



SAHARA COMPANY PROFILE FOR LOW VOLTAGE SWITCHBOARDS



SAHARA

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SAHARA COMPANY PROFILE

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- ISO Certificates**
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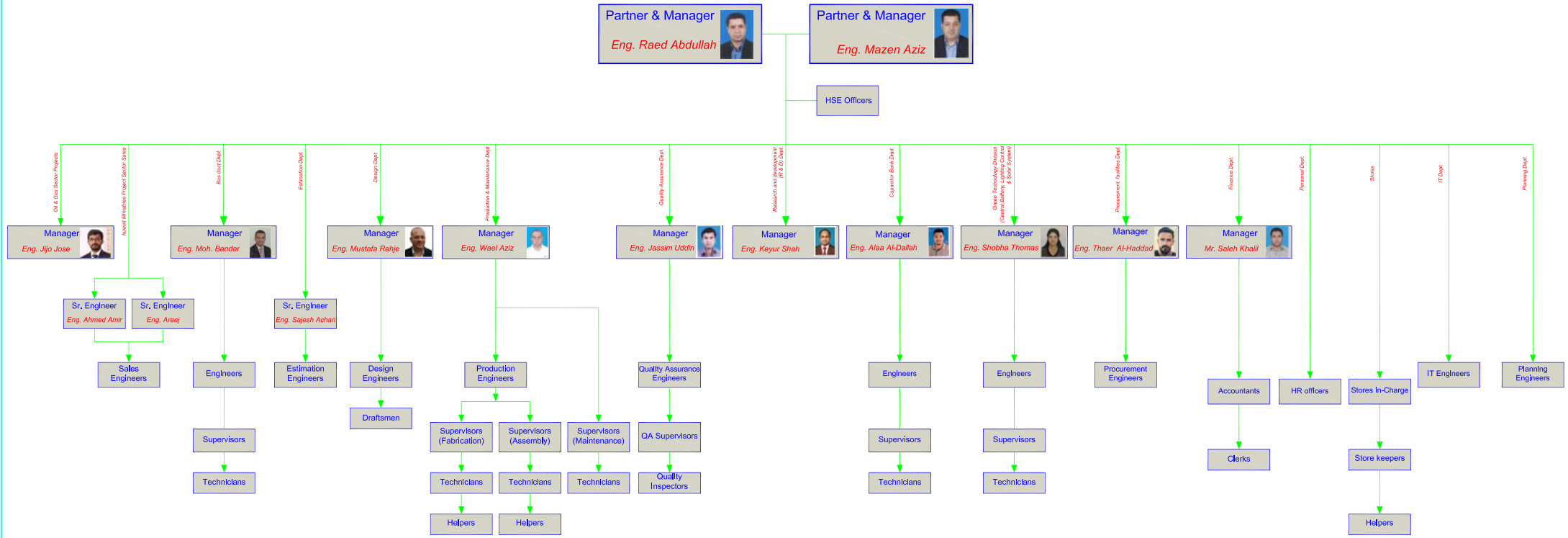


SAHARA COMPANY'S ORGANIZATION CHART



SAHARA COMBINED GENERAL TRADING & CONTRACTING COMPANY (SAHARA SWITCH BOARD FACTORY)

ORGANIZATION CHART



Eng. Raed Abdullah
Partner & General Manager

Eng. Mazen Aziz
Partner & Dy. General Manager

Approved By



SAHARA COMPANY'S ISO CERTIFICATES





Quality Management System

Certificate of Approval

This is to certify that the QMS of
**Sahara Combined General Trading and
Contracting Company**

Block 8, Street 83, Building 228, Subhan Industrial Area, Mubarak Al-Kabeer Road.
Al-Rai Address: -Al-Rai Area, Ghazali Street, Block-62.
Kuwait

Has been assessed and found to meet the requirements of
ISO 9001:2015

This certificate is valid for the following scope of operations

**Manufacturing, Design, Installation & Commissioning of Electric Panels
and Control Panels (Low Voltage, Switchgears, Control Gears, Cable Trays)**

Authorised by:

**R N Cooke
Director**

Date of Certificate Issue: 07 September 2022

Certificate Valid Until: 03 September 2023

Recertification audit before 04 August 2024. Certified since 04 September 2018.
This certificate is the property of SN Registrars (Holdings) Limited and remains valid
subject to satisfactory annual Surveillance audits.

SN Registrars (Holdings) Limited
Registration House, 22b Church Street,
Rushden, Northamptonshire,
NN10 9YT, UK
Tel: +44 (0) 1933 381859
Email: enquiries@snregistrars.com
Web: www.snregistrars.com
Company Number: 07659067

Certificate Number: SNR 27221904/96/Q Rev: 002





**Occupational Health & Safety
Management System
Certificate of Approval**

This is to certify that the OHSMS of
**Sahara Combined General Trading and Contracting
Company**

Block 8, Street 83, Building 228, Subhan Industrial Area, Mubarak Al-Kabeer Road.
Al-Rai Address: -Al-Rai Area, Ghazali Street, Block-62.
Kuwait

Has been assessed and found to meet the requirements of
ISO 45001:2018

This certificate is valid for the following scope of operations

**Manufacturing, Design, Installation & Commissioning of Electric Panels
and Control Panels (Low Voltage, Switchgears, Control Gears, Cable Trays)**

Authorised by:

**R N Cooke
Director**

Date of Certificate Issue: 07 September 2022

Certificate Valid Until: 06 September 2023

Recertification audit before 07 August 2024. Certified since 07 September 2021.
This certificate is the property of SN Registrars (Holdings) Limited and remains valid
subject to satisfactory annual Surveillance audits.

SN Registrars (Holdings) Limited

Registration House, 22b Church Street,

Rushden, Northamptonshire,

NN10 9YT, UK

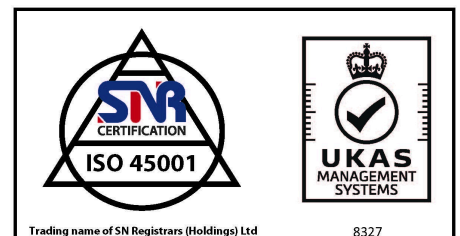
Tel: +44 (0) 1933 381859

Email: enquiries@snregistrars.com

Web: www.snregistrars.com

Company Number: 07659067

Certificate Number: SNR 57418599/96/O Rev: 002





Environmental Management System

Certificate of Approval

This is to certify that the EMS of
**Sahara Combined General Trading and Contracting
Company**

Sahara Combined General Trading and Contracting Company
(Switchboard and Control Board Factory) Subhan
Block 8, Street 83, Building 228, Subhan Industrial Area, Mubarak Al-
Kabeer Road, Kuwait
Al-Rai Area, Ghazali Street, Block-62, Kuwait.

Has been assessed and found to meet the requirements of

ISO 14001:2015

This certificate is valid for the following scope of operations

**Manufacturing, Design, Installation & Commissioning of
Electric Panels and Control Panels (Low Voltage, Switchgears, Control
Gears, Cable Trays).**

Authorised by:

R N Cooke
Director

Date of Certificate Issue: 12 July 2022

Certificate Valid Until: 11 July 2023

Recertification audit before 11 June 2024. Certified since 12 July 2021.
This certificate is the property of SN Registrars (Holdings) Limited and remains valid
subject to satisfactory annual Surveillance audits.

SN Registrars (Holdings) Limited

Registration House, 22b Church Street,
Rushden, Northamptonshire,
NN10 9YT, UK

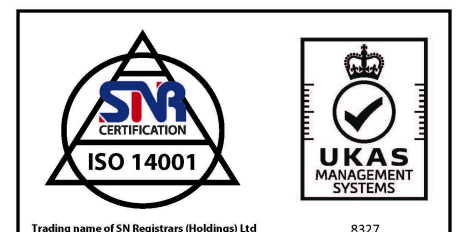
Tel: +44 (0) 1933 381859

Email: enquiries@snregistrars.com

Web: www.snregistrars.com

Company Number: 07659067

Certificate Number: SNR 99883885/96/E Rev: 001



SAHARA MAJOR PROJECT'S REFERENCES



SAHARA Project Reference List (General)

Sr. No.	Customer	Year	Project
1	Hydrotek	2022	The Scientific Center Expansion Program, Kuwait
2	Heavy Engineering Company (Heisco)	2022	Switchboards & Power Distribution Boards for Boiler Revamp-KNPC
3	Electrical Systems Company	2022	Commercial Building Project @ Ahmadi
4	Energy Systems Company	2022	Gulf University for Science & Technology (Gust)
5	Miraco	2022	Clinics Building @ Al Reqe, Block-1, Plot-1
6	First Group Company	2022	East Sabah Al Ahmed Housing Project (T-1211)
7	Al Muhalab General Trading & Contracting Co.	2022	East Sabah Al Ahmed Housing Project (T-1441)
8	Storage Facility @ Ardiya Blok-1, Plot 22 & 24	2022	Masiya Engineering Co.
9	Limak Insaat Kuwait S.P.C	2018 - 2021	Kuwait International Airport New Passenger Terminal-II SPA/214
10	Bader Al-Mailam Co.	2021	Monad Real Estate
11	Badr Al-Mulla & Bors	2021	Mitsubishi Workshop
12	Al-Ahliad Integrated	2021	New HAHC Hospital
13	Gulf Engineering	2021	Hessah Al Mubarak Residential Towers -52,160,161
14	Muhalhal & Nisf	2020	Abdul Aziz Al-fuleij Mall - Phase2
15	Turky Al-Dabbous	2020	KOTC - New Administrative Building for Marine Agency Branch
16	Turky Al-Dabbous	2020	KOTC - Warehouse LPG & CO - Shuwaikh
17	First Group	2020	PAHW - Mutlaa City N6+N9
18	EL-Eman Construction	2020	PAHW - Mutlaa City N6+N9
19	EL-Eman Construction	2020	Battalion @ Maghaweer Camp
20	Al-Masiya Engineering	2020	Injazzat Tower
21	Gulf Construction	2020	Technical Inspection for Vehicle - Subhan
22	Badr Al-Mulla & Bors	2020	Sheikh Hamad Sabah Al Ahmed - Tower 99
23	Al-Ghanim Engineering	2020	Salil Al Jahra Resort - New Commercial Souq



SAHARA Project Reference List (General)

Sr. No.	Customer	Year	Project
24	EMEC Co.	2020	Al-Assima Cinema
25	Al Jaber and Al Hawi General Trading & Cont Co.	2019	Package-3 Design & Construction of New Runway 15R/33L, and Reconstruction of Runway 15L/33R
26	Sayed Hamid Behbehani & Sons Co.	2019	Design, Construction, Medical Supplies, Equipment Furniture and Operational Maintenance for The Expansion of Farwaniya Hospital
27	Bader Al Mulla & Bros. Co. W.L.L	2019	New Al Sabah Hospital
28	Al Masiya Engineering Co.	2019	Nissan Showroom
29	Al Muhalab General Trading & Cont. Co.	2019	Wafra Public Main Building Project, Block-2
30	Al Muhalab General Trading & Cont. Co.	2019	Al Mutla City T-1176 (N7 & N8)
31	First Group Company	2019	Al Mutla City T-1176 (N6 & N9)
32	Gossco	2019	Electricity & Water Training Institute-EWTI (Paaet)
33	CMBC	2019	Tower 6 in Kuwait Business Town – Development Zone -1
34	Miraco General Trading & Cont. Co.	2019	West Abdullah Mubarak Sabah Al Ahmed City –NA (2, 3 & 4)
35	First United Engineering	2019	Al Sidarawi Commercial Complex
36	Mega Tech Company	2019	Light Weapon Ammunition Factory Building & Stores
37	Gulf Engineering Company	2019	Wafra Housing Complex -02 @ Salmiya
38	Tatwan General Trading & Contracting Co.	2019	General Department of Criminal Evidence Headquarters
39	Mega Tech Company.	2019	Capital Governorate Building
40	Al Arjan Company	2019	Hyundai External Garage & Offices @ Shuwaikh
41	Al Ghanim International	2019	Infrastructure Facilities for Eurofighter Typhoon @ Ali Al Salem Airforce Base
42	Faddan General Trading & Contracting Co.	2019	Al Dajeej Retail Center
43	Al Masiya Engineering Company	2019	Plastic Pipes & Fittings Factory
44	Arabi Company	2018	Kuwait Navel Base
45	Energy System Company	2018	Reggae Residential Building
46	Al Mashan General Trading & Cont. Co.	2018	Sabah Al Salem Tower
47	Tatwan General Trading & Contracting Co.	2018	Al Tujjar Building



SAHARA Project Reference List (General)

Sr. No.	Customer	Year	Project
48	Kuwait Controls Co. for Mech. & Elect.	2018	Combined Service Center for Porche & Volkswagen
49	Mohi Al Nisf General Trading & Cont Co.	2018	Shuaiba Industrial Factory Block-5, Plot-151,152, 167 & 168
50	United Engineering Services Co.	2018	Petrol Filling Station
51	Gulf Engineering Company.	2018	Khaldiya Campus KH-119 & 120 Central Plant
52	Al Khaled Company	2019	Specialized Medical Center @ Fintas
53	Petroleum Equipment Technology Company W.L.L	2018	Brine Pumping Facility @ Sulaibiya SWTP
54	Al Ghanim Combined Group Co.	2018	Renovation of Warehouse @ Camp Arifjan
55	Adel Al Khalaf	2018	Al Ruya Bilingual School
56	Dodsal Engineering & Construction Co.	2018	New Gathering Center GC-31 @ North Kuwait -KOC
57	Petrofac International Ltd.	2018	Lower Fars Heavy Oil Development Program
58	Knetco	2018	Lower Fars Heavy Oil Development Program
59	Wataniya Construction Company	2018	Alfa Fuel Station
60	High Technology for General trading & Contracting Co.	2018	Old Swaber School
61	Sepco Electric Power Construction Corporation	2018	Al Zour South (CCGT-3) Power plant
62	Hajer Al Dira General Trading & Contracting Co.	2018	Al Salam Kinder garteen
63	Sahara Combined Group	2018	Plastic Factory Al Babtain Group
64	China State Construction Engineering Corporation	2017	Sabah Al Salem University Administration Facilities
65	China State Construction Engineering Corporation	2017	Sabah Al Salem University Academic support Facilities
66	Al Muhalab General Trading and Construction Co.	2017	Jaber Al Ahmad City N1,N3 and CC
67	Contact Translation Company	2017	Kuwait National Guard Project
68	Arab Tech General Trading. And Contracting Co.	2017	Lighting Control cabinets
69	Al-Khonaini General Trading and Contracting Co.	2017	Al-Mosallam Residential Tower
70	First United Electro-Mechanical Co.	2017	Baitak Tower MEP Services
71	Nets General Trading and Contracting Co.	2017	United Beverage Co. @ Subhan (Pepsi Co.)



SAHARA Project Reference List (General)

Sr. No.	Customer	Year	Project
72	Imco	2017	Apartment @ Jabriya and Salwa
73	Lulu Hyper Marker	2017	Lulu Hyper Market @ Jahra, Kuwait
74	Nets General Trading and Contracting Co.	2017	Al Sayer Car Showroom @ Jahra
75	Easa Hussain Al-Yousifi	2017	Expropriation for Public Welfare
76	Mohal Al Nisf. General Trading and Contracting Co.	2017	Turkish Mall
77	Al-Wataniya Company	2017	Alfa Fuel Station 09 @ Jahra
78	Al-Othman and Al-Zamel Company	2017	General Authority for Civil Information in Ahmadi PACI
79	Nets General Trading and Contracting Co.	2017	Platinum Ladies Health Club
80	Bader Al-Mulla and Bros. Co.	2017	Al-Kout Pedestrian Bridge
81	Yousuf Ahmad Alghanim and Sons.	2017	Al Mayssam Tower @ Salmiya
82	Gulf Tech	2017	NBK @ Jleeb
83	Nets General Trading and Cont. Co.	2017	Levels Tower @ Salmiya
84	First United General Trading and Contracting Co.	2017	Private School @ Sabah Al Salem
85	Bader Al-Mulla and Bros. Co.W.L.I	2017	Al-Kout Ball Room @ Fahaheel, Kuwait
86	ASAS General Construction for Building Co.	2017	Water Bottling Factory b@ Subhan, Kuwait
87	Mega Tech General Trading and Contracting Co.	2017	Car Parking Building @ International Hospital -Salmiya
88	Nets General Trading and Contracting Co.	2017	Al Ahmady 3S Facilities (Al Mulla & Behbehani Motors)
89	United Building Company	2016	Public Prosecution Headquarters
90	Faddan General Trading and Contracting Co.	2016	PAAF New Administration Building
91	International Ougarit Electrical & Refrigeration Co.	2016	Sheikha Salwa Al Sabah Stem Cell and Umbilical Center
92	Kharafi National	2016	Sulaibiya Waste Water Treatment Plant Expansion
93	Refrigeration and Air-Conditioning Company (RASCO)	2016	Bloomingdale's @ 360 Mall
94	Bader Al Mulla and Bros. Co. W.L.I	2016	Al Kout Mall
95	Lumitec Company	2016	Um Al Qura Bilingual School @ Jleeb Al Shuyoukh



SAHARA Project Reference List (General)

Sr. No.	Customer	Year	Project
96	The Triple General Trading and Cont. Co.	2016	Construction of Levels Tower @ Salmiya
97	China Railway 18th Group CRCC	2016	1217 Public Building Neighbourhood (D) @ Sabah Al Ahmed City
98	Blue Dana General Trading and Contracting Company	2016	Al Sayer Cars and Spare Parts Center @ Fahaheel Area
99	Mega Tech General Trading and Contracting Co.	2016	Civil Aviation Project
100	Odasco.	2016	Al Amiri Hospital Expansion
101	Mohal Al Nisf General Trading and Contracting Co.	2016	New Volkswagen Showroom
102	Al Mashaan Company	2016	Asian Industrial and Commercial Establishment.
103	Drake and Scull International	2016	Souk Al Kuwait and Souk Al Kabeer
104	China State Construction Company	2016	Sabah Al Salem University City Academic Support Facilities-Kuwait
105	Nets General Trading & Cont. Co.	2016	Flamingo Food Court
106	Sayed Hamid Behbehani & Sons Co.	2016	Qatami Car Storage- Behbehani Motors
107	Sayed Hamid Behbehani & Sons Co.	2016	Expansion of Farwaniya Hospital-MOH
108	BIG Contractors	2016	Messilah Neighbourhood Centre
109	Drake & Scull International	2016	Delta Serviced Apartment Buildings
110	First United Engineering Co.	2016	Kuwait Chamber of Commerce & Industry Annex Building
111	Gulf Spic General Trading & Contracting Co.	2016	Construction of New IT Group Centre -KOC
112	Yusuf Ahmed Alghanim & Sons.	2016	8 Mall (Plot-a & Plot-B)
113	Al Muhalab Trading & Contracting Co.	2015	Sheikh Salem Al Sabah Commercial Complex
114	Nusaiba Company	2015	Judge's Club for Ministry of Justice
115	Ali Alghanim & Sons.	2015	KD Cow Project
116	Yusuf Ahmed Alghanim & Sons.	2015	American College of the Middle-East (ACM-Education Building)
117	Yusuf Ahmed Alghanim & Sons.	2015	Al Ghanim Head Quarters @ Al Hamra Tower
118	Bader Al Mulla & Bros. Co.W.L.L	2015	Renovation & Redevelopment of Ministries Complex
119	Al Jaber & Hawi	2015	Proteins Warehouse @ Subhan



SAHARA Project Reference List (General)

Sr. No.	Customer	Year	Project
120	Nets Co.	2014	Public Health Department Building (MOH)
121	Refregeration & Airconditioning Co. (Rasco)	2014	Yaal Complex @ Fahaheel
122	Masiya Engineering Co.	2014	Mahboula Residential Building Plot-330, Block-20
123	Ays International	2014	Fajer Al Sabah Private School @ Salmiya
124	Al Dhow	2014	Ooredoo Headquarter Building
125	Nets Co.	2014	Al Naseem Project , Block 3 & 4 PAHW Tender-949
126	Ali Alghanim International	2014	Al Razi Hospital (MCC Panels)
127	Gulf Engineering Company	2012	College of Education Men's & Women's Building Kuwait University
128	Canar Gen. Trad. & Cont Co.	2014	North-West Sulaibikhat Project, T-916
129	Kazema Engineering Projects	2014	Al Razi Hospital Opd Lab, X-Ray & Pharmacy Building
130	Al Abraq Gen.Trad.& Cont. Co.	2014	Muroj Sahara Resort
131	Drake & Scull International	2014	The Government Centre Testing & Quality Control.
132	Al Muhalab Cont. & Trad. Co.	2014	The Kuwait Institute for Medical Specialities-MPW
133	Nets Co.	2014	Fintas Co-Operative Society
134	First United	2014	BMB Showroom
135	Canar Gen. Trad. & Cont Co.	2014	North-West Sulaibikhat Project
136	Kazema Engineering Projects	2014	Al Razi Hospital Opd Lab, X-Ray & Pharmacy Building
137	First United Engineering Co.	2014	BMB Showroom
138	Al-Nafisi	2013	Equate Waste Water Treatment Plant
139	Sahara Air Conditioning Co.	2013	Extension of GC-27 Control Room, KOC
140	Sahara Air Conditioning Co.	2013	Flow Tech Project, KOC
141	Al-Khorayef Group Company	2013	New GC-16 in West Kuwait, KOC
142	Abu-Dhabi Gas Development Co. Ltd.	2013	Shah Gas Development , Abu-Dhabi
143	Al Dunia International	2013	KOC-New General Practitioners Building, Ahmadi



SAHARA Project Reference List (General)

Sr. No.	Customer	Year	Project
144	Bader Al Mulla & Bros. Co.	2013	Jaber Al-Ahmed Oil & Gas Exhibition-KOC Ahmadi
145	Bader Al Mulla & Bros. Co.	2013	Social Security Building @ South Surra
146	Al Omraa Co.	2013	Arabization Centre for Medical Science
147	Mushrif Trading & Cont. Co.	2013	Central Telemetry Building
148	Drake & Scull International	2013	Sheikh Saad Al Abdulla Al Salem Al Sabah Indoor Sports Hall
149	Al Enmaa Real Estate Co.	2012	Intensive Care Unit-MOH
150	Combined Group Company	2012	Burgan Bank @ Ahmadi-KOC
151	Al Ghanim Company	2012	Jaber Al Ahmed City Houses (390 Nos.)=-PAHW
152	Arab Tech. Company	2012	Jaber Al-Ahmed City Houses (401 Nos.) -PAHW
153	Sahara Air Conditioning Co.	2012	Kuwait National Petroleum Co.-KNPC
154	Kharafi Systems	2012	Um Omora School
155	Maly Al Masiya Co.	2012	KGL Warehouse
156	Al-Ahd Al Jadeed Co.	2012	Mohamed Shawqy Al Ayub School
157	Kuwait Swedish Company	2012	English Academy –Hawally- MOE
158	Al Enmaa Real Estate (ERESCO)	2012	IBN Sena Hospital-MOH
159	Al Kopra Company	2012	Al Andalus Elementary School, Al Fairoz School, Al Fajr Kinder Garten, Multi-Purpose Gymnasium.- MOE
160	Mohahal Al Nisf Co.	2012	Sheikh Mubarak Al Abdullah Al Jaber Al Sabah Dialysis Center Mubarak Al Kabeer Hospital
161	Al Magwa Company	2012	Salmiya Dental Clinic-MOH
162	Al Muhalab Gen. Trad. & Cont. Co,	2012	Jaber Al-Ahmed City Houses (366 Nos)- PAHW
163	Sahara Air Conditioning Company	2012	Effluent Water Injection Phase-1 and Sea Water Injection Phase-2, Contract #45654
164	Bader Al-Mulla & Bros. Co.	2012	Construction of North Kuwait Office Complex
165	Bader Al Mulla & Brothers Company W.L.L.	2012	Social Security Building at Ardiya (PIFFS)
166	Bader Al Mulla & Brothers	2012	Administration, Educational, And Students Services Buildings-Shuwaikh Campus (PAAET)
167	GFS Gen.Trad.& Cont.Co.	2012	Amiri Guard Camp at Mushref (MOD)



SAHARA Project Reference List (General)

Sr. No.	Customer	Year	Project
168	Al-Ahlia Electro-Mechanical Company	2012	Speciality Eye Center At Al-Shaab
169	Shabib Al-Ajmi	2011	25th & 26th Tower
170	Shabib Al-Ajmi	2011	Ruba Residential Complex
171	Ahmed Nassah	2011	Mulla Behbehani Building
172	Essa Hussain Al Yousifi	2011	Judicial & Legal Studies
173	Prime One Group of Company	2011	City Center Al-Dajeej
174	Shell Petrofac	2011	Early Production Facilities Project Shouthern Iraq.
175	Drake & Scull International	2011	Social Security Building at Ahmadi (PIFFS)
176	Drake & Scull International	2011	Shiekh Saad Al-abdullah Al-Salem Al-Sabah
177	Drake & Scull International	2011	British Industries Printing Press Plot 203 Subhan, kuwait.
178	M.D.&Tech Gen.Trad.& Cont.Co.	2011	Mahaboula Building
179	M.D.&Tech Gen.Trad.& Cont.Co.	2011	Sulaibikhat School (MOE)
180	ABJ Engineering & Contracting Co. ksc (Closed)	2011	MEW- Anual Maint.of Doha Sub-Station
181	Bader Al Mulla & Brothers Company W.L.L.	2011	Social Security Building at Ardiya (PIFFS)
182	Kuwait Building Center	2011	Mahabula Towers
183	Nusaiba Electrical Materials Trad.& Cont.Est.	2011	Ali Ebn Abu Taleb School (MOE)
184	M.D.&Tech Gen.Trad.& Cont.Co.	2011	Hunaini Kinder Garten School Farwaniya (MOE)
185	Yusaf Ahmed Alghanim & Sons	2011	Sheikh Ali Abdullah Al-Sabah Villa
186	Ali Alghanim & Sons Co.	2011	Al Emam Al Shafea School (MOE)
187	Gulf Engineering Company KSCC	2011	New Headquarter for National Mobile Telecommunication Co.(Wataniya Telecom)
188	Drake & Scull International	2010	PAAET- Nursing Institute Shuwaikh Campus
189	Bader Al Mulla & Brothers Company W.L.L.	2010	Eshbleeya Neighbourhood Center
190	Shabib Al Ajmi Est.	2010	Fintas Mall Block-3
191	KCC Engineering & Contracting Co.	2010	Adan Hospital



SAHARA Project Reference List (General)

Sr. No.	Customer	Year	Project
192	Arab Center For Commerce & Real Estate W.L.L.	2010	State Mosque
193	Gulf Engineering Company KSCC	2010	Man Power Headquarter Building
194	Bader Al Mulla & Brothers Company W.L.L.	2010	Wafra Commercial Mall
195	Faddan Gen.Trad.& Cont.Co.	2010	Women Affair Building At Salmiya
196	Kharafi National W.L.L.	2009	Kharafi Villa Substation
197	Shabib Al-ajmi Est.For Trad.& Cont.	2009	Wataniya Airways HQ @ Farwaniya
198	Al Sager Company	2009	Kiffan Co-operative Society
199	Kharafi National W.L.L.	2008	Amiri Terminal Building-kia
200	Yusaf Ahmed Alghanim & Sons	2008	Ghanima Ahmed Alghanim Center for Premature & Genitics
201	Faddan Gen.Trad.&Cont.Co.	2008	Saad Abdullah City,block-10
202	BLK Company	2008	MFD New Building-Salmiya (KESSAR)
203	Ghassan Ahmed Al Khaled Co.	2008	NHA Schools
204	Al Hani Construction & Trad. Co.	2008	TV. Station
205	Kharafi National W.L.L.	2008	Amiri Dewan Garage 9 & 10 @ Bayan Palace (Project#1353)
206	Kharafi National W.L.L.	2008	Large Scale Plot Steam Flood
207	Al Magwa Company	2008	Mubarak Hospital
208	Al Argan Int.Real Est. Co.	2008	Fintas Complex
209	Duniya International	2008	KOC- X Man Office
210	Kharafi National W.L.L.	2008	Kharafi Villa @ Bidda (Project #1258)
211	Tamdeen Real Estate Co.	2008	360 Degree Complex
212	Drake & Scull International	2009	Cermic Tiles Factory
213	Kazema Engineering Projects W.L.L	2008	Central Sterilization Building @ Sabah Hospital
214	Mega Tech.	2008	The Avenues Magic Planet
215	Kharafi National W.L.L	2008	Amiri Terminal Building-KIA



SAHARA Project Reference List (General)

Sr. No.	Customer	Year	Project
216	A.H. Al Sagar & Bros.	2008	Intermediate School Girls (1999) & Kinder Garten (2005) Switchgear
217	Bronzia Project Gen. Trad. & Cont. Company	2009	Houses Type (A,B,C,D,F) @ Al Sadd Abdullah City, Block-8 (8 PSHW/1113)
218	American Army	2010	American Army Camp Bucca, Iraq
219	Brozia Project Gen. Trad. & Cont. Company	2009	National Housing Authority
220	Canar Trading & Cont.Company	2009	Houses Type (A,B,C,D,F) @ Saad Abdullah City,Block-8 (PSHW/1111)
221	Canar Trading & Cont.Company	2009	Houses Type (A,B,C,D,F) @ Saad Abdullah City,Block-8 (PSHW/1112)
222	Nets Co	2007	KGL Bus Terminal-Shuwaikh
223	Kharafi National	2007	Construction Of Amiri Diwan Villa
224	Faddan Co	2006	NHA Doha Schools
225	Faddan Co	2007	AL Enizi Tower
226	Al Argan Int.Real Est. Co.	2007	Office Building At Freezone
227	Drake & Scull International	2007	(PAAET) Special Training Center Shuwaikh New Campus Projects
228	Bader Mohamed A.Al Mailam	2007	NHA West Jaleeb School
229	Muhallab Gen.Trd & Cont Co	2007	Saad Al Abdullah City Houses
230	Al-bab Al-kuwati	2007	Amiry Guard Camp At Mishrif
231	Mega Tech	2007	International Clinic At Farwaniya, Mangaf,jahra
232	Al-Ahlia Electro-Mechanical Group	2006	Asturalian College
233	Mohlhal Al-nisif & Sons Co	2006	Al-Dajeej Project # 47
234	Mushrif Gen.Trd & Cont Co	2006	Saad Al-Abdullah Schools
235	Al-Bab Al-Kuwati	2006	National Tennis Complrx
236	AL Argan	2006	Fintas Complex



SAHARA Project Reference List (Oil Sector)

