



PRE QUALIFICATION PROFILE
SWITCHGEAR MANUFACTURING DIVISION



Energy



Industry



Residential



Infrastructure



1.0 ABOUT SWITCHGEAR MANUFACTURING DIVISION

Verger Delporte U.A.E. Ltd an ISO 9001, ISO 14001 and OHSAS 18001 certified company and a franchised panel builder of Schneider Electric, in the services of Low Voltage Switch Gear panel building, testing & commissioning and after sales activities over four decades has committed to make every possible endeavor to follow up the development witnessed by the Industry and to contribute effectively in supporting this progress.

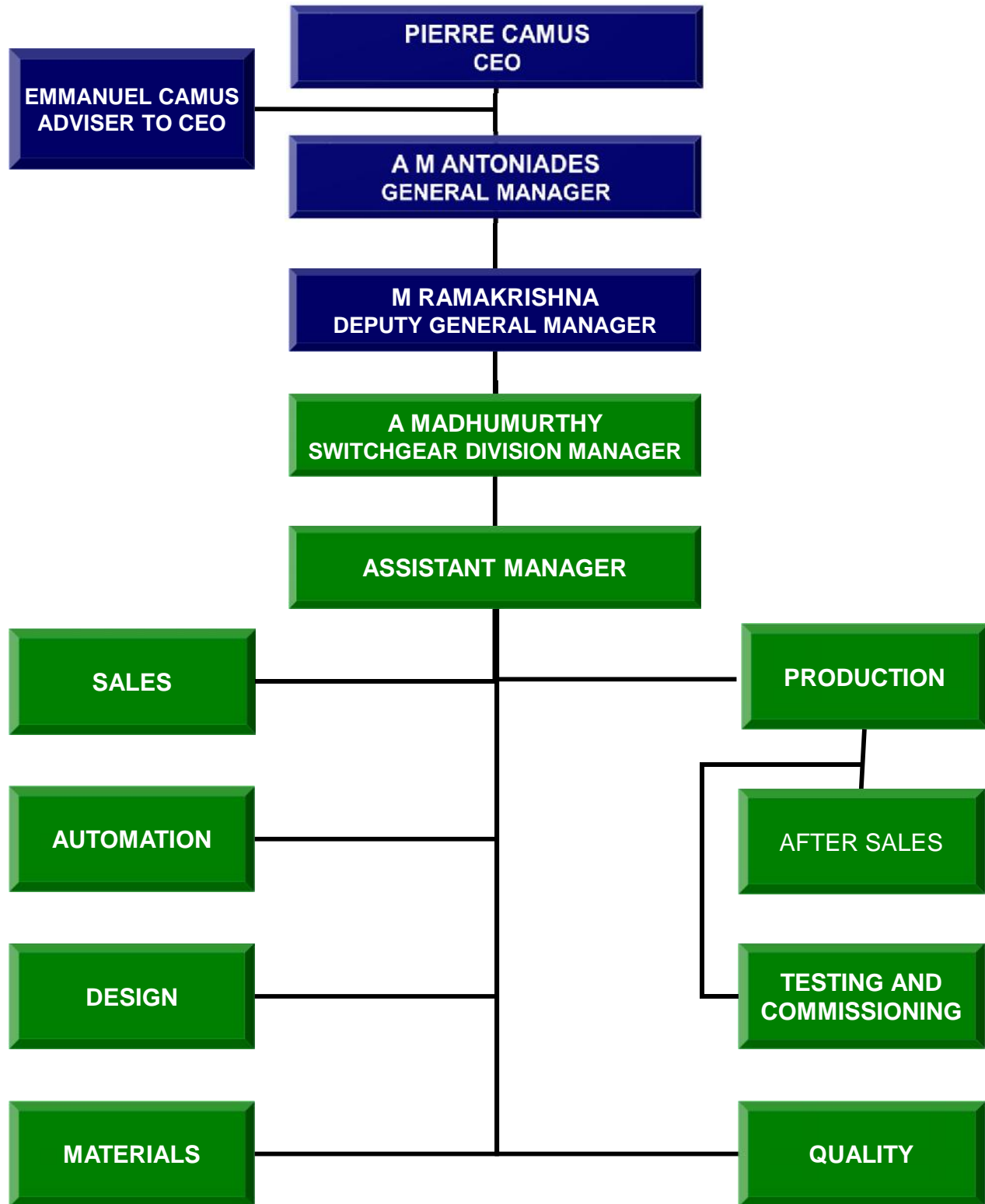
We always exert efforts to adhere to the latest technology with the aim of enhancing our competitive ability and meeting the goals set by ourselves in terms of quality, functionality and safety.

We fully understand and exceed our customers' needs, wants and preferences and provide greater value to our customers than our competition.

Our team work and culture build on the company's reputation and image internally and externally while driving initiatives to ensure Verger Delporte remains as employer of choice. We implement best-in-class operating practices and leverage company wide opportunities and best practices.

With the experience, standard reached by us and our efficient team, we offer outstanding services of high quality. We have strategies concentrating on all issues and difficulties and establish in a manner that contribute in enhancing and supporting permanent cooperation with our Customers satisfying their increasing needs.

2.0 ORGANIZATION CHART



2.0 ORGANIZATION CHART

Verger Delporte UAE Ltd had established its own name in the field of low voltage switchgear as a reliable manufacturer and has been build up customer confidence for services and after sales support.

Assembling low voltage switchgear of all kinds under the franchise of Schneider Electric, the division profits by the integrated process of panel building, stretching from the Design (Electrical Calculation and Configuration Lay out) up to the Manufacture, Delivery and After-Sales Service of finished products.

