Wire for Positive & Negative Connection with Ring Type Lugs For 30v DC Tripping Unit	No	2
11	11kV Live Phasing Stick	No	2
12	Suitable Torque Wrench Set	No	10
Total BOQ VI			

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 for 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 Switchgears for 11 KV Distribution Networks, Tender No. GTC-768/2015
- 1.2 Your Technical Offer.
- 1.3 Your Commercial Offer dated 29/10/2015.



- 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).



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)



GTC-571
LETTER OF AWARD

LETTER OF AWARD

Date: 08 / 01/2015

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

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

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:

BOQ 1-A; (25KA/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.	301		
2	Transformer Circuit Breaker Panel with Metering	Nos.	3		
3	Feeder Circuit Breaker Panels with Pilot wire protection/IDMT protection	Nos.	425		
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		
8	Test Bushing Sets	Set	193		
9	Bus Bar Coupling Kit with Shrouds	Set	638		



BOQ 1-A; (25KA/03SEC) CLASS C OR F AND STANDARD OR ST SIZE					
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		
12	Operating Handles	Set	200		
13	Other Shrouds & Boots	Set	797		
14	End Plates	Set	320		
15	Foundation Bolts	Set	797		
16	Panel Interconnection Bolts	Set	797		
17	Portable Live Phase Comparator Instruments	Set (3Plugs)	5		
18	Portable Steel Ramp for CB Truck	Pc.	200		
19	Cable Glands	Set	800		
20	Cable Lugs & Its Connections Bolts	Set	750		
21	Portable Earth Truck	Set	16		
			Total		

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		
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		

**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
15	CT for Feeder Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	12		
16	CT for Bus Section Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	3		
17	VT Truck	Nos	7		
18	Inter Panel Coupling Bolts	Nos	33		
19	Panel Busbar Shutter Lifter	Nos	33		
20	Panel Circuit Shutter Lifter	Nos	33		
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		
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		
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		
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		
			Total		

BOQ 2-A; (25KA/03SEC) CLASS FMW ONLY AND COMPACT SIZE					
Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
1	Transformer Circuit Breaker Panel	Nos	214		
2	Transformer Circuit Breaker Panel with Metering	Nos	2		
3	Feeder Circuit Breaker Panels with Pilot wire protection/IDMT protection	Nos	350		
4	Feeder Circuit Breaker Panel with Directional IDMT protection.	Nos	32		
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		
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		
11	Set of Tools Boxes	Set	152		
12	Operating Handles	Set	152		
13	Other Shrouds & Boots	Set	610		
14	End Plates	Set	245		
15	Foundation Bolts	Set	610		
16	Panel Interconnection Bolts	Set	610		
17	Portable Live Phase Comparator Instruments	Set (3 Plugs)	5		
18	Portable Steel Ramp for CB Truck	Pc.	152		
19	Cable Glands	Set	625		
20	Cable Lugs & Its Connections Bolts	Set	600		
21	Portable Earth Truck	Set	13		
			Total		

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		




**BOQ 2-B; (25KA/03SEC) CLASS FMW ONLY AND COMPACT SIZE
- SPARE PARTS -**

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		
9	Pilot Indicating Light assembly (Red) 30V DC	Nos	25		
10	Pilot Indicating Light assembly (Green) 30V DC	Nos	25		
11	Red bulb 30V DC	Nos	25		
12	Green bulb 30V DC	Nos	25		
13	Spare Vacuum Circuit Breaker	Nos	25		
14	CT for Transformer Feeder Panel (100/5+5A CL 5P10 + 1.0 15VA CT)	Nos	9		
15	CT for Feeder Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	10		
16	CT for Bus Section Panel (400/5A CL 5P10 + 15VA Ring CT)	Nos	1		
17	VT Truck	Nos	6		
18	Inter Panel Coupling Bolts	Nos	25		
19	Panel Busbar Shutter Lifter	Nos	25		
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		
23	Grouting Bolts	Nos	25		
24	Grommet for End Panel	Sets	155		
25	End Panel (B/bar Chamber) Cover for Left Side Panel	Nos	155		
26	End Panel (B/bar Chamber) Cover for Right Side Panel	Nos	155		
27	Tripping unit HRC Fuse	Nos	20		
28	Tripping unit MCB	Nos	20		
29	Tripping Unit Battery Bank Connection Link	Nos	20		
30	Panel Earth Switch Mechanism Assembly	Sets	25		
31	Push Button for Closing	Sets	25		
32	Push Button for Tripping	Nos	25		

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**BOQ 2-B; (25KA/03SEC) CLASS FMW ONLY AND COMPACT SIZE
- SPARE PARTS -**

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		
36	Spare for all Type Terminal Block for Control Cubicle for AC & DC Auxiliary Supply Connection for each Circuit	Nos	25		
37	Spare Marked Ferrule set for Control Wiring	Nos	25		
38	Spare Trifoliate Label for Circuit for each Ferrule Rolls	Nos	25		
39	Phase Comparison Test Unit	Nos	10		
			Total		

BOQ 3-A; (31.5KA/03SEC) CLASS FMW ONLY AND COMPACT SIZE

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		
6	Bus-Bar Section Circuit Breaker Panel	Nos	2		
7	Test Bushing Sets	Set	38		
8	Bus Bar Coupling Kit with Shrouds	Set	123		
9	End Cover Kits with Shrouds and Boots	Set	60		
10	Set of Tools Boxes	Set	40		
11	Operating Handles	Set	40		
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		



BOQ 3-A; (31.5KA/03SEC) CLASS FMW ONLY AND COMPACT SIZE					
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		
20	Portable Earth Truck	Set	3		
			Total		

BOQ 3-B; (31.5 KA/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	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		
6	6A HRC Fuse	Nos	7		
7	10A HRC Fuse	Nos	7		
8	11KV PT Fuse	Nos	2		
9	Pilot Indicating Light assembly (Red) 30V DC	Nos	25		
10	Pilot Indicating Light assembly (Green) 30V DC	Nos	25		
11	Red bulb 30V DC	Nos	25		
12	Green bulb 30V DC	Nos	25		
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		
19	Panel Circuit Shutter Lifter	Nos	7		
20	Panel Pressure Relief Cover	Nos	7		
21	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	Nos	5		
22	Grouting Bolts	Nos	6		

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**BOQ 3-B; (31.5 KA/03SEC) CLASS FMW ONLY AND COMPACT SIZE
- SPARE PARTS -**

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		
38	Phase Comparison Test Unit	Nos	10		
Total					

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		
2	Transformer Circuit Breaker Panel with Metering	Nos	1		
3	Feeder Circuit Breaker Panels with Pilot wire protection/IDMT protection	Nos	106		
4	Feeder Circuit Breaker Panel with Directional IDMT protection.	Nos	10		
5	Feeder Circuit Breaker Panel with Metering	Nos	1		

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
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		
			Total		

BOQ 4-B; (31.5KA/03SEC) CLASS C OR F AND STANDARD OR ST SIZE					
Item	Description	Unit	Qty	Unit Price QAR	Extended Price QAR
1	Release Solenoid 30V DC	Nos	8		
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		



BOQ 4-B; (31.5KA/03SEC) CLASS C OR F AND STANDARD OR ST SIZE

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		
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		
21	Panel Pressure Relief Cover	Nos	8		
22	Battery Operated Electrical Tools for Coupling Removing Nuts - Bolts of Panel	Nos	5		
23	Grouting Bolts	Nos	8		
24	Grommet for End Panel	Sets	50		
25	End Panel (B/bar Chamber) Cover for Left Side Panel	Nos	50		
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		
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		
Total					



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		
2	M20 Brass Gland with Shrouds for Inter Trip Cable Connection	Set	80		
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		
Tot:					

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.

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 22/05/2014 Your 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.



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

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



KAHRAMAA PROJECT APPROVALS



To	K&H Sons of M.Almana Co.	إلى	Facsimile	4001 6445	فاكس
F.A.O.	Robert Helou		Facsimile		
From	MANAGER, ELECTRICITY NETWORK PLANNING	من	Facsimile	4493 4557	فاكس

Date	05/23/2022	التاريخ	Reference No:	#0013810 - 02/15/2022	Number of pages including cover	2	عدد الصفحات متضمنة الغلاف
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Subject: Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type (Manufacturer: Elimsan – Turkey)
Project: The Pearl – Al Mana Mall 04 LPS 62 – S/S 18570
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 01-Page APPROVAL ANNEXURE.

Best Regards,



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

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

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

Internal

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تنويه هام: هذا الفاكس وأي ملحقات معه قد تحتوي على معلومات سرية، يجب أن لا يوزع أو يكشف مضمونها و/أو نسخهما لأي كان من دون موافقة المرسل. إذا لم تكن واحداً من الأشخاص الموجه لهم هذا الفاكس ووصل إلى جهاز الفاكس لديك عن طريق الخطأ، يرجى إرجاع الرسالة مع ملحقاتها فضلاً عن إتلاف جميع نسخها. وبعد ذلك، يرجى الاتصال بالمرسل عبر البريد الإلكتروني أو الهاتف لإبلاغه بالخطأ الحاصل. لا تفقد سرية المعلومات أو يتنازل عنها بسبب خطأ ناجم عن إرسال وتوجيه الفاكس لأشخاص غير مقصودين.