Sr. No.	Customer	Client	Year	Project
1	Heavy Engineering Company (Heisco)	Kuwait National Petroleum Co (KNPC)	2022	Switchboards & Power Distribution Boards for Boiler Revamp-KNPC
2	Turky Al-Dabbous	KIPIC	2021	AL-ZOUR REFINERY - Maintenance Projects
3	Turky Al-Dabbous	Kuwait Oil Company (KOC)	2021	ASPHALTING
4	LARSEN & TOUBRO LTD.	Kuwait Oil Company (KOC)	2020	NEW STRATEGIC GAS EXPORT PIPELINE FROM NORTH KUWAIT TO MAA
5	Al-Kulaib International	Kuwait National Petroleum Co (KNPC)	2020	POWER SUPPLY TO PERMANENT FACILITIES AT UTILITY AREA
6	Hot Engineering	Kuwait Oil Company (KOC)	2020	MOI BUILDING
7	Turky Al-Dabbous	KIPIC	2020	AL-ZOUR REFINERY - Maintenance Projects
8	Fulf System	Kuwait National Petroleum Co (KNPC)	2019	PETROL FILLING STATION AT SABAH AL AHMED CITY
9	Gulf Group	Kuwait Oil Company (KOC)	2019	CONSTRUCTION OF NEW AREA SUBSTATION AND UPGRADATION OF EXISTING SUBSTATIONS IN WEST KUWAIT AREA
10	Gulf Group	Kuwait Oil Company (KOC)	2018	NEW AREA S-S & UPGRADATION OF EXISTING S-SAT
11	Gulf Group	Kuwait Oil Company (KOC)	2018	BRINE PUMPING FACILITY AT SULAIBIYA
12	Turky Al-Dabbous	Kuwait Oil Company (KOC)	2018	CENTRAL KITCHEN & AUDITORIUM
13	NRP	Kuwait National Petroleum Co (KNPC)	2018	AL-ZOUR REFINERY RFQ-3289-MOB-RQAL-PDP
14	Wataniya Co.	Kuwait National Petroleum Co (KNPC)	2018	19 Nos. New KNPC Petrol Filling Stations
15	Wataniya Co.	Kuwait National Petroleum Co (KNPC)	2018	ALFA FUEL STATION 05 AL MANSOURIYA
16	Al Ghanim International	Kuwait Oil Company (KOC)	2017	IT Group Center Starter Panel
17	GafSCO	Kuwait Oil Company (KOC)	2017	Heavy Oil Treatment Plant
18	Easa Hussain Al-Yousifi & Sons.	Kuwait Oil Company (KOC)	2017	Firemen Control Panel
19	Hot Engineering Company	Kuwait Oil Company (KOC)	2016	KOC Oil Containment and Detection From NTF to North Pier-Kuwait
20	Petrofac International Limited	Kuwait Oil Company (KOC)	2016	Lower Fars Heavy Oil Development Program , Phase-I
21	Dodsai Engineering	Kuwait Oil Company (KOC)	2016	New Gathering Center GC-31 in North Kuwait
22	Al Khulaib International	Kuwait Oil company (KOC)	2016	Construction of New Offices @ All Magwa Complex
23	Punj Lloyd	Kuwait National Petroleum Co.(KNPC)	2016	Expansion and Revamping of Ahmadi Depot (KNPC)
24	Conco (Consolidated Contractors Int'l Company	Kuwait Oil Company (KOC)	2016	Lower Fars Heavy Oil Development Program , Phase-I
25	Larsen and Toubro Limited	Kuwait Oil Company (KOC)	2016	New Gathering Center GC-31 in North Kuwait
26	Gulf Spic Gen. Trad. & Const. Co.	Kuwait Oil Company (KOC)	2015	Construction of New IT Group Center –KOC
27	Al Yousifi Engineering & Construction Co.	Kuwait National Petroleum Co.(KNPC)	2015	PMT-PMC Building (KNPC)



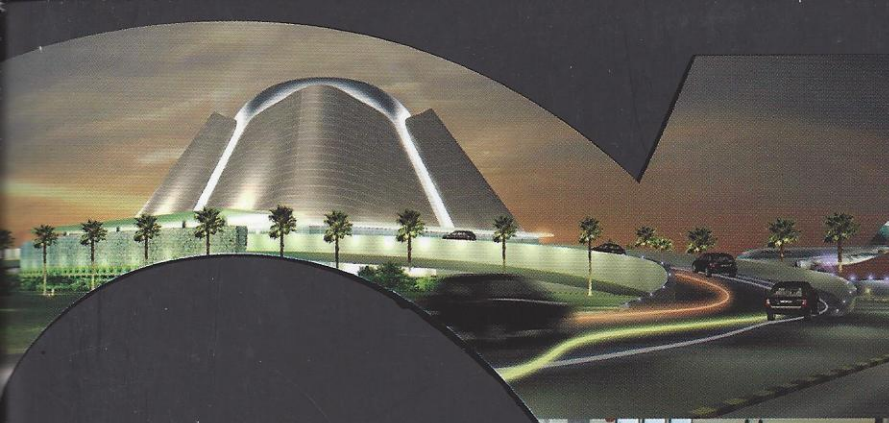
SAHARA Project Reference List (Oil Sector)

Sr. No.	Customer	Client	Year	Project
28	Kuwait National Petroleum Co. (KNPC)	Kuwait National Petroleum Co. (KNPC)	2015	L.M Sabhan Central Depot, S/S #25
29	Sahara Air Conditioning Company	Petrofac-KOC	2014	Effluent Water Injection Phase-1 and Sea Water Injection Phase-2, Contract No- 45654
30	Bader Al Mulla & Bros. Co. W.L.L	Kuwait Oil Company (KOC)	2014	Construction of North Kuwait Office Complex
31	Combined Group Gen.Trad. & Cont. Co.	Kuwait Oil Company (KOC)	2013	Burgan Office Complex
32	Bader Al Mulla & Bros. Co. W.L.L	Kuwait Oil Company (KOC)	2013	Jaber Al Ahmed Oil & Gas Exhibition-KOC, Ahmadi
33	Al Dunia International	Kuwait Oil Company (KOC)	2013	KOC New General Practitioners Building -Ahmadi
34	Al Magwa Eng. & Cont. Company W.L.L	Kuwait Oil Company (KOC)	2013	Construction of Burgan Office Complex Phase -2
35	Al Khorayef Group Company	Kuwait Oil Company (KOC)	2013	New GC-16 in West Kuwait -KOC
36	Sahara Air Conditioning Co.	Kuwait Oil Company (KOC)	2013	Flow Tech Project -KOC
37	Al Magwa Eng. & Cont. Company W.L.L	Kuwait Oil Company (KOC)	2013	Construction of Burgan Office Complex Phase -2
38	Al Khorayef Group Company	Kuwait Oil Company (KOC)	2013	New GC-16 in West Kuwait -KOC



SAHARA PRODUCT CATALOGUE





SAHARA

SAHARA

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SAHARA

SAHARA

SAHARA

1)	COMPANY PROFILE	2 - 4
2)	OEM PARTNER & AGENCIES	5 - 9
3)	PRODUCT TECHNICAL SPECIFICATIONS	10 - 37
4)	MINISTRY APPROVAL	38 - 40



1. COMPANY PROFILE:

SAHARA is engaged in the Designing, Manufacturing and Supplying of Low Voltage Switchgear panel as well as Cable Trays, INOTEC emergency lighting system in Kuwait. SAHARA founded in the year 2003 and is already actively participating in the industry revolution in Kuwait. SAHARA is established and managed by a group of successful and experienced engineers; the factory is equipped with computerized machines to ensure best quality of products.

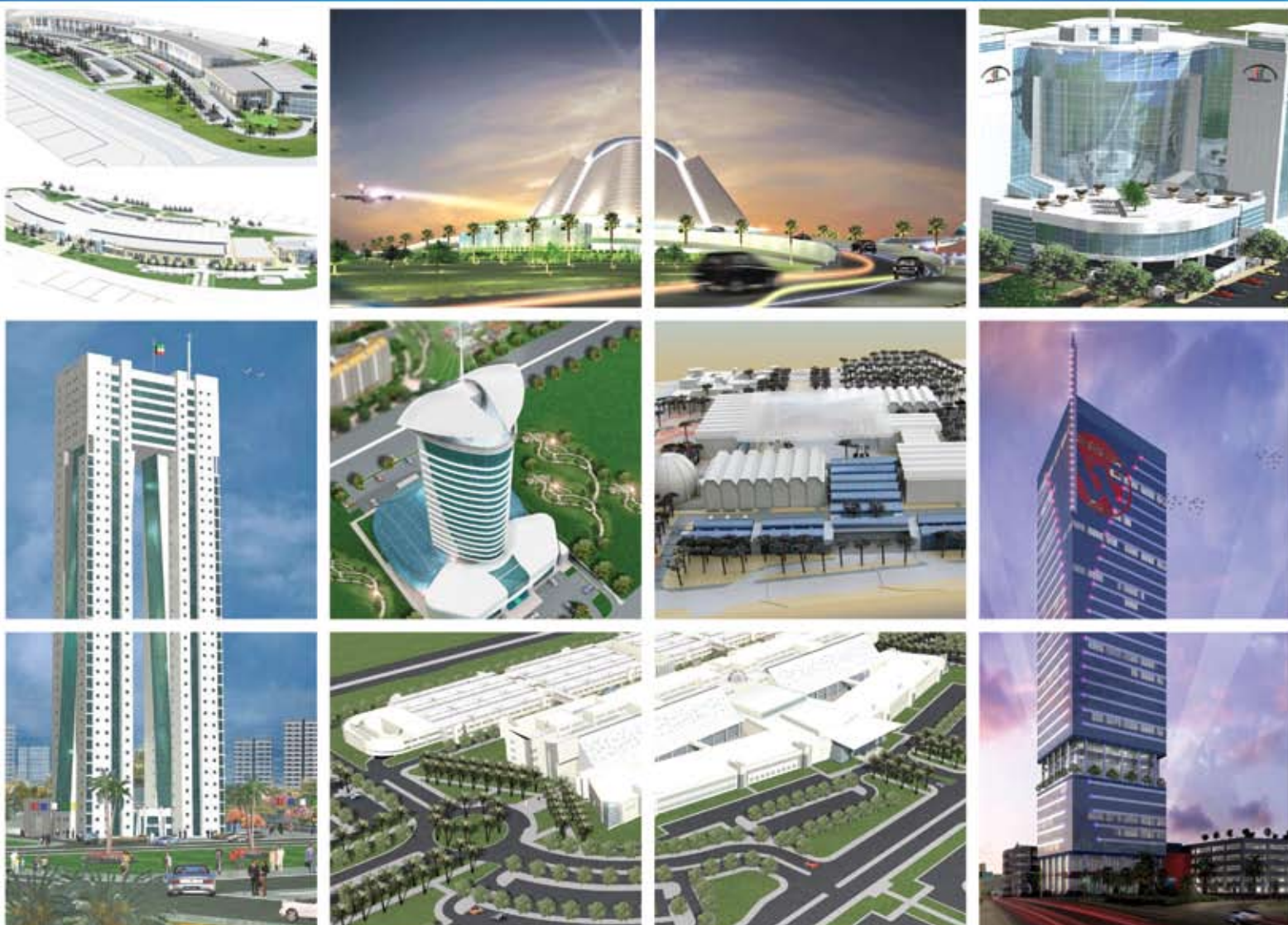
As a Local manufacturer, SAHARA takes into consideration of any special requirements by our customers, SAHARA always consider Kuwait ministry of Energy specifications and other related local and international standards.

SAHARA's policy is to perform commitments and obligations to insure customer's satisfaction and hence, SAHARA is well known in the local market for its uncompromising focus on Quality, Service and Technical Excellence. Our customers are partners for the success of our business.

SAHARA's continuous Development program has evolved into a complete range of Fully Tested Switchgear products to cover a wide range of Low Voltage applications.

The products have been rigorously tested by ASTA & KEMA, an Independent Testing Agency to ensure total compliance to International Standard IEC60439-1 & Sahara is the first low voltage switchgear manufacturing company in Kuwait who successfully completed Total Type Test of Fixed as well as Draw out Low Voltage Switchgear & Control gear assembly complying to the latest International Standard IEC 61439-2 : 2009. Verification of Temperature rise conducted at 55°C ambient Temperature to meet stringent weather conditions prevailing in Kuwait, thus guaranteeing product design suitable for local regulations & requirements.

SAHARA is currently the only KEMA-KEUR certified Low Voltage Switchgear Factory in Kuwait. As per KEMA-KEUR agreement SAHARA factory is regularly Inspected by KEMA, Thus guaranteeing final product quality & compliance to International Standards. SAHARA approved in all the Ministry & local consultant in Kuwait.



a. Sales Department:

The principle of being partner to our customers is obligation, sales staffs have been trained to study customer's requirements and coordinate technically and commercially to insure the compliance and compatibility of product to customer's requirement and site conditions, within customer's budget.

b. Design Department:

In charge of preparing technical submittals, compliance statements against customer's specifications, catalogue copies of the offered component, offer drawings showing switchboard dimensions, component layout, and technical specifications of switchboards. Fully computerized designing department with latest software for design development & material control.

c. Production Department:

SAHARA'S production factory is equipped with latest machines and systems with a production engineer who is in-charge of all production works, in accordance with the "approved" design drawings by the customer and skillful production staff to produce final finished products. SAHARA's production factory manufacture/assemble the following range of products within the facility.

1. 'TABULA' The Absolute Switchboard System
2. Main low tension panel – (MLTP)
3. Motor Control centers – (MCC)
4. Automatic transfer switch – (ATS)
5. Main switchboards – (MSB)
6. Service Cabinets for Ministry of energy
7. Sub main switchboard – (SMSB)
8. Street Lighting feeder pillars – (F.P.)
9. Final Distribution Boards – (D.B)
10. Final consumer Units – (C.U.)
11. Motor starter
12. Street lighting cutouts
13. Telephone boxes
14. A/C boxes
15. Manual changeover switches for indoor and outdoor use
16. Switch fuses for indoor and outdoor use
17. Cable trays
18. Under floor trunking
19. Capacitor Bank (EATON / I-CAR)



We have the following machines & systems to carry out our production works successfully:

- CNC Punching Machine
- Hydraulic Press Brake – 100 Ton.
- Hydraulic Press Brake – 25 Ton.
- CNC Press Break # x 100 – 3200-H4. NCP (2 Nos.)
- CNC Spreading Machine
- Hydraulic Swing Beam Shear – 8mm
- Spot Welding Machines
- Electrical Welding Machines
- Heat Shrink Machines
- Grinders
- Powder Coating System
- Stud Welding Machines
- Hand Tools
- Hydraulic Press Break 16 Ton.
- Hydraulic Puncher
- Multi Punch Press
- Torque Wrench (8 to 54 Nm)
- Torque Wrench (40 to 200 Nm)
- Torque Wrench (60 to 330 Nm)

d. Quality Control (QC) Department:

QC check after every manufacturing process, to make sure the quality of workmanship is up to the acceptable level of our company's policy. Final checking of finished products prior to delivery is one of our quality control procedures, Quality Control routine tests are carried out on every finished product as per IEC-60439-1.

2 years warranty from date of delivery to site is standard for all our products.

We have the following test equipments for quality control testing purpose:

- AC / DC High Pot Tester (Megger)
- Primary Injector
- Insulation Resistance Meter
- Infrared Heat Detecting Scanner
- Digital Multi Tester
- Telecommunications Networks (Access)
- Enterprise Data Networks
- Residential Cabling
- Functional Testing Kit (Eaton Cutler Hammer)
- Digital Low Resistance Ohmmeter (Megger - DLRO 10x)
- High Voltage Insulation Tester (Digital) (Megger)
- Power Quality Analyzer (Fluke-453)
- Clamp meter with I-Flex (Fluke-376)
- Clamp Meter (Fluke-375)



2. OEM PARTNER:



3. AGENCIES:





INOTEC

Sicherheitstechnik



INOTEC Sicherheitstechnik GmbH, the company specialized in Emergency Lighting with their manufacturing facility in Ense, Germany, has been operating in the Middle-East for over 5 years. Within this time period, Inotec utilized its knowledge and expertise to deal with various Emergency lighting design, supply, testing & commissioning on several prestigious projects around the Middle-East.

- ❑ **220V- Central Battery System** with fully automatic function monitoring including individual lamp and circuit failure detection without additional data line.
- ❑ **Patented “Joker Technology”** function for mixed operation of maintained, non-maintained and switched luminaires on one line



- ❑ **Dynamic Escape Routing system** to evacuate people in the safest way in case of fire.



- ❑ **Compact 24V panels** exclusively for LED emergency lights.



- ❑ **230V, 24V, DER outputs from a single panel.**
- ❑ **Battery management system** to monitor the health of individual battery blocks.
- ❑ **Declared the company with the most innovative products in Germany in the field of emergency safety systems.**



BECKHOFF

New Automation Technology

Beckhoff, Germany represents universal and open control and automation solutions that are used world wide in a wide variety of different applications, ranging from CNC controlled machine tools to intelligent building automation.

The idea of “green building” based on sustainable, energy-efficient construction and building use can be realised with intelligent, integral building automation. Beckhoff offers a universal, scalable building automation control system covering PC and Ethernet –based controllers and a modular I/O system for logging all data points in buildings.

❑ Bus Terminals for:

- Bus Coupler (Open Protocol)
- Digital/Analog I/Os
- Position measurement
- Pressure measurement
- Direct Ohmic load
- Dimmer terminals
- Electronic devices
- Control of control valves etc.



❑ Industrial PCs

- Built-in / Slide-in IPC
- Control Cabinet
- Panel PC
- Embedded PC
- Motherboards

❑ Intelligent Building Control

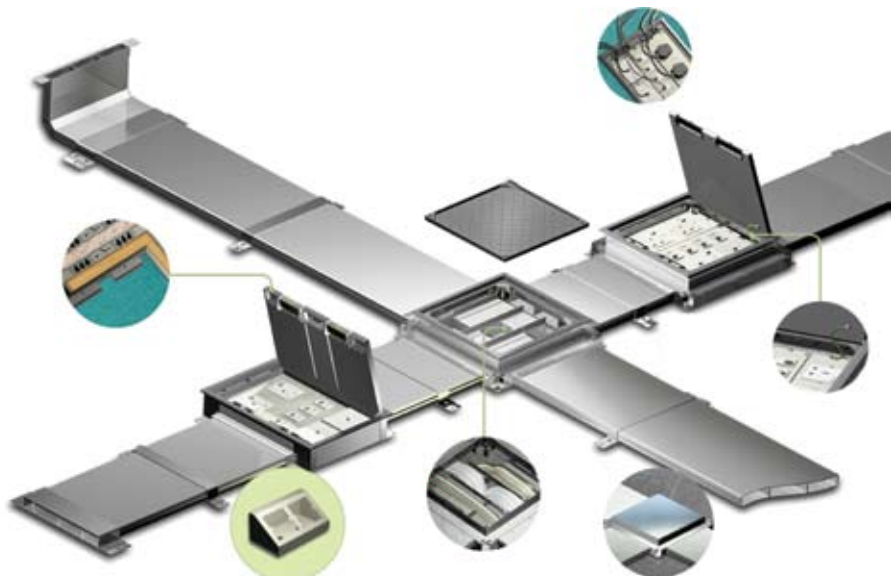
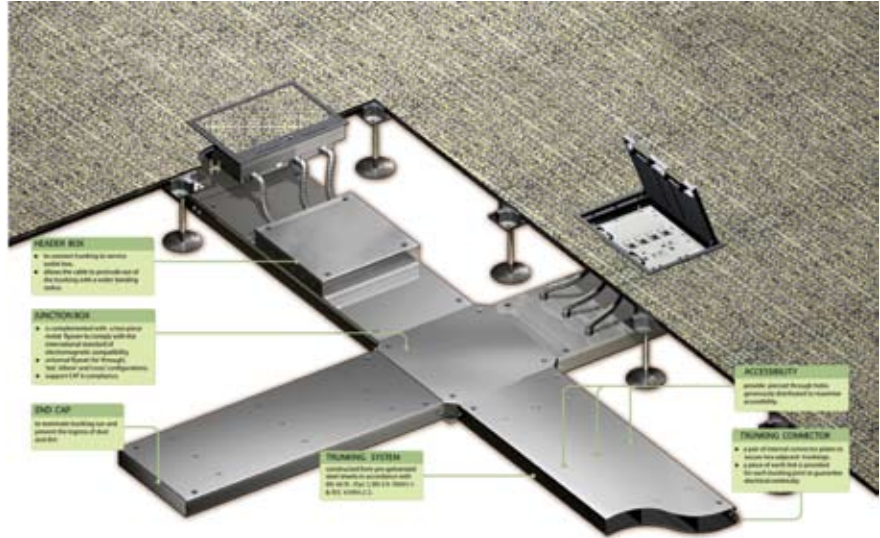
- Lighting Control
- HVAC
- Room automation
- Façade



- Home automation
- Remote maintenance
- Energy data acquisition & logging
- Operating & monitoring
- saving potential and synergy effects

❑ Twin CAT, the universal automation software platform

- Module Flush floor Turunking System
- Raised Floor Turunking System
- Underfloor Turunking System
- Accessories





- Zink-passivated metallic enclosure painted with epossidic dust paint, colour RAL 7035.
- Auxiliary transformer to separate power and auxiliary circuit parts (110V).
- Load-break switch with door interlock.
- Contactors.
- N07V-K self-extinguish cable according to CEI 20/22/II standards.
- Microprocessor Power Factor Correction relay
- Control and protection multimeter MCP4 (on MULTImatic cabinets only)
- Single phase self-healing metallized polypropylene capacitors with UN= 550V rated voltage.

All components inside this products are compliant with EU Safety Regulations.

TECHNICAL CHARACTERISTICS

Rated operational voltage	Ue= 400V-415V
Rated frequency	50Hz
Max current overload I_n (cabinet)	1.3xI _n
Max voltage overload V_n (cabinet)	1.1xV _n
Max voltage overload V_n (capacitors)	3xV _n
Insulating voltage	690Vac
Temperature range (cabinet)	-5/+40°C
Temperature range (capacitors)	-25/+55°C

ICAR Capcitor Bank approved by MEW.

FH20 Mini & Multimatic PFC range from 11KVAR to 1027KVAR, 415V AC, 50Hz.

Powering Business Worldwide

Capacitor Bank features:

Dry long life low dielectric loss.

Metallised polypropylene windings encapsulated in epoxy resin and mounted within a sheet steel case.

Fitted with an internal fuse.

Self-healing– internal faults vaporize the metallisation.

Low losses – less than 0.5 W/kvar.

Environmentally friendly, non-toxic and non-flammable.

Complete with discharge resistors.



CUBICLE SPECIFICATIONS

Manufacturing standards:	IEC 61439-2, IEC 60439-1
Voltage Range:	Standard voltage 415V, 3 Ph, 50 Hz. Other voltages on request.
Frequency range:	50Hz (60Hz rating on request)
Cable Chamber and Customer Cable Entry Arrangements:	Undrilled detachable gland plate. Top or bottom entry as required.
Cubic Material:	2mm mild steel painted light grey - RAL7004 (other colours on request)
Earthing:	Internal earth bar linked to framework.
Fixing:	Floor fixing by means of 4 x 16mm diameter holes per cubicle.
Protection:	IP31 indoor, (IP42 on request - Derating may be required)
Ambient Temperature:	-25°C + 40°C.
Variation to above specifications available on request.	

EATON Capcitor Bank approved by MEW.

FH20 Mini & Multimatic PFC range from 100KVAR to 600KVAR, 415V AC, 50Hz.



*Main Low
Tension Panel*

Standard Compliance to

- MEW Regulation R1 & S1
- IEC 60439-1 Panel Construction
- BS 159 Busbars / Connections
- IEC 947 – 2 Circuit Breakers
- BS 88 / IEC Fuses
- BS 142 / IEC Protective Relays
- BS 3938 / IEC 185 Current Transformers
- IEC 51 / BS 89 Metering and other relevant standards

1. *Distribution System* : 3Ph & N System 415/240V AC, 50Hz (440/254 VAC, 50Hz)

2. *Fault Level Rating* : 50KA / 65KA / 80KA / 100KA

3. *Busbars* : Electrolytic Tinned copper with 99.9% purity.

- Capacity : Color marked for Phase Identification
: R, Y & B: 1600A / 2000A / 2500A / 3200A / 4000A / 5500A
N: 50% or 100% of phase busbar
E: 50% of phase busbar
- Supports : Moulded DMC fiber glass Insulating supports
with high resistance & Reduced flammability
Working Temp - 160°C
Working Voltage – 660V

4. *Enclosure:*

- Construction : Fixed, Cellular, Form 3b segregation up to Form 4b
Totally Enclosed, Front and Rear Accessible.
- Material : Steel Sheet
- Treatment : Electro Galvanized / Zinc Coated.
- Guage : 2mm
- Painting : Powder Coating matt Polyster, RAL 7032
- IP Protection : IP 52 for Indoor Installation
IP 54 Outdoor Installations

5. *Assembly:*

- Materials used are capable of withstanding the mechanical, electrical, and thermal stresses as well as the effect of humidity which are likely encountered in normal service.

- ➔ Type tested Mail Low Tension Panel for all applications.
- ➔ A system designed to provide a high level of reliability and safety, thus reinforcing the protection of life and property.
- ➔ A modular multi-function system for Low-Voltage switchboards.
- ➔ Designed to meet international standards, notable IEC 60439-1, 61439-2 latest IEC (Tabula), IEC60529 & IEC 60947
- ➔ Compliance with local standards, thus meeting local & international requirements.
- ➔ Integration of standardized components shortens delivery & installation time.
- ➔ Limited maintenance cost due to standardization & system upgradeability.



SAHARA TYPE TESTED LOCAL ASSEMBLIES

- ➔ Following rigorous and continuous type testing, MLTP conforms to all the regulations of major markets throughout the country.
- ➔ The following type tests have been successfully carried out at independent test laboratories as per IEC 60439-1.
 - Verification of temperature rise,
 - Verification of dielectric properties.
 - Verification of short-circuit withstand strength.
 - Verification of the effectiveness of the protective circuits.
 - Verification of clearance and creepage distance.
 - Verification of mechanical operations.
 - Verification of Degree of protection - IP52.

SAHARA TABULA TYPE TESTED ASSEMBLIES

- ➔ Following rigorous and continuous type testing, MLTP conforms to all the regulations of major markets throughout the country.
- ➔ The following type tests have been successfully carried out at independent test laboratories as per IEC 61439-2.

- Clause 10.2 Strength of materials and parts
- Clause 10.2.3 Properties of insulation materials
- Clause 10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects
- Clause 10.3 Degree of protection of enclosures (IP 54)
- Clause 10.4 Clearances and creepage distances
- Clause 10.5 Protection against electric shock and integrity of protective circuits
- Clause 10.6 Incorporation of switching devices and components
- Clause 10.7 Internal electrical circuits and connections
- Clause 10.8 Terminals for external conductors
- Clause 10.9 Dielectric properties
- Clause 10.10 Temperature rise (55°C ambient)
- Clause 10.11 Short-circuit withstand strength
- Clause 10.12 Electromagnetic compatibility
- Clause 10.13 Mechanical operation

Tabula



INDUSTRY WIDE APPLICATIONS

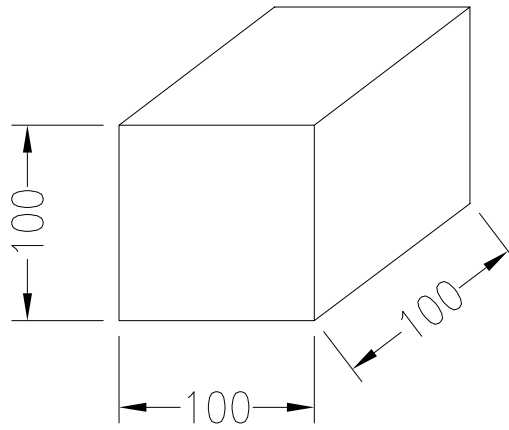
Choosing different products for various applications and studying the technical specifications of each projects requires extra effort and time. Choosing one product to cover most applications increases efficiency, uniformity and high performance cost-effective solutions.



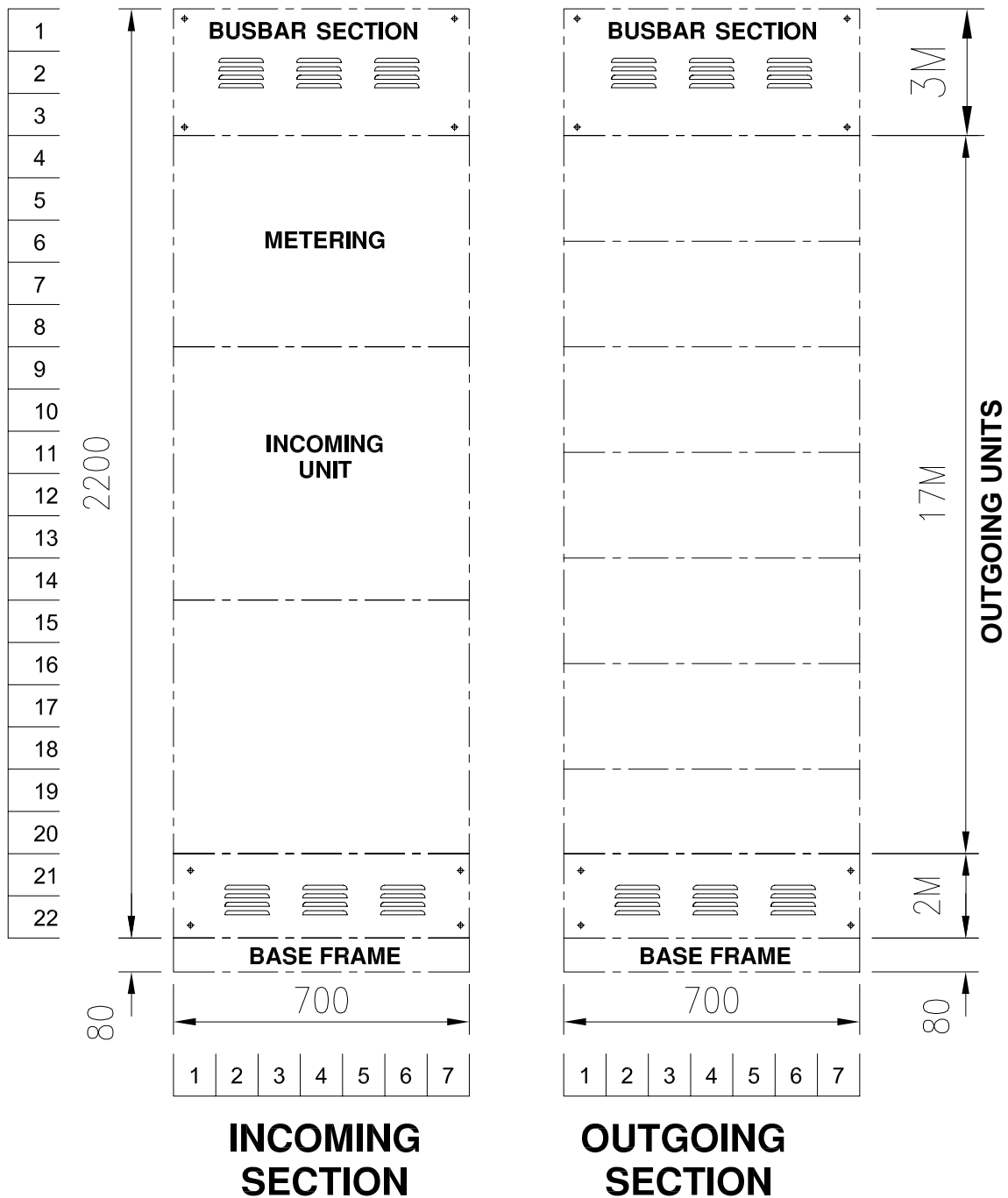
DESCRIPTION & CHARACTERISTICS

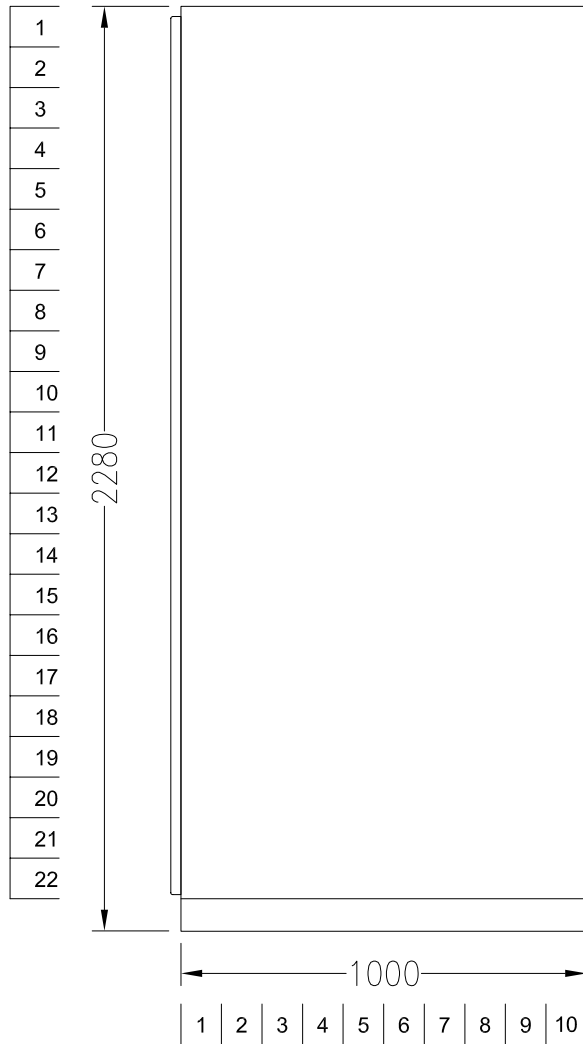
BASIC FRAME

Product safety and personal safety are of prime importance. This is the area in which SAHARA excels in making the structure from heavy gauge electrogalvanized steel sheet, pre-punched on CNC machines and powder coated (RAL 7032) avoiding rusting due to corrosion. The basic frame is an assembly of pre-fabricated elements. These elements are assembled to form sections with different volumes. The base frame is an integral part of the structure. Exposed conductive parts are zincbichromated (yellow passivated) or tinned maintaining earth continuity.



1 MODULE = 100 mm.





SIDE VIEW

DESCRIPTION	RATING	MODULES
INCOMING UNIT	800A - 2000A	7 (Width)
	2500A - 3200A	8 (Width)
OUTGOING UNIT	16A - 250A	2 (Height)
	275A - 630A	2.5 (Height)

NOTES

- 1- Outgoing one vertical section of 17 modules (1700 mm)
- 2- MLTB height standard 22 modules (2200 mm) plus 80 mm base
- 3- Busbar section standard 3 modules (300 mm)
- 4- Bottom space for outgoing section 2 modules (200 mm)
- 5- Standard width for incoming unit with bus coupler 8 modules (800 mm)
- 6- Above 630A separate 500 mm vertical section
- 7- Sizes other than mentioned above available on request and to be co-ordinated with Sahara Design Department.
- 8- Outgoing units MCCB as standard, switchfuse also can be provide upon request.



Motor Control Centers

Standard Compliance to

- MEW Regulation R1 & S1
- IEC 60439-1 Panel Construction
- BS 159 Busbars / Connections
- IEC 947 – 2 Circuit Breakers
- BS 88 / IEC Fuses
- BS 142 / IEC Protective Relays
- BS 3938 / IEC 185 Current Transformers
- IEC 51 / BS 89 Metering and other relevant standards

1. *Distribution System* : 3Ph & N System 415/240V AC, 50Hz (440/254 VAC, 50Hz)

2. *Fault Level Rating* : 50KA / 65KA / 80KA / 100KA

3. *Busbars* : Electrolytic Tinned copper with 99.9% purity.

Color marked for Phase Identification

- Capacity : R, Y & B: Up to 3200A
N: 50% or 100% of phase busbar
E: 50% of phase busbar
- Supports : Moulded DMC fiber glass Insulating supports with high resistance & Reduced flammability
Working Temp - 160°C
Working Voltage – 660V

4. *Enclosure:*

- Construction : Fixed or withdrawable feeder compartment, Cellular, Form 3b segregation & up to Form 4b. Totally Enclosed, Front and Rear Accessible.
- Starter : Fixed or fully withdrawable starter up to 250KW
4 Position Padlockable trolleys (service/test/disconnected/removed)
- Material : Steel Sheet
- Treatment : Electro Galvanized / Zinc Coated.
- Guage : 2mm
- Painting : Powder Coating matt Polyester, RAL 7032
- IP Protection : IP 52 for Indoor Installation
IP 54 /55 Outdoor Installations.

5. *Assembly:*

- Materials used are capable of withstanding the mechanical, electrical, and thermal stresses as well as the effect of humidity which are likely encountered in normal service.



Automatic Transfer Switches

Automatic Transfer Switches

Standard Compliance to

- MEW Regulations R1
 - IEC 439 / BS 5486
 - BS 159
 - IEC 947 – 2
 - BS 88 / IEC
 - BS 142 / IEC
 - BS 3938 / IEC 185
 - IEC 51 / BS 89
- Panel Construction
Busbars / Connections
Circuit Breakers
Fuses
Protective Relays
Current Transformers
Metering and other relevant standards

1. *Distribution System* : 3Ph & N System 415/240V, 50HZ

2. *Fault Level Rating* : Up to 65KA

3. *Busbars* : Electrolytic Tinned copper with 99.9% purity.

Color marked for Phase Identification

- Capacity : R, Y & B: Up to 3200A
N: 50% or 100% of phase busbar
E: 50% of phase busbar
- Supports : Moulded DMC fiber glass Insulating supports with high resistance & Reduced flammability
Working Temp - 160°C
Working Voltage – 660V

4. *Enclosure:*

- Construction : Fixed or withdrawable feeder compartment
- Material : Steel Sheet
- Treatment : Electro Galvanized / Zinc Coated.
- Guage : 2mm
- Painting : Powder Coating matt Polyester, RAL 7032
- IP Protection : IP 52 for Indoor Installation
IP 54 /55 Outdoor Installations.

AUTOMATIC TRANSFER SWITCH As per MEW-S1 Requirement With Double Bypass Isolation.

TYPES	RANGE	DIMENSIONS			FAULT LEVEL RATING (kA)
		Height	Width	Depth	
CONTACTOR	UP TO 200A	1650	1000	325	25
MCCB	UP TO 200A	1650	1000	325	40
MCCB	250A TO 550A	2280	1050	850	40
ACB	600A TO 3200A	2280	1650	1050	65

Other than above listed ATS's can be manufacturer upon request & project requirements. Addition to above list SAHARA also supplied UL-1008 listed EATON, ZENITH, ASCO & SOCOMEC ATS's From USA & France.



*Main and
Submain Switchboard*

Standard Compliance to

- MEW Regulations R1
- IEC 439 / BS 5486 Panel Construction
- BS 159 Busbars / Connections
- IEC 947 – 2 Circuit Breakers
- BS 88 / IEC Fuses
- BS 142 / IEC Protective Relays
- BS 3938 / IEC 185 Current Transformers
- IEC 51 / BS 89 Metering and other relevant standards

1. *Distribution System* : 3Ph & N System 415/240V, 50HZ

2. *Fault Level Rating* : 15KA / 25KA / 35KA / 50KA

3. *Busbars* : Electrolytic Tinned copper with 99.9% purity.

Color marked for Phase Identification

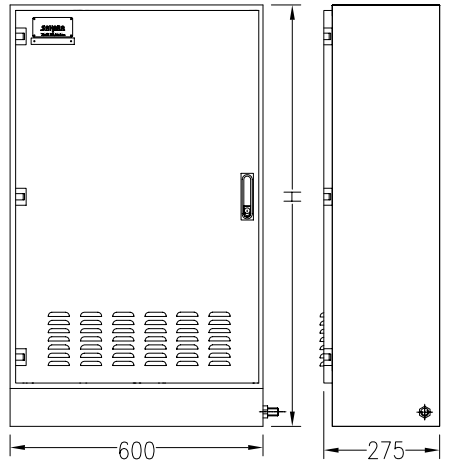
- Capacity : RYB & N upto 630A
(800A & above available on request)
E: 50% of phase busbar
- Supports : Moulded DMC fiber glass Insulating supports
with high resistance & Reduced flammability
Working Temp - 160°C
Working Voltage – 660V

4. *Enclosure:*

- Construction : Box / Cubicle, Non Cellular, Totally
Enclosed, Front Accessible.
- Material : Steel Sheet
- Treatment : Electro Galvanized / Zinc Coated.
- Guage : 1.5mm / 2.0mm
- Painting : Powder Coating matt Polyester, RAL 7032
- IP Protection : IP 52 for Indoor Installation
IP 54 Outdoor Installations

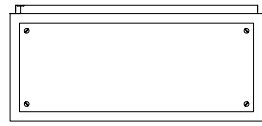
5. *Assembly:*

- Materials used are capable of withstanding the mechanical, electrical, and thermal stresses as well as the effect of humidity which are likely encountered in normal service.



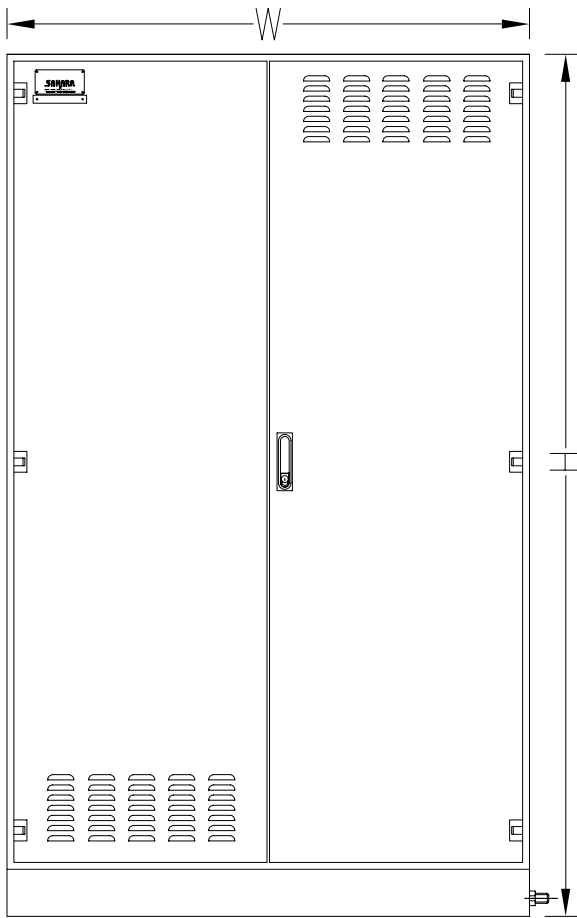
FRONT VIEW

SIDE VIEW



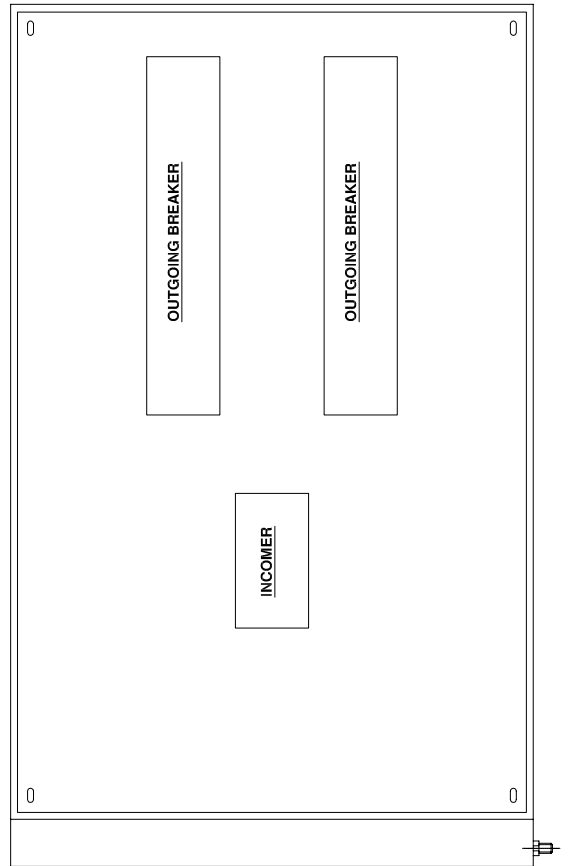
BOTTOM VIEW

SINGLE DOOR ENCLOSURE

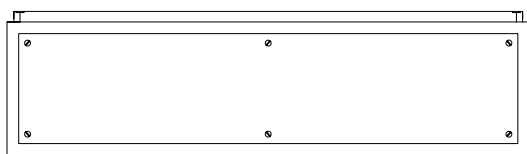


FRONT VIEW

SIDE VIEW



COMPONENT LAYOUT



TOP/BOTTOM VIEW

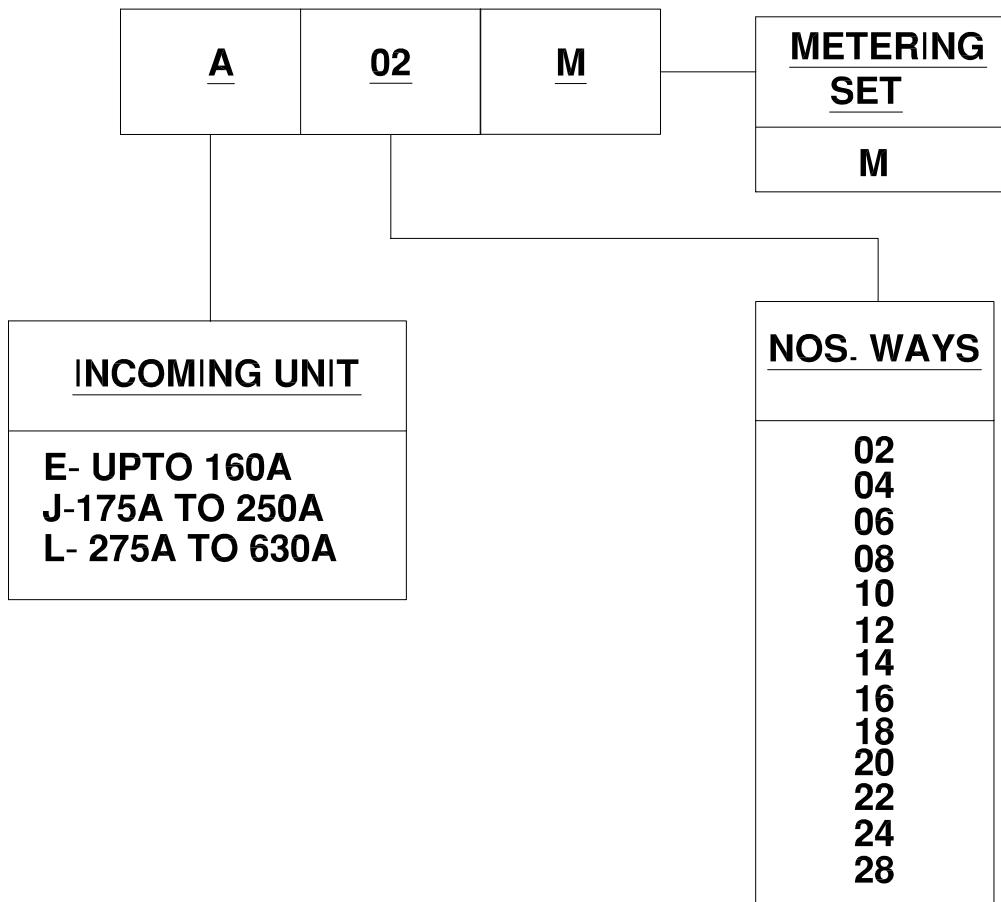
DOUBLE DOOR ENCLOSURE

IN-UNIT	WAYS	H	W W/O ELR	W WITH ELR
E	02	700	600	850
	04	850	600	850
	06	1150	600	850
	08	1000	850	1000
	10	1000	850	1000
	12	1150	850	1000
	14	1250	850	1000
	16	1250	850	SIDE EXTENSION 250 mm. WIDTH
	18	1350	850	
	20	1450	850	
	22	1450	1000	
	24	1550	1000	
	26	1650	1000	
	28	1750	1000	

IN-UNIT	WAYS	H	W W/O ELR	W WITH ELR
J	02	1000	600	850
	04	1000	850	1000
	06	1000	850	1000
	08	1150	850	1000
	10	1150	850	1000
	12	1250	850	1000
	14	1350	850	1000
	16	1350	1000	SIDE EXTENSION 250 mm. WIDTH
	18	1450	1000	
	20	1550	1000	
	22	1650	1000	
	24	1650	1000	
	26	1750	1000	
	28	1850	1000	

IN-UNIT	WAYS	H	W W/O ELR	W WITH ELR
L	02	1150	600	850
	04	1150	850	1000
	06	1150	850	1000
	08	1250	850	1000
	10	1350	850	1000
	12	1350	850	1000
	14	1450	1000	SIDE EXTENSION 250 mm. WIDTH
	16	1550	1000	
	18	1650	1000	
	20	1650	1000	
	22	1750	1000	
	24	1850	1000	
	26	1950	1000	
	28	1950	1000	

Development is a continuous process thus Sahara reserves the right to change data or design without any prior notice.



1- Sizes other than mentioned above available on request and to be co-ordinated with Sahara Design Department.



Distribution Board & Consumer Units

Distribution Board (DB)

Standard Compliance to

- MEW Regulations R1
- IEC 439 / BS 5486 Panel Construction
- BS 159 Busbars / Connections
- IEC 947 – 2 Circuit Breakers
- BS 88 / IEC Fuses
- BS 142 / IEC Protective Relays
- BS 3938 / IEC 185 Current Transformers
- IEC 51 / BS 89 Metering and other relevant standards

1. *Distribution System* : 3Ph & N System 415/240V, 50HZ

2. *Fault Level Rating* : 6KA / 10KA / 15KA / 25KA

3. *Busbars* : Electrolytic Tinned copper with 99.9% purity.

Color marked for Phase Identification

- Capacity : RYB & N : 100A
E: Brass Terminal
- Supports : Moulded DMC fiber glass Insulating supports
with high resistance & Reduced flammability
Working Temp - 160°C
Working Voltage – 660V

4. *Enclosure:*

- Construction : Box Type, Totally Enclosed, Front Accessible, (Flush/Surface mounting)
- Material : Steel Sheet
- Treatment : Electro Galvanized / Zinc Coated.
- Gauge : 1.5mm
- Painting : Powder Coating matt Polyester, RAL 7032
- IP Protection : IP 52 Indoor Installation
: IP 54 Outdoor Installations

5. *Assembly:*

- Materials used are capable of withstanding the mechanical, electrical, and thermal stresses as well as the effect of humidity which are likely encountered in normal service.

DISTRIBUTION BOARDS

SAHARA distribution boards, suitable for final circuit applications, are designed for industrial & domestic use satisfying the needs of specifying authorities all over the world. These DB's are manufactured in our factory at Kuwait with latest techniques & are associated with reputed & approved switchgears. The design is based on modular concept that provides full flexibility.

BUSBARS

Busbars are made from high conductivity electrolytic copper of rectangular section. Busbars are of modular design giving high degree of flexibility and reduced down time. These are supported on glass filled resin moulded insulating supports. Busbar support material has very low moisture absorption properties and very high anti-tracking index. Glass reinforcement gives additional strength to basic material.



EARTHING

Each DB is provided with two separate earthing points. Earthing studs are welded to the main body to avoid any loose connection during operation.

ENCLOSURE

Enclosure is made from high grade steel sheets with specially designed dies, the enclosure can be flush or surface mounted type.

Enclosure parts are painted with powder coating RAL 7032. Doors are provided with anticorrosive stainless steel hinges of our special design. Doors are properly gasketed to provide protection against ingress of dust and water. Other types of locks can be provided upon request.

STANDARD DESIGNS

For the purpose of reducing throughput time, these are standardised for different combinations of supply systems and feeder requirements. A particular CU of certain specification can be ordered directly by quoting corresponding legend code. Developing legend code is a simple matter.

STEP-1 Depending upon number of ways select the extreme first letter.

S - for single busbar system

D - for double busbar system

STEP-2 Depending upon supply system select second letter from right.

1-for SPN and 3-for TPN this will give a three digit code.

STEP-3 Depending upon incoming device select third digit from right as per table given.

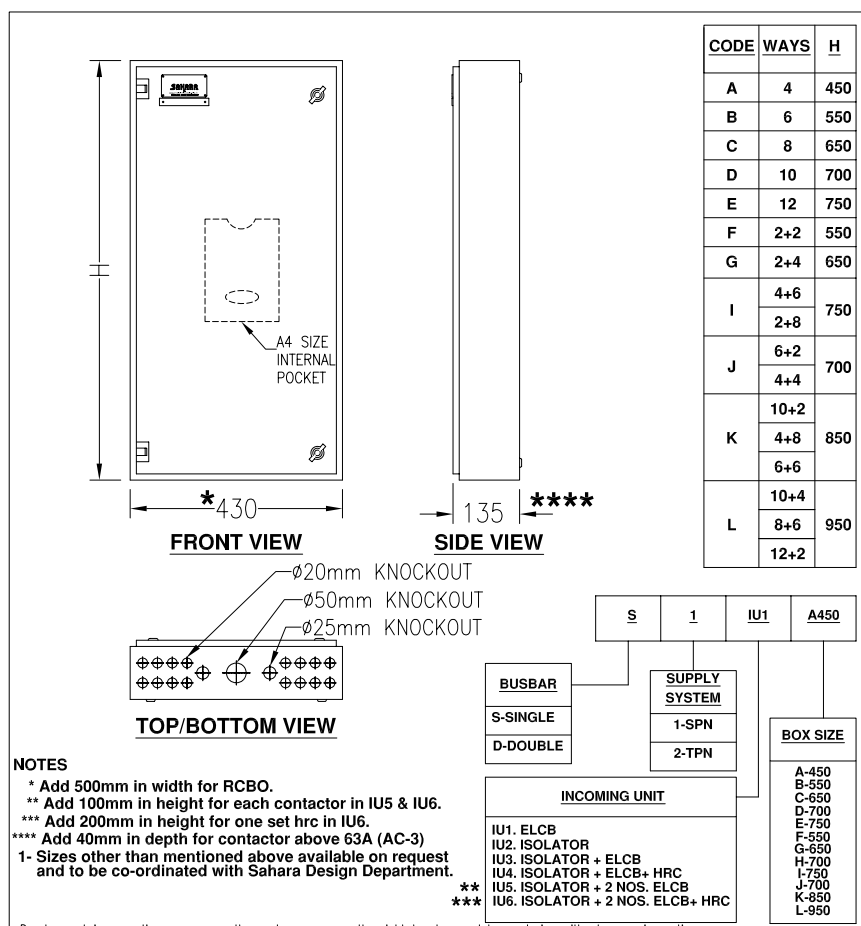
STEP-4 Select the box size for required number of ways

Ex.:- For a double busbar system with Isolator & 2 nos. ELCBs as incoming for a TPN the three digit code in D3IU5. If the combination of number of ways is 6 for power and 6 for lighting, the box type required will be K. Legend code will be D3IU5K and DB is completely defined as:

DB type D3IU5 - number of ways 6 + 6

The combinations mentioned in selection chart are standard, generally used for projects and domestic use. We can also design and supply distribution boards to any non standard requirements. Please contact our sales department regarding such enquiries for technical details and physical dimensions.

Note: Our standard design of enclosure are surfac mounted, flush mounting can be provided upon request



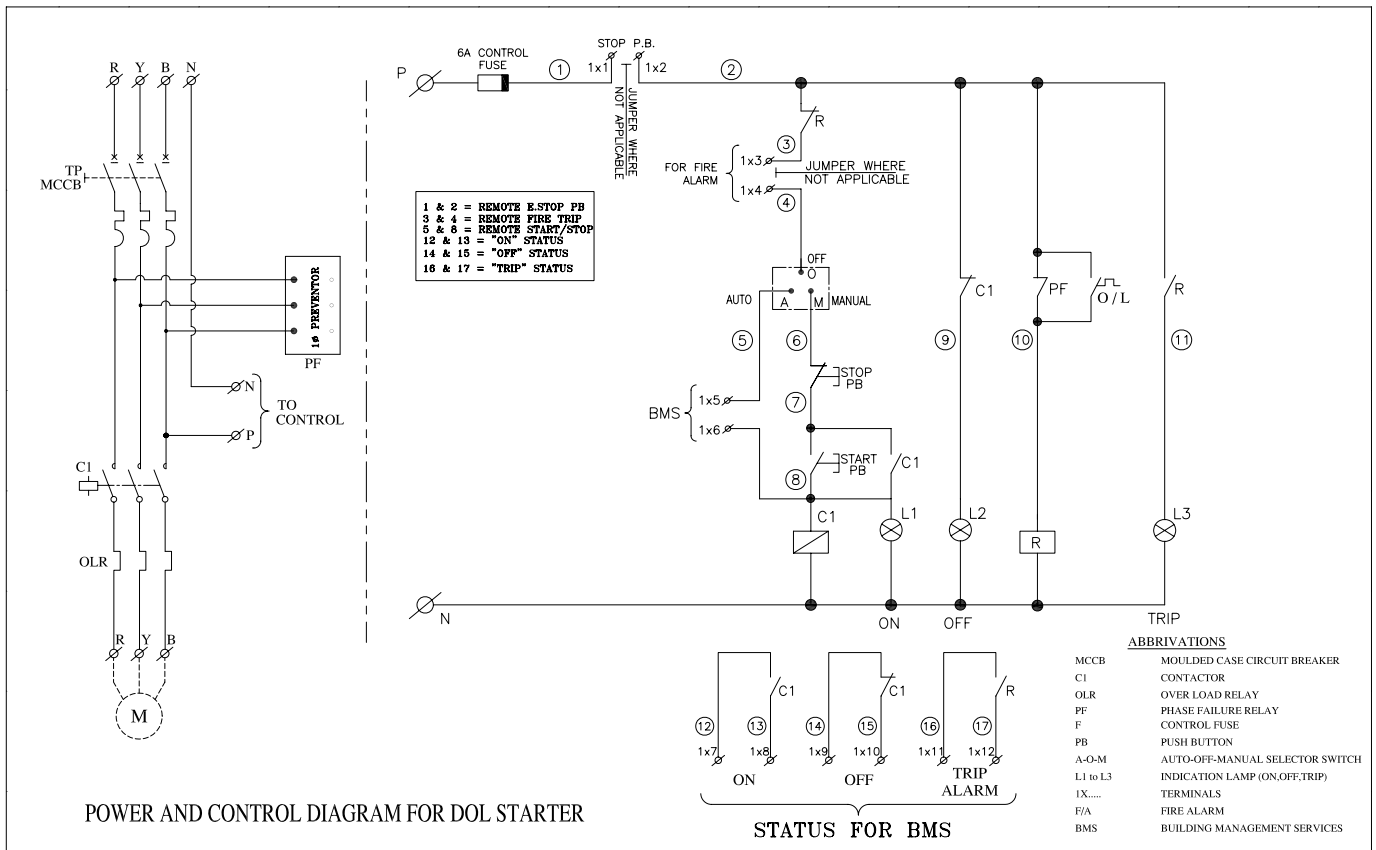


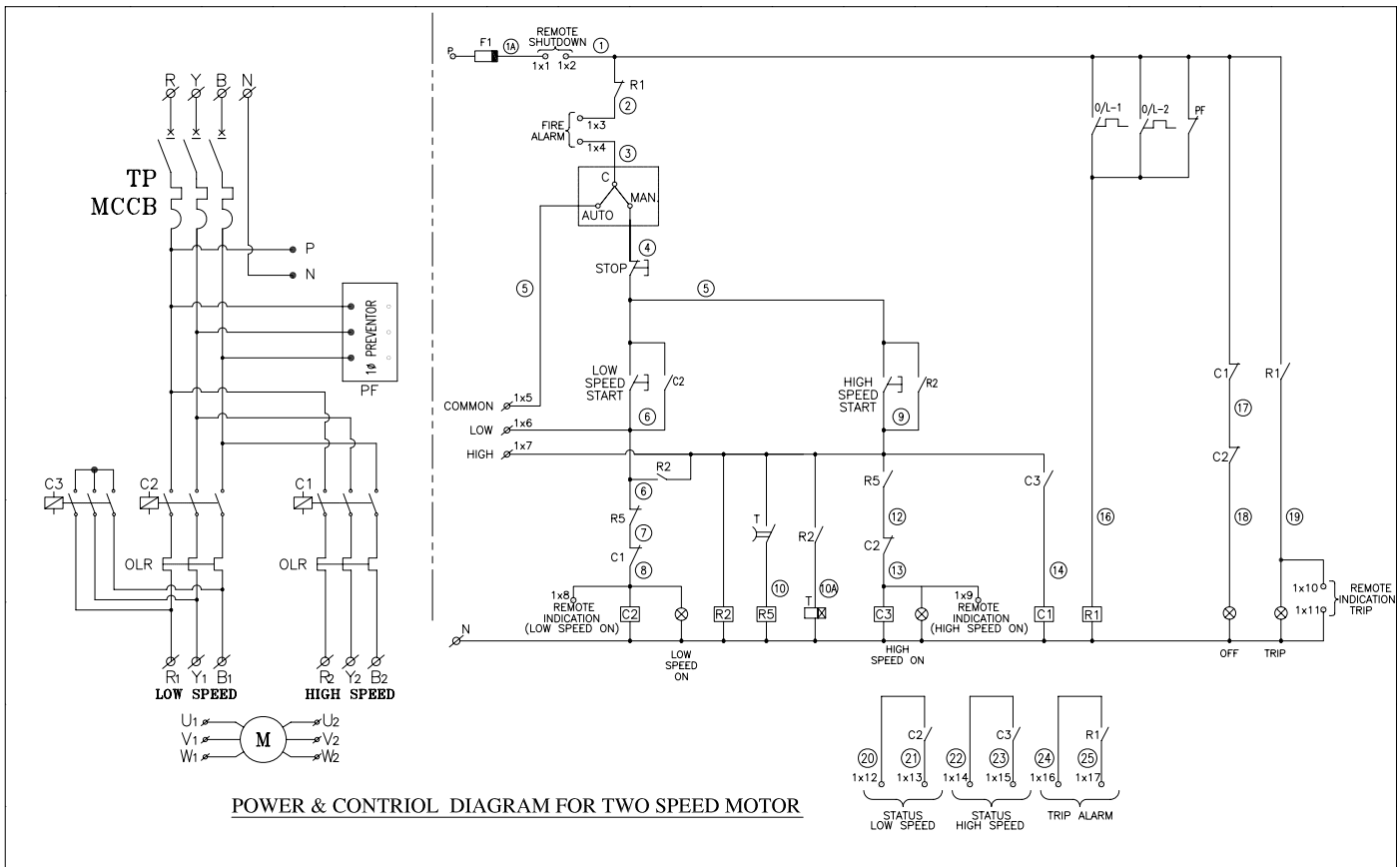
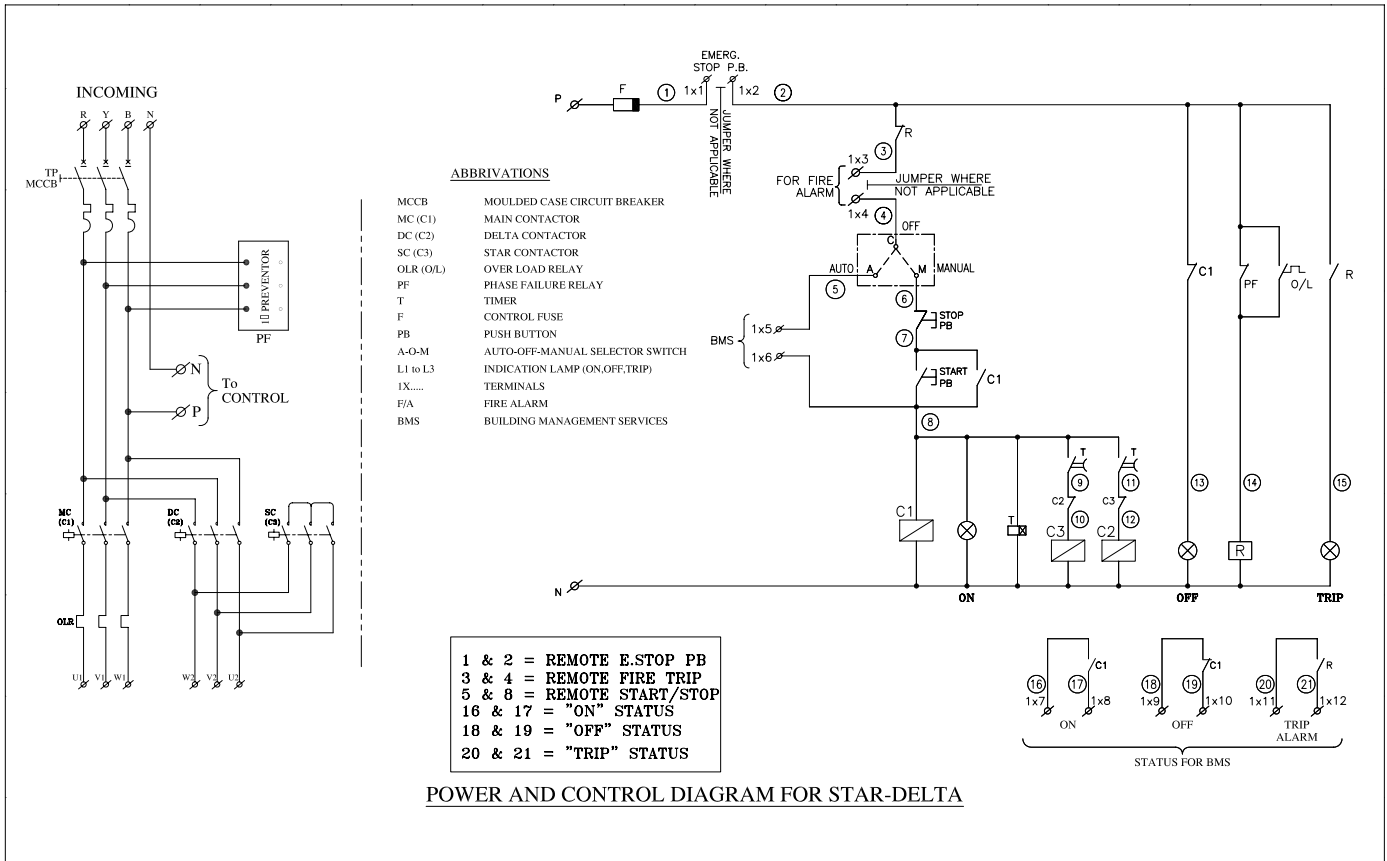
Motor Starter