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

Date	05/15/2022	التاريخ	Reference No:	#0014012 - 03/21/2022	Number of pages including cover	13	عدد الصفحات متضمنة الغلاف
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Subject: Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW type (Manufacturer: Elimsan – Turkey)
Project: Supply to Factory for BP#: N/2020/1734 Mesaieed 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,



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

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

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

Internal

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تنويه هام: هذا الفاكس وأي ملحقات معه قد تحتوي على معلومات سرية، يجب أن لا يوزع أو يكشف مضمونها أو أن نسخها 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 الهاتف لإبلاغه بالخطأ الحاصل. لا تفقد سرية المعلومات أو يتنازل عنها بسبب خطأ ناجم عن إرسال وتوجيه الفاكس لأشخاص غير مقصودين.



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

Date	04/13/2022	التاريخ	Reference No:	#0012865 - 08/23/2021	Number of pages including cover	13	عدد الصفحات متضمنة الغلاف
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Subject: Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type (Manufacturer: Elimsan – Turkey) Project: Gewan Island Plot QQ Marina KM BP #N/A KM Scheme #11/17/2019

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,

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

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

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

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تنويه هام: هذا الفاكس وأي ملحقات معه قد تحتوي على معلومات سرية، يجب أن لا يوزع أو يكشف مضمونها أو أن ينسخها لأي كان من دون موافقة المرسل. إذا لم تكن واحداً من الأشخاص الموجه لهم هذا الفاكس ووصل إلى جهاز الفاكس لديك عن طريق الخطأ، يرجى إرجاع الرسالة مع ملحقاتها فضلاً عن إتلاف جميع نسخها. وبعد ذلك، يرجى الاتصال بالمرسل عبر البريد الإلكتروني أو الهاتف لإبلاغه بالخطأ الحاصل. لا تفقد سرية المعلومات أو يتنازل عنها بسبب خطأ ناجم عن إرسال وتوجيه الفاكس لأشخاص غير مقصودين.



better living أفضل حياة

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

Date	02/20/2022	التاريخ	Reference No:	#0012742 - 07/29/2021	Number of pages including cover	1	عدد الصفحات متضمنة الغلاف
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Subject: Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type (Manufacturer: Elimsan – Turkey) Project: Lusail Construction Package (CP)-31 KM BP #N/A KM Scheme #4-405-2010

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 **26-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 26 pages.

Best Regards,



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

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

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

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تنويه هام: هذا الفاكس وأي ملحقات معه قد تحتوي على معلومات سرية، يجب أن لا يوزع أو يكشف مضمونها أو أنسخها 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. ويعد ذلك، يرجى الاتصال بالمرسل عبر البريد الإلكتروني أو الهاتف لإبلاغه بالخطأ الحاصل. لا تفقد سرية المعلومات أو يتنازل عنها بسبب خطأ ناجم عن إرسال وتوجيه الفاكس لأشخاص غير مقصودين.



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

Date	02/20/2022	التاريخ	Reference No:	#0012738 - 07/29/2021	Number of pages including cover	1	عدد الصفحات متضمنة الغلاف
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Subject: Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type (Manufacturer: Elimsan – Turkey) Project: Lusail Construction Package (CP)-31 SS-31459 KM BP #N/A KM Scheme #4-405-2010

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,



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

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

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

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تنويه هام: هذا الفاكس وأي ملحقات معه قد تحتوي على معلومات سرية، يجب أن لا يوزع أو يكشف مضمونها أو أن 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. ويعد ذلك، يرجى الاتصال بالمرسل عبر البريد الإلكتروني أو الهاتف لإبلاغه بالخطأ الحاصل. لا تفقد سرية المعلومات أو يتنازل عنها بسبب خطأ ناجم عن إرسال وتوجيه الفاكس لأشخاص غير مقصودين.



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

Date	02/20/2022	التاريخ	Reference No:	#0012707 - 07/25/2021	Number of pages including cover	1	عدد الصفحات متضمنة الغلاف
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Subject: Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type (Manufacturer: Elimsan – Turkey) Project: Lusail Construction Package (CP)-31 KM BP #N/A KM Scheme #4-405-2012

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 **28-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 28 pages.

Best Regards,



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

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

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

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تنويه هام: هذا الفاكس وأي ملحقات معه قد تحتوي على معلومات سرية، يجب أن لا يوزع أو يكشف مضمونها 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 الهاتف لإبلاغه بالخطأ الحاصل. لا تفقد سرية المعلومات أو يتنازل عنها بسبب خطأ ناجم عن إرسال وتوجيه الفاكس لأشخاص غير مقصودين.



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

Date	02/10/2022	التاريخ	Reference No:	#0012726 - 07/28/2021	Number of pages including cover	1	عدد الصفحات متضمنة الغلاف
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Subject: Your Request for Material Approval of 11kV 31.5kA/3sec Indoor Switchgear, FMW Type (Manufacturer: Elimsan – Turkey) Project: LUSAIL CONSTRUCTION PACKAGE (CP)-31 KM BP #N/A KM Scheme #4-405-2012

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 **25-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 25 pages.

Best Regards,



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

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

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

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Qatar General Electricity and Water Corporation
المؤسسة العامة للقطرية للكهرباء و 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 Information							
BP No. 63185				Customer Name REDA SALEH EL - AWADY			
Type of Building PROPOSED WORKSHOP & OFFICE BUILDING INSULATION FACTORY				Location (Area) INDUSTRIAL AREA			
Manufacturer Name QATARI GERMAN SWITCHGEAR				Supplier Name GAZZAOUI & PARTNERS			
Applicant's e-mail info@qgc-qatar.com							
MV-Panel Information	Quantity	1				Consultant Stamp & Signature 	Owner Signature/Stamp
	ACB Rating	2500A					
	New Submittal	Re-Submittal	Date				
	<input checked="" type="checkbox"/>						
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 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							
Received Date 17.1.2016		First Submittal			Second Submittal		
Signature							
Distribution		Received Date			Received Date		
Eng. Hessa		IS E Signature			IS E Signature		
Assigned to		Signature			Signature		
Protection Engineer Remarks (22/12/2015)							
* Ref Protection scheme is checked and found ok							
ED/EPR/CS/3859/11/01/2016							
Signature							
Installations Engineer Remarks							
1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit			<input checked="" type="checkbox"/> OK to Stamp		
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit			<input type="checkbox"/> OK to Stamp		
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> إدارة خدمات المشتركين قسم التمديدات 13/1/2016 </div>							
Signature						Signature	



Qatar General Electricity and Water Corporation
 المؤسسة العامة القطرية للكهرباء و الماء
 Customer Services Department – Installations Section
 إدارة خدمات المشتركين – قسم التمديدات

LV-Panel Manufacturing Drawings Submittal Form

نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

General Information							
BP No. 84752				Customer Name SHEIKHA MARIAM SULTAN AL-KAWARI			
Type of Building VILLA EXTENSION & STAFF ACCOMODATION				Location (Area) AL-RAYYAN			
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L				Supplier Name GAZZAOUI & PARTNERS			
Applicant's e-mail <u>info@qgc-qatar.com</u>							
MV-Panel Information	Quantity	1			Consultant Stamp & Signature	Owner Signature/Stamp <i>صبري سلطان</i> <i>صبري سلطان</i>	
	ACB Rating	2500A					
	New Submittal	Re-Submittal	Date				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
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 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							
Received Date <i>15.6.2015</i>		First Submittal			Second Submittal		
Signature <i>Hessa</i>		Received Date			Received Date		
Distribution <i>Hessa</i>		IS E Signature			IS E Signature		
Assigned to <i>Hessa</i>		Signature <i>Hessa</i>					
Protection Engineer Remarks <i>* REF protection scheme & checked, verified & found ok. 06/07/2015</i>							
<i>ED/EDR/CS/3307/16/02/2015</i>							
Signature <i>Hessa</i>							
Installations Engineer Remarks							
1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp				
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp				
<i>Please Provide The SLD.</i>							
Signature <i>Hessa</i>							




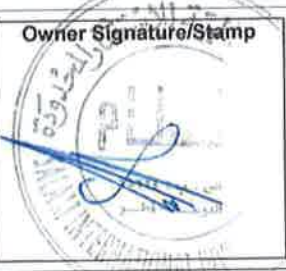
Qatar General Electricity and Water Corporation
 المؤسسة العامة القطرية للكهرباء و الماء
 Customer Services Department – Installations Section
 إدارة خدمات المشتركين – قسم التعميدات

MV-Panel Manufacturing Drawings Submittal Form

نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

General Information

BP No. 7095	Customer Name SALAM INTERNATIONAL
Type of Building OFFICE & MALL (THE GATE)	Location (Area) ONAIZAH
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY	Supplier Name STREAM INDUSTRIAL & ENGINEERING
Applicant's e-mail <u>info@gqc-qatar.com.</u>	

MV-Panel Information	Quantity	1					Owner Signature/Stamp 
	ACB Rating	1600A					
New Submittal	Re-Submittal	Date					

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 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

Received Date 9.8.2015	First Submittal	Second Submittal
Signature <i>Assem</i>		
Distribution Eng. Abdulla	Received Date	Received Date
Assigned to <i>Signature</i>	IS E Signature	IS E Signature
Protection Engineer Remarks * Ref Protection scheme is checked, verified & found ok. 10/08/2015 EP/EOR/CS/3432/10/08/2015		Signature <i>Signature</i>
Installations Engineer Remarks		
1st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit
2nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit
1st Submittal		<input type="checkbox"/> OK to Stamp
2nd Submittal		<input type="checkbox"/> OK to Stamp
<i>Show the cable size & security</i>		<i>Signature</i>
<i>Approved</i>		<i>Signature</i>
<i>Approved</i>		<i>Signature</i>