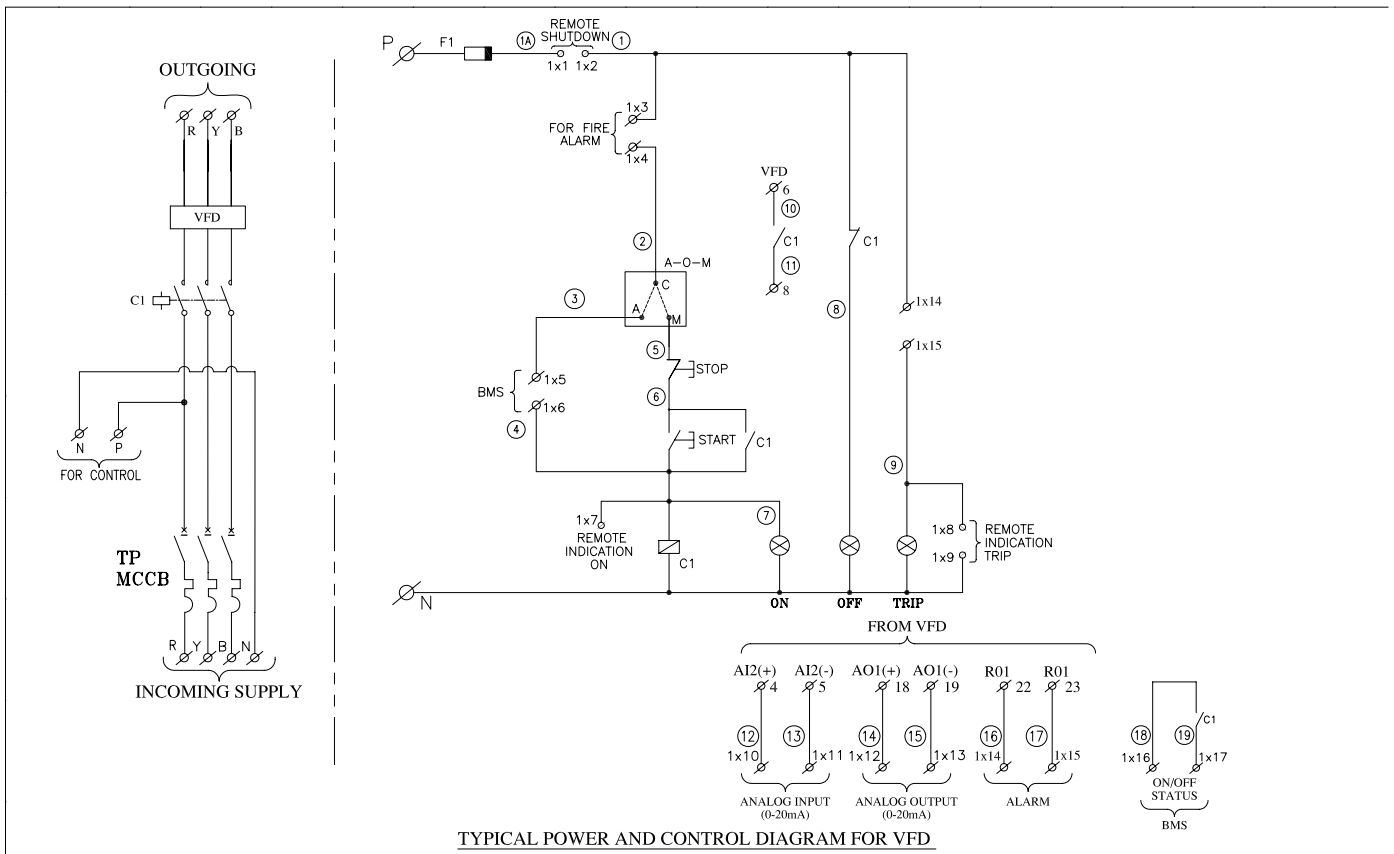
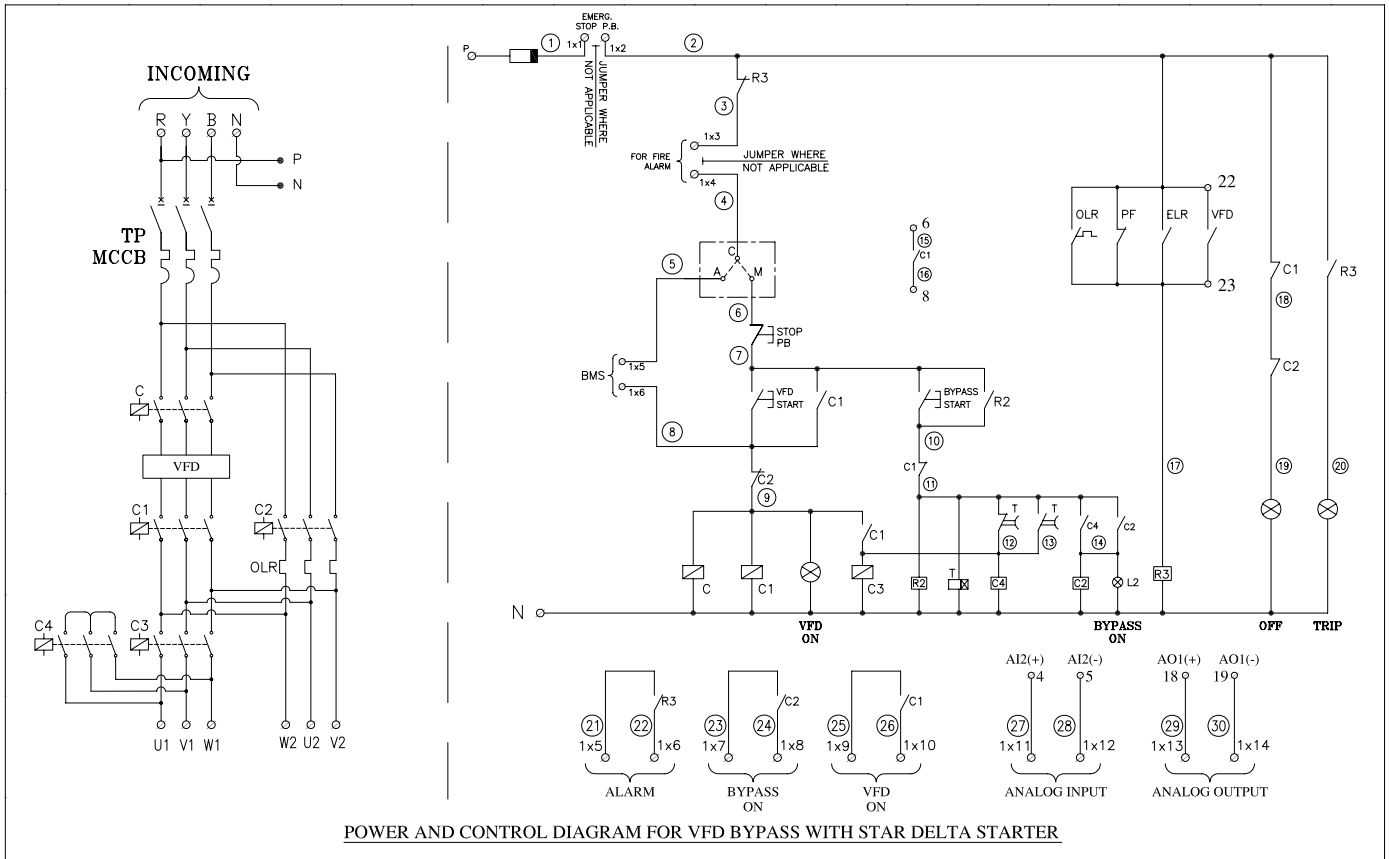
Sahara Supplied All range & types of motor starters.

- DOL Starter – Single & Three phase up to 11kw.
- Star-Delta Starter - 11kw & Above.
- Two Speed Starter.
- Control Panel.
- Variable Speed Drive Starter with & without Bypass Starter.
- Soft Starter.

Above all & other Motor Starter & Control panels provided major components are made in Europe.









Telephone Box
AVA Box
Switchfuse Box

Telephone Boxes manufactured by SAHARA are complying with MEW requirements as mention below.

ENCL. SIZE AS PER CAPACITY

SR.NO.	CAPACITY	SIZE IN C.M.		
		'W'	'H'	'D'
01	UP TO 10 PAIRS	15	15	10
02	FROM 11 TO 20	20	25	10
03	FROM 21 TO 40	30	30	10
04	FROM 41 TO 80	30	45	10
05	FROM 41 TO 80	45	45	10
06	FROM 81 TO 120	45	70	15
07	FROM 121 TO 160	45	95	15
08	FROM 161 TO 240	70	80	15
09	FROM 241 TO 300	80	90	15
10	FROM 301 TO 400	80	100	15
11	FROM 401 TO 500	100	100	15
12	1200 PAIRS	120	100	15
13	FROM 11 TO 20	20	20	10

TECHNICAL DATA

SWITCHBOARD IS IN COMPLIANCE WITH IEC 60439-1

A). ENCLOSURE

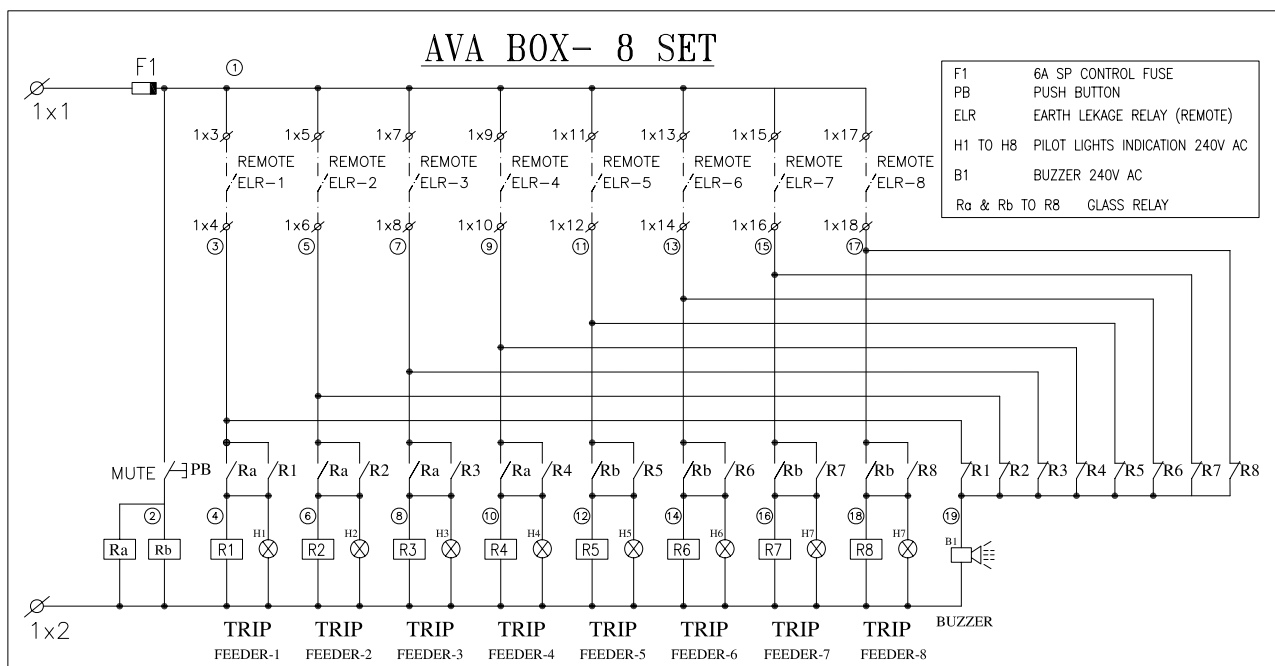
- i. DEGREE OF PROTECTION : IP42
- ii. SHEET THICKNESS : 1.5mm
- iii. PAINT : POWDER COATING RAL-7032

B). INSTALLATION

- i. INSTALLATION : INDOOR, WALL MOUNTING
- ii. CABLE ENTRIES : INCOMER: BOTTOM OUTGOING: TOP & BOTTOM
- iii. CABLE ACCESS : FRONT

SAHARA AVA Boxes manufactured in accordance with MEW requirements & number of AVA can be can be arrange in one box as per Customer & project requirements and can be fix it in one location, in the event of any earth leakage, buzzer will ring then first press mute push button to mute the buzzer. After that can find where the earth leakage by viewing Indication light.

Following is typical Control wiring diagram for 8 set of AVA box.





Street Lighting Feeder Pillar

Standard Compliance to

- MEW Regulations R1
- IEC 439 / BS 5486 Panel Construction
- BS 159 Busbars / Connections
- IEC 947 – 2 Circuit Breakers
- BS 88 / IEC Fuses
- BS 142 / IEC Protective Relays
- BS 3938 / IEC 185 Current Transformers
- IEC 51 / BS 89 Metering and other relevant standards

1. *Distribution System* : 3Ph & N System 415/240V, 50HZ

2. *Fault Level Rating* : 22KA / 1 Sec.

3. *Type of Feeder Pillar* : Type-A, Type-C, Type-D

4. *Busbars* : Electrolytic Tinned copper with 99.9% purity.

Color marked for Phase Identification

- Capacity : RYB & N upto 250A
(more rating available upon request)
E: Busbar as per MEW specification
- Supports : Moulded DMC fiber glass Insulating supports
with high resistance & Reduced flammability
Working Temp - 160°C
Working Voltage – 660V

5. *Enclosure:*

- Construction : Box Type, Totally Enclosed, Front Accessible.
- Material : Steel Sheet
- Treatment : Electro Galvanized / Zinc Coated.
- Sheet Thickness : 3.0mm
- Painting : Powder Coating matt Polyester, RAL 7032
- IP Protection : IP 54 Outdoor Installations

6. *Assembly:*

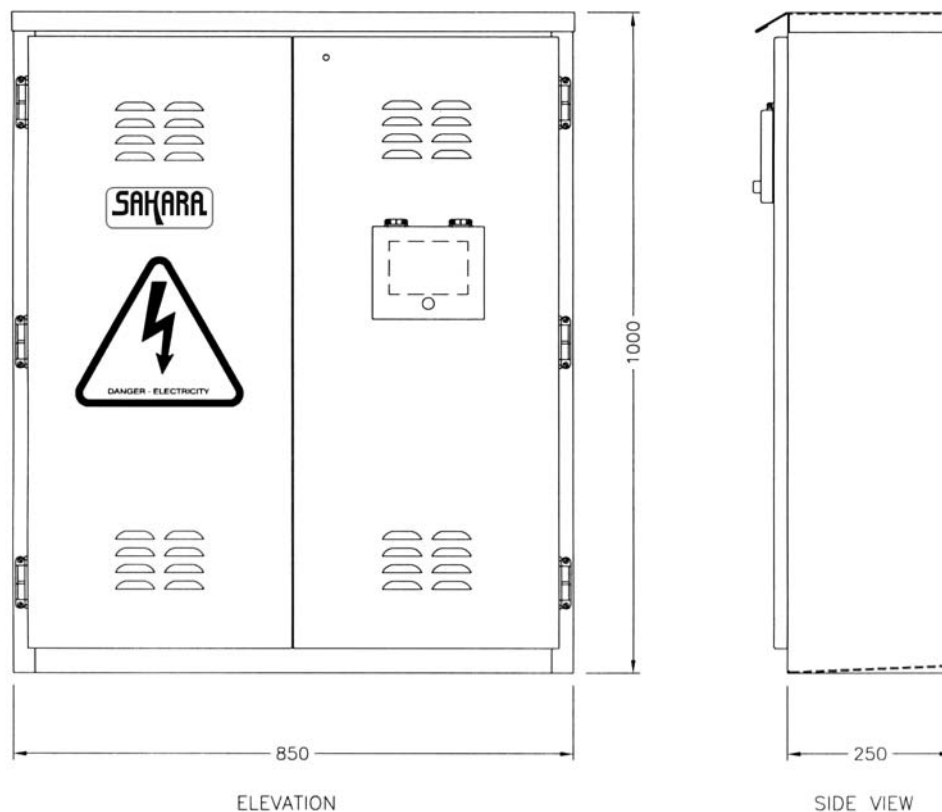
- Materials used are capable of withstanding the mechanical, electrical, and thermal stresses as well as the effect of humidity which are likely encountered in normal service. Feeder Pillar complied with MEW requirements and approved by MEW.



Service Cabinet

INTRODUCTION

with special fasteners, which can be opened only by utility compof incoming MCCB, current transformers and kWh meter. The cabinets are made tamper proofService Cabinets are used for monitoring the power supply in villas/houses. Each cabinet consists



TECHNICAL SPECIFICATIONS

Applicable Standards	: IEC 60439-1
Rated Insulation Voltage	: 690 V, 50 Hz
Current rating	: 300A / 200A
Degree of Protection	: IP 54
Construction	: Totally enclosed suitable for outdoor use
Cable entry	: Bottom
Paint Colour / shade	: Light Grey Shade RAL 7032

OVERALL DIMENSIONS

Rating	300A	200A
Width	850mm	850mm
Depth	250mm	250mm
Height	1250mm	1000mm



Ministry Approval

STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
REPUBLIC OF KUWAIT
APPROPRIATE AUTHORITY
TECHNICAL & CONTRACTS
الهيئة العامة للتخطيط والمقاولات
الهيئة العامة للتخطيط والمقاولات

التمديد / شركة صهارى المشتركة للتجارة العامة والمقاولات
التمديد من
أعمالها يوجد

الموضوع / طلب اقتراح وتكليف
بالتجارة إلى الموضوع المذكور أعلاه
- دور مؤسسة عامة لتعويض بديلا للمقر بامتنع الترقية لدى التعيين الوطني
منازلة/الهيئة العامة للإسكان

Ministry of Energy
State of Kuwait
وزارة الطاقة
دولة الكويت

التجارة / شركة صهارى المشتركة للتجارة العامة والمقاولات
التمديد من
أعمالها يوجد

الموضوع / طلب اقتراح
بالتجارة إلى شركة صهارى (SVC) بتاريخ 2019/07/01
والتمديد من الشركة المذكورة من الشركة المذكورة (SVC) بتاريخ 2019/07/01
التمديد من الشركة المذكورة (SVC) بتاريخ 2019/07/01
مع طلب التقييم

STATE OF KUWAIT
MINISTRY OF PUBLIC WORKS
دولة الكويت
وزارة الأشغال العامة

شركة الصهارى
التجارة العامة

الموضوع / طلب اقتراح
بالتجارة إلى شركة صهارى (SVC) بتاريخ 2019/07/01
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التمديد من الشركة المذكورة (SVC) بتاريخ 2019/07/01
مع طلب التقييم

Ministry of Energy
State of Kuwait
وزارة الطاقة
دولة الكويت

التجارة / شركة صهارى المشتركة للتجارة العامة والمقاولات
التمديد من
أعمالها يوجد

الموضوع / طلب اقتراح وتكليف
بالتجارة إلى الموضوع المذكور أعلاه
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منازلة/الهيئة العامة للإسكان

Ministry of Public Works
وزارة الأشغال العامة

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Ministry of Energy
State of Kuwait
وزارة الطاقة
دولة الكويت

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State of Kuwait
وزارة الطاقة
دولة الكويت

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مع طلب التقييم

**STATE OF KUWAIT
MINISTRY OF DEFENSE
MOAD - MOHAWIDH - MOHAWIDH**

**دولة الكويت
وزارة الدفاع
المجلس العسكري**

2772180149
2004/04/19

السادة / شركة صناعي لصناعة التوربنت الكهربائية
المحترمين
تحية طيبة وبعد ..

الموضوع : طلب اعداد لوحة التوزيع والمعايير
للمركبة الهندسية المتكامل

بالاشارة الى الموضوع اعداد راسي رقم التوربنت رقم 5000/21400 تاريخ 2004/03/24 ارفق بديانك طلبا معلقا بعد اذرة العجاجة التي عند تاريخ 2004/03/24
2004/03/24
المعتمد معلقا ارفق
بديانك طلبا من اعداد لوحة التوزيع الكهربائية للمركبة الهندسية المتكامل
التي تم اعدادها على ان يتم هذا العمل اذرة والاعداد على اعدادها خارجي وذلك من
جانب المصنوع المتكامل كما ان هذا العمل لا ياتي بمقتضى من ان يتم العمل
مستقلا.

وتنظرا لظروف العمل
يرجى ان يتم العمل
مستقلا.

برفقة هذا امر

**KUWAIT UNIVERSITY
Education & Movement**

**جامعة الكويت
الهيئة العامة للتعليم والبحث**

الرقم : 21
التاريخ : 2004/03/19

السادة / مصنع صناعي لصناعة التوربنت الكهربائية
المحترمين
تحية طيبة وبعد ..

الموضوع : اعداد لوحة توزيع الكهرباء

بالاشارة الى الموضوع اعداد راسي رقم التوربنت رقم 5000/21400 تاريخ 2004/03/24 ارفق بديانك طلبا معلقا بعد اذرة العجاجة التي عند تاريخ 2004/03/24
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يرجى ان يتم العمل
مستقلا.

برفقة هذا امر

**كويت ايل
K.S.C.ج**

**كويت ايل
K.S.C.ج**

2004/03/19

السادة / شركة صناعي لصناعة التوربنت الكهربائية
المحترمين
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برفقة هذا امر

Public Authority for Youth & Sport

الهيئة العامة للشباب والرياضة

2004/03/19

السادة / شركة صناعي لصناعة التوربنت الكهربائية
المحترمين
تحية طيبة وبعد ..

الموضوع : اعداد لوحة توزيع الكهرباء
للمركبة الهندسية المتكامل

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يرجى ان يتم العمل
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برفقة هذا امر

**الهيئة العامة للإطفاء
Kuwait Fire Service Directorate**

2008/3/18

السادة / شركة صناعي لصناعة التوربنت الكهربائية
المحترمين
تحية طيبة وبعد ..

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للمركبة الهندسية المتكامل

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يرجى ان يتم العمل
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برفقة هذا امر

**الهيئة العامة للإطفاء
Kuwait Fire Service Directorate**

2008/3/18

السادة / شركة صناعي لصناعة التوربنت الكهربائية
المحترمين
تحية طيبة وبعد ..

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للمركبة الهندسية المتكامل

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برفقة هذا امر

**الهيئة العامة للإطفاء
Kuwait Fire Service Directorate**

2008/3/18

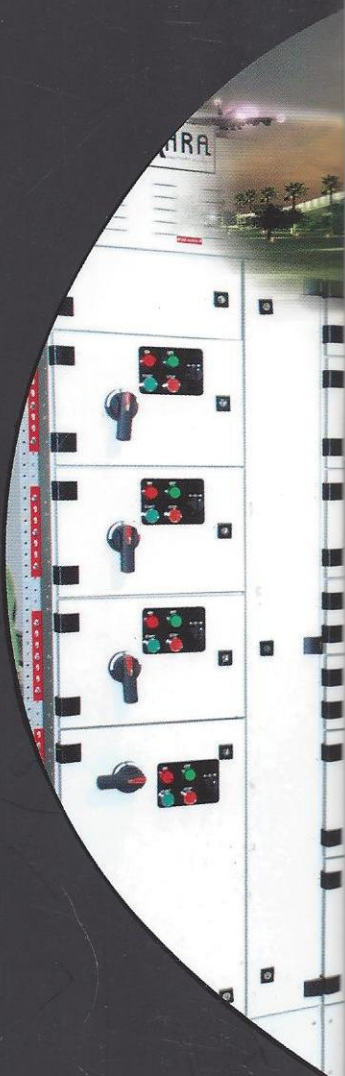
السادة / شركة صناعي لصناعة التوربنت الكهربائية
المحترمين
تحية طيبة وبعد ..

الموضوع : اعداد لوحة توزيع الكهرباء
للمركبة الهندسية المتكامل

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جانب المصنوع المتكامل كما ان هذا العمل لا ياتي بمقتضى من ان يتم العمل
مستقلا.

وتنظرا لظروف العمل
يرجى ان يتم العمل
مستقلا.

برفقة هذا امر



EAT•N | Cutler-Hammer

INOTEC Central Battery

DAVIS Cable Management Systems

**KEMA
EUR**

Tabula

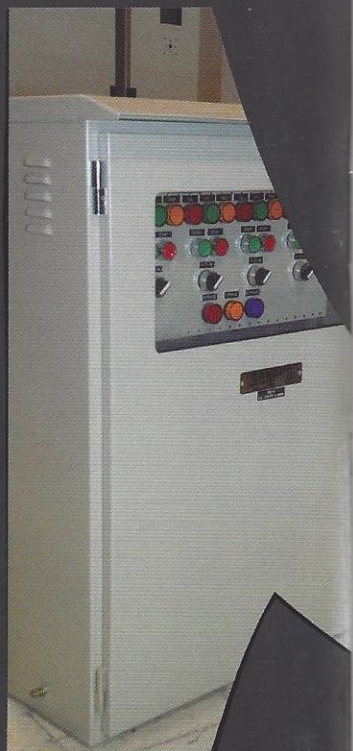
TRS

ICAR

BECKHOFF

**Lovato
electric**

socomec
Innovative Power Solutions



Sahara Combined General Trad. & Cont. Co.
Sahara Switchboard Factory
Tel.: 24765753 / 24765754 - Fax: 24765751
P.O.Box: 6863 Code No.: 32043 Hawalli
Email: sales@sahara.com.kw
www.sahara.com.kw

SAHARA PANEL TYPE TEST CERTIFICATES



ASTA TEST REPORT

Laboratory Ref. No: MN-1413-0509/4000

APPARATUS: 4000A, 415V/690V/8kV ($U_n=U_e/U_i/U_{imp}$), 50Hz, IP-54, Form 4b, Type 7 Extendable Power switchgear and controlgear Assembly incorporating a three-phase and neutral horizontal and vertical tinned copper busbar system, one incoming ACB unit, one outgoing ACB unit, five outgoing MCCB units and a protective circuit.

DESIGNATION: 4000A, IP-54, Form4b, Type 7, Main Distribution Board

VENDOR: Sahara Switchboard Factory/Sahara Combined Gen. Trad. & Cont. Co., P.O. Box: 6863, Code No: 32043 Hawalli, Kuwait.

TESTED BY: Electrical Research & Development Association
ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, Gujarat, INDIA.

DATES OF TESTS: 5th September 2014

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with:

**Client's instructions with assessment to IEC/TR 61641 Edition 3.0 2014-09,
Clauses 6, 7, 8 applying Criteria 1 to 7:
Internal Fault Testing**

Permissible current under arcing conditions ($I_{p arc}$)
and the associated arcing time (t_{arc}), criteria 1 to 7: 85kA rms at 415V, 0.4 sec, p.f.=0.2

Permissible conditional short-circuit current ($I_{pc arc}$)
under arcing conditions, criteria 1 to 7: 50kA rms at 415V, p.f. =0.25

For the details of the units tested, location of the fault initiating wire and the criteria applied for each test, see Page 1

This is not a certificate of rating. A certificate of rating was not issued as the tests were conducted as per client's instructions.

The documents forming this Test report are:

- (1) Record of proving tests: Pages 8 to 31
- (2) Diagram numbers: OLSC/SWG/48
- (3) Oscillogram numbers: MN-1413-0509/4000/101 to 115
- (4) Photograph Nos.: As listed on Page 2
- (5) Drawing nos.: As listed on Page 3

The record of Proving Tests applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designations with that tested rests with the Manufacturer.

Reproduction of the complete Test Report only is permitted without written permission from Intertek Testing and Certification Ltd, Issued by Intertek, Centre Court, Meridian Business Park, Leicester LE19 1WD, United Kingdom. Contact: asta@intertek.com
Tel: +44 (0)116 263 0330



Rajani Menon
Rajani Menon
ASTA Observer

P. J. Gibson
Certification
Manager

11TH DECEMBER 2018
Date

ASTA TYPE CERTIFICATE

VERIFICATION OF TEST

Project No: G104280468 **Certificate No:** ASTA-TYPE-000670

Applicant: Sahara Combined General Trad. & Cont. Co., Sahara Switchboard Factory,
P.O. Box: 6863, Code No. 32043, Hawalli, Kuwait.

Apparatus: 3000A, 415V-440V/800V/8kV ($U_e/U_i/U_{imp}$) extendable Power Switchgear and Controlgear Assembly incorporating a three-phase and neutral horizontal and vertical tinned copper busbar system with one incoming ACB unit, two outgoing ACB units, one bus-coupler ACB unit, four outgoing MCCB units and a protective circuit. ($I_{nc} = 3500A$ for the main horizontal busbars, $U_i = 1000V$ for the main busbars and ACB's)

Manufactured By: Sahara Combined General Trad. & Cont. Co., Sahara Switchboard Factory,
P.O. Box: 6863, Code No. 32043, Hawalli, Kuwait.

Test Report No: B24-19-CV /01 and 2004.08.01/02

Designation: SAHARA, 3000A Incomer & 3500A Bus-Coupler, 80kA, IP54, Form-4b, 55°C ambient Panel

The apparatus which is representative of the designation, supplied drawings and photographs has been evaluated in accordance with:

IEC 61439-2: Edition 2.0 2011-08

Verifications with reference to the tests listed in Annex D of IEC 61439-1: Edition 2.0 2011-08

1: Strength of material and parts	6/7/8: No verification by testing required
2: Degree of protection of enclosures	9: Dielectric properties
3: Clearances	10: Temperature-rise limits
4: Creepage distances	11: Short circuit withstand strength
5: Protection against electric shock and integrity of protective circuits	12: Electromagnetic compatibility (EMC)
	13: Mechanical operation

The results are shown in the record of tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s) of this Certificate. This Certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.



[Signature]
.....
[Signature]
.....

Certification Engineer

Certification Officer

27th October 2020
.....

Date

ASTA Certificate of Verification Tests

Laboratory Ref. No: **WO-1718-005543**

APPARATUS: 2500A, 415V-440V/690V/8kV ($U_0/U_i/U_{imp}$) (1000V/12kV (U_i/U_{imp}) for the main busbars), 50Hz extendable Power Switchgear and Controlgear assembly incorporating a three-phase and neutral horizontal and vertical H.D.H.C. electrotinned copper busbar system with one incoming ACB unit, four outgoing switch disconnector fuse (SDF) units, four outgoing MCCB units, one outgoing direct online starter (DOL) feeder unit and a protective circuit.

DESIGNATION: 3000A 4P MAIN LOW VOLTAGE SWITCHGEAR & MOTOR CONTROL CENTERS, IP-54, 65kA. 55°C Ambient, Form 4b Type 7

MANUFACTURER: Sahara Combined General Trad. & Cont. Co., Sahara Switchboard Factory, Al Rai Area, Ghazali Street Block-62, P.O. Box: 6863, Hawalli, Kuwait.

TESTED BY: Electrical Research & Development Association
ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, Gujarat, INDIA.

DATES OF TESTS: 26th July 2017 to 22nd June 2018

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with

IEC 61439-2: Edition 2.0 2011-08 and BSEN 61439-2: 2011

Verifications with reference to the tests listed in Annex D of IEC 61439-1: Edition 2.0 2011-08

- | | |
|--|--------------------------------------|
| 1: Strength of materials and parts | 9: Dielectric properties |
| 2: Degree of protection | 10: Temperature-rise |
| 3: Clearances | 11: Short-circuit withstand strength |
| 4: Creepage distances | 12: Electromagnetic compatibility |
| 5: Protection against electric shock | 13: Mechanical operation |
| 6/7/8: no verification by testing required | |

For ratings assigned by the manufacturer and verified by test see ratings pages A, B, C, D and E

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s).

This certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having same or other designations rests with the Manufacturer.

This certificate comprises this front sheet, 5 ratings pages plus 177 other pages as detailed on pages 2,

Only integral reproductions of this whole certificate or reproductions of this page accompanied by any ratings pages are permitted.
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Rajani Menon
.....**Rajani Menon**
ASTA Observer

R. Hargreaves
.....**R. Hargreaves**
Certification Manager

2nd April 2019
.....**2nd April 2019**
Date

ASTA CERTIFICATE of Verification Tests

Laboratory Ref. No: LSWGWO0089161/07

APPARATUS: 1600A, 415V(400V)/690V/8kV($U_e/U_i/U_{imp}$), 50/60Hz Extendable Power Switchgear and Controlgear Assembly incorporating a three-phase and neutral, Horizontal and Vertical busbar system, 1 incoming ACB unit, 8 outgoing MCCB units and a protective circuit.

DESIGNATION: SAHARA 1600A IP 54, form 4b, type 7, Main Low Tension Panel - SCGTC

VENDOR: SAHARA Switchboard Factory / Sahara Combined Gen. Trad. & Cont. Co.
P.O. Box: 6863 Code No.: 32043 Hawalli Kuwait

TESTED BY: Electrical Research & Development Association
ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, Gujarat, INDIA

DATES OF TESTS: 24th April to 8th May 2009 & 18th December 2010 to 13th January 2011

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with

IEC 61439-1 & 2: Edition 1.0 2009-01

Verifications with reference to the tests listed in Annex D:

- | | |
|--|--------------------------------------|
| 1: Strength of materials and parts | 8: dielectric properties |
| 2: degree of protection | 9: temperature-rise |
| 3: clearances and creepage distances | 10: short-circuit withstand strength |
| 4: protection against electric shock | 11: EMC compatibility |
| 5/6/7: no verification by testing required | 12: mechanical operation |

Refer to pages A, B and C for ratings

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s).

This certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

This certificate comprises this front sheet, 3 rating pages plus 104 other pages as detailed on page 1 & 2.

Only integral reproductions of this whole certificate or reproductions of this page accompanied by any ratings pages are permitted.

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Contact: asta@intertek.com Tel: +44 (0)1788 578435



010'

Rajani Menon
.....
Rajani Menon
ASTA Observer

P. Gibson
.....
Certification
Manager

7TH FEBRUARY 2013..... Date

ASTA CERTIFICATE of Verification Tests

Laboratory Ref. No: LSWGWO00810015/06

APPARATUS: 630A, 415V(400V)/690V/8kV($U_n/U_r/U_{imp}$), 50/60Hz Non-Extendable Power Switchgear and Controlgear Assembly incorporating a three-phase and neutral, vertical busbar system, 1 incoming MCCB unit, 8 outgoing MCCB units and a protective circuit.

DESIGNATION: SAHARA 630A TPN MCCB Panel Board Series Fi – SCGTC

VENDOR: SAHARA Switchboard Factory / Sahara Combined Gen. Trad. & Cont. Co.
P.O. Box: 6863 Code No.: 32043 Hawalli Kuwait

TESTED BY: Electrical Research & Development Association
ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, Gujarat, INDIA

DATES OF TESTS: 11th to 22nd September 2009 & 23rd December 2010 to 2nd April 2011

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with

IEC 61439-1 & 2: Edition 1.0 2009-01

Verifications with reference to the tests listed in Annex D:

- | | |
|--|--------------------------------------|
| 1: Strength of materials and parts | 8: dielectric properties |
| 2: degree of protection | 9: temperature-rise |
| 3: clearances and creepage distances | 10: short-circuit withstand strength |
| 4: protection against electric shock | 11: EMC compatibility |
| 5/6/7: no verification by testing required | 12: mechanical operation |

Refer to pages A and B for ratings

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s).

This certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

This certificate comprises this front sheet, 2 rating pages plus 64 other pages as detailed on page 1

Only integral reproductions of this whole certificate or reproductions of this page accompanied by any ratings pages are permitted.

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Contact: asta@intertek.com Tel: +44 (0)1788 578435



010

Rajani Menon
..... Rajani Menon
ASTA Observer

P. Gibson
..... Certification
Manager

7th FEBRUARY 2013 Date

ASTA Certificate Of Verification Tests

Laboratory Ref. No: WO-1819-013082

APPARATUS: 400A, 415V/690V/6kV ($U_e/U_i/U_{imp}$), 50Hz non-extendable Power Switchgear and Controlgear assembly incorporating three-phase and neutral, vertical HDHC electrotinned copper busbar system with one incoming MCCB unit, six outgoing MCCB units and a protective circuit.

DESIGNATION: SAHARA 400A 4P MCCB PANEL BOARD Series – SCGTC, 35kA, IP55, Form 2b, 55°C ambient, Outdoor panel.

MANUFACTURER: Sahara Combined General Trad. & Cont. Co. Subhan Industrial Area, Block-8, (Plot 195+193), Kuwait.

TESTED BY: Electrical Research & Development Association, ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, Gujarat, INDIA.

DATES OF TESTS: 28th June 2017 to 21st March 2019

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with

IEC 61439-2: Edition 2.0 2011-08 and BSEN 61439-2: 2011

Verifications with reference to the tests listed in Annex D of IEC 61439-1: Edition 2.0 2011-08

- | | |
|--|--------------------------------------|
| 1: Strength of materials and parts | 9: Dielectric properties |
| 2: Degree of protection | 10: Temperature-rise |
| 3: Clearances | 11: Short-circuit withstand strength |
| 4: Creepage distances | 12: Electromagnetic compatibility |
| 5: Protection against electric shock | 13: Mechanical operation |
| 6/7/8: no verification by testing required | |

For ratings assigned by the manufacturer and verified by test see rating pages A, B and C.

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s).

This certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having the same or other designations rests with the Manufacturer.

This certificate comprises this front sheet, 3 ratings pages plus 83 other pages including 6 drawings as detailed on pages 2 and 3.

Only integral reproductions of this whole certificate or reproductions of this page accompanied by any ratings pages are permitted.

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010

Rajani Menon

Rajani Menon
ASTA Observer

P. Jidhu

Certification
Manager

5TH August 2019 Date

ASTA CERTIFICATE of Verification Tests

Laboratory Ref. No: LSWGWO00810015/04

APPARATUS: 250A, 415V(400V)/690V/8kV($U_e/U_f/U_{imp}$), 50/60Hz Non-Extendable Power Switchgear and Controlgear Assembly incorporating a three-phase and neutral, vertical busbar system, 1 incoming MCCB unit, 8 outgoing MCCB units and a protective circuit.

DESIGNATION: SAHARA 250A TPN MCCB Panel Board Series CI- SCGTC

VENDOR: SAHARA Switchboard Factory / Sahara Combined Gen. Trad. & Cont. Co.
P.O. Box: 6863 Code No.: 32043 Hawalli Kuwait

TESTED BY: Electrical Research & Development Association
ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, Gujarat, INDIA

DATES OF TESTS: 11th to 22nd September 2009 & 7th January to 2nd April 2011

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with

IEC 61439-1 & 2: Edition 1.0 2009-01

Verifications with reference to the tests listed in Annex D:

- | | |
|--|--------------------------------------|
| 1: Strength of materials and parts | 8: dielectric properties |
| 2: degree of protection | 9: temperature-rise |
| 3: clearances and creepage distances | 10: short-circuit withstand strength |
| 4: protection against electric shock | 11: EMC compatibility |
| 5/6/7: no verification by testing required | 12: mechanical operation |

Refer to pages A and B for ratings

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s).

This certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having same or other designations rests with the Manufacturer.

This certificate comprises this front sheet, 2 rating pages plus 63 other pages as detailed on page 1

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Colin Stephens
..... Colin Stephens
ASTA Observer

P. Gibbs
..... Certification
Manager

18TH FEBRUARY 2013 Date

ASTA CERTIFICATE of Verification Tests

Laboratory Ref. No: LSWGWO00810015/02/01

APPARATUS: 100A, 415V(400V)/690V/4kV($U_e/U_i/U_{imp}$), 50/60Hz Non-Extendable Power Switch-gear and Controlgear Assembly incorporating a three-phase and neutral vertical busbar system, 1 incoming Switchdisconnecter unit, 8 outgoing MCB units and a protective circuit.

DESIGNATION: SAHARA 100A TPN MCB Panel Board Series SCGTC

VENDOR: SAHARA Switchboard Factory / Sahara Combined Gen. Trad. & Cont. Co.
P.O. Box: 6863 Code No.: 32043 Hawalli Kuwait

TESTED BY: Electrical Research & Development Association
ERDA Road, Makarpura Industrial Estate, Vadodara-390 010, Gujarat, INDIA

DATES OF TESTS: 7th to 25th September 2009 & 15th December 2010 to 20th January 2011

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with

IEC 61439-1 & 2: Edition 1.0 2009-01

Verifications with reference to the tests listed in Annex D:

- | | |
|--|--------------------------------------|
| 1: Strength of materials and parts | 8: dielectric properties |
| 2: degree of protection | 9: temperature-rise |
| 3: clearances and creepage distances | 10: short-circuit withstand strength |
| 4: protection against electric shock | 11: EMC compatibility |
| 5/6/7: no verification by testing required | 12: mechanical operation |

Refer to pages A and B for ratings

The results are shown in the record of Proving Tests attached hereto. The values obtained and the general performance is considered to comply with the above Standard(s) and to justify the ratings assigned by the manufacturer as stated on the ratings page(s).

This certificate applies only to the apparatus tested. Responsibility for conformity of any apparatus having same or other designations rests with the Manufacturer.

This certificate comprises this front sheet, 2 ratings pages plus 67 other pages as detailed on page 1

Only integral reproductions of this whole certificate or reproductions of this page accompanied by any ratings pages are permitted.
Issued by Intertek, Hilton House, Corporation Street, Rugby, CV21 2DN England.
Contact: asta@intertek.com Tel: +44 (0)1788 578435



010

Rajani Menon
.....
Rajani Menon
ASTA Observer

P. J. B.
.....
Certification
Manager

21st DECEMBER 2012 Date

AUTHORIZED PANEL BUILDER CERTIFICATES



Our Ref.: SE/GM/AA/2022-01

Date: 3rd Jan, 2022

To,

Whomsoever it may concern.

Subject: M/s. Sahara Combined General Trading & Cont.Co. -Certified Panel Builder for Schneider Electric

Schneider Electric is a global specialist in Energy Management with operations in more than 100 countries. Schneider Electric offers integrated solutions across multiple markets including leadership position in Energy and Infrastructure, Industrial Processes, Building Automation and Data Centers/Networks as well as a wide presence in the residential market.

Schneider Electric is head quartered in France having more than 200 manufacturing facilities worldwide. The products manufactured in all our facilities are in accordance with international standards and are covered by the Schneider Electric standard warranty policy.

We hereby confirm that M/s. Sahara Combined General Trading & Cont.Co. is a Certified Panel Builder of Schneider Electric authorized to design, assemble, and supply Low Voltage power distribution switchboards and motor control centers using Schneider Electric switchgear components in the LV switchboards manufactured by them.

All the Schneider Electric products used by them are covered under our standard warranty clause in accordance with our corporate policies

Should you require any further clarification we remain at your disposal.

Thanks and regards,



Anan Awwad
Sales Manager – Contractors & Panel Builders

MAJOR PROJECT's APPROVALS





Major Project With Ministry of Public Works

Kuwait Int'l Airport New Passenger Terminal –II SPA/214

Project Under Execution, 2019

Limak Insaat MINISTRY OF PUBLIC WORKS
 Construction, Completion, Furnishing, and Maintenance for Kuwait
 International Airport New Passenger Terminal II
 SPA/214

Material Submittal Form

Submittal No: **KLIMAK-INT-PASSTERMINAL**
 Material Description: **Panel and Ejecta & Distribution Boards**

Material Specification: **Panel and Ejecta & Distribution Boards**

Equipment: Architectural Civil Structure Electrical Mechanical IT Special System

Location: Control Room Building Cleaning and Services Parking Control Tower IT Building LCC MTR Office

Road Works Sign Board Terminal Building Utility Canister Utility Tunnel Water Tank Building Project Work

Reference Drawings:
 PTD-ELC-OWS-02-00-00-000001 PTD-ELC-SCB-02-00-00-000001
 PTD-ELC-OWS-02-00-00-000004 PTD-ELC-SCB-02-00-00-000004
 PTD-ELC-OWS-02-00-00-000007 PTD-ELC-SCB-02-00-00-000007

Reference Specification/Section No:
 26.24.10 Panel and Boards
 26.26.26 Distribution Boards

Manufacturer Name & Address:
 Eskoer Combined General Trading & Contracting Co.
 P.O. Box 6023, Hawtat, 20043-Hawtat

Supplier:
 Eskoer Combined General Trading & Contracting Co.

Mock-Up: YES NO

LEED Completion: YES NO N/A
 CSI Code: Related LEED Credit:

We certify that the materials submitted herein have been ordered and are in conformance with the contract drawings and specifications unless otherwise stated.

CONTRACTOR'S APPROVAL

Prepared by	Title	Name	Signature	Date
Checked by	<input checked="" type="checkbox"/> Electrical Engineer <input type="checkbox"/> Civil/Structure			
Reviewed by	Material Manager			
Checked by	SA/SC Manager			

Engineer: *[Signature]* Received by Contractor: *[Signature]*
 Date: 13/11/2018 Date:

Response: N/A Engineer Other

Review Comments: **REFER TO COMMENTS ON THE ATTACHED SHEET.**

Approval Status:
 A (Action not proceed) B (Action not proceed subject to the contractor taking necessary action as noted) C (Review and Re-submit)

In planning

ENGINEER: *[Signature]* Received by Contractor: *[Signature]*
 Date: 13/11/2018 Date:

Distribution: Other Other Other



Form No: PSF-QAC-002

Received by: *[Signature]* Date: 13/11/18

Approved by: *[Signature]* Date: 13/11/18

Remarks: *[Handwritten notes]*

Rev: 01

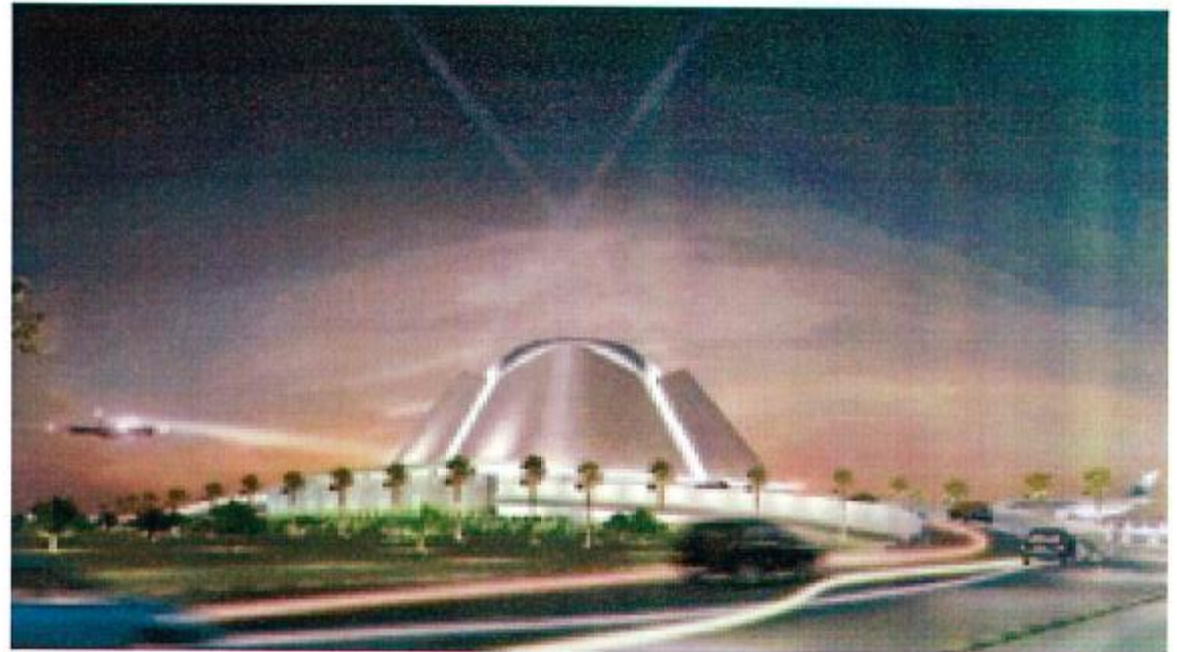


SAHARA

Project Executed, 2008

Major Project With Ministry of Public Works (MPW)

VVIP Amiri Terminal Building



VVIP Amiri Terminal Building

**MINISTRY OF PUBLIC WORKS
SPECIAL PROJECTS ADMINISTRATION
AMIRI TERMINAL BUILDING - KIA**

TRANSMITTAL FOR MATERIAL DATA, SAMPLES, MOCK-UPS ETC.

CONTRACT NO. : SPA/148 NO. : APT/AMIRI/08/MPW/ELECTR REV. : 0
 CONTRACTOR : Almadah Contracting & Trading Co./KIA DATE : 29 Oct 08

TO : MPW, Project Engineer
 SUB : ELECTRICAL PANEL BOARDS

WE ARE FORWARDING HEREBY UNDER SEPARATE COVER, DOCUMENTS LISTED BELOW:

APPROVAL	YOUR INFORMATION	ACTION	CODE
APPROVED			1
APPROVED AS NOTED			2
APPROVED AS NOTED			3
APPROVED			4
NOT APPROVED			5
FOR INFO ONLY, REUSE			6

QTY	DRWS, SPEC. OR BCD, REF.	REV. NUMBER	DESCRIPTION	TYPE	QUANTITY	CODE	Action
4	MATERIAL DATA	8	ELECTRICAL PANEL BOARDS MANUFACTURER: SAHARA SWITCHBOARD FACTORY /EATON USA SUPPLIER: SAHARA SWITCHBOARD FACTORY, KUWAIT	MT	1	B	

COPIES TO: MPW Consultant, DESIGNER AS NOTED, SUB-CONTRACTOR, CONTRACTOR

MPW Consultant to enter Action Codes and Comments, and return to Contractor

Approved as noted in the Comments attached

19/10/08

RECEIVED 19 OCT 2008

MPW Consultant 16.10.08

19/10/2008 DATE

RECEIVED 08 OCT 2008 MPW CONSULTANT

ALL MTP, MSB, MCL, etc. shall be PRO-TYPE TESTED. Submit test report/certification.



Central Telemetry & Control Building

Central Telemetry & Control Building

SUBMITTAL FORM

CLIENT: MINISTRY OF PUBLIC WORKS
SANSARY ENGINEERING DEPARTMENT, STATE OF KUWAIT
Date: 19-10-2013

CONSULTANT: GULF CONSULT
CONTRACTOR: MUSHRAF TRADING & CONTRACTING CO.
CONTRACT NO: SC64
PROJECT: CONSTRUCTION & MAINTENANCE OF REMOTE MONITORING & CONTROL CENTER FOR THE FACILITIES OF SEWAGE NETWORK IN KUWAIT.

SUBJECT: APPROVAL FOR MLTB

FOR: Resident Engineer, Gulf Consult

19 OCT 2013

Item No.	Ref. Section & Clause	No. of copies	Item Description / Vendor / Supplier	Type	Code
1	000-1.1 000-1.2 000-1.3	3	MLTB manufacturing drawings	MDCT	1
			Manufacturer: Sahara Sewage Board Factory		
			Appointments: Manufacturing drawings MLTB unit D-1, D-1 but for calculation		
			US-1008 certificate		
			Product catalogue		

We certify that the items submitted here will have been reviewed in details and are in full compliance with contract drawings and specification except as otherwise stated.

Project Manager: [Signature] 24 OCT 2013

To: Resident Engineer, Gulf Consult

From: [Signature] 24 OCT 2013

Remarks: [Handwritten notes]

SUBMITTAL FORM

CLIENT: MINISTRY OF PUBLIC WORKS
SANSARY ENGINEERING DEPARTMENT, STATE OF KUWAIT
Date: 04-10-2013

CONSULTANT: GULF CONSULT
CONTRACTOR: MUSHRAF TRADING & CONTRACTING CO.
CONTRACT NO: SC64
PROJECT: CONSTRUCTION & MAINTENANCE OF REMOTE MONITORING & CONTROL CENTER FOR THE FACILITIES OF SEWAGE NETWORK IN KUWAIT.

SUBJECT: SOURCE APPROVAL FOR FIRE ALARM MATERIALS

FOR: Resident Engineer, Gulf Consult

Item No.	Ref. Section & Clause	No. of copies	Item Description / Vendor / Supplier	Type	Code
1	000-1.3	3	SOURCE APPROVAL FOR DISTRIBUTION BOARD	MDCT	1
			Manufacturer: SAHARA, KUWAIT		
			Remarks: Compliance statement, Certificate of test, Product catalogue		

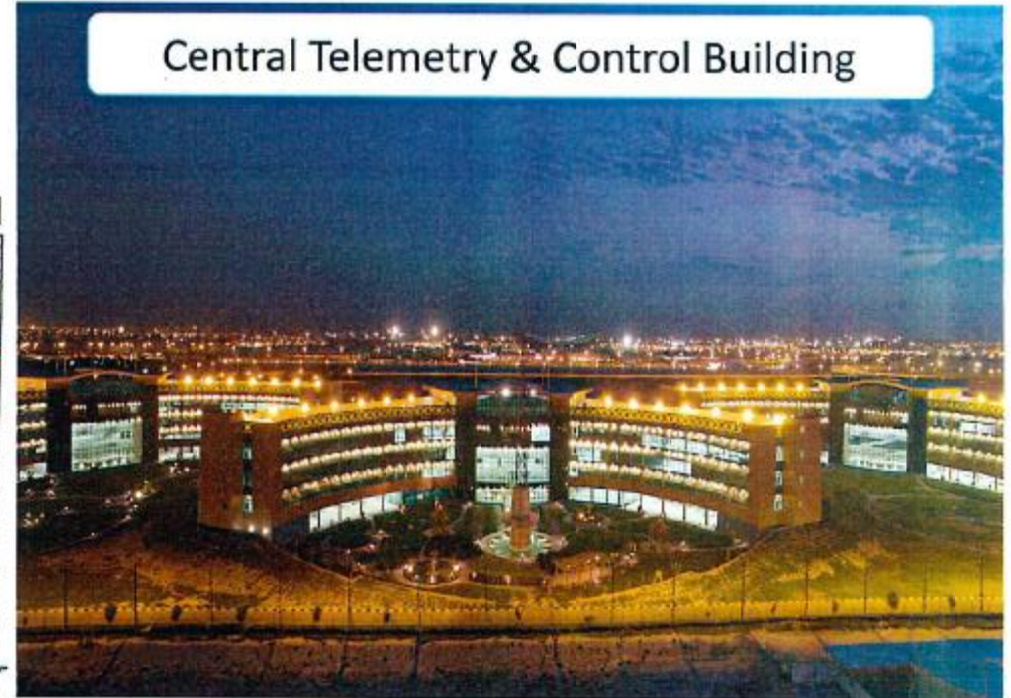
We certify that the items submitted here will have been reviewed in details and are in full compliance with contract drawings and specification except as otherwise stated.

Project Manager: [Signature] 04 DEC 2013

To: Resident Engineer, Gulf Consult

From: [Signature] 04 DEC 2013

Remarks: [Handwritten notes]



SAHARA

Al-Missilah Neighbourhood Center

Major Project With Ministry of Public Works (MPW)

Project Executed, 2016

A. APPROVED		C. NOT APPROVED		مادة مطبوعة		رقم العقد : 179 / 1		تمت في تاريخ التسليم	
B. ATTAS NOTED		D. RESUBMITTED		مادة مطبوعة		رقم العقد : 179 / 1		تمت في تاريخ التسليم	
Switch Boards & Distribution Boards				المواد		المواد		المواد	
Sahara Combined Gen.				المواد		المواد		المواد	
Section : 16423 & 16470				Manufacturer :		Sahara Switch Board Factory.		Sahara Switch Board Factory.	
Main Switch Boards & Distribution Board				Company profile Attached.		Company profile Attached.		Company profile Attached.	
1- The Sections to include Main Low Tension Switch Boards,				Full Specifications of The Enclosures and Components With Manufacturers		Full Specifications of The Enclosures and Components With Manufacturers		Full Specifications of The Enclosures and Components With Manufacturers	
Main Switch Boards, Submersible Switch Boards And Final Distribution Boards				3- Test Certificates of All Components and Whole Assemblies With		3- Test Certificates of All Components and Whole Assemblies With		3- Test Certificates of All Components and Whole Assemblies With	
2- Test Certificates of All Components and Whole Assemblies With				From Internationally Recognized Testing Authority		From Internationally Recognized Testing Authority		From Internationally Recognized Testing Authority	
3- Test Certificates of All Components and Whole Assemblies With				From Internationally Recognized Testing Authority		From Internationally Recognized Testing Authority		From Internationally Recognized Testing Authority	
From Internationally Recognized Testing Authority				From Internationally Recognized Testing Authority		From Internationally Recognized Testing Authority		From Internationally Recognized Testing Authority	
E- GEN-007 REV1, E-CKM-008-01				N/A		N/A		N/A	
SUP-EP-313-00,214,215,216				N/A		N/A		N/A	
PG-EP-306-B-0				N/A		N/A		N/A	
MEL-EP-202-B-0				N/A		N/A		N/A	
PO-EP-202-B-0				N/A		N/A		N/A	
SU-EP263-B-0				N/A		N/A		N/A	
SD-EP-202-B-0				N/A		N/A		N/A	
PAGE NO. III-45M16-1/RI-1C-2.3.4				N/A		N/A		N/A	
PAGE NO. III-47S16-1/RI-4PD16-3, III-47SD16-1				N/A		N/A		N/A	
PAGE NO. III-46SU16-1, III-46MU16-1				N/A		N/A		N/A	
Switch, Break, Control, Test and Commission The Main				N/A		N/A		N/A	
Distribution Boards, Main Switch Boards and Main Switch				N/A		N/A		N/A	
Boards and Final Distribution Boards to Give Full Electrical Power				N/A		N/A		N/A	
Supply for The Whole Project				N/A		N/A		N/A	



Al-Missilah Neighbourhood Center



SAHARA

Project Executed, 2016

Major Project With Ministry of Public Works (MPW)

The Government Centre for Testing & Quality Control



MATERIAL TRANSMITTAL FORM (Electricity)

MINISTRY OF PUBLIC WORKS SPECIAL PROJECTS ADMINISTRATION THE GOVERNMENT CENTRE FOR TESTING & QUALITY CONTROL CONTRACT # SPA - 255								
CLIENT: MPW To: MPW Site Office		SUB CONTRACTOR: Drasin & Seill Int-Co Date: 15/01/2016 Transmittal No: Elec - 07- Feb 02 Previous Transmittal No: Elec - 07- Feb 01						
ITEM NO	DESCRIPTION OF MATERIAL (TYPE, SIZE, MODEL, NUMBER, ETC.)	MANUFACTURER, COUNTRY OF ORIGIN	I.L.Q. REF	SPEC. REF. PARA NO.	CATALOGUE BROCHURE	DEVIATION FROM CONTRACT (IF ANY)		
1	Manufacture Drawing for MLTP-03 & 04 Supplier: Sahara Combined General Trade & Const. Co.	Schneider USA & Europ		16440	As per attached Manufacturing Drawings			
T.L./MPW Recommendation: ① Subject to MEW Approval. ② submit KWHM for MEW calibration. ③ Interlock for Stand By chiller shall be through BMS and to control HVAC Automatic Control Sequence. ④ MLTB Factory Test shall be witnessed by Engineer.				NAME & SIGNATURE OF CONTRACTOR: APPROVED: A APPROVED AS NOTED: B RESUBMIT: R NOT APPROVED: C INFORMATION REQUIRED: D				
NOTE: The Approved Does Not Release The Contractor From His Contractual Obligations.				Date: 13/01/2016 Signature: [Handwritten Signature]				

The Government Centre for Testing & Quality Control



Kuwait Institute for Judicial & Legal Studies

MINISTRY OF PUBLIC WORKS "KUWAIT INSTITUTE FOR JUDICIAL & LEGAL STUDIES" ENGINEER: MPW - SPECIAL PROJECT ADMINISTRATION TRANSMITTAL FOR DRAWINGS, DOCUMENTS SAMPLES, ETC.					
CONTRACT NO. : SPA/139 CONTRACTOR : Khalid Ali Al-Kharafi & Bros. Co.		NO. : MD-EL-11 REV. : 0 DATE : 05/12/2011			
TO: PROJECT ENGINEER. Att: Eng. MAZEN		SUBMITTED FOR CODE APPROVAL 1 YOUR INFORMATION 3 ACTION CODE APPROVED A APPROVED AS NOTED (C/A) 3 APPROVED AS NOTED BR NECESSIT C NOT APPROVED RE INFORMATION REQUIRE DR FOR INFORMATION ONLY U			
WE ARE SENDING HEREWITH / UNDER SEPARATE COVER, DOCUMENTS. WE CERTIFY THAT THE NEW LISTED ABOVE IS IN ACCORDANCE WITH THE CONTRACT OBLIGATIONS.					
QTY	DRWS, SPCE. OR NO. REF.	ITEM SEQ NUMBER	DESCRIPTION	TYPE	CODE
1	Div F 18 Sec. 16425 & 16470		Material: Switch & Distribution Board, Source / Manufacturer: - Cutler Hammer - (SAHARA Co.) Attachment:- - Compliance Statement - Panel Test Certificate - ACB, MCB, MCCB Product KEMA Test Certificate. - Component List - Catalogue.	MD	01 (B)
COPES TO: MPW <input type="checkbox"/> Eng. Wasim Contractor <input checked="" type="checkbox"/> Khalid Ali Al-Kharafi & Bros. Co.		SUB- CONTRACTOR CONTRACTOR Eng. Wasim Khalid Ali Al-Kharafi & Bros. Co.			
<p>1. SOURCE BATION - CUTLER HAMMER (SAHARA CO-KUWAIT) IS APPROVED.</p> <p>2. SUBMIT MANUFACTURER'S DRAWINGS FOR APPROVAL.</p> <p>3. SUBMIT DB AND SMSA SAMPLE FOR APPROVAL.</p> <p>4. SUBMIT SHOCK CIRCUIT CALCULATIONS.</p> <p>5. SAMPLES OF ALL NON-EATON ITEMS LIKE METERS, CONTACTORS, PUSES, CONTROL AND INDICATING UNITS SHOULD BE SUBMITTED FOR FINAL APPROVAL.</p>					
<p>CONDITIONS OF CONTRACT, ETC. shall be submitted during the review and before the date when the contract price with the contract terms and conditions and drawings and specifications. This shall be only for review of contract terms with the design content of the project and general compliance with the applicable laws and regulations. The contractor is responsible for carrying out all queries and clarifications relating to drawings, specifications and technical documents for cost, quantities, etc. and submitting the same to the MPW/Contractor.</p>					
COPES TO: MPW <input type="checkbox"/> CONTRACTOR <input checked="" type="checkbox"/>		<p>22/12/2011 DATE</p>			



Kuwait Institute for Judicial & Legal Studies



Man Power Headquarter Building (MPW)

THE HEADQUARTER FOR MANPOWER & GOVERNMENT RESTRUCTURING PROGRAM

SITE TRANSMITTAL

PROJECT : THE HEADQUARTER FOR MANPOWER & GOVERNMENT RESTRUCTURING PROGRAM
 CONSULTANT : DAR KURWI TECH CONSULTANT
 CONTRACTOR : COMBINED GROUP CONTRACTING CO

TRANSMITTAL NO. : HMO-OT-61.003 REV. 4
 CONTRACT NO. : S.P.A.F 103

TO : Consultant Resident Engineer

WE TRANSMIT HERewith UNDER SEPARATE COVER, THE DRAWINGS, CALCULATION ETC. LISTED BELOW:

ITEM NO.	DRWG SPEC. OR BIDDING REF.	QTY	DESCRIPTION	TYPE *	SUBMITTAL CODE	ACTION CODE
1	DEV 18 16445 & 16448	2	SWITCHGEARS (MLTB's, MSE's, SMSB's, CDB & ATSW) MANUFACTURING DRAWINGS FOR ELECTRICAL PANELS PRODUCT : CUTLER HAMMER - USA MANUFACTURER : Mr. Sahara Combined Gen. Trad. & Cont. Co.	QT	1	(B)

CONTRACTOR: *[Signature]* DATE: 26/11/2010
 RECEIVED BY: *[Signature]* DATE: 19/11/2010

Consultant Remarks: **Approved As noted:-**
 1- كورس جميع اللوحات الرئيسية والفرعية
 2- كورس جميع اللوحات الفرعية
 3- كورس جميع اللوحات الفرعية

RECEIVED BY CONTRACTOR: *[Signature]* DATE: 26/11/2010

COPIES: M.P.W. PROJECT ENGINEER

PRODUCTION RELEASED 01 MAR 2010

SAHARA COMBINED GENERAL TRADING & CONTRACTING CO.