Qatar General Electricity and Water Corporation
 المؤسسة العامة القطرية للكهرباء و 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 Information							
BP No. 7094				Customer Name SALAM INTERNATIONAL			
Type of Building OFFICE & MALL (THE GATE)				Location (Area) ONAIZAH			
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY				Supplier Name STREAM INDUSTRIAL & ENGINEERING			
Applicant's e-mail info@ggc-qatar.com							
MV-Panel Information	Quantity	1					
	ACB Rating	1600A					
New Submittal	Re-Submittal	Date					
<input checked="" type="checkbox"/>	<input type="checkbox"/>						
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 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							
Received Date		First Submittal			Second Submittal		
9.8.2015		16/8/15					
Signature		Received Date			IS E Signature		
Distribution		IS E Signature			Received Date		
Eng. Abdullah		16/8/15			IS E Signature		
Assigned to		Signature			Received Date		
Protection Engineer Remarks							
* REF Protection scheme is checked, verified & found ok. 10/08/2015 ED/EDR/CS/3430/10/08/2015							
Signature 10/08/2015							
Installations Engineer Remarks							
1 st Submittal	<input type="checkbox"/>	For Discussion	<input type="checkbox"/>	Correct and resubmit	<input checked="" type="checkbox"/>	OK to Stamp	
2 nd Submittal	<input type="checkbox"/>	For Discussion	<input type="checkbox"/>	Correct and resubmit	<input type="checkbox"/>	OK to Stamp	
A Approved Signature 16/8/15 17/11/15							



Qatar General Electricity and Water Corporation
 المؤسسة العامة القطرية للكهرباء و 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 Information							
BP No. 7096				Customer Name SALAM INTERNATIONAL			
Type of Building OFFICE & MALL (THE GATE)				Location (Area) ONAIZAH			
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY				Supplier Name STREAM INDUSTRIAL & ENGINEERING			
Applicant's e-mail info@qgc-qatar.com .							
MV-Panel Information	Quantity	1			Consultant Stamp & Signature 	Owner Signature/Stamp 	
	ACB Rating	1600A					
<input checked="" type="checkbox"/> New Submittal	<input type="checkbox"/> Re-Submittal	Date					
Attachments	<input type="checkbox"/> Copy of approved BP	<input type="checkbox"/> Single Line Diagram	<input type="checkbox"/> Material List	<input type="checkbox"/> Three Line Diagram	<input type="checkbox"/> Stamp & Signature	<input type="checkbox"/> *1 Copy of submittal	<input type="checkbox"/> Short Circuit & Temp Rise test Certificate
	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							
Received Date 9.8.2015		First Submittal			Second Submittal		
Signature <i>Reem</i>							
Distribution		Received Date			IS E Signature		
Assigned to Eng. Abdul Al		Signature <i>16/8/15</i>			Received Date		
					IS E Signature		
Protection Engineer Remarks							
X REF Protection scheme is checked, verified & found OK. 10/08/2015 ED/EDR/CS/3431/10/08/2015							
Signature <i>10/08/2015</i>							
Installations Engineer Remarks							
<input checked="" type="checkbox"/> 1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp				
<input type="checkbox"/> 2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp				
Show the Earthing cable size required Required Consultant Stamp & Signature							
Signature <i>16/8/15</i> <i>17/11/15</i>							



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء و 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 Information							
BP No. 7097				Customer Name SALAM INTERNATIONAL			
Type of Building OFFICE & MALL (THE GATE)				Location (Area) ONAIZAH			
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY				Supplier Name STREAM INDUSTRIAL & ENGINEERING			
Applicant's e-mail info@qgc-qatar.com							
MV-Panel Information	Quantity	1				 Consultant Stamp & Signature	 Owner Signature/Stamp
	ACB Rating	1600A					
New Submittal	Re-Submittal	Date					
✓							
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 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.							
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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					
Received Date		First Submittal		Second Submittal	
9.8.2015					
Signature		Received Date		IS E Signature	
R. Alwan					
Distribution		Signature		Received Date	
Eng. Mohamed H		16/8/15			
Assigned to		Signature		IS E Signature	
Protection Engineer Remarks					
* Ref Protection scheme is checked, verified & found OK. 10/08/2015					
				Signature	
				10/08/2015	
Installations Engineer Remarks					
1 st Submittal		<input type="checkbox"/> For Discussion		<input checked="" type="checkbox"/> Correct and resubmit	
2 nd Submittal		<input type="checkbox"/> For Discussion		<input checked="" type="checkbox"/> Correct and resubmit	
				<input type="checkbox"/> OK to Stamp	
				<input type="checkbox"/> OK to Stamp	
show error cable missing consultant stamp and signature on out going 16/8/15 3/11/15 Approved  Signature					



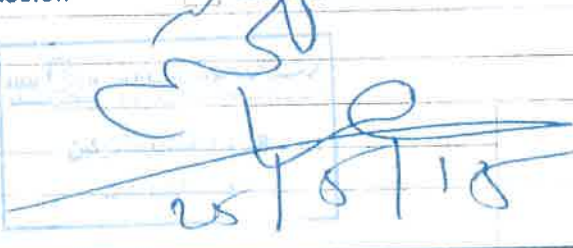
Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department – Installations Section
 إدارة خدمات المشتركين – قسم التثبيتات

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

General Information

BP No. 82836		Customer Name PUBLIC WORKS AUTHORITY (BUILDING AFFAIRS)	
Type of Building AQUATIC & FISHERIES RESEARCH CENTER		Location (Area) AL-KHOR	
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L.		Supplier Name CONSOLIDATED ENGG. CONSTRUCTION CO. W.L.L.	
Applicant's e-mail info@gqc-qatar.com			
MV-Panel Information	Quantity	5	
	ACB Rating	2500A	
<input checked="" type="checkbox"/> New Submittal	<input type="checkbox"/> Re-Submittal	Date	
			
Attachments	Copy of approved BP	Single Line Diagram	Material List
			Three Line Diagram
			Stamp & Signature
			*1 Copy of submittal
Dielectric Properties, Mechanical Operation & Functional Tests Certificates			
<p>* After approving (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp.</p> <p>Important Notice:</p> <p>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.</p> <p>2- Inquiry Date is 10 work days from date of receipt</p> <p>3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted</p>			

For Official Use Only



Received Date 12-5-2015		First Submittal		Second Submittal	
Signature <i>Beera</i>		Received Date		Received Date	
Distribution		IS E Signature <i>Kay</i>		IS E Signature	
Assigned to	Signature				
Protection Engineer Remarks					
<p>while testing the CTs, v_u shall be verified as per calculation/05/2015 ED/EDP/05/3218/17/05/2015</p>					
Installations Engineer Remarks					
1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp		
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp		
					Signature



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department – Installations Section
 إدارة خدمات المشتركين – قسم التمديدات

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

General Information													
BP No. 74721			Customer Name SHEIKH NASSER ALI AHMAD AL AHMAD AL THANI										
Type of Building VILLA COMPOUND			Location (Area) MURAIKH – AL RAYYAN										
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L			Supplier Name GAZZAOUI & PARTNERS										
Applicant's e-mail info@qgc-qatar.com													
MV-Panel Information	Quantity	1											
	ACB Rating	2500A											
<table border="1"> <tr> <td>New Submittal</td> <td>Re-Submittal</td> <td>Date</td> </tr> <tr> <td>✓</td> <td></td> <td></td> </tr> </table>			New Submittal	Re-Submittal	Date	✓			Consultant Stamp & Signature  Architectural & Engineering Consultancy W.L.L.		Owner Signature/Stamp 		
New Submittal	Re-Submittal	Date											
✓													
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 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					
Received Date 21.4.2015		First Submittal		Second Submittal	
Signature 					
Distribution		Received Date		Received Date	
Assigned to ED/EDP/CS/3104/26/04/2015		IS E Signature		IS E Signature	
Protection Engineer Remarks while Testing the CT, Vx shall be verified as per Calculation				Signature 26/04/2015	
Installations Engineer Remarks					
1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp		
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp		
					


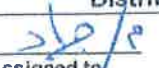






Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department – Installations Section
 إدارة خدمات المشتركين – قسم التمديدات

MV-Panel Manufacturing Drawings Submittal Form

نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

General Information							
BP No. 57199			Customer Name MRS. HISA ABDULLAH ALI M. AL-MAZROA'				
Type of Building VILLA			Location (Area) AL GHARAF A				
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L			Supplier Name GAZZAOUI & PARTNERS QATAR W.L.L				
Applicant's e-mail info@qgc-qatar.com							
MV-Panel Information	Quantity	1					Owner Signature/Stamp 
	ACB Rating	2500A					
<input checked="" type="checkbox"/> New Submittal <input type="checkbox"/> Re-Submittal		Date					
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 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:							
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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					
Received Date		First Submittal		Second Submittal	
					
Signature		Received Date		Received Date	
Distribution		IS E Signature		IS E Signature	
Assigned to		Signature			
					
Protection Engineer Remarks					
while testing the CT, V _k shall be verified as per calculation.					
ED/EDP/cg 2795/30/63/2015					
Installations Engineer Remarks					
1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp		
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp		
 TO Stamp 					
Signature					