SAHARA



Man Power Headquarter Building (MPW)



HAWALLY EDUCATIONAL BUILDING-247



وزارة الأشغال العامة
Ministry of Public Works



REP: ١٥٩٦٥١-٤٤٠
DATE: ١٥ يناير ٢٠١٢

المخترمين: شركة ذكركور للتجارة العامة والمقاولات لدم
رأس المالية 24759 الكويت من. ب. 36801

لجنة ومعد:

الوضوح: العقد رقم خدم 247/1 - استكمال تصميم وإنشاء وإدراج وصيانة
على منطقة حولي التعليمية
(امتداد لوجات التوزيع الكهربائي)

بالإشارة إلى المشروع أعلاه، رئيس كتابكم رقم 1127-1/12/13
وإلى الفيدback التي تم من إلتكم في سبتمبر الإبتداع التاسع بالبرخ
12/13/2011م الموافق ٢٠١١م، إنكم بواقفتكم على إحداد شركة / شركة مساهمة لشركة
التجارة العامة والمقاولات (إصناع صناعي لخدمة لوجات الكهرباء) - إصناع لوجات
التوزيعية المشروع أعلاه، ترحبكم بتمهيدات إقتراحية وإقتراحات تقنية لدم. إذ
الأصل قبل البدء بتنفيذها وإقتراحاتكم بالمشروع أعلاه.

وتفضلوا بقبول فائق الاحترام ...

الوكيل المساعد لشؤون المشاريع الإبتداعية
الهندسي
ياسين محمد طراج

المرسلات: كما هو بين أعلاه

ص. ب. 8 الكويت - إسمه 13041 - فون: 25385122 - فاكس: 25388829 - بريد إلكتروني: k@mpw.gov.kw
P.O. Box 8 Safa, 13001, Kuwait - Tel: 25385120 - Fax: 25388829 - Cable: Warka Kuwait

www.mpw.gov.kw

APPRECIATION	REMARKS	DATE	BY
1	Manufacturer Drawings for Main & Sub Main Switch Rooms (MSR & SBR)		
2	Sample for Sub Main switch board (SMB08.01)		
3	Sample of (SMB) 08.01		
4	Sample of (SMB) 08.01		
5	Sample of (SMB) 08.01		
6	Sample of (SMB) 08.01		
7	Sample of (SMB) 08.01		
8	Sample of (SMB) 08.01		
9	Sample of (SMB) 08.01		
10	Sample of (SMB) 08.01		
11	Sample of (SMB) 08.01		
12	Sample of (SMB) 08.01		
13	Sample of (SMB) 08.01		
14	Sample of (SMB) 08.01		
15	Sample of (SMB) 08.01		
16	Sample of (SMB) 08.01		
17	Sample of (SMB) 08.01		
18	Sample of (SMB) 08.01		
19	Sample of (SMB) 08.01		
20	Sample of (SMB) 08.01		
21	Sample of (SMB) 08.01		
22	Sample of (SMB) 08.01		
23	Sample of (SMB) 08.01		
24	Sample of (SMB) 08.01		
25	Sample of (SMB) 08.01		
26	Sample of (SMB) 08.01		
27	Sample of (SMB) 08.01		
28	Sample of (SMB) 08.01		
29	Sample of (SMB) 08.01		
30	Sample of (SMB) 08.01		



HAWALLY EDUCATIONAL BUILDING-247

SAHARA

Project Executed, 2012

Major Project With Ministry of Public Works (MPW)

The Headquarters of the Women Affairs Committee



A	APPROVED	C	NOT APPROVED	مراجعة	رقم الطلب	رقم الترخيص	رقم الترخيص
B	APPROVED	D	RESUBMIT	مراجعة	رقم الطلب	رقم الترخيص	رقم الترخيص
X				SWITCH BOARD	19-10-2011	EL-108(13)	19-10-2011
SAHARA COMPANY				مواصفات الشركة	مواصفات الشركة	مواصفات الشركة	مواصفات الشركة
Specification References:				SWITCH BOARD	مواصفات الشركة	مواصفات الشركة	مواصفات الشركة
SECTION 16 ELECTRICAL				MANUFACTURE DRAWING	مواصفات الشركة	مواصفات الشركة	مواصفات الشركة
SECTION 16-400-SWITCH BOARD				ALL PANELS MLTB-MSB-EMSB	مواصفات الشركة	مواصفات الشركة	مواصفات الشركة
ALL PANELS MLTB-MSB'S EMSB'S EMSB THE MAIN LOW TENSION SWITCH BOARD SHALL BE ASSEMBLED AND COORDINATE BY ONE MANUFACTURE AND SHALL BE ACCORDANCE WITH E.S 5486				AS REQUIRED THE SWITCH BOARD THE SWITCH BOARD SHALL CONTAIN THE ACB BUSBAR EARTH BUS	مواصفات الشركة	مواصفات الشركة	مواصفات الشركة
Contract Drawings:				Material Sample:	مواصفات الشركة	مواصفات الشركة	مواصفات الشركة
EL-21-R				ATTACHED AS MANUFACTURE DRAWING	مواصفات الشركة	مواصفات الشركة	مواصفات الشركة
Q.Q. References:				SECTION 16-400-SWITCH BOARD	مواصفات الشركة	مواصفات الشركة	مواصفات الشركة
مواصفات الشركة				مواصفات الشركة	مواصفات الشركة	مواصفات الشركة	مواصفات الشركة

Handwritten signature and date: 19-10-2011

Handwritten signature and date: 19-10-2011

The headquarters of the Women Affairs Committee



Expansion of Farwaniya Main Hospital

MST-709		MATERIAL SUBMITTAL FORM		Ref	SHHC-AB-ZATJAL-MST-01-00709
Rev	No	Rev	No	Date	3-May-2018
PROJECT: Design, Construction, Equipments, Furniture and Operational Maintenance for the Expansion of Al Farwaniya Hospital CLIENT: Ministry of Health - MOH Project Manager: Project Management International Systems - PMI Supervisor: Gulf Consult - GC Contractor: Sayed Hamid Bebbahari & Sons Co. - SHSC			PROJECT ID: 313 PM 53 CONTACT #: 45-2014/2022/MAY 2 plan H.O. #: AB Date # AB 10 MAY 2018 Subject: LT Switchgear Panels & Distribution Boards- M/A. Sahara Combined General Trading & Contr. Co.		
<input checked="" type="checkbox"/> Materials <input type="checkbox"/> Under Separate cover via		<input checked="" type="checkbox"/> Manufacturer's data (MS) <input type="checkbox"/> Material Certificate (MC) <input type="checkbox"/> Specification		<input type="checkbox"/> Approval <input type="checkbox"/> Combination <input type="checkbox"/> Information <input type="checkbox"/> Other	
<input type="checkbox"/> Architecture (AR) <input type="checkbox"/> Structural (SR) <input type="checkbox"/> HVAC <input type="checkbox"/> MECHANICAL		<input checked="" type="checkbox"/> Electrical (EL) <input type="checkbox"/> Other			
Draw. No.	Draw. Title	Description	Rev	Type	Action
1	28428	LT Switchgear Panels & Distribution Boards			
Attachments: <ol style="list-style-type: none"> MS & SHHC-AB-ZATJAL-01-01-01-01-01-01 MS Certificates Type Test Certificates SAHARA Strategic O&M alliance Partner with Autodesk Panel Builder Architectural Approvals Panel Boards Component Catalogue Copies 					
Additional Information: Approved L/S - Approved Subject to Comments This is a preliminary submission. The Contractor shall be responsible for providing the required information and documents in accordance with the requirements of the Contract Documents and as set forth in the Contract Documents.					
RECEIVED 03 MAY 2018 04 JUN 2018					
See Attached Comments					
Signatures: Approved by: [Signature] Project Manager: [Signature] Supervisor: [Signature] Contractor: [Signature]					
COPIES TO: <input type="checkbox"/> Client <input type="checkbox"/> PMI <input type="checkbox"/> PROJECT (PERSONNEL) / TRANSMITTAL					



Expansion of Farwaniya Main Hospital



New Al-Sabah Hospital

Major Project With Ministry of Health (MOH)



New Al Sabah Hospital

MINISTRY OF HEALTH
HOSPITAL EXPANSION PROJECTS

DOCUMENT TRANSMITTAL FORM (DTF)

Contract No: 18/2011/2012-11 Project: Design, Construction, Equipment, Furniture and Operational Maintenance for the New Al Sabah Hospital

TO: Ministry of Health (MOH) ATTN: Eng. Ibrahim Al Nahham TRN NO: QUD-ALSABAH-EL-00023 REV: 0
FROM: JV of Al Sager-Shapoorji Pallonji DATE: 19-Dec-2017

Copy Distribution
 Ministry of Health PM Consultant Other

WE ARE SENDING:		SUBMITTED FOR:		ACTION TAKEN:	
<input checked="" type="checkbox"/> Documents	<input checked="" type="checkbox"/> Approval	<input type="checkbox"/> A - Approved	<input type="checkbox"/> B - Approved as noted	<input type="checkbox"/> C - Approved with comments, Revise & Resubmit	<input type="checkbox"/> D - Not Approved
<input type="checkbox"/> Drawings/Sketch	<input type="checkbox"/> Review & Comments	<input type="checkbox"/> As Requested	<input type="checkbox"/> E - Information Required, Revise & Resubmit		
<input type="checkbox"/> Report	<input type="checkbox"/> Information Requested				
<input type="checkbox"/> Variation	<input type="checkbox"/> For Necessary Approval				
<input type="checkbox"/> Test Certificate	<input type="checkbox"/> Other:				
<input type="checkbox"/> Test Results					
<input type="checkbox"/> Sample					
<input type="checkbox"/> Other:					

RECEIVED
28 DEC 2017

Item No	Draws, Spec or BOQ Ref.	Item Seq. No.	Description of Submittal or Document Title	Copies
1	Sec-16422, 16346 & 16482		Source Approval for distribution Switch board, Circuit breaker and Motor control center Manufacturer: Switch board - SAHARA COMBINED Circuit breaker - Eaton (USA/Europe) Supplier: SAHARA Combined General Trading & Contracting Company	4 Set's 2 CD's

Subcontractor Name: Bador Al Mula & Bros. Co. Main Contractor: JV of Al Sager-Shapoorji Pallonji
Project Manager Name: Eng. Saadq Alshakar Project Director: Dr. Ayman Gattas
Signature: [Signature] Signature: [Signature]

Received By Recipient: [Signature] Date: [Date] Title: [Title]

REMARKS
Action: - B: Approved as noted

- M/s. SAHARA Combined General Trading & Contracting Company is approved as one of the specified manufacturers for Motor Control Centers, Main Low tension Panels, subject to full compliance with the Contract Specification sections 16426, 16346 & 16482.
- Source of materials used in manufacturing the Boards shall be the same as submitted.

Consultant PM MOH (THE OFFICER) Technical Drawn On

Consultants and contractors must receive a signature using this header on all forms. The Contractor must comply with the requirements of the contract documents. The Contractor is responsible for obtaining copies of all documents and dimensions before fabrication processes and installation, according to sets with 2nd of set taken.



SAHARA

Project Executed, 2008

Major Project With Ministry of Health (MOH)

Ghanima Hospital

5-3-08 : 05 Electrical Works
 رقم المشروع: 05
 رقم الطلب: HD/130
 من: يوسف أ. الخانيم
 تاريخ: 5/3/08

Material Approval Submittal

Item	Source	Spec. Ref.	B.C. Ref.	Gen. Spec.	Dr. No.
Electrical Panels, MO, 4 DB's		161300	III-4/16-3,4		FL-1370 EL-20
Panel Assembly Supplier	SAHARA-TM BUA	16425	4 5		
Components	Cullen-Hammer USA	16491			

A Approved
 B Approved as noted AS SOURCE
 C Not Approved
 D Information needed

Consultant Comments:
 REFER & COMPLY WITH THE TYPED REMARKS & THE ATTACHED SHEETS.
 [Signature]

Received by Consultant: [Signature] Date: 5/3/2008 Time: _____
 Received by Contractor: [Signature] Date: 1/1/2008 Time: _____
 Original for Contractor
 Copy for Ours

Consultant: [Signature] 15/3/08
 Resident Engineer: [Signature] 15/3/2008
 Owner Client: _____

KTCA/BOICSS/SAC/05-03



Ghanima Hospital



SAHARA

Project Executed, 2018

Major Project With Ministry of Health (MOH)

Sheikha Salwa Al Sabah Stem Cell & Umbilical Cord Centre



Sheikha Salwa Al Sabah Stem Cell & Umbilical Cord Centre

SSH | UBC

File UBC

TRANSMIT RECEIVED Project: SHEIKHA SALWA AL-SABAH CENTRE FOR STEM CELL AND UMBILICAL CORD Contractor: United Building Company Employee No: 2 OCT 2016 Ref: MD-ELC-04 REV 00 Engineer: SAHAR SSH INTERNATIONAL Date: 12-10-2018																		
WE ARE SENDING HERE WITH SAMPLE LISTED BELOW.																		
ITEM NO.	DRW, SPEC. OR BQ. REF	Description	TYPE	Action Code														
1	28230,282410	MANUFACTURING DRAWINGS OF MLTP,MSB,AND MCC FOR APPROVAL	MD	B														
		SUPPLY BY SAHRA CO.	3copy															
CONTRACTOR: <i>[Signature]</i> Date: 12.10.2018 RECEIVED BY: <i>[Signature]</i> Date: 12/10/2018 Engineer representative to enter action code and remarks: Remarks: <i>APPROVED AS NOTED</i> <i>Refer to the comments on attached sheet.</i> DCC Eng: <i>[Signature]</i> Date: 24/10/2018 RECEIVED BY CONTRACTOR: <i>[Signature]</i> Date: 24.10.2018																		
By No: <i>[Signature]</i> Signature: <i>[Signature]</i> Date: 24.10.2018																		
Distribution Table: <table border="1"> <thead> <tr> <th>Receiver</th> <th>To</th> <th>Detail</th> <th>Copy</th> <th>Engineer</th> <th>Detail</th> <th>Copy</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </tbody> </table>					Receiver	To	Detail	Copy	Engineer	Detail	Copy			<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>
Receiver	To	Detail	Copy	Engineer	Detail	Copy												
		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>												
TYPE: SD: Shop drawing SM: Sample GT: Guarantee MD: Manufactures data CT: Certificates OT: other M: Material																		
ACTION CODE: A: Approved D: Approved as Noted R: Rejected I: For information BR: Revise and Resubmit NA: Not Applicable																		



SAHARA

Project Under Execution, 2016

Ministries Complex Buildings, Kuwait (MOF)

Major Project With Ministry of Finance (MOF)

11 JAN 2015 التاريخ
الموافق
الرقم MOF-FU-0541-11
وزارة المالية
Ministry of Finance

السادة الشركة المتحدة الأولى للتجارة العامة والمقاولات المحترمين
تحية طيبة وبعد ،،،،،
الموضوع : العقد رقم (م/16/38 - 11867)
مشروع إنشاء وإنجاز وصيانة أعمال تأهيل وتطوير مبنى مجمع الوزارات
(طلب تقديم)
بالإشارة إلى الموضوع أعلاه ، وإلى طلب التقديم رقم (KL/OT/0005) بتاريخ 2014/12/31 (مرفق صوتي) بشأن اعتماد شركة/ صحارى - كمصدر لأعمال لوحدات كهرباء الضغط المنخفض بالعقد .
نفيدكم بالموافقة على اعتماد الشركة المذكورة أعلاه (Action B) كمصدر لأعمال لوحدات كهرباء الضغط المنخفض بالعقد شريطة الالتزام بشروط ومواصفات العقد وقواعد ومواصفات وزارة الكهرباء والماء والتقيد بأنواع التوليع الكهربائية المدرجة بالعقد وسعة تيار القصر لكل منها والالتزام بدرجات الحرارة المحيطة ، وذلك طبقاً لملاحظات الوزارة والإستشاري المرفقة .
مع أطيب التمنيات ،،،،،

وزارة المالية
11 JAN 2015
Received
11 JAN 2015
FUC

مجمع الوزارات - ص.ب. ٩٠ (الصفحة) - 13001 الكويت - www.mof.gov.kw - فاكس : ٢٢٤٠٤٠٢٥
Ministres Complex - P.O.Box: 9 (Salt) - Postal Code 13001 Kuwait - www.mof.gov.kw - Fax: 22404025



Ministries Complex Buildings, Kuwait

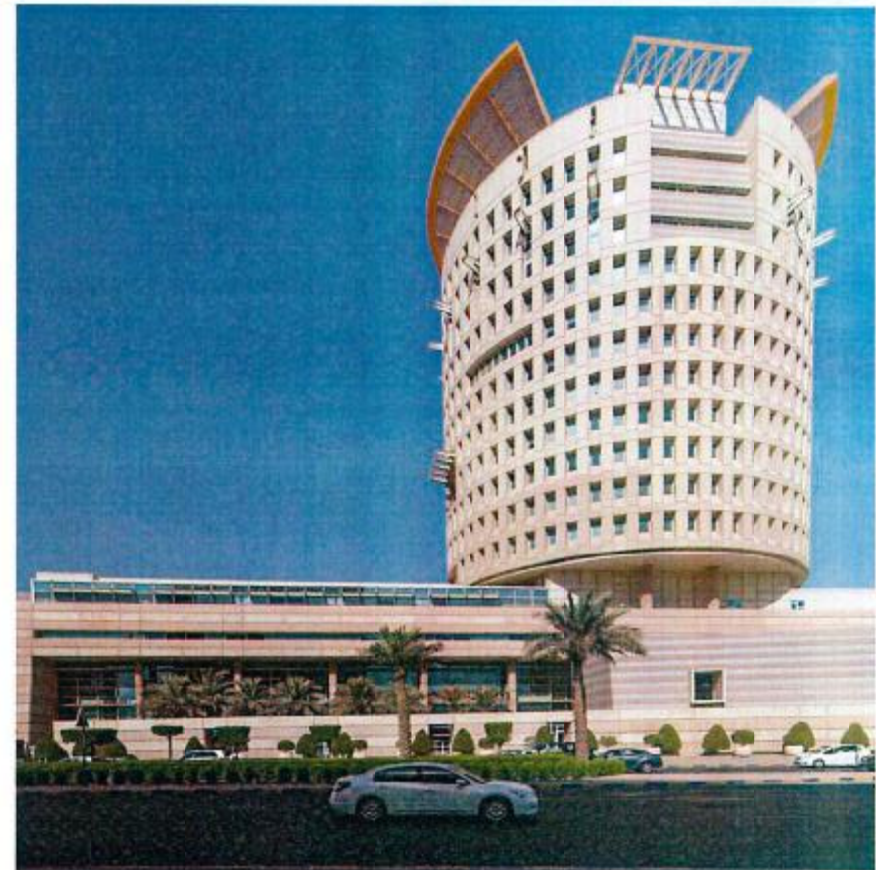


SAHARA

Project Executed, 2016

Kuwait Chamber of Commerce & Industry of
NEW Annex Building

Major Project With Kuwait Chamber of
Commerce & Industry



Kuwait Chamber of Commerce & Industry of NEW Annex
Building

File copy to Sahara with covering letter.

04 JAN 2016 pace
المكتب العربي للشؤون الهندسية والتجارة والمصناعات

Transmittal for Drawings, Document Samples, etc. (TR) SITE03-01
page 1 of 1

Project Title	Kuwait Chamber of Commerce and Industry Construction of New Annex		
Engineer	Pace		
Contractor	First United Gen. Trading & Cont. Co. W.L.L.	TR Number	KCC/MD/EL/010
Revisor	REV.05	Date	30/12/2015

Work to be submitted for approval is as follows:

1	DIVISION 26	262300	LOW VOLTAGE SWITCH GEAR AND SWITCH BOARDS, DBs / CONSULTING REPLY MANUFACTURING DRAWING, SHORT SHORT CIRCUIT CALCULATION, DBCC M/S SAHARA (KUWAIT)	MD	1	CS
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RECEIVED
30/12/15 15:18:23

Signature: [Signature]

Date: 30/12/2015

Sub-Contractor: Eng. Abdul Aziz Ghith
Contractor's P.M.: Eng. Omar Al Khaili

Engineer's Remarks:

- Approved as Noted (B)
- MLT Panel & all HVAC panels approved after submitting a final load and HVAC requirement.
- Sample panel should be submitted for final approved (DB, FP, Isolator, Control Panel)
- Coordinate with all other trades
- Comply with all related contract documents

Engineer's Sign: [Signature] Date: 04/01/2016



SAHARA

Project Executed, 2012

Major Project With Public Authority for Youth & Sports

Sheikh Saa'd Indoor Sports Hall Complex

رقم الطلب	رقم الطلب	رقم الطلب	رقم الطلب
1	4	ND	MATERIAL APPROVAL FOR:
		CT	1. Main Line Termination Boards
		CAT	2. Main & Submain Switchboards
<p>MANUFACTURER: EATON CUTLER HAMMER - USA / EUROPE LOCAL ASSEMBLER: Sahara Switchgear Co.</p>			
<p>APPROVED AS NOTED. TRANS. REF. DSK-DIA-EL-005 FOR MATERIAL APPROVAL OF MITSUBISHI BY H/S SAHARA SWITCHGEAR Co. REVIEWED ON THE BASIS OF THEIR SUBMISSION AND SOURCE ADDRESS. REFER ATTACHED ENGINEER COMMENTS FOR MATERIAL APPROVAL. DETAILED REQUIREMENTS OF COMPONENTS DEVICES AND TECHNICAL DATA WILL BE VERIFIED ON SUBMITTED FABRICATION DRAWINGS.</p>			



Sheikh Saa'd Indoor Sports Hall Complex



SAHARA

Project Executed, 2012

Major Project With Public Authority for Youth & Sports

Sheikh Saa'd Indoor Sports Hall Complex

رقم الطلب	رقم الطلب	رقم الطلب	رقم الطلب	رقم الطلب	رقم الطلب	رقم الطلب	رقم الطلب
1	4	ND	MATERIAL APPROVAL FOR:				
		CT	1. Main Low Tension Boards				
		CAT	2. Main & Submain Switchboards				
<p>MANUFACTURER: Eaton Cutler Hammer - USA / EUROPE</p> <p>LOCAL ASSEMBLER: Sahara Switchgear Co.</p>							
<p>APPROVED AS NOTED.</p> <p>TRANS. REF: DSK-DIA-EL-005 FOR MATERIAL APPROVAL OF M.T.B. MEMBERS BY M/s SAHARA SWITCHGEAR Co. REVIEWED ON THE BASIS OF THEIR QUALIFICATION FOR POWER APPROVAL.</p> <p>REFER ATTACHED ENGINEER'S COMMENTS FOR MATERIAL APPROVAL. DETAILED REQUIREMENTS OF COMPONENTS, DEVICES AND TECHNICAL DATA WILL BE VERIFIED ON SUBMITTAL OF FABRICATION DRAWINGS. <i>flg/20</i></p>							



Sheikh Saa'd Indoor Sports Hall Complex



SAHARA

Project Executed, 2011

PIFSS Branch @ Ardiya, Kuwait

Major Project With The Public Institution for Social Security (PIFSS)

Project: PIFSS Branch at Ardiya		Consultant: Al-Fakhri Consulting Office				
Owner's Rep: Wafiq Real Estate Company		Contractor: Safwan Al Kuwait				
SUBMITTAL FORM (SUB) - MT						
Date: 18/02/2011	By: Safwan	Submitted No.: PIFSS/AR/SA/01/SUB/01/01	Rev: 01/1			
We are hereby submitting the following submittals cover: (Engineer to enter ACTION CODE)						
Serial No.	Rev. No.	Qty., Spec. or R/W No.	Description	Qty/No.	Type	Action
1	01	10400	Distribution Equipment (LT Panels and ODBs) for Service Approval	3	MT	B
Manufacturer: Sahara Combined General Trade & ContCo, Kuwait. Make: EATON / Cutler - Hammer, USA & Europe. Note: Revised as per consultant comments						
Type	SUBMITTAL CODE	ACTION CODE				
SD	Submittal	A				
MT	Material	B				
LT	Letter	C				
OT	Other	D				



PIFSS Branch @ Ardiya, Kuwait



PIFSS Branch @ South Surra, Kuwait

Major Project With The Public Institution for Social Security (PIFSS)

Project: PIFSS at S Surra- Package -2	Consultant: Al-Hamad Consultancy Office
Project Manager: Wafa Real Estate	Contractor: First United General Trading
	Sub-Contract: Bader Al. Mulla

TRANSMITTAL FORM - MD

Date: 13/02/2013 Day: Monday Transmittal No.: PIFSS/POC/BP2/KD/ED/09 Rev - 4

Item No.	DRWS, SPEC. or SOI Ref.	Description	Copies	Type	Code	Action
1		ELECTRICAL WORKS				
		Manufacturer Drawings for 1. M.I.T# 1,2,3 & 4 2. Chiller Switching Panel (Manual) 3. Generator Panel	2	MD	1	B
		Supplier: Sahara Combined General Tract. & Const. Co, Kuwait Make: Eaton /Chiller-Hammer -USA & Europe				



Project Manager: Ahmad Alshaykh

RES Remarks: *Be co-ordinated.*

** BMS schedule of prints shall be co-ordinated.*

** Provide engraved name plates.*

Contractor or consultant shall refer to the information during this review does not release the Contractor from compliance with the requirements of the drawings and the Specifications. This sheet is only for reader's general comment of the project and general compliance with the information given in the contract documents. The Contractor is responsible for confirming and coordinating selection, fabrication process and technique of construction, co-ordinating the work with that of other trades and performing the work in safe and satisfactory manner.

Resident Engineer	Copy	Issued By (Resident Engineer)	Name: <i>Hisham Alwan</i>
Contractor	<input checked="" type="checkbox"/>	Signature: <i>[Signature]</i>	Date: <i>13/2/2013</i>
Received by the Contractor		Signature: <i>[Signature]</i>	Date: <i>13/2/2013</i>



PIFSS Branch @ South Surra, Kuwait



SAHARA

Project Executed, 2012

PIFSS Branch @ Ahmadi, Kuwait

Major Project With The Public Institution for Social Security (PIFSS)

L1 04148 FROM SADEEM RL KUWAIT TO 24765751 P.01/01

PIFSS Branch at Ahmadi
Contractor: Al-Nakhli Consultancy Office
Contractor: Bahwan Al-Khawalid

SUBMITTAL FORM (SUB) - MT

15/06/2011 Day: Wednesday Submitted No.: NPEDIA/MSA/SUB/MT/ELDERY Rev.: 001

Noting the following under separate cover (Engineer to enter ACTION CODE)

Qty, Spec, or BOQ Ref.	Description	Qty	Type	Action
18480	Source Approval For Distribution Equipment.		MT	B
	MANUFACTURER SATON Cyber Hammer.			
	Factory - Sahara - Kuwait			
	Attachment:			
	Catalogue	4		
	Source: Sahara - Kuwait.			

Type	SUBMITTAL CODE	ACTION CODE
CT	1 Certificate	4 Approved
PD	2 Project Description	5 Approved as Issued
SC	3 Construction Schedule	6 Approved as Revised & Resubmit
SM	4 Samples	7 Review & Resubmit
MD	5 Manufacturer's Data	8 Fabricated
	Project Manager	Received by: [Signature]
		Date & Time: 04 JUN 2011

Source SAHARA, accepted for Dist. Equipments.
Refer the comments on attached sheet.

Remarks made (with) to the submission during this review does not relieve the Contractor from compliance with the requirements of the drawings and the check is only for review of general concept of the project.

Issued By: (Resident Engineer)

Original: Copy:

Signature: [Signature]

Date: 29 JUN 2011

Time: 7:00 AM



PIFSS Branch @ Ahmadi, Kuwait

SAHARA

Project Executed, 2017

Major Project With Ministry of Justice (MOJ)

Public Prosecution Headquarters – PPHQ (MOJ)

مشروع إنشاء وتشييد وتشغيل وصيانة
مبنى النيابة العامة

وزارة العدل
إدارة التجهيز
التاريخ: 2016/05/12

تعليمات موقعه رقم (PPHQ-239/2016)

السادة / دار إس أن انترناشيونال للاستشارات الهندسية
مهاية المهندس/ حسام فرغل
" المهندس المقدم"
تحت إشراف السيد

المحترمين
المحترم

المشروع : مناقصة رقم (ر ع / 1-2011/2012) لإنشاء وتشغيل وتشغيل وصيانة مشروع مبنى مجمع النيابة العامة التابع لوزارة العدل الموضوع : اعتماد مصدر توريد بديل (SWITCH GEAR) للمشروع

بالإشارة إلى الموضوع أعلاه، وإلى كتابكم (SSH/MOJ/05027/581/HP) والموضوع في 2016/05/04 بخصوص إعادة تقديم المقاول طلب رقم (RFA-BE-04-REV-04) بتاريخ 2016/05/02 لاعتداد مصدر توريد بديل (SWITCH GEAR) كما يلي:

- MANUFACTURER: M/S SAHARA COMBINED GENERAL TRAD & CO. ENGINEERING.
- TRADE NAME: SAHARA SWITCH GEAR FACTORY
- SUBCONTRACTOR AND INSTALLER: KCCEC.

ويعد الدراسة وبناء على التوصية المقدمة منكم فإنكم علماً بأنه لا مانع لدينا من اعتماد مصدر التوريد البديل المذكور أعلاه شريطة الآتي:

• ACTION: (B)

- 1- التزام المقاول بالشروط والمواصفات التعاقدية والتعليمات المهندس
- 2- عتد الإعتداد لمصدر التوريد فقط وليس للمكونات الداخلية للوحدات
- 3- إصدارة لتقديم المواصفات الفنية للمكونات الداخلية لجميع الوحدات الكهربائية طبقاً للمواصفات الفنية التعاقدية وذلك مع المخططات التصنيعية للوحدات الكهربائية
- 4- تقديم مقارنة مالية بين المصدر الموصى به والمصدر المقترح
- 5- التزام المقاول بملاحقكم المرفقة مع طلب الإعتداد السابق ذكره

ويطلب منكم مخاطبة المقاول بذلك وإرفاق تذاكره الموقعة له
شكركم
حسن تعاونكم

له
م. حسام أمين أحمد
12 MAY 2016
ENG. AHMAD AMIN AHMED
Deputy Project Engineer

هذه التعليمات خاصة بأعمال التجهيز فقط، وأن هذه التعليمات لا تلزم بأي حال من الأحوال على من ارسله أو أي طرف من أطرافه
إن مرفقة الوزارة أو المهندس على أي جزء من ذلك أو أية مرفقة منه إن أرسل أو كلف الاستشاري من أي من أطرافه أو تذاكره عن صحة وسلامة المشروع



Public Prosecution Headquarters (PPHQ)



PUBLIC AUTHORITY FOR APPLIED EDUCATION & TRAINING (PAAET)
SHUWAIKH NEW CAMPUS PROJECTS

Transmission No. AESSMOT/11222
Rev:01
Date: 29-Sep-13

Contractor: Real Estate Construction & Fabrication Co. Sdn. Bhd.
Contract: Construction & Maintenance of AESS Building
Contract No: PAJ/FA73-2008/2009

Project: AESSB

Transmittal No. AESSMOT/11222
Rev:01
Date: 29-Sep-13

1. SUBMITTED FOR APPROVAL
2. YOUR INFORMATION
3.

ACTION
A. APPROVED
B. APPROVED AS NOTED
C. NOT APPROVED
D.

WE ARE SENDING HERewith DOCUMENTS THAT COMPLY WITH THE CONTRACT DOCUMENTS

SPEC. or BIDD. REF.	DRAWING NO.	QTY	YEAR NO. No.	DESCRIPTION	TYPE	CODE	Action
16400		1+3		Manufacturers Drawings for MLTPs Attachments: Manufacturers Drawings for: 1) MLTP-28.1/S & MLTP-28.5/S 2) MLTP-28.3/S & MLTP-28.4/S 3) MLTP-28.2/S & MLTP-28.6/S 4) MLTP-28.7/S Location: Student Services Building Contractor: RECAFCO Sub Cont: Bader Al Mulla & Bros. Co. Related Submittal:	(DT)	(B)	B

RECEIVED 29 SEP 2013

RECEIVED 03 OCT 2013

RECAFCO

13 OCT 2013

For: (RECAFCO) Eng. Waleed Al-Ramady, Construction Manager's, Date: 26.09.2013
A/E to enter Action Codes and Remarks, and return to Contractor

(B) Approved as Noted

- All MLTP's Door & Cover should be 2mm not 1.5mm.
- For MLTP No. 28.7/S feeder for GFP-28.7/S2 should be 60A as per the approved shop drawing and not 40A.
- Coordination should be done with RMS Subcontractor and as per the approved Schedule of points and approved shop drawing.
- Coordination with all trades should be done and provided in the panels as per the Contract documents.
- Comply with all the Contract documents of the Project and MEW regulations and Specifications.

waleed -> to forward the same to M/S SAHARA Co for manufacturing of MLTP's ASAP.

Corrections or comments made relative to submittal during the review should refer the submittal from compliance with the requirements, drawings and specifications. This check is only for review or general compliance with the design review of the project and general compliance with the submittal given in the contract documents. The contractor is responsible for confirming and verifying all quantities and dimensions including fabrication processes and techniques of construction coordinating his work with that of other trades, and performing the work in a safe and satisfactory manner.

For: A/E (JOSCC) Date: 7-10-13

1. Submittal Code to be entered by Contractor
2. Action Code to be entered by A/E

Submittal Type: 00 = Shop Drawing; 01 = Samples; 02 = Technical Statement; 03 = Manufacturer's Data
04 = Mock-up; 05 = Supplier/Sub-contractor; 06 = Others (DT, CT, GC, MC)



Nursing Institute-PAAET

**PUBLIC AUTHORITY FOR APPLIED EDUCATION & TRAINING (PAAET)
SHUWAH NEW CAMPUS PROJECTS**

TRANSMISSION OF DRAWINGS, DOCUMENTS, SAMPLES, ETC.				Transmitter No. 11/071/10			
Generation: Real Estate Construction & Fabrication Co.				Rev: 00			
Contract: Nursing Institute				Date: 26/12/10			
Contract No.: PAJ AFA / 112 - 2008 / 2008				1. SUBMITTED FOR APPROVAL			
To: The Engineer (PAAET) SITE OFFICE				YOUR INFORMATION			
				3			
WE ARE SENDING HERewith DOCUMENTS THAT COMPLY WITH THE CONTRACT DOCUMENTS				2. ACTION			
				APPROVED			
				APPROVED AS NOTED			
				NOT APPROVED			
				D			
SPEC. OR DOC. REF.	DRAWING NO.	QTY	ITEM SIG No.	DESCRIPTION	TYPE	CODE	Action
10441, 10442 & 10449		1+3	1	Source Approval for Switchboards System	(OT)	(S)	B
				Manufacturer: Cutler Hammer USA/SAHARA			
				Supplier Name: Mr. SAHARA, Kuwait			
				Location / Building			
				Encl: Company Profile & Technical Catalogue			
				Contractor: RECAFCD			
				Sub-Contractor: Mr. Drake & Bull Inc.			
				Related Submittal:			
				COPIES PAAET (The Engineer) <input checked="" type="checkbox"/> CM (TP) <input checked="" type="checkbox"/> ASE (DAG) <input checked="" type="checkbox"/>			



RECAFCD (Eng. Mohamed Abdul Rahman, Project Manager) Date: 26/12/10

REMARKS:
 Nil - Transmitted # 1132/1
 1. Switchboards and Panel Boards manufactured by Cutler Hammer-USA/Sahara is approved (subject to full compliance with all related contract documents)
 2. The above is for source approval only.
 3. Start submittal of all technical data.

FOR: The Engineer (PAAET) Date: 4/1/2011

1. Submittal Code to be entered by Contractor
 2. Action Code to be entered by ASE

Submital Type: SD = Shop Drawing, SD = Sample, MS = Material Statement, MD = Manufacturer Data
 MS = Material MS = Material Submittal, OT = Others (OT = TT, CT, GT, WT)



Nusing Institute -PAAET



SAHARA

Project Under Execution, 2018

Electricity & Water Training Institute –EWTI
(PAAET))

Major Project With Public Authority for Applied
Education & Training (PAAET)

PUBLIC AUTHORITY FOR APPLIED EDUCATION & TRAINING (PAAET)
SHUWAIKH NEW CAMPUS PROJECTS

TRANSMISSION OF DRAWINGS, DOCUMENTS, SAMPLES, ETC.

Contractor: HDT Engineering & Construction Co.
Contract: Construction, Removation, Operation & Maint. of Est. of EWTI
Contract No.: PAAET-2018004

EWTI

Transmittal No. EWTIMD033
Rev. 2
Date: 27.2.2018
1. SUBMITTED FOR CODE
APPROVAL 1
YOUR INFORMATION 2
J 3
2. ACTION
APPROVED A
APPROVED AS NOTED B
NOT APPROVED C
D

AM I/WE SENDING HERewith DOCUMENTS THAT COMPLY WITH THE CONTRACT DOCUMENTS

SPEC. OR BOUL. REF.	DRAWING NO.	QTY	ISSUE NO.	DESCRIPTION	TYPE	CODE	Submitter 1	Action
16441		1+3	1	Material data of LV Switchboards	SDI	1		
16442				Reply of Consultant Comments Via Transmittal # EWTIMD033 Rev 01 Make - WU EATON - (QIBANUHO) SPEC INTERNAL DATA Location - Building A, S, US SAR, DUBAIC, UAE Engineering & Construction Co. Refered Submittal - EWTIMD033 Rev 01				
16443								

Prepared by: HANISAH bin Fawzi Haidi (Project Manager) - Cyber
Date: 27.2.2018

AVC to enter Author Codes and Remarks, and return to Contractor

REMARKS:

Action (B) Approved as Noted.

Refer to the attached comments.

Handwritten signature and date: 25-02-2018

Contractor's documents submitted to our office should be reviewed and returned to the contractor's compliance with the requirements of the contract and specifications. The contractor is responsible for ensuring that all drawings and documents comply with the contract documents and specifications, including the work without of other's office, and the contractor is responsible for ensuring that all drawings and documents comply with the contract documents and specifications.

For: All	Date: 13-3-2018	COPIES
1. Electrical Code (to be returned by Contractor)	Date of Issue: 03-03-2018	Quantity (Spec. Enquiry) Y
2. Form to be returned by (AVC)	03-03-2018	Quantity (Spec. Enquiry) Y
		Quantity (Spec. Enquiry) Y



Electricity & Water Training Institute –EWTI
(PAAET))

Special Training Center (PAAET)

Major Project With Public Authority for Applied Education & Training (PAAET)

PUBLIC AUTHORITY FOR APPLIED EDUCATION & TRAINING (PAAET)
Shuwaikh New Campus Projects

REQUEST FOR ALTERNATIVE OR SUBSTITUTION

TO: PAAET (THE ENGINEER)	CC: CM (TP) <input type="checkbox"/>	A/E (KEO) <input type="checkbox"/>
Contract: Special Training Center	Request No. 33 Rev. 1	
Contract No. PAA/FA/78/2004/2005	Date: 20.04.07	
Contractor: Neal Estalis Construction & Fabrication Co., S.A.K.		

This submittal will not be reviewed unless the Contractor complies with the minimum submittal requirements of Document 65-A, Section 0153, Clause 1.35A-4b (Construction Method), Clause 1.03A-4c (Contractor's cost), Clause 1.33A-4f (cost overruns) & Clause 1.05A-4g (Contractor's error).

PROPOSED ALTERNATIVE OR SUBSTITUTION:

PRODUCT METHOD OF FABRICATION METHOD OF INSTALLATION

Specified Product: Low Voltage Switchboards, Distribution boards, Motor Control centers, A.T.S.
 Proposed Product: Low Voltage Switchboards, Distribution boards, Motor Control centers, A.T.S.
 Spec Section #: 1644T, 1644Z, 16443, 16415 Article #

Specified Manufacturer: For Components ABB & M O & Siemens/ABB plant Al-Anbala, CDMAC/Switch Board S.M Al-Haf
 Proposed Manufacturer: CULLEN FRASER - USA 75030904
 Brief Product Description: Electrical Low Voltage Switch Gear.

REASON FOR PROPOSED ALTERNATIVE OR SUBSTITUTION:
 Better Delivery Terms and more advanced manufacturing process up to latest technology.

COST AND TIME SAVINGS:

COST	No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>
TIME	No <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>

DATE: 30 APR 2007

THE CONTRACTOR CERTIFIES AND UNDERTAKES THAT:

- Some materials will be furnished by proposed alternative or substitution as for specified product.
- Some substitute services and extent of replacement parts, as applicable is available.
- Cost data as stated above is complete. Claims for additional costs or time related to accepted alternative or substitution which may subsequently become apparent are to be waived. Other costs to other disciplines and/or contractors shall be borne by the Contractor.
- Proposed alternative or substitution does not affect dimensions and functional clearances.
- The cost for all changes to design, including architectural or engineering design, analysis, and construction cost including authorizing approvals, issued by the requester alternative or substitution shall be fully the responsibility of the contractor at no cost to the employer.
- Coordinating, installation, and changes to the Plans as necessary for accepted alternative or substitution will be complete in all respects.

THE CONTRACTOR FURTHER ACKNOWLEDGES THAT APPROVAL FOR ALTERNATIVE/SUBSTITUTION DOES NOT WAIVE HIS OBLIGATIONS TO THE EMPLOYER AS DETAILED IN DOC. 16-2 SECTION 01532

RECAFCO'S PM: [Signature] DATE/TIME: 20/04/07
 Received by A/E (KEO): [Signature] DATE/TIME:

REVIEW AND ACTION BY THE ENGINEER:

Approved Not Approved Approved as Noted Incomplete Data Resubmit

Request received too late Other

ADDITIONAL COMMENTS:
 1. Source approved. Proceed with technical submittals for A/E review and approvals.
 2. Substantiate cost savings by providing specified and proposed manufacturers quotations.

PAAET (The Engineer): [Signature] DATE/TIME: 20/05/2007

THE APPROVAL OF ANY ALTERNATIVE/SUBSTITUTE PRODUCT/METHOD SHALL BE SOLELY AT THE DISCRETION OF THE ENGINEER AND SUCH APPROVAL SHALL IN NO WAY RELIEVE THE CONTRACTOR OF ANY OF HIS LIABILITIES AND OBLIGATIONS UNDER THE CONTRACT. THIS APPROVAL DOES NOT EXALTE ANY ADDITIONAL COST OR TIME.

CC: CM (TP) A/E (KEO)



Special Training Center (PAAET)

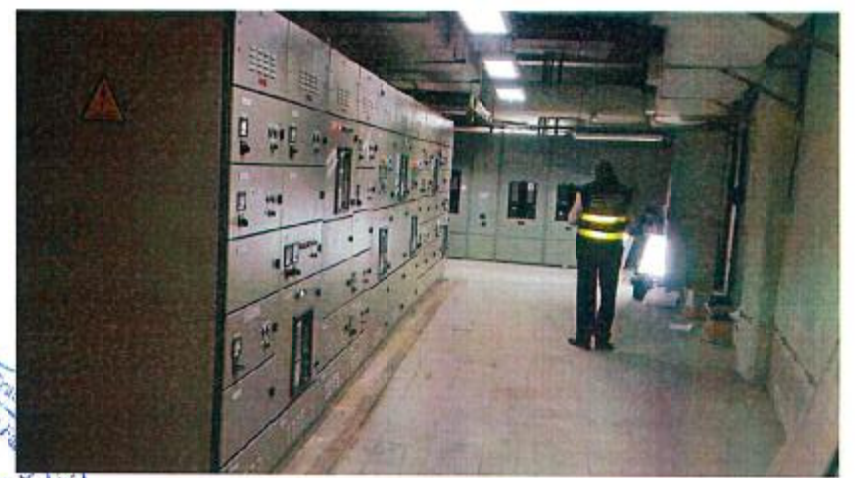
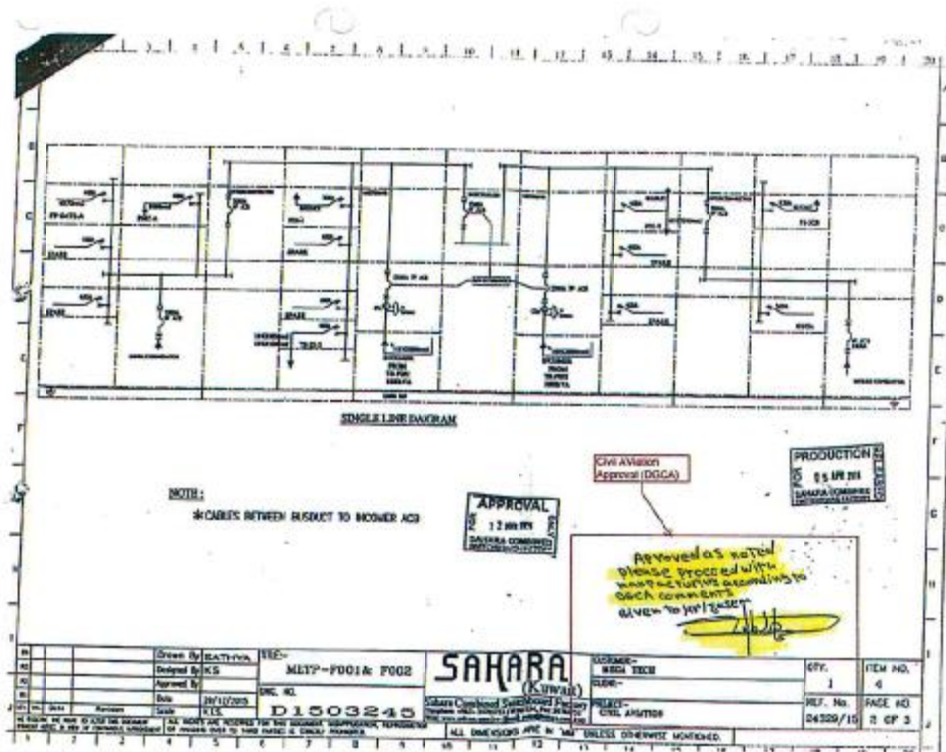


SAHARA

Project Executed, 2017

Runway substations of Kuwait International Airport (KIA) (DGCA)

Major Project With Directorate General of Civil Aviation (DGCA)



Sabah Al-Salem University City - Kuwait University
ADMINISTRATION FACILITIES (ADFA)



Sabah Al-Salem University City
-Kuwait University
ADMINISTRATION FACILITIES
(ADFA)



SABAH AL-SALEM UNIVERSITY CITY - KUWAIT UNIVERSITY TRANSMITTAL FORM						
NBS (Package) C660		CONTRACT NO. HUNUCPC080014-15		TRANSMITTAL NO. ADFAOT/173E		
CONTRACT Administration Facilities		CONTRACTOR CSCEC - CDC		REV. 2 DATE 09-JUL-17		
TO: NUOP						
WE ARE SENDING		SUBMITTED FOR		SUBMITTAL STATUS CODE		
<input type="checkbox"/> SD - Shop Drawing		<input type="checkbox"/> Approval		<input type="checkbox"/> A - Approved		
<input type="checkbox"/> MD - Manufacturer's Data		<input type="checkbox"/> Information		<input type="checkbox"/> B - Approved As Noted		
<input type="checkbox"/> SM - Sample				<input type="checkbox"/> C - Review and Resubmit		
<input type="checkbox"/> QT - Quantities / Warranties				<input type="checkbox"/> F - Rejected		
<input type="checkbox"/> DT - Details				<input type="checkbox"/> R - For Information / Others		
<input type="checkbox"/> TT - Test						
<input type="checkbox"/> OT - Others						
ITEM	SPECIFICATION or DRAWING NO.	COPIES	DATE	DESCRIPTION	STATUS	
1	Sec. 31.303100	1 Original 3 Copies 1 CD	09 July 2017	Service ELECTRICAL - Source Approval for - Switchboard and Panel Board Supplier Sabara Co. Manufacturer By: M/S. Eaton - USA		
This Submittal Material is for All Buildings.						
Prepared By Signature: <i>[Signature]</i> Date: 09/07/2017			Received By Signature: _____ Date: _____			
REVISIONS / REMARKS						
<p>Action "B" Approved As Noted</p> <p>Please refer to the attached TP's and SCM-Pace's comments.</p>						
Action By Signature: <i>[Signature]</i> Date: 06/07/2017			Received By Signature: _____ Date: _____			
Distribution: NUOP <input type="checkbox"/> FMCH <input type="checkbox"/> AE <input type="checkbox"/>						

Sabah Al-Salem University City - Kuwait University
Academic Support Facilities-(ACSF)



		SABAH AL-SALEM UNIVERSITY CITY - KUWAIT UNIVERSITY TRANSMITTAL FORM															
WBS (Package) C1010 CONTRACT NO. KUUCPC1010/13-14 CONTRACTOR Academic Support Facilities - Package #01 CHAWA STATE CONSTRUCTION ENGINEERING CORPORATION/ASCP	TRANSMITTAL NO. ACSF/02271 REV. 3 DATE 06.09.2018																
TO : The Director of Kuwait University Construction Programme (KUUP)																	
WE ARE SUBMITTING		SUBMITTED FOR		SUBMITTAL STATUS CODE													
<input type="checkbox"/> SD - Shop Drawing <input type="checkbox"/> MD - Manufacturer's Data <input type="checkbox"/> CD - Sample <input type="checkbox"/> DT - Drawings / Memoranda <input type="checkbox"/> LT - Letter <input type="checkbox"/> OT - Others		<input checked="" type="checkbox"/> Approval <input type="checkbox"/> Information		A - Approved B - Approved As Noted C - Review and Re-submit N - Rejected I - For Information / Others													
NO. SPECIFICATION or DRAWING NO. COPIES DATE DESCRIPTION STATUS	<table border="1"> <tr> <td>01</td> <td>01-01-01</td> <td>2</td> <td>08.09.2018</td> <td>Source & Material Approval for MAINFLOW TEST ON PANELS, PANELBOARDS, MOTOR CONTROL CENTERS</td> <td></td> </tr> <tr> <td>02</td> <td>01-01-02</td> <td>2</td> <td>08.09.2018</td> <td>Reply to consultant comments via Transmittal No. ACSF/02271 REV.02</td> <td></td> </tr> </table>					01	01-01-01	2	08.09.2018	Source & Material Approval for MAINFLOW TEST ON PANELS, PANELBOARDS, MOTOR CONTROL CENTERS		02	01-01-02	2	08.09.2018	Reply to consultant comments via Transmittal No. ACSF/02271 REV.02	
01	01-01-01	2	08.09.2018	Source & Material Approval for MAINFLOW TEST ON PANELS, PANELBOARDS, MOTOR CONTROL CENTERS													
02	01-01-02	2	08.09.2018	Reply to consultant comments via Transmittal No. ACSF/02271 REV.02													
Prepared By: Yang Chuanren Signature: Date: 08/09/2018																	
Received By: Signature: Date: 08 SEP 2018																	
RESPONSE / REMARKS <p style="text-align: center;">Action "B" Approved as Noted</p> <p>Please refer to TP's and DAH-SSH's comments:</p> <p>TP's Transmittal ref # TR/KUCP/TRA/C1010/16346 dated 28/Sept/2018</p> <p>DAH-SSH's Transmittal ref #K10012/ACSF-PL/TP/OT/0188 Rev.02 dated 19/Sept/2016</p>																	
Issued By: Signature: Date: 08/09/2018		Received By: Signature: Date: 08/09/2018															
Distribution: KUUP <input type="checkbox"/> FMCM <input checked="" type="checkbox"/> AC <input checked="" type="checkbox"/>																	



Sabah Al-Salem University City - Kuwait University
Academic Support Facilities-(ACSF)

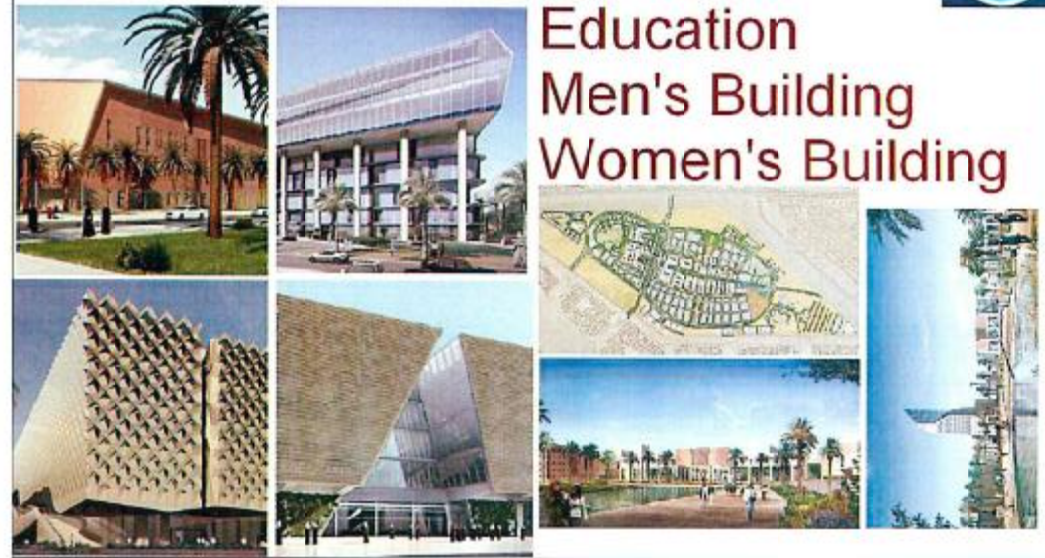
College of Education
Men's Building & Women's Building

Sabah Al Salem University City
Kuwait University



College of Education
Men's Building
Women's Building

SABAH AL-SALEM UNIVERSITY CITY - KUWAIT UNIVERSITY					
TRANSMITTAL FORM					
W/SR (Package): 0660			TRANSMITTAL NO. CDABOT-0874		
CONTRACT NO. KLJN/CPC/066/10-11			REV. 061		
CONTRACTOR: College of Arts & College of Education			DATE: 01-Apr-12		
TO: The Director - Kuwait University Construction Programme (KUCP)					
WE ARE SENDING		SUBMITTED FOR		SUBMITTAL STATUS CODE	
<input type="checkbox"/> SD - Shop Drawing		<input checked="" type="checkbox"/> Approval		A - Approved	
<input type="checkbox"/> MD - Manufacturer's Data		<input type="checkbox"/> Information		B - Approved As Noted	
<input type="checkbox"/> SM - Sample				C - Review and Re-submit	
<input type="checkbox"/> QT - Guarantee / Warranties				H - Rejected	
<input type="checkbox"/> CT - Certificate				I - FOR INFORMATION	
<input type="checkbox"/> TT - Test					
<input checked="" type="checkbox"/> OT - Others					
ITEM	SPECIFICATION or DRAWING NO.	COPIES	DATE	DESCRIPTION	STATUS
1	Specs 18441, 18452, 18411, 18462	3	06-Apr-12	Source approval for: SWITCHBOARD PANELS OUTLET NUMBER (2 & 3) SATON TABULA (EUROPE) SWISSMA (RUSSIA)	
For Sabah CDD-N (Contractor)					
Received By: Signature: _____ Date: 05.04.2012			Received By: _____ Signature: _____ Date: _____		
RESPONSE / REMARKS					
Action B - "Approved As Noted" Please refer to the attached comments of TP & DAH-SSH.					
Action By: _____ Signature: _____ Date: April 24, 2012			Received By: _____ Signature: _____ Date: _____		
Copy to: <input type="checkbox"/> KUCP <input type="checkbox"/> Attached <input checked="" type="checkbox"/> PWCM <input type="checkbox"/> Attached <input type="checkbox"/> All <input type="checkbox"/> Attached					



College of Education
Men's Building & Women's Building



SAHARA

Wafra Housing Complex-02, Kuwait

Major Project With Building Construction in Kuwait



Project: Wafra Housing Complex 02 (Wafra Living)
 Project Manager: Wafra Real Estate Company
 Engineer: AGI Architects / REO

Contractor: First United General Trading & Contracting Co.
 Bid Pack No.:
 Sub-Contractor: Gulf Engineering Co.

SUBMITTAL FORM (SUF)

Date: 05/03/2018 Day: Monday Submittal No.: SUB-ELEC-MD-013

We are hereby submitting the following under separate cover: (Engineer to enter AO (SUF) code)

Item ID	Item Rev. No.	Rev. Date	Description	Codes	Type	Action
1	1	15/03	* Manufacturing Drawing for M. L. T Panel. * Manufacturer: EATON - U.S.A * Supplier: Sahara Co.	3	MD	B

CO	Draw Desc	TYPE	Manufacturer's desc	SUBMITTAL CODE	ACTION CODE
MR	Monthly Report	RD	Permit Literature	2	Approved
MT	Material	RD	Method of Statement	2	Approved as Noted
QT	Quantity	SCH	Construction Schedule	0	Review, & Resubmit
OT	Other	LOG	Log	0	Rejected
MA	Minutes of Meeting	CV	Certificate	0	Rejected

Project Manager: Signature: Received by RE: Signature: Date & Time:

RE's Remarks: *Approved As Noted*

- All L.T. Panels to be integrated with BMS as status.*
 - To be coordinated with the BMS Dept. Regularly.*
 - L.T. Panels to inspected on a regular basis.*
 - Per the requirements of contract documents subject to comply with contract documents.*
- Comments of contractor shall be submitted during site review that not release the contractor from compliance with the requirement of the drawings and specifications. THE CONTRACTOR shall review of general conformances with the design concept including and considering all questions and discussions, selecting fabricated steel and materials of construction, coordinating his work that of construction, and performing his work in a safe and satisfactory manner.*

Contractor: Signature: Date: 13.2.18
 Received by the CONTRACTOR: Signature: Date:
 Name: Time:



Noted
 14/2/18



Wafra Housing Complex-02, Kuwait

Project Under Execution, 2018

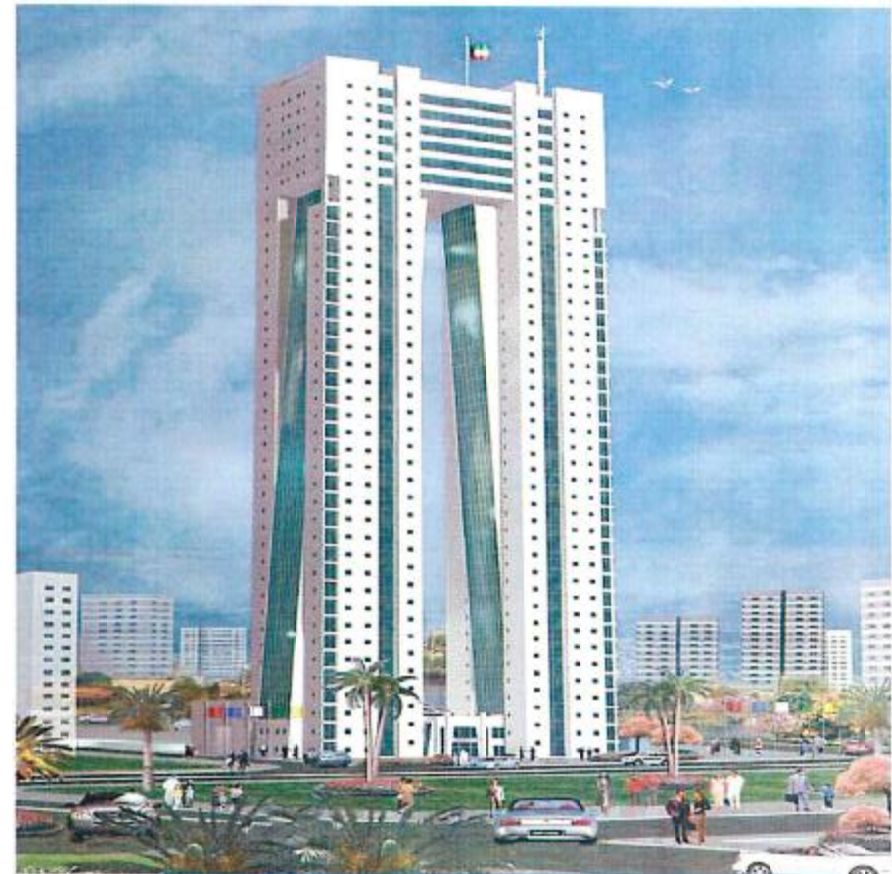


SAHARA

Project Executed, 2011

Twin Tower @ Kuwait City, Kuwait

Major Project With Building Construction in Kuwait



Twin Tower @ Kuwait City, Kuwait

Attn: Eng. Keywe / Eng. Yaseen

Client: Waha Real Estate Company	Contractor: Waha Real Estate Company	Sub-Contractor: Waha Real Estate Company
Project Manager: Waha Real Estate Company	Est. Pack No.:	
Engineer: Al-Habib Consultants Office	Sub-Contractor: Bader Almutla & Sons, W.L.L.	