Qatar General Electricity and Water Corporation
 المؤسسة العامة القطرية للكهرباء و الماء
 Customer Services Department – Installations Section
 إدارة خدمات المشتركين – قسم التركيبات

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

General Information							
BP No. 80982				Customer Name SHEIKH AHMED HAMAD AL-THANI			
Type of Building OFFICE BUILDING (B+G+2)				Location (Area) NUAIJA			
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L.				Supplier Name HBK ENGINEERING SERVICES WLL			
Applicant's e-mail info@qgc-qatar.com							
MV-Panel Information	Quantity	1				Consultant Stamp & Signature مكتب الاستشارات الهندسية Sketch Engg. Const. P.O. Box: 17131 Tel: 4877629 - 4877269 Fax: 4877205, Doha - Qatar	Owner Signature/Stamp
	ACB Rating	2500A					
	New Submittal	Re-Submittal	Date				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
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 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					
Received Date		First Submittal		Second Submittal	
25 - 2 - 2015					
Signature					
Distribution		Received Date	IS E Signature	Received Date	IS E Signature
Assigned to					
Signature					
Protection Engineer Remarks					
X while testing the CT, it shall be confirm as per the calculation ED/EDP/CS/2383/30/02/2015					
Installations Engineer Remarks					
1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp		
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp		
 To stamp 					



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التمديدات

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

General Information

BP No. 77434	Customer Name PUBLIC WORKS AUTHORITY (BUILDING AFFAIRS)
Type of Building DEVELOPMENT OF AL RUWAIS PORT	Location (Area) AL RUWAIS PORT
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L	Supplier Name CONSOLIDATED ENGG. CONSTRUCTION CO. W.L.L
Applicant's e-mail info@qgc-qatar.com.	

MV-Panel Information	Quantity	1	1		
	ACB Rating	2500A	1600A		
New Submittal	Re-Submittal	Date			
✓					

Consultant Stamp & Signature
COWI
 COWI A/S
 P. O. Box 23800
 Doha, Qatar
 مؤسسة استشارات

Owner Signature/Stamp
 مؤسسة الأشغال العامة
 PUBLIC WORKS AUTHORITY
 شؤون المرافق

Attachments	<input type="checkbox"/> Copy of approved BP	<input type="checkbox"/> Single Line Diagram	<input type="checkbox"/> Material List	<input type="checkbox"/> Three Line Diagram	<input type="checkbox"/> Stamp & Signature	<input type="checkbox"/> *1 Copy of submittal	<input type="checkbox"/> Short Circuiting Temp Rise test Certificate
	Dielectric Properties, Mechanical Operation & Functional Tests Certificates						

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 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

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Received Date 14.12.2014	First Submittal		Second Submittal	
Signature <i>Ram</i>				
Distribution	Received Date	IS E Signature	Received Date	IS E Signature
Assigned to	Signature			

Protection Engineer Remarks
 REF Protection scheme is checked & verified & found ok. 14/12/2014
 EP/EDP/CS/2514/12/01/2015

Installations Engineer Remarks

1st Submittal For Discussion Correct and resubmit OK to Stamp

2nd Submittal For Discussion Correct and resubmit OK to Stamp

To Stamp

Signature



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

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

General Information

BP No. 78686	Customer Name MINISTRY OF AWQAF
Type of Building PROPOSED ADDITIONAL (G+1) IMMAM HOUSE & (G+1) SERVICE BUILDING	Location (Area) AIN KHALID
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L	Supplier Name ELECTROWATT CO. W.L.L
Applicant's e-mail info@ggc-qatar.com	

MV-Panel Information	Quantity	1			
	ACB Rating	1600A			

New Submittal	Re-Submittal	Date
✓		

Consultant Stamp & Signature

Owner Signature/Stamp

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 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.

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- 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

Received Date	First Submittal		Second Submittal	
5-1-2015				
Signature <i>Rashid</i>				
Distribution	Received Date	IS E Signature	Received Date	IS E Signature
Assigned to	Signature			

Protection Engineer Remarks

X REF Protection scheme is checked & verified, found OK.
 01/05/2015 ED/EDP/CS/2392/23/11/2014 01/05/2015 Signature

Installations Engineer Remarks

1st Submittal For Discussion Correct and resubmit OK to Stamp

2nd Submittal For Discussion Correct and resubmit OK to Stamp

Stamp

Signature *[Signature]* 12/11/2015



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء و الماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

MV-Panel Manufacturing Drawings Submittal Form

نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

General Information

BP No. 72435	Customer Name CONCORD QATAR
Type of Building OFFICE BUILDING (A)	Location (Area) RAWDAT AL KHALIL
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L	Supplier Name GERMIN TRADING & CONTRACTING
Applicant's e-mail info@gqc-qatar.com	

MV-Panel Information	Quantity	1			
	ACB Rating	1600A			
	New Submittal	Re-Submittal	Date		
	<input checked="" type="checkbox"/>	<input type="checkbox"/>			



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 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.

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- 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

Received Date	First Submittal	Second Submittal
21.9.2014		
Signature <i>R. Alwan</i>		
Distribution	Received Date	Received Date
	IS E Signature	IS E Signature
Assigned to	Signature	

Protection Engineer Remarks
 REF Protection scheme & checkat & found OK.
 ED/EDP/CS/2205/24/09/2014 24/09/2014
 Signature

Installations Engineer Remarks

1 st Submittal	<input type="checkbox"/> For Discussion	<input checked="" type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp

No corrections 29-9-14
 Signature

6/12/14



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department – Installations Section
 إدارة خدمات المشتركين – قسم التمديدات

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

General Information

BP No. 75636	Customer Name CONCORD QATAR
Type of Building OFFICE BUILDING (B)	Location (Area) RAWDAT AL KHALIL
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L	Supplier Name GERMIN TRADING & CONTRACTING
Applicant's e-mail info@ggc-qatar.com	

MV-Panel Information	Quantity	1				Consultant Stamp & Signature 	Owner Signature/Stamp
	ACB Rating	1600A					
New Submittal	Re-Submittal	Date					

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
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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:

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- Inquiry Date is 10 work days from date of receipt
- 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

Received Date 21.02.2014	First Submittal	Second Submittal
Signature <i>Reem</i>		
Distribution	Received Date	Received Date
Assigned to	IS E Signature	IS E Signature

Protection Engineer Remarks
 * Ref Protection scheme is checked & found OK.
 ED/EDP/CS/2206/24/09/2014
 Signature *Zuhair*

Installations Engineer Remarks

1 st Submittal	<input type="checkbox"/> For Discussion	<input checked="" type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp

No corrections 24-9-14

Signature *[Signature]*

6/12/14



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department – Installations Section
 إدارة خدمات المشتركين – قسم للتصديقات

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

General Information

BP No. 61715		Customer Name PUBLIC WORKS AUTHORITY (BUILDING AFFAIRS)	
Type of Building HEALTH & WELLNESS CARE CENTER		Location (Area) UMM SALAL	
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L		Supplier Name STREAM INDUSTRIAL & ENGINEERING	
Applicant's e-mail <u>info@gqc-qatar.com</u>			
MV-Panel Information	Quantity	1	2
	ACB Rating	2500A	1600A
New Submittal	Re-Submittal	Date	
<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Consultant Stamp & Signature		Owner Signature/Stamp	
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 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:			
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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

Received Date		First Submittal		Second Submittal	
Signature		Received Date		Received Date	
Distribution		IS E Signature		IS E Signature	
Assigned to		Signature		Signature	
Protection Engineer Remarks					
REF Protection scheme is checked and verified found ok. 15/10/2014 ED/EDP/CS/2284/13/10/2014					
Installations Engineer Remarks					
1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp		
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp		
Signature					



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department – Installations Section
 إدارة خدمات المشتركين – قسم التركيبات

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

General Information

BP No. 77397	Customer Name SHARAKA HOLDINGS
Type of Building RESIDENTIAL FLAT	Location (Area) AL RAYYAN
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L	Supplier Name VECTOR ELECTRO-MECHANICAL CO.W.L.L
Applicant's e-mail info@qgc-qatar	

MV-Panel Information	Quantity	1	1		
	ACB Rating	1600A	2500A		

Consultant Stamp & Signature 	Owner Signature/Stamp
----------------------------------	---------------------------

New Submittal	Re-Submittal	Date
✓		

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
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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:

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- 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

Received Date		First Submittal		Second Submittal	
3.9.2014					
Signature: <i>Reem</i>		Signature: <i>Yahya</i>		Signature: _____	
Distribution		Received Date		Received Date	
Assigned to		IS E Signature		IS E Signature	

Protection Engineer Remarks
RCF Protection scheme is checked and panel OK.
 ED/EP/CS/2133/07/09/2014 07/09/2014 Signature: _____

Installations Engineer Remarks

1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp

Approved with Comments
 Signature: _____
 11/9/14



Qatar General Electricity and Water Corporation
 المؤسسة العامة للقطرية للكهرباء و الماء
 Customer Services Department – Installations Section
 إدارة خدمات المشتركين – قسم التركيبات

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

General Information

BP No. 75501
 Type of Building COMMERCIAL
 Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L
 Applicant's e-mail info@qgc-qatar.com

Customer Name AL MEERA
 Location (Area) MUAITHER
 Supplier Name PRINCES LIGHTS CO. W.L.L