SUBMITTAL FORM (SUB) - MD *2 pages*

Date: **13/06/2010** Day: **SUNDAY** Submittal No.: **7/2010/0000000000000000** No. of: **0**

We are hereby submitting the following under separate cover (Requester to enter ACTION code)

Item ID	Item Desc. No.	Fig., Spec., or S.O.C. Ref.	Description	Codes	Type	Action
1	0	Division 18.	Source Approval for Panel Boards (MLTB, MDD3, SMDS3 & DB3)			
		16400	1. Components Product Data	S	MD	
		G 030, M 020,	Make: Cutler - Hammer - U.S.A.			<i>B</i>
		M 030, M 070	2. Compliance Statement	S	MD	
		M 080	Switchgear Assembly			
			M/s Bahara Combined Gen. Trad & Cont. Co Kuwait			

Type	Submittal Code	Action Code
3D	1	A
SM	2	B
LET	3	C
GT	4	D
OT		

Client Representative: *[Signature]* Signature: *[Signature]* Received by RE: *[Signature]* Date & Time: *15/6/10 1:30*

RE: Remarks: **APPROVED A.S. NOTED**
Refer and comply with comments on the attached 3 hard.

Resident Engineer: **SAHARA Engineering Group RECEIVED** Copy: Original: Date: *15/6/10*

Received by the Contractor: *[Signature]* Signature: *[Signature]* Date: *15/6/10* Time: *2:00*



SAHARA

Project Executed, 2017

Project With Building Construction in Kuwait

Levels Tower @ Salmiya, Kuwait

The Triple General Trading & Contracting Co.
Construction of Levels Tower
Salmiya, Kuwait.



Contract No.: _____
Consultant: Al-Jazera Consultants
Contractor: First Group for Gen. Trad. & Cont. Co.
TO: RESIDENT ENGINEER (JG)

SITE TRANSMITTAL (MATERIAL)
TRNS No.: E-024 Rev: 0
DIVSEC: 25
Date: 07.12.2016


WE REQUEST APPROVAL OF THE FOLLOWING MATERIAL/GOODS/PRODUCTS/EQUIPMENT THAT COMPLIES WITH THE CONTRACT DOCUMENTS.

Item No.	Drawg. Ref. or BOQ Ref.	Qty	Item Description	Type	Case	
					Exempted	Action
1	SECTION 242022	1	AUTOMATIC TRANSFER SWITCH - 1600 AMP SUPPLIER: SAHARA SWITCHGEAR CO, KUWAIT ATTACHMENTS: COMPLIANCE STATEMENT, PREVIOUS PROJECT REFERENCE WITH APPROVAL, CATALOGUES MANUFACTURER - ZENITH, USA.	CAT	1	B

N.B. We certify that above items have been reviewed in detail and are correct and in strict conformance with the contract documents unless specified herein otherwise.

For Contractor:  Date: _____
Received by Consultant:  Date: 07 DEC 2016
DAR AL-JAZERA CONSULTANTS

CONSULTANT'S REMARKS: Action - B
ATS, manufactured by ZENITH, USA, & supplied by SAHARA, KUWAIT, is accepted by us subject to complying with the following —
① System operation shall be complying with the contract specifications followed by MBEW operation & approval.
② Installation shall be done by well skilled technicians.
③ Rating shall be calculated as per MBEW requirement.

Resident Engineer:  Date: 21/12/2016

Received by Contractor: _____ Date: _____
Distribution: OWNER

SAHARA Combined Co.
24 JAN 2017

1. Submitted for Approval
2. Submitted for Information

Action Code
A. Approved
B. Approved As Noted
C. Not Approved
D. For Information/Incomplete

SM-Serole
DAT-Catalogue
DT-Data base
GT-Quote
OI-Order

FORM A separate transmittal should be made for each material.



Levels Tower @ Salmiya, Kuwait

SAHARA

Project Executed, 2011

City Center@ Dajeej, Kuwait

Major Project With Building Construction in Kuwait



SITE TRANSMITTAL of Shop Drawings, Samples, etc.

PROJECT : CITY CENTER CONTRACTOR : PRIME ONE GROUP
SUPERVISOR : ROMA INTERNATIONAL TRANSMITTAL No. : Elect-20 REV. 00
DATE : 03.12.2011

WE ARE SENDING HERewith DOCUMENTS THAT COMPLIES WITH THE CONTRACT DOCUMENTS

ITEM NO.	QTY. SPEC. OR BOQ REF.	DESCRIPTION	TYPE	SUBMITTA L CODE	ACTION CODE**
	D-16-a	MLTP,SMSB,MSB'S& DB'S SHOP DRAWINGS FOR APPROVAL	MD	1	A

ISSUED BY CONTRACTOR : *[Signature]* DATE: 03/12/2011

RECEIVED BY CONSULTANT: *[Signature]* DATE: 4/12/2011

ROMA'S REMARKS: All MLTP's + MSB's + SMSB's + DB's are OK according to drawings *[Signature]*

Corrections or comments made relative to submittals during this review does not relieve the contractor from compliance with the requirements of the drawings and specifications. This check is only for review of general conformance with the design concept of the project and general compliance with the information given in the contract documents. The contractor is responsible for confirming and correlating all quantities and dimensions, selecting fabrication process and techniques of construction, coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner.

ISSUED BY CONSULTANT: *[Signature]* DATE: 7/12/2011
RECEIVED BY CONTRACTOR: *[Signature]* DATE: 7/12/2011

TYPE	DESCRIPTION	SUBMITTAL CODE	ACTION CODE
SD	Shop Drawing	1: Submitted for Approval	A: Approved
SAC	Sample	2: Submitted for your information	B: Approved as Shown
QTY	Quantity		C: Not Approved
MSB	Manufacturer's Data		D: For Information
CT	Certificates		
OT	Others		



City Center@ Dajeej, Kuwait



SAHARA

Project Executed, 2008

Major Project With Building Construction in Kuwait

Magic Planet @The Avenues, Kuwait

"MAGIC PLANET AT THE AVENUES"

ENGINEER: PAN ARAB CONSULTING ENGINEERS (PACE)

REQUEST FOR ALTERNATIVE OR SUBSTITUTION

CONTRACT NO.: MAGIC PLANET AT THE AVENUES NO.: AM/CS/04702
 CONTRACTOR: OMDC - MRGATECH DATE: 23/06/2008

TO: CLIENT CC RE CLIENT

PROPOSED ALTERNATIVE OR SUBSTITUTION:

PRODUCT METHOD OF FABRICATION METHOD OF INSTALLATION

SPECIFIED PRODUCT: MCC-MP1, EMCC-MP1, EMCC-MP2, EMSS-MP1, ATS
 PROPOSED PRODUCT: MCC-MP1, EMCC-MP1, EMCC-MP2, EMSS-MP1
 SPEC. SECTION #: 10200, 10400, 10410 PAGE # 1 TO 3 & 1107 ARTICLE #
 SPECIFIED MANUFACTURER: SAHARA
 PROPOSED MANUFACTURER: SAHARA
 BRIEF PRODUCT DESCRIPTION:
 REASON FOR PROPOSED ALTERNATIVE OR SUBSTITUTION:
 to decrease the delivery time.

COST AND TIME SAVINGS: YES NO AMOUNT (KD) (DEDUCTION) _____
 TIME: YES NO DAYS _____

ATTACHMENTS: 3 Copies of Manufacturer Drawings.

WE (THE MAIN CONTRACTOR) CERTIFIES AND UNDERTAKES THAT:

CONTRACTOR'S REP: [Signature] DATE/TIME: 23/06/2008
 RECEIVED BY RE: [Signature] DATE/TIME:

Approved Not Approved Approved as Noted Incomplete Data Result

Remarks: *Refer and comply with comments on the drawings.*

Drawing's Approval: [Signature] DATE/TIME: 23/06/2008

CLIENT: [Signature] DATE/TIME: _____

SAHARA CONSULTING ENGINEERS Co. W.L.L. DATE/TIME: _____
 CONTRACTOR: _____



Magic Planet @ The Avenues, Kuwait





SAHARA

Project Executed, 2014

Yall Commercial Complex @Fahaheel, Kuwait

Project With Building Construction in Kuwait

 AAYAN REAL ESTATE YAAL COMMERCIAL COMPLEX - FAHAHEEL BP PART - 9A			
REQUEST FOR ALTERNATIVE OR SUBSTITUTION			
TO: THE ENGINEER OWNER: AAYAN REAL ESTATE CONTRACT NO.: CONSULTANT: AL-JAZERA CONSULTANT CONTRACTOR: REFRIGERATION & AIRCONDITIONING SYSTEM CO. (RASCO)		REQUEST # EL-02 Rev: 00 DATE: 19/12/2013	
This submittal will not be reviewed unless the Contractor complies with the minimum submittal requirements of Document III-2, (Section 01050).			
PROPOSED ALTERNATIVE OR SUBSTITUTION: PRODUCT: <input checked="" type="checkbox"/> Specified <input type="checkbox"/> Method of Fabrication <input type="checkbox"/> Method of Installation <input type="checkbox"/> Proposed Product: Circuit Breaker Switchgear & Distribution Switchboards & Motor Control Centres Proposed Manufacturer: Sahara Switch Gear Factory (RATON / Gatten, Mammad) Spec. Section #: 16244, 16426, 16482 Page # Article # Specified Manufacturer: ABB, Siemens, Schneider Electric, Eaton, etc. Proposed Manufacturer: Sahara Switch Gear Factory (RATON / Gatten, Mammad) Brief Product Description:			
REASON FOR PROPOSED ALTERNATIVE OR SUBSTITUTION As per Response of RFQ No. EL-03 Dated-13/11/2013			
Cost and Time Savings Cost: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Amount (KD) (Detailed in Remarks) Time: No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Days			
THE CONTRACTOR CERTIFIES AND UNDERTAKES THAT: * Same warranty will be furnished for proposed alternative or substitution as for specified product. * Same maintenance service and source of replacement parts, as applicable is available. * Cost data as stated above is complete. Claims for additional costs or time related to accepted alternative or substitution which may subsequently become apparent are to be waived. Other costs to other disciplines and/or contractors shall be borne by the Contractor. * Proposed alternative or substitution does not affect dimensions and functional clearances. * The cost for all changes to design, including architectural or engineering design, detailing, and construction cost including authorities approvals, caused by the requested alternative or substitution shall be fully the responsibility of the contractor at no cost to the employer. * Coordination, installation, and changes in the work as necessary for accepted alternative or substitution will be complete in all respects. THE CONTRACTOR FURTHER ACKNOWLEDGES THAT APPROVAL FOR ALTERNATIVE/SUBSTITUTION DOES NOT WAIVE HIS OBLIGATIONS TO THE EMPLOYER AS DETAILED IN DOC. III-2 SECTION 01050.			
FOR CONTRACTOR: <u>Sahara</u> Date/Time: <u>16.12.13</u>		FOR AL-JAZERA CONSULTANTS: Date/Time:	
REVIEW AND ACTION BY THE ENGINEER Approved <input type="checkbox"/> Not Approved <input type="checkbox"/> Approved As Noted <input checked="" type="checkbox"/> Incomplete Data Resubmit <input type="checkbox"/>		Request received too late <input type="checkbox"/> Other <input type="checkbox"/>	
ADDITIONAL COMMENTS: M/s SAHARA, using Cutler Hammer - ICS Breaker's were approved. Short submission of all related factory floor shop drawings complying with the contractual requirements following MEW regulations. Discrimination factor must be considered. Local weather conditions, temperature must be considered. <u>21/12/2013</u>			
Construction Manager: Resident Engineer: <u>SAHARA</u> Date/Time: <u>24.12.13</u>		The approval of any alternative or substitute product/method shall be solely at the discretion of the Engineer and such approval shall in no way relieve the contractor of any of his liabilities and obligations under the contract. This approval does not entail any additional cost or time.	
RECEIVED BY CONTRACTOR: DATE: TIME:		RECEIVED BY ENGINEER: DATE: TIME:	



Yall Commercial Complex @Fahaheel, Kuwait



SAHARA

Project Executed, 2012

Project With Building Construction in Kuwait

Ruba Tower Complex @Mahboula, Kuwait

SITE TRANSMITTAL OF SHOP DRAWING, SAMPLES ETC		Doc Ref. No.	CRC/PROJ/03
		Revision No.	01
		Page No.	1 of 1
Project	Ruba Residential Complex Mahboula	Transmittal No.	EL - MD - 68 Rev. 04
Contractor	WARA Construction Co.	Date	January 16, 2012
To	Dear GSH International Consultant		
<small>THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION PROVIDED IN THIS TRANSMITTAL. (Please see Appendix)</small>			
<small>Item Type</small> <small>MD - Shop Drawing, ME - Sample, RT - Material, MC - Manufacturer's Data, CT - Certificate of Test, etc.</small>			
<small>1 - Submitted for Approval</small> <small>2 - Submitted for your Information</small>		<small>A - Approved</small> <small>B - Approved as Noted</small> <small>C - Not Approved</small> <small>D - For Information</small>	
Item No.	Desc. Spec. or BOQ Ref.	Description	Action Code**
18441		Manufacturing drawings, MLTB - 1 & 2, EMSB	B
	Make	Cutter Hammered Sahara Combined Group.	
	Country of origin	USA/ Kuwait	
	Supplier	Sahara Combined Group.	
Prepared by Contractor		Date:	January 16, 2012
Received By CM/Consultant		Date:	15/1/12
CONSULTANT REMARKS APPROVED As Noted Subject to comply with comments on dupl. 18441 21-01-012			
PRODUCTION 26 JAN 2012 SAHARA COMBINED GROUP			
<small>Contractor is responsible for ensuring that the work is done in accordance with the requirements of the drawings and specifications. This shall be only for reference of general compliance with the design intent of the project and general compliance with the information given in the contract documents. The contractor is responsible for verifying and monitoring all quantities and dimensions, including installation process and sequencing of construction, coordinating his work with that of other trades, and performing his work in a safe and satisfactory manner.</small>			
Consultant Resident Engineer (RE)		Date:	21.1.012
Construction Manager (CM)		Date:	
Received By Contractor		Date:	
Original	Contractor	Consultant	CM
Copy CC			CRC PM



Ruba Tower Complex @Mahboula, Kuwait

SAHARA

Project Executed, 2014

Major Project With Building Construction in Kuwait

Ooredoo New Headquarter, Kuwait



Ooredoo New Headquarter, Kuwait

Shop Drawing Submittal

3 AUG 2014

Ooredoo-New Headquarter

TO : FACE
 CC : EMPLOYER : NATIONAL TELE COMMUNICATIONS
 REF NO: WT201408 DATE : 22-08-2014
 CONTRACTOR : SA-ENCON Engineering Co.

Drawing Sub. No.	RD-SAH-01	Revision	5		
Submittal Title	AC Distribution Panel Manufacturing Drawing				
Supplier	Sahara Contracted General Trading & Contracting Co				
Location of use	Mezzanine, First & Second floor (Switching Center)				
Item No.	Panel Details	Description	Type	Qty	Action
1	MSB'S	MSB - 1A, 2A, 3A, 1B, 2B & 3B	HARD COPY	2	
2	MSB	MSB - 4A, 1A & 4B, 2A	HARD COPY	2	
3	MSB'S	MSB - 1A, 2A, 3A, 1B, 2B, 3B, 1C, 2C, 3C, 1D, 2D, 3D	HARD COPY	2	
4	MSB'S	MSB - 1A, 2A, 3A, 1B, 2B, 3B, 1C, 2C, 3C, 1D, 2D, 3D	HARD COPY	2	-B-
5	ACDB'S	ACDB - 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I, 1J, 1K, 1L, 1M, 1N, 1O, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z	HARD COPY	2	
6	ACDB'S	ACDB - 1A, 1B, 1C, 1D, 1E, 1F, 1G, 1H, 1I, 1J, 1K, 1L, 1M, 1N, 1O, 1P, 1Q, 1R, 1S, 1T, 1U, 1V, 1W, 1X, 1Y, 1Z	HARD COPY	2	
7	RETURNING DRAWING	MSB'S	HARD COPY	2	

Contractor's Representative: [Signature] Date: 12/08/2014
 Review comments: ACTION - 'A' APPROVED AS NOTED
 Please refer to our comments on the submitted drawing.
 To light up above: packed with manufacturing of 1 one sample of each panel for inspection before the production of all panels will be upon completion of the drawing.
 All to be approved the contract documents.

FACE RE: [Signature] Date: 13 AUG 2014
 Received by Contractor: [Signature] Date: 13-8-2014



SAHARA

Project Executed, 2018

Lower Fars Heavy Oil Development Program Phase-1 (60 MBOPD)

Major Project With Kuwait Oil Company (KOC)

To: PETROFAC B.V.,
Petrol Tower, P.O. Box 2342,
4100 AA Oudenhoop, The Netherlands

Date: 07 AUG 2018
Statement No: 1508995-001-0340
Contract No: 2202901
Project Name: LOWER FARS HEAVY OIL DEVELOPMENT PROGRAM PHASE 1

Attn: Shriwans Arora
Project Manager

SUBJECT: VENDOR DOCUMENTS- SAHARA CONTROLLED SHEET 002

Document Number	Rev.	Subst.	Controlled Trans. Ref.	Contractor Issue and Date	Comments
20180804-010-00100	A	B	1508995-001-0340	7-Jul-18	ELECTRICAL SINGLE LINE DIAGRAMS BILL OF MATERIAL
20180804-010-00100	A	B	1508995-001-0340	7-Jul-18	ELECTRICAL SINGLE LINE DIAGRAMS BILL OF MATERIAL
20180804-010-00100	A	B	1508995-001-0340	7-Jul-18	ELECTRICAL SINGLE LINE DIAGRAMS BILL OF MATERIAL
20180804-010-00100	A	B	1508995-001-0340	7-Jul-18	ELECTRICAL SINGLE LINE DIAGRAMS BILL OF MATERIAL

The Contractor shall be responsible for the correctness and accuracy of all documents/ drawings prepared by itself, subcontractors or vendors. Information is technical nature shall be addressed individually in writing to the Company Representative and approved.

Comments made by the Company on drawings and documents shall neither constitute nor be a substitute for any applicable contract provisions or procedures specified in Clause 12 of the GCC.

For KUWAIT OIL COMPANY

James Farwani

JAMES FARWANI
Superintendent Representative

VENDOR DOCUMENT COVER SHEET
LOWER FARS HEAVY OIL DEVELOPMENT PROGRAM PHASE-1 (60 MBOPD)

Petrofac SAHARA

KOC APPROVAL CODE

A	Approved / Reviewed
B	Approved / Reviewed as noted - Incorporate and Resubmit
C	Not Approved/Rejected as noted - Revise and Resubmit
D	Information Reviewed

Approved by the Company related to the work shall in no way relieve the Contractor from its obligation to fulfill all the requirements of the CONTRACT.

KOC APPROVAL SIGNATURE

DEPARTMENT	SIGNATURE	DESIGNATION	DATE
------------	-----------	-------------	------

Vendor: SAHARA CONTROLLED GENERAL TRADING & CONTRACTING COMPANY
Purchase Order Title: P.O. NO:2302923018001
Equipment / Tag Number: As per PO
Description: P.O. NO: 2302923018001
Vendor's Document No.: 20180804-010-00100
Document Title: Electrical Single Line Diagrams

VENDOR'S ISSUE RECORD

Issue No.	Issue Date	Issue Description	Issue Status	Issue Type	Issue Category
-----------	------------	-------------------	--------------	------------	----------------

Project No. 1508995
Contract No. 2202901

VENDOR DOCUMENT REVIEW

Reviewer: JASWINDER SINGH / HAZI NABEEL
Date: 13.08.2018

CODE 1: Approved
CODE 2: Approved with comments - Revise and resubmit
CODE 3: Rejected - Resubmit as noted
CODE 4: For information only. Approval not required
CODE 5: Cancelled/Superseded

The document consists of this front sheet plus "02" pages.



Lower Fars Heavy Oil Development Program Phase-1 (60 MBOPD)



SAHARA

Project Executed, 2018

New Gathering Center GC-31 @ North Kuwait (KOC)

Major Project With Kuwait Oil Company (KOC)



Sahara Engineering and Construction Co. Ltd.
22nd Floor, Lhnan Tower
Abkhayeh Al-Fajal 2nd Street
Business Bay District
P. O. Box 8124, Dubai
United Arab Emirates

Tel: +971 4 523 8000
Fax: +971 4 523 8006

Attention: Mr. Ezzat Faris
(Executive Spaces)

Subject: CONTRACT NO. 181790
NEW GATHERING CENTRE, GC-31 IN NORTH KUWAIT
GENERAL ARRANGEMENT & SINGLE LINE DIAGRAM FOR OSBL MOV DISTRIBUTION BOARD-218-MOV/PDB-1001, CIPF AREA

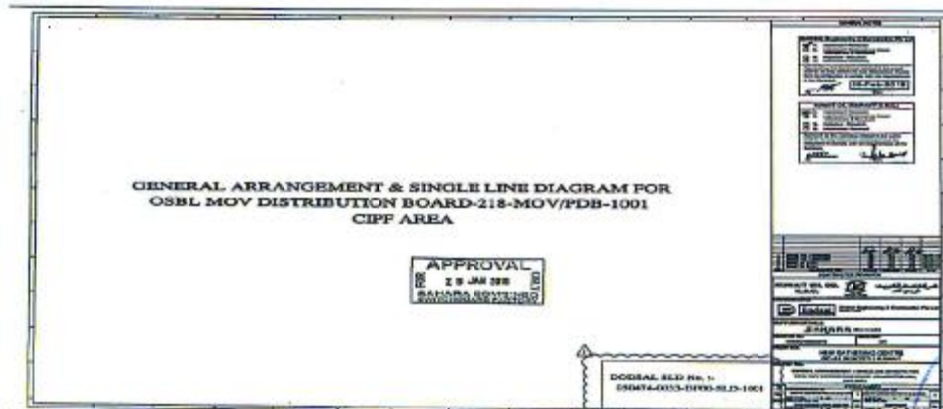
With reference to a/circular 03.02/11.075.01A.0.76.70073-18 dated 09 February 2018, Contractor's submission is returned with Company's response as per Comments Sheet (attached), with a status as follows:

General Arrangement & Single Line Diagram for OSBL MOV DISTRIBUTION BOARD-218-MOV/PDB-1001, CIPF Area	Approved/Revised
---	------------------

Very truly yours,
KUWAIT OIL COMPANY

Gabriele Bragni
GABRIELE BRAGNI
Representative's Representative

Attachment: As stated above



New Gathering Center GC-31 @ North Kuwait (KOC)



New IT Group Centre Building (KOC)

SITE TRANSMITTAL
of Shop drawings, Samples, etc.

CONTRACTOR : SAI General Trading & Contracting Co. **DATE :** 12/04/2016
PROJECT : New IT Group Center **TRANSMITTAL # :** 14326625KOC/7208
To : Kuwait Oil Company, (K.O.C), **REV. :** 0
Att. : Superintendent's Rep.

WE ARE SENDING HEREWITH DATA SHEETS AS LISTED BELOW:

ITEM NO.	DRAW. SPEC. OR BOQ. REF.	Rev. No.	Description	TYPE +	Action Code *
	A3 per attached list from No.01 To No.11	0	Technical Submittal for MLTP-01& MLTP-02	OT	B

Attachments:
 • Product Data Sheet
 • Data Sheet
 • Cable Tray Diagram

1) Original - (2) Copies.

CONTRACTOR REPRESENTATIVE: [Signature]

RECEIVED BY: [Signature] 12/4/2016 10:26 AM

Superintendent's Remarks: Approved as noted
 It comply with the requirements and company standards.
 The drawings to be sent from MLTP-02
 to the General works Panel and to transfer interlock and control panel
 and the load bank panel installation should be by the Contractor in accordance
 with the drawings.

RECEIVED
 12 APR 2016

*** ACTION CODES:**
 A: Approved
 B: Approved As Noted
 C: Rejected As Noted
 D: Not Approved
 E: Further Information Required



New IT Group Centre Building (KOC)



Received
 S.J.
 27/04/2016
 10:15 AM



SAHARA

Project Executed, 2014

Major Project With Kuwait Oil Company (KOC)

Construction of North Kuwait Office Complex
(KOC)

M/s Associated Construction Co. W.L.L.
 P.O. Box 13999
 Safat - 13011 - Kuwait
 Fax # 22404584, Tel: 22422460
 Attn: George Nasr (Partner / Manager)

Date: 22 JUL 2012
 Ref.: PM/NK/45844/13504/12

CONTRACT NO. 45844
CONSTRUCTION OF NORTH KUWAIT OFFICE COMPLEX

Subject: Electrical Material - LT Switchboards & DB's
Manufacturer-Sahara Combined Gen. Trade, & Contr. Co. Kuwait

Reference: - ASCO/KOC/YE# 397 Rev. A/12

Reference is made to the above transmittal dated 24th June 2012 please be informed that we have reviewed the subject document and our comments are as under.

Sl No	Doc./Drg.#	Rev.	Description/Title	Status
1	None	A	Electrical Material - LT Switchboards & DB's Manufacturer-Sahara Combined Gen. Trade, & Contr. Co. Kuwait	Reviewed no comment

Note:- Final acceptance shall be given after satisfactory approval of sample submission.

The above Review / Comments by the Company shall in no way relieve the Contractor from his obligation to fulfil all the requirements of the Contract. Should any further requirements be detected in compliance to the Contract, the Contractor is obliged to fulfil the same and at no additional cost and / or time impact to the Company.


Commented copy handed over to the Contractor on 15th July 2012.

This is for your information and necessary action.

Yours Faithfully,
 For Kuwait Oil Company (K.S.C)

Abdul Latif Al-Rabah
 Abdul Latif Al-Rabah
 Team Leader PM(NK)
 25 JUL 2012
 - ASCO -

19 April 2015





Construction of North Kuwait Office Complex
(KOC)

SAHARA

Project Executed, 2013

General Practitioner Building (KOC)

Major Project With Kuwait Oil Company (KOC)

	SITE TRANSMITTAL OF SHOP DRAWING, SAMPLES ETC.	
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Project	General practitioner building - Contract no : 11050128	Transmittal No.	HVAC03	Rev. No	1
OWNER	Kuwait oil company				
Contractor	El Eman Construction Establishment				
To	Corporate Project # Team				
WE ARE SENDING HERWITH THE ELECTRICAL DOCUMENTS LISTED BELOW:					
Sr. No.	Drawing / Document Description	Drawing/ Document Reference	Type	Submittal Code	Action Code
1	starter panel for air handing units and chilled water DUMPS (3 sets)	As per spec.	MD	1	B
Contractor PM <i>Cheikh</i> Date 19/12/2013 Received By _____ Date _____					

Consultant to enter ACTION CODE and REMARKS

Consultant's/ Koc Rep's Remarks:
Starter panels for AHUs and chilled water pumps are approved as noted with the contractor's noted notes attached drawings.

W. S. Al-Hadi

Received By Contractor	<i>[Signature]</i>	Date	30/12/2013
Consultant	<i>[Signature]</i>	Date	29/12/13
KOC REP.	<i>[Signature]</i>	Date	29/12/13

Type	Submittal Code	Action Code
SD Shop Drawing	1 Submitted for Approval	A Approved
SM Sample	2 Submitted for your information	B Approved As Noted
QT Quotation		C Not Approved
MC Manufacturer's Data		D For Information
CT Certificates		
OT Others		

Distribution List:				
Original	Contractor	KOC TEAM LEADER	Consultant	Others
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



General Practitioner Building (KOC)



SAHARA

Project Executed, 2013

Major Project With Kuwait Oil Company (KOC)

Construction of Burgan Office Complex, Phase-II (KOC)



M/s Kuwait Dynamics Limited for Contracting
P.O. Box 23575, Safat 13096 - Kuwait
Tel : 22256900
Fax: 22286970

Date: 17 APR 2014
Ref.: 11050144/KC/11963

Attention : Mr. Ali Ehsanawi, Project Manager

CONTRACT NO. 11050144
CONSTRUCTION OF BURGAN OFFICE COMPLEX PHASE II

Technical Submittal for LV Motor Control Center (MCC-01 & MCC-02) and TSCP Panel

This has reference to your letter Transmittal 11050144/KC/1/292 dated 13th March 2014 on the above subject. We have completed our review of the submitted documents and the status of our review is as follows:

Sl.No.	Document / Drawing Number	Item	Rev.	Status
1.		Technical Submittal for LV Motor Control Center (MCC-01 & MCC-02)	B	Approved As Noted
2.		Technical Submittal for TSCP Panel	A	Reviewed As Noted

Note: The above Review / Comments by the Company shall in no way relieve the Contractor from his obligation to fulfil all the requirements of the Contract.

This is for your further necessary action.

Yours faithfully,

For KUWAIT OIL COMPANY (KOC)

NAIF AL-HARBI

Attachment: As above



Page 1 of 1



Construction of Burgan Office Complex, Phase-II (KOC)

SAHARA

Project Under Execution, 2018

19 Nos. Petrol Filling Station (KNPC)

Major Project With Kuwait National Petroleum Company (KNPC)

pace
المكتب الكويتي

شركة البترول الوطنية الكويتية
KNPC



SITE 06-04

Transmittal for Drawings, Documents, Samples, etc. (TR) page 1 of 1

Contract Title:	Construction, Procurement, Completion, and Commissioning of 19 New KNPC Petrol Filling Stations		
Contract No.:	KNPC/2018/001	Contract Name:	LM/OP/000-Function 1
Contractor:	Combined Group Contracting Co. (K.S.C)	Contract No.:	MD/AL/01/045
Contract Date:	05 / 07 / 2018	Contract Value:	

To: Resident Engineer
We are sending herewith the above mentioned drawings/documents/samples listed below. We certify that the items listed below is in full accordance with the Contract Documents.

Qty.	Draw. Spec. or SOG. Ref.	Rev. No. / Date	Description	Type	Submitted by	Action
9	202213	1	ATS 08 Zwerth-ZBTS SAHARA	ATTACHMENT	SAHARA	



Contractor to submit one form only per transmittal.
Submitter for: 1 - Approval 2 - Your Information
Action: A - Approved B - Approved as Noted C - For Information Only ERI - Approved as noted, Resubmit C/FMS Application
Type: 01 - Shop Drawings 02 - Standards 03 - Clarification 04 - Test Report 05 - As Measurement 06 - Variation 07 - General Notes 08 - Other 09 - Manufacturer's Data 10 - As DUT

Contractor's Name: *SAHARA*
Contractor's P.M.: *Eng. Tank Al-Jawad*
Checked by: Employer Employer's Representative Contractor

Remarks: *B: Approved As Noted*
Comply with Comments on the attached sheet. 2018

Contractor's P.M.: *Eng. Al-Mutairi*
Date: *24/7/2018*
Distributor: Employee Employer's Representative Contractor



19 Nos. Petrol Filling Station (KNPC)