MV-Panel Information	Quantity	1		
	ACB Rating	1600A		

Consultant Stamp & Signature

Owner Signature/Stamp

New Submittal	Re-Submittal	Date
✓		

Attachments: Copy of approved BP, Single Line Diagram, Material List, Three Line Diagram, Stamp & Signature, *1 Copy of submittal
 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:
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For Official Use Only

Received Date	First Submittal	Second Submittal
Signature Distribution	Received Date	Received Date
Assigned to	IS E Signature	IS E Signature

Protection Engineer Remarks
 Ref Protection scheme checked and found OK
 11/06/2014
 Signature

Installations Engineer Remarks
 1st Submittal: For Discussion Correct and resubmit OK to Stamp
 2nd Submittal: For Discussion Correct and resubmit OK to Stamp
 Signature



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

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

General Information

BP No. 75507
 Type of Building COMMERCIAL
 Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L
 Applicant's e-mail info@gqc-qatar.com

Customer Name AL MEERA
 Location (Area) AL WAJBA
 Supplier Name PRINCES LIGHTS CO. W.L.L

MV-Panel Information	Quantity	1			
	ACB Rating	2500A			

New Submittal	Re-Submittal	Date
√		

Consultant Stamp & Signature

Owner Signature/Stamp

Attachments	Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature	*1 Copy of submittal
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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:

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- Inquiry Date is 10 work days from date of receipt
- 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

Received Date	First Submittal	Second Submittal
Signature 21/06/2014	Received Date IS E Signature	Received Date IS E Signature
Distribution Assigned to Signature		

Protection Engineer Remarks

Ref Protection scheme is checked and found ok
 11/06/2014
 Signature

Installations Engineer Remarks

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

Approved with comments
 Signature
 21/6/14

Handwritten mark



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

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

General Information

BP No. 72783	Customer Name SHEIKHA JABOR M AL-MUSALAM
Type of Building VILLA	Location (Area) AIN KHALED
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L	Supplier Name HBK ENGINEERING SERVICES W.L.L
Applicant's e-mail info@qgc-qatar.com	

MV-Panel Information	Quantity	1			
	ACB Rating	1600A			
New Submittal	Re-Submittal	Date			
✓					

Consultant Stamp & Signature مكتب الاستشارات الهندسية Sketch Engg. Consult. P.O. Box: 17461 Tel: 4877629 - 4877269 Fax: 4877205, Doha - Qatar	Owner Signature/Stamp
--	----------------------------------

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 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.

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For Official Use Only

Received Date	First Submittal	Second Submittal
Signature Distribution		
Assigned to	Received Date	Received Date
Signature	IS E Signature	IS E Signature

Protection Engineer Remarks
 Ref Protection scheme is checked and found ok.
 ED/Epp/cs/11646/29/05/2017 29/5/2017

Installations Engineer Remarks

1st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp
2nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp

Signature



Qatar General Electricity and Water Corporation
المؤسسة العامة للتقوية للكهرباء و الماء
Customer Services Department – Installations Section
إدارة خدمات المشتركين – قسم التركيبات

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



General Information							
BP No. 13759				Customer Name SHK. HASSAN ABDUL RAHMAN HASSAN ALI AL THANI			
Type of Building VILLAS				Location (Area) UMM SALAL ALI			
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L				Supplier Name MADAR BUILDING MATERIALS			
Applicant's e-mail info@qgc-qatar.com							
MV-Panel Information	Quantity	1			Consultant Stamp & Signature 	Owner Signature/Stamp 	
	ACB Rating	2500A					
	New Submittal	Re-Submittal	Date				
	<input checked="" type="checkbox"/>						
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
	Dialectric 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:							
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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					
Received Date		First Submittal		Second Submittal	
Signature		IS E Signature		IS E Signature	
Distribution		Received Date		Received Date	
Assigned to		Signature		Signature	
Protection Engineer Remarks					
REF Protection scheme is checked and found OK.					
ED/EDP/CS/1560/23/04/2014					
Signature					
Installations Engineer Remarks					
1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp		
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	OK to Stamp		



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء و المياه
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

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

General Information							
BP No. 56987				Customer Name Mr. Thamir Khalifa Ali M. Al-Meaddadi			
Type of Building (B+G+10) Residential Flat Building				Location (Area) Mushairab			
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY				Supplier Name Madar Building Materials			
Applicant's e-mail info@qgc-qatar.com							
MV-Panel Information		Quantity	1				
		ACB Rating	2500A				
New Submittal	Re-Submittal	Date					
<input checked="" type="checkbox"/>	<input type="checkbox"/>						
							
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 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:							
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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					
Received Date		First Submittal		Second Submittal	
30-12-2013		31/12/2014			
Signature		IS E Signature		IS E Signature	
Distribution		Received Date		Received Date	
Assigned to		Signature		Signature	
Protection Engineer Remarks					
REF Protection scheme & checked not found OK on 31/12/2013					
ED/EDP/05/1168/31/12/2013					
Signature					
Installations Engineer Remarks					
1 st Submittal	<input checked="" type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp		
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp		
					
					



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

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

General Information							
BP No. <u>51150</u>				Customer Name <u>SH. ABDUL RAHMAN JASSIM AL-THANI</u>			
Type of Building <u>37 VILLA COMPOUND</u>				Location (Area) <u>AL NASERIA</u>			
Manufacturer Name <u>QATARI GERMAN GUTTERGEAR CO.</u>				Supplier Name <u>NEMCO</u>			
Applicant's e-mail <u>info@ggc-qatars.com</u>							
MV-Panel Information	Quantity	<u>2</u>			Consultant Stamp & Signature 	Owner Signature/Stamp 	
	ACB Rating	<u>250A</u>					
<input checked="" type="checkbox"/> New Submittal	<input type="checkbox"/> Re-Submittal	Date					
Attachments	Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature	1 st Copy of submittal	Short Circuit & Temp Rise test Certificate
	Dialectric Properties, Mechanical Operation & Functional Tests Certificates						
<p>* After approving (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp.</p> <p>Important Notice:</p> <p>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.</p> <p>2- Inquiry Date is 10 work days from date of receipt</p> <p>3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted</p>							

For Official Use Only					
Received Date		First Submittal		Second Submittal	
<u>13-1-2013</u>					
Signature		Received Date		Received Date	
Distribution		IS E Signature		IS E Signature	
Assigned to		Signature		Signature	
Protection Engineer Remarks					
<u>REF Protection scheme is checked and found ok on 13/01/2013. Therefore, it is Approved. ED/EDP/CS/210/3/101/2013 13/02/2013</u>					
Installations Engineer Remarks					
1 st Submittal	<input type="checkbox"/> Approved	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp		
2 nd Submittal	<input type="checkbox"/> Approved	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp		

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



General Information

BP No.
 38217
Type of Building
 WORKSHOP
Manufacturer Name
 QATARI GERMAN SWITCHGEAR COMPANY
Applicant's e-mail info@ggc-qatar.com

Customer Name
 INTERNATIONAL TRAD. & CONTRACTING CO (ITC)
Location (Area)
 INDUSTRIAL AREA
Supplier Name
 STREAM INDUSTRIAL & ENGINEERING

MV-Panel Information	Quantity	2			
	ACB Rating	2500A			

New Submittal	Re-Submittal	Date
√		

Consultant Stamp & Signature 	Owner Signature/Stamp 
--	--

Attachments	Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature	*1 Copy of submittal	Short Circuit & 24 Temp Rise test Certificate
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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:

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For Official Use Only


Received Date 21-10-2013 Signature 	First Submittal 30/10/2013 Received Date IS E Signature 	Second Submittal Received Date IS E Signature
---	--	---

Protection Engineer Remarks
 Ref to schedule checked & f. - Ok
 ED/EDP/CS/841/23/10/2013
 Signature


Installations Engineer Remarks
 1st Submittal For Discussion Correct and resubmit OK to Stamp
 2nd Submittal For Discussion Correct and resubmit OK to Stamp

CD required, kw should written

30/10/2013



Signature



Qatar General Electricity and Water Corporation
 المؤسسة العامة للتقوية للكهرباء و الماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

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

General Information

BP No. 6375	Customer Name SH. NASER ABDALLAH M. JASIM AL-THANI
Type of Building RESIDENTIAL FLATS	Location (Area) OLD AIR PORT
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY W.L.L	Supplier Name STREAM INDUSTRIAL & ENGINEERING
Applicant's e-mail info@ggc-qatar.com	

MV-Panel Information	Quantity	1				Consultant Stamp & Signature 	Owner Signature/Stamp
	ACB Rating	2500A					
New Submittal	Re-Submittal	Date					
✓							

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 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

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- 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

Received Date 28-10-2013	First Submittal	Second Submittal
Signature		
Distribution		
Assigned to أحمد الجليل	Received Date 10/11/2013	Received Date
Signature	IS E Signature	IS E Signature



Protection Engineer Remarks REF Protection scheme checked and found OK. ED/EDP/CS/857/28/10/2013	Signature
Installations Engineer Remarks	
1 st Submittal	For Discussion <input type="checkbox"/> Correct and resubmit <input type="checkbox"/> OK to Stamp <input checked="" type="checkbox"/>
2 nd Submittal	For Discussion <input type="checkbox"/> Correct and resubmit <input type="checkbox"/> OK to Stamp <input type="checkbox"/>
* SD req. voided. 	
Signature 	

MV-Panel Manufacturing Drawings Submittal Form

نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

General Information

BP No. 24172	Customer Name ALAQARIA
Type of Building HOUSING (INFRASTRUCTURE DEVELOPMENT)	Location (Area) AL KHOR
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY	Supplier Name GAZZAOUI & PARTNERS
Applicant's e-mail info@qgc-qatar.com	

MV-Panel Information	Quantity	3				Consultant Stamp & Signature 	Owner Signature/Stamp 
	ACB Rating	2500A					
	New Submittal	<input checked="" type="checkbox"/>	Re-Submittal		Date		

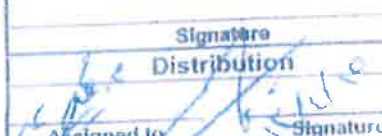
Attachments	Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature	1 Copy of submittal	Short Circuit & Temp Rise test Certificate
	Dielectric Properties, Mechanical Operation & Functional Tests Certificates						


* After approving (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp.

Important Notice:

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For Official Use Only


Received Date	First Submittal	Second Submittal
Signature 	Received Date	Received Date
Distribution	IS E Signature	IS E Signature
Assigned to	Signature	

Protection Engineer Remarks REF Protection scheme is checked and found OK on 8/4/2013. Therefore, it is approved. E0/EDP/CS/273/2/4/243	Signature 
---	---

Installations Engineer Remarks			
1st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp
2nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp

C-D Approved As Noted Regarding SPICs 	Signature 
---	---

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

General Information							
BP No. 68975				Customer Name AL-JOHARA ABDULLA Z. AL-MAHMOUD			
Type of Building VILLA				Location (Area) AL-EBB (KHARAITIYAT)			
Manufacturer Name QATARI GERMAN SWITCHGEAR COMPANY				Supplier Name GAZZAOUI & PARTNERS			
Applicant's e-mail info@qgp-qatar.com							
MV-Panel Information	Quantity	1		<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; font-size: small;">Consultant Stamp & Signature</p> <p style="text-align: center; font-size: x-small;">مكش الإستشارات الهندسية</p> <p style="text-align: center; font-weight: bold;">Sketch Engg. Const.</p> <p style="text-align: center; font-size: x-small;">P.O.Box: 17481</p> <p style="text-align: center; font-size: x-small;">Tel: 4877329 - 4877269</p> <p style="text-align: center; font-size: x-small;">Fax: 4877265, Doha - Qatar</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center; font-size: small;">Owner Signature/Stamp</p>  </div>		
	ACB Rating	2500A					
New Submittal	Re-Submittal	Date					
√							
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 Properties, Mechanical Operation & Functional Tests Certificates							
* After approving (signing) the submittal by the IS engineer, two extra copies (protocol) 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			
Received Date	First Submittal		Second Submittal
04/07/2013			
Signature			
Distribution	Received Date	IS E Signature	Received Date
Assigned to	Signature		
Protection Engineer Remarks			
REF protection scheme already approved for EP 6022 & EP 15135 is now approved against all of these REF scheme approval.			Signature
Installations Engineer Remarks			
1 st Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp
2 nd Submittal	<input type="checkbox"/> For Discussion	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp
			<div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p style="text-align: center; font-size: x-small;">Signature</p> </div>

E/El/EP/CA/650/04/07/2013



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

MV-Panel Manufacturing Drawings Submittal Form

General Information

BP No. 56179	Customer Name ALUMANA INDUSTRIES
Type of Building WAREHOUSE & OFFICE BUILDING	Location (Area) NEW INDUSTRIAL AREA
Manufacturer Name GERMAN ELECTRO MECHANICAL CO	Supplier Name KATAR ELECTRO MECHANICAL GROUP
Applicant's e-mail info@qjk-qatar.com	

MV-Panel Information	Quantity	<input checked="" type="checkbox"/>				Consultant Stamp & Signature 	Owner Signature/Stamp
	ACS Rating	300A					
	New Submittal	<input checked="" type="checkbox"/>	Re-Submittal	<input type="checkbox"/>	Date		

Attachments	Copy of approved <input type="checkbox"/>	Single Line Diagram <input type="checkbox"/>	Material List <input type="checkbox"/>	Three Line Diagram <input type="checkbox"/>	Stamp & Signature <input type="checkbox"/>	Copy of submittal <input type="checkbox"/>	Short Circuit & Temp Rise test Certificate <input type="checkbox"/>
-------------	---	--	--	---	--	--	---

Dielectric Properties, Mechanical Operation & Functional Tests Certificates

* When approving this submittal by the IS engineer, the extra copies (one copy of the original stamped file submitted for final stamp)

Important Notice:

- 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.
- Inquiry Date is **10** work days from date of receipt
- 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

Received Date 20 3 2013	First Submittal	Second Submittal
Signature 	5.5.2013 Received Date	Received Date
Distribution		IS E Signature
Assigned to	Signature	

Protection Engineer Remarks RCF scheme checked & found OK		
Installations Engineer Remarks		
1 st Submittal	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Correct and resubmit
2 nd Submittal	<input type="checkbox"/> Approved	<input type="checkbox"/> Correct and resubmit
Approved 		OK to Stamp
Approved 		OK to Stamp

STAMP



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

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

General Information							
BP No.	62847			Customer Name	NASSER MOHAMMAD NASEER AL-KAABI		
Type of Building	PROPOSED (2B+G+7TYP) RES. BLDG			Location (Area)	AL - MANSOURA		
Manufacturer Name	GATARI GERMAN SWITCHGEAR Co.			Supplier Name	TAKYEE ELECTROMECHANICAL		
Applicant's e-mail	info@ggc-gatar.com						
MV-Panel Information	Quantity	1					
	ACB Rating	2500A					
	New Submittal	Re-Submittal	Date				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>					
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 Properties, Mechanical Operation & Functional Tests Certificates						
<p>* After approving (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp.</p> <p>Important Notice:</p> <p>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.</p> <p>2- Inquiry Date is 10 work days from date of receipt</p> <p>3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted</p>							



For Official Use Only			
Received Date	First Submittal		Second Submittal
4.2.2013	13-2-13		
Signature			
Distribution	Received Date	IS E Signature	Received Date IS E Signature
Assigned to	Signature		
<p>Protection Engineer Remarks</p> <p>REF Protection scheme is checked and found ok on 13/02/2013. Therefore, it is Approved. 13/02/2013</p> <p>Signature</p>			
<p>Installations Engineer Remarks</p> <p>1st Submittal <input type="checkbox"/> Approved <input type="checkbox"/> Correct and resubmit <input type="checkbox"/> OK to Stamp</p> <p>2nd Submittal <input type="checkbox"/> Approved <input checked="" type="checkbox"/> Correct and resubmit <input type="checkbox"/> OK to Stamp</p> <p>See comments 23/4/2013</p> <p>See comments 9/5/2013</p> <p></p> <p></p> <p>Signature 15/4/2013</p>			

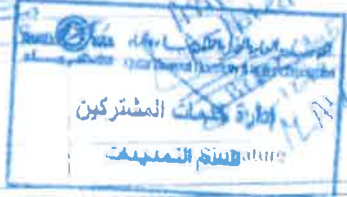


Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

MV-Panel Manufacturing Drawings Submittal Form

نموذج تسليم خرائط لوحات توزيع الجهد المنخفض


General Information							
BP No.	26805			Customer Name	ABDULLA FATHAD SAL-BUZWAIR		
Type of Building	OFFICE BUILDING			Location (Area)	ALHILAL, DOHA (QATAR)		
Manufacturer Name	QATARI GERMAN SWITCHGEAR			Supplier Name	GAZZADUI & PARTNERS		
Applicant's e-mail	info@qgc-qatar.com						
MV-Panel Information	Quantity	1			Consultant Stamp & Signature 	Owner Signature/Stamp 	
	ACB Rating	2500A 800A					
	New Submittal	Re-Submittal	Date				
	<input checked="" type="checkbox"/>	<input type="checkbox"/>	04/10/12				
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 Properties, Mechanical Operation & Functional Tests Certificates						
<p>* After approving (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp.</p> <p>Important Notice:</p> <p>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.</p> <p>2- Inquiry Date is 10 work days from date of receipt</p> <p>3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted</p>							

For Official Use Only			
Received Date	First Submittal		Second Submittal
4-10-2012			
Signature			
Distribution	Received Date	IS E Signature	Received Date IS E Signature
Assigned to	Signature		
Protection Engineer Remarks			
REF. scheme for 1 No 2500A LV panel checked & found OK			Signature 7-12-12
Installations Engineer Remarks			
1 st Submittal	<input type="checkbox"/> Approved	<input checked="" type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp
2 nd Submittal	<input type="checkbox"/> Approved	<input type="checkbox"/> Correct and resubmit	<input checked="" type="checkbox"/> OK to Stamp
Cables size and outwards name			
			


 Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والمياه
 Customer Services Department - Installations Section
 (إدارة خدمات المشركين - قسم التركيبات)

MV-Panel Manufacturing Licence Submittal Form


General Information						
No. 10085	Customer Name SAAD MOHAMMED A AL-MANA					
Type of Building VILLAS COMPOUND	Location (Area) MAREKHI (ELRAYAN)					
Manufacturer Name QATARI GERMAN SWITCHGEAR Co.	Supplier Name GAZZADUI & PARTNERS					
Applicant's e-mail Info @ qgc-qatar.com	Quantity 1		ACB Rating 2500A		 	
MV-Panel Information						
<input checked="" type="checkbox"/> New Submittal	<input type="checkbox"/> Re-Submittal	Date				
Attachments	<input type="checkbox"/> Copy of approved BP	<input type="checkbox"/> Single Line Diagram	<input type="checkbox"/> Material List	<input type="checkbox"/> Three Line Diagram	<input type="checkbox"/> Stamp & Signature	<input type="checkbox"/> 11 Copy of submittal
Dielectric Properties, Mechanical Operation & Functional Tests Certificates * After approval (stamping) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp.						
Important Notes: 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.						

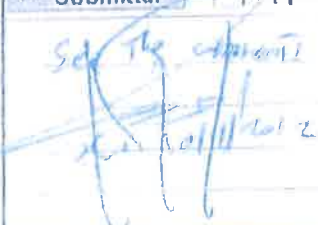

For Official Use Only			
Received Date	First Submittal	Second Submittal	
24.5.2012	8/8/12	8-11-12	
Signature	Received Date	Received Date	IS & Signature
Distribution	Signature	ISE Signature	
Assigned to			
Protection Engineer Remarks REF Protection Scheme is checked and found ok as per 5/8/2012 Therefore, it is Approved 5/8/2012 Signature: 			
Installations Engineer Remarks <input checked="" type="checkbox"/> Correct and approved <input type="checkbox"/> On to Stamp <input type="checkbox"/> On to Stamp Do correction 5/8/12 Do correction 5/9/12 - original null & void 			



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

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

General Information							
BP No. IDM 1258				Customer Name NASSER QASSIM DARWISH FARROO			
Type of Building HOTEL & CLUB				Location (Area) KHALIFAATH			
Manufacturer Name QATARI GERMAN SWITCHGEAR CO.				Supplier Name AL-KHALEES MODERN LIGHT			
Applicant's e-mail Info@qgc-qatar.com				Consultant Stamp & Signature Owner Signature 			
MV-Panel Information		Quantity 1					
		ACB Rating 1600 A					
New Submittal	Re-Submittal	Date					
<input checked="" type="checkbox"/>	<input type="checkbox"/>						
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 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					
Received Date 14-10-2012		First Submittal		Second Submittal	
Signature		Received Date 11/11/2012		Received Date	
Distribution		IS E Signature		IS E Signature	
Assigned to	Signature				
Protection Engineer Remarks REF Protection scheme is checked and found OK on 22/10/2012. Therefore, it is Approved. 22/10/2012					
Signature					
Installations Engineer Remarks					
1 st Submittal	<input type="checkbox"/> Approved	<input checked="" type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp		
2 nd Submittal	<input checked="" type="checkbox"/> Approved	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp		
Signature  					



Qatar General Electricity and Water Corporation
 المؤسسة العامة للكهرباء والماء
 Customer Services Department - Installations Section
 إدارة خدمات المشتركين - قسم التركيبات

MV-Panel Manufacturing Drawings Submittal Form

نموذج تسليم خرائط لوحات توزيع الجهد المنخفض

General Information							
BP No. 55620				Customer Name PRIVATE ENGINEERING OFFICE			
Type of Building HOTEL				Location (Area) SOUF WAGIE, DOHA, QATAR			
Manufacturer Name GATARI GERMAN SWITCHGEAR CO				Supplier Name GAZZAUI & PARTNERS			
Applicant's e-mail info@ggc-qatar.com							
MV-Panel Information	Quantity	1				Consultant Stamp & Signature GAZZAUI & PARTNERS W.L.L. Architectural & Engineering Consultancy	Owner Signature/Stamp
	ACB Rating	R500A	800A				
New Submittal	Re-Submittal	Date					
<input checked="" type="checkbox"/>	<input type="checkbox"/>	02/08/2012					
Attachments	Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature	*1 Copy of submittal	Short Circuit & Temperature Certificate
	Dielectric Properties, Mechanical Operation & Functional Tests Certificates						
<p>* After approving (signing) the submittal by the IS engineer, two extra copies (photocopy) of the original should be submitted for final stamp.</p> <p>Important Notice:</p> <p>1- The assurance of compliance of the design and the material, and/or any other attached documents, of this submittal with the applicable codes and regulations is the sole responsibility of the electrical consultant stamping this form, and the approval provided by KAHR does not release him from this responsibility.</p> <p>2- Inquiry Date is 10 work days from date of receipt</p> <p>3- If the material is not approved by the second submittal a new submittal with a new form is to be submitted</p>							

For Official Use Only			
Received Date 2-8-2012		First Submittal	
Signature 		6/11/2012	
Distribution		Received Date	IS E Signature
Assigned to 			
Signature		Received Date	IS E Signature
Protection Engineer Remarks REF Protection scheme is checked and found OK on 30/09/2012. Therefore, it is Approved 30/09/2012			
Signature			
Installations Engineer Remarks			
<input checked="" type="checkbox"/> 1 st Submittal	<input type="checkbox"/> Approved	<input checked="" type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp
<input checked="" type="checkbox"/> 2 nd Submittal	<input type="checkbox"/> Approved	<input checked="" type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp
<p>see the comments</p> <p>13/10/2012</p> <p>2/11/2012</p> <p>8/11/2012</p> <p></p>			



Ministry of Awqaf
 Islamic Center / Building
 QGC

General Information

Project No: 21006
 Ministry of Awqaf
 Industrial Area
 Manufacturer Name: QGC
 Designer: CAZBAOUI / HBK

Application No:
 RV Panel Information:
 Sheets: 2
 Area: 250

New Submittal
 Re-Submittal



Three Line Diagram

Contract Approved Diagram
 Electrical Properties, Mechanical Connections & Electrical Tests Certificate

Under supervision of the Director General, the Engineer, the contractor shall be responsible for the design, construction and installation of the electrical system in accordance with the specifications and standards mentioned in the contract documents. The contractor shall also be responsible for the safety of the workers and the public during the construction and operation of the system.

Project No	Contract No	Area
21006		250

17/10/10
 1/11/10
 1/11/10

Approved

Provide Single Line Diagrams 17/10/10

Do correction 2/11/10

29/11/10

MV-Panel Manufacturing Drawings Submittal Form
 نموذج تسليم مخططات لوحات توزيع الجهد المتوسط

General Information											
BP No. 25337	Customer Name المجموعة العامة للتجارة										
Type of Building محل	Location (Area) منطقة الرياض										
Manufacturer Name QGC	Supplier Name UNITED ELECTROMECHANICAL INTL										
Applicant's e-mail											
MV-Panel Information	<table border="1" style="width: 100%;"> <tr> <td>Quantity</td> <td style="text-align: center;">4</td> <td></td> <td></td> </tr> <tr> <td>ACS Rating</td> <td style="text-align: center;">2500</td> <td></td> <td></td> </tr> </table>	Quantity	4			ACS Rating	2500				
Quantity	4										
ACS Rating	2500										
<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">New Submittal</td> <td style="text-align: center;">Re-Submittal</td> <td style="text-align: center;">Date</td> </tr> <tr> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td style="text-align: center;"><input type="checkbox"/></td> <td></td> </tr> </table>	New Submittal	Re-Submittal	Date	<input checked="" type="checkbox"/>	<input type="checkbox"/>		 				
New Submittal	Re-Submittal	Date									
<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Attachments	<table border="1" style="width: 100%;"> <tr> <td style="text-align: center;">Copy of approved BP</td> <td style="text-align: center;">Single Line Diagram</td> <td style="text-align: center;">Material List</td> <td style="text-align: center;">Three Line Diagram</td> <td style="text-align: center;">Stamp & Signature</td> </tr> <tr> <td colspan="5" style="text-align: center;">Dielectric Properties, Mechanical Operation & Functional Tests Certificates</td> </tr> </table>	Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature	Dielectric Properties, Mechanical Operation & Functional Tests Certificates				
Copy of approved BP	Single Line Diagram	Material List	Three Line Diagram	Stamp & Signature							
Dielectric Properties, Mechanical Operation & Functional Tests Certificates											

Important Notice:

- After approving (signature) the submittal by the ES engineer, two soft copies (photocopy) of the original shall be submitted for archiving.
- The assurance of compliance of the design and BLD approval, and/or any other attached documents, of this submittal shall be the responsibility of the applicant and not the responsibility of the approval committee.
- Inspection Date is 10 work days from date of receipt.
- If the material is not approved by the second submittal a new submittal with a new sheet is to be submitted.

For Official Use Only			
Received Date	First Submittal	Second Submittal	
29/6/2007	5-7-07		
Distribution	Approved Date	Received Date	Signature
29/6/2007	5-7-07		
Protection Engineer's Remarks			
Signature			
Installation Engineer's Remarks			
<input checked="" type="checkbox"/> Submittal	<input type="checkbox"/> Approved	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp
<input type="checkbox"/> Resubmittal	<input type="checkbox"/> Approved	<input type="checkbox"/> Correct and resubmit	<input type="checkbox"/> OK to Stamp



PROJECT REFERENCE LIST

SUPPLIER REFERENCE LIST

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 Switchgear	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 Switchgear (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

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 & Contracting 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 Deveopment 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 Reservoirs 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

11KV & 3.3KV SWITCHGEAR PROJECT REFERENCE LIST
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NO.	CLIENT	PROJECT	SPECS.	QTY.	YEAR
49	Draieh Contracting	Proposed 1B+G+2P+21 Storey Serviced Apartment Building at Waterfront Residential 12	11kV,31.5kA, 800A	3	Completed 2017
50	QD-SBG	Dukhan Road (Khalifa Avenue) East Contract Design Build	11kV,25kA, 800A	27	Completed 2017
51	QD-SBG	Dukhan Road (Khalifa Avenue) East Contract Design Build	11kV,25kA, 800A	5	Completed 2019
52	Marbu Contracting Co.	Marbu Headquarters Building @ ECQ F11	11kV,31.5kA, 800A	3	Completed 2018
53	Ertibat Engineering Co. (EEC)	HERMAS DEVELOPMENT	11kV,31.5kA, 800A	7	Completed 2019
54	Qatar Building Company	JERY AL SAMUR DEVELOPMENT PROJECT PHASE 2	11kV,25kA, 800A	20	Completed 2018
55	Danat Qatar LLC	AL FARDAN VILLAS	11kV,25kA, 800A	9	Completed 2017
56	Al-Sraiya Engineering Consultants	Commercial Tower (3B + G + 19 Floors) Nasser Rashid Suraiya Al Kaabi	11kV,31.5kA, 800A	4	Completed 2017
57	Al-Sraiya Engineering Consultants	ECQ-B11 Office Building	11kV,31.5kA, 800A	3	Completed 2017
58	Mastro Qatar	NEW ORBITAL HIGHWAY & TRUCK ROUTE PROJECT 023 - CONTRACT	11kV,25kA, 800A	10	Completed 2018
59	Qatar Power Construction	LEXUS SHOWROOM	11kV,25kA, 800A	6	Completed 2018
60	Hyundai Engineering & Construction Co.	Lusail Expressway	11kV,25kA, 800A	15	Completed 2021
61	Larsen & Toubro	Al Wakrah Bypass Road EXW- P015	11kV,25kA, 800A	14	Completed 2018
62	Voltage Engineering Limited	MARINA COM 005 JABAL THU AILEB	11kV,31.5kA, 800A	6	Completed 2018
63	RAMACO Trading and Contracting	FJ RESIDENTIAL TOWER PROJECT AT LUSAIL	11kV,31.5kA, 800A	3	Completed 2018
64	AlSaad General Contracting W.L.L.	OFFICE BLDG. (B4+G+M+7) AIRPORT RD. UMM GHUWAILINA	11kV,31.5kA, 800A	9	Completed 2017
65	Voltage Engineering Limited	ORYX INTERNATIONAL SCHOOL (B+G+2)	11kV,25kA, 800A	7	Completed 2018
66	Damac	FOX HILLS PROPOSED RESIDENTIAL DEVELOPMENT PROJECT (B+G+4 F)	11kV,31.5kA, 800A	6	Completed 2018
67	UrbaCon Trading & Contracting	DESIGN & BUILD INFRASTRUCTURE ROADS & LANDSCAPING FOR QEZ-1 RAS BUFONTAS	11kV,31.5kA, 800A	172	Completed 2019
68	Al Bawakir Unicon Co.	THE PEARL	11kV,25kA, 800A	36	Completed 2020
69	The Best Trading & Contracting	BARWA VILLAGE EXPANSION	11kV,25kA, 800A	8	Completed 2017
70	Metrix Qatar WLL	WAREHOUSE AND LOGISTICS PARK	11kV,25kA, 800A	42	Completed 2018
71	Consolidated Contractors Company (CCC)	Musheireb Downtown Doha -Phase 4	11kV,25kA, 800A	33	Completed 2018
72	Generic Engineering Technologies WLL	AL BIDDA PARK	11kV,25kA, 800A	1	Completed 2017

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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	Takyeeef	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 Kharij 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	QEZ-1 Parcel A -Ras Abu Fontas	11kv,31.5ka, 800A	6	Completed 2019
90	Qatar Kentz -SNC Lavalin	District Cooling Plant – West Phase-1, Lusail City Development, Qatar	3.3kv,31.5ka, 800A	19	Completed 2020
91	Qatar Kentz -SNC Lavalin	District Cooling Plant – West Phase-1, Lusail City Development, Qatar	11kv,31.5ka, 800A	36	Completed 2020
92	QBEC	UM ALHOUL ECONOMIC ZONE (QEZ-3)	11kv,31.5ka, 800A	33	Completed 2019
93	Qatar Building Company	Industrial Area - Package 3	11kv,25ka, 800A	12	Completed 2020
94	Omega Engineering W.L.L.	Lusail CP07-B	11kv,31.5ka, 800A	12	Under Execution
95	Pioneer Contracting & Trading Co. W.L.L	OASIS HOTEL	11kv,31.5ka, 800A	13	Completed 2020
96	BO JAMHOOR MECHANICAL & ELECTRICAL CO.	NEW COLLEGE OF LAW BUILDING	11kv,25ka, 800A	7	Completed 2019

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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	CONSPTEL	KATARA TOWERS AT LUSAIL MARINA DISTRICT - PACKAGE 3	11kV,31.5kA, 800A	36	Under Execution
102	CABTECH	QEWR	11kV,31.5kA, 800A	6	Completed 2019
103	Arabian MEP Contracting	AL BAKER TOWER HOTEL 1 & 2	11kV,31.5kA, 800A	19	Under Execution
104	DEBBAS	DESIGN & CONSTRUCTION OF CP07B – LUSAIL PLAZA INFRASTRUCTURE, LRT STATION, PUBLIC	11kV,31.5kA, 800A	16	Under Execution
105	MEGA VOLT AMPERE	AFFORDABLE HOUSING DEVELOPMENT AT SALWA ROAD	11kV,31.5kA, 800A	63	Completed 2020
106	MEGA VOLT AMPERE	PROPOSED SCHOOL (B+G+2) FOR BP#N/2016/3870 -AL THUMAMA	11kV,25kA, 800A	8	Completed 2019
107	Advanced Engineering & Maintenance Co.	BURJ AL MANA COMMERCIAL RESIDENTIAL TOWER AT AL DAFNA	11kV,31.5kA, 800A	15	Under Execution
108	Mega Zero Kelvin	Lusail Fox Hills MU04 & ER43	11kV,31.5kA, 800A	6	Completed 2020
109	Qatar Power Construction	Lusail Fox Hills B18 & D49	11kV,31.5kA, 800A	6	Completed 2020
110	Qatar Power Construction	Hotel Apartment Bldg 3B+G+M+6+P at Al Khail	11kV,25kA, 800A	4	Completed 2020
111	Al Jaber Engineering LLC	ISF Camp at Duhail CPC02 - Shaded Stage Bldg	11kV,25kA, 800A	3	Completed 2020
112	SAK Trading & Contracting Company	Hala Tower	11kV,31.5kA, 800A	10	Completed 2020
113	Al Jaber Engineering LLC	ISF- PERMANENT UTILITIES	11kV,25kA, 800A	4	Completed 2020
114	Voltage Engineering Limited	APARTMENT BUILDING (B+G+3) OLD AIRPORT	11kV,25kA, 800A	6	Completed 2020
115	Raptors	Beema Office Bldg	11kV,31.5kA, 800A	3	Completed 2019
116	Advanced Engineering & Maintenance Co.	Al Mana Headquarters	11kV,31.5kA, 800A	5	Completed 2020
117	Raptors	Al Moez Logistic	11kV,31.5kA, 800A	3	Completed 2019
118	Al Jaber Engineering LLC	ISF Package at Duhail	11kV,25kA, 800A	14	Completed 2020
119	Al Jaber Engineering LLC	CONSTRUCTION OF D LINE TSE PUMPING STATION & TRANSMISSION MAIN C762	11kV,31.5kA, 800A	19	Under Execution
120	Voltage Engineering Limited	LUSAIL CP31	11kV,31.5kA, 800A	247	Under Execution

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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 Island	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

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145	AALCO	AL BIDDA PARK (SS-28839)	11kv,25ka, 800A	1	Under Execution
146	The Best Trading & Contracting	DAMAC SEA VIEW WR.RES-07	11kv,31.5ka, 800A	3	Under Execution
147	MIDMAC-MIC JV	Lusail Plaza Towers Plot 1 & 2	11kv,31.5ka, 800A	74	Under Execution
148	Anel MEP	Lusail Plaza Towers Plot 3 & 4	11kv,31.5ka, 800A	75	Under Execution
149	QEMG	Doha Live	11kv,31.5ka, 800A	12	Under Execution
150	Pegasus	Lusail Erkya R-39 & R-52	11kv,31.5ka, 800A	6	Under Execution
151	MEKDAM	CCTV & Control Bldg at Al Wakara Logistic Park	11kv,31.5ka, 800A	3	Under Execution
152	POLARIS	Gewan Island Plot QQ Marina (SS-35578)	11kv,31.5ka, 800A	5	Under Execution
153	Al Jaber Engineering LLC	CPC02-11A ISF Camp - Equestrian Zone 15	11kv,25ka, 800A	5	Under Execution
154	Al Jaber Engineering LLC	Central Doha & Corniche Beautification Package 2A	11kv,31.5ka, 800A	9	Under Execution
155	Qatar Power Construction	LUSAIL FOX HILLS WOQOD PETROL STATION (SS- 24340)	11kv,31.5ka, 800A	3	Under Execution
156	Qatar Power Construction	AW-LP-A-089 AL RAKB SS-32028	11kv,31.5ka, 800A	4	Under Execution
157	Voltage Engineering Limited	The Pearl - Al Mana Mall 04 LPS 62 - S/S 18570	11kv,31.5ka, 800A	3	Under Execution
158	Pegasus	Factory in Mesaieed - S/S 38256	11kv,31.5ka, 800A	3	Under Execution

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