With a concern to stick closer to client's demand, the company have its branches in *Dubai* ,*Abu-Dhabi* & *Sharjah* head office.

This division's activities are shared out among 7 Sections, which are the Marketing / Sales, Design, Materials, Production, Quality Control, Testing & Commissioning and After-Sales Service.

3.0 QUALITY PLAN

Internal organization in business key-processes to meet Project's Quality requirements.

1. Offer / Contract review:

Prior to the acknowledgment of order, under the responsibility of SGD Manager

- To check that Verger Delporte UAE Ltd offers meet client's contractual requirements in all respects
- To make sure the agreed technical solution / scope of works remain within our capacity.

2. Project programming:

Under the direction of SGD Manager / Asst. Manager, to plan adequately the tasks and their related human and material/equipment resources as to meet project / contract requirements.

- Design, Material selection, with optimal time margin for customers' approval.
- Material procurement and execution.
- Final inspection, testing and commissioning.

3. Design and Materials:

Under the responsibility of Design In charge and in control of SGD Manager/Asst. Manager.

- To carry out the electrical design in terms of power / control diagrams followed by general arrangements (taking heed of the environmental constraints as well as electromechanical interfaces with the use and power generation) on software, home-developed for our specific activities.
- The thoroughly reviewed and approved "design output" depends on initial control of the "design input" (Specifications, technical guides from franchiser, International & local standards, tailor- made software).

3.0 QUALITY PLAN

4. **Material Control:** (Refer to GP6 – Purchasing and Material Control Procedure)

a). Selection – Under the responsibility of competent personnel:

To pick up from clients suggestions or / and Verger Delporte UAE Ltd list of approved suppliers (Quality, Health, Safety and Environmental performance rated by senior responsible and QHSE Manager) the right materials, complying with the specifications and applicable quality standards.

b). Purchasing:

To place the corresponding comprehensive order, thoroughly reviewed and approved by SGD Manager.

c). Incoming Goods Inspection:

Under the responsibility of Logistics Manager / Store Keeper to check material compliance with the specified requirements, from optimally defined scrutiny.

Remarks: The major materials are 100% controlled by the franchiser or / and approved supplier, with available certificates of conformity to IEC or BS standards.

5. **Production:** (Refer to HSIM 6301 & WI 3200 – 3209)

Under the responsibility of Production Supervisor:

From the Production file, to manufacture the panels in accordance with customer requirements (drawings), Switchgear Assembly and Installation Guide (from our franchiser), while auto-controlling the operations on the corresponding format.

6. **Inspection & Testing:**

Carried out by Quality Inspector or / and Assistant:

Before client's factory acceptance test of completed panels, Quality Inspector, duly authorized by SGD Manager, performs the corresponding Quality Control of the panels, logging his results, recording his eventual comments and approval for the panels delivery on the corresponding formats.

3.0 QUALITY PLAN

7. Maintenance, Servicing & After Sales:

Under the responsibility of SGD Manager / Asst. Manager

- To carry out the required site intervention, after technical expertise of Quality Inspector or /and Assistant.
- To provide spare parts and components for one-year period, with ten years guaranteed availability of stock by our franchiser (Whenever available).

8. Project's Documents control: (Refer to GP1 – General Documents Control)

Under the shared responsibility of different sections head:

- To record, file, update, withdraw, and supersede the job-related documents, when necessary, as per their relevance and importance with regard to quality requirements.
- To make information easy to retrieve, using electronic (diskettes, hard-disks) or paper support, where applicable.

Related Process: MP3 – Switchgear Division Management Process

With its *Integrated Management System Documentation (IMSD)*, the company benefits also from well-thought management processes and functional procedures, making our organization, if not flawless, at least quick-responding to any challenging quality issues. The personnel, whose competence and skills are under permanent watch (*GP5 – Training Procedure*), can cope confidently with potential or actual anomalies (*GP2 – Non-conformity Procedure*), or general issue handling, with (*GP3 – Corrective and Preventive actions Procedure*).

Furthermore the whole practices related to business key-processes, which affect the delivered quality, are regularly audited to ensure that optimally defined proceeding, conform to latest edition ISO 9001:2015, ISO 14001:2015 and OHSAS 18001:2007 requirements (*GP4 – Internal QHSE Audit Procedure*).

Customer oriented QHSE policy, the driving force behind the major decisions and actions of senior management has led the company to monitor its quality performance against tough targets of business excellence (*GP8 – Indexes and Indicators Procedure*).

4.0 COMPREHENSIVE RANGE OF PRODUCTS

The division proposes a wide selection of low voltage switchgear, either derived from our principals standard list or from other reputed manufacturers, then locally customized under strict control and acceptance of Schneider Electric's Quality Department or house developed in accordance with the applicable electrical standards and regulations.





5.0 SALES & MARKETING

A team of people with good educational background and sound experience makes up the mandatory condition to furnish proficiently these duties with customer satisfaction as motive. The customers / clients are efficiently guided to communicate his practical expectations. confidence in our products is built-up from the initial stages of discussions, and the sales engineers are associated with the customers right from the sourcing of enquiry to after sales service and beyond.

The techno-commercial offer is prepared as per the explicit requirement of client / consultant while meeting the local regulations. Customized solutions from our range of products will be provided to the customer within the guidelines of the principals.

A team of qualified and well experienced people render their services in estimation by handling Qualitative and Quantitative major tendering works well with in the given target dates.



6.0 CONTACT US

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Abu Dhabi and Al Ain

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Dubai and Northern Emirates

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Web. : www.verger-delporte.ae

With more than 250 dedicated employees at your service ...

7.0 DESIGN

The in-house design office structured with an engineering team of Design Engineers and assisted by designers is capable to design the client's requirements strictly according to local regulations, I.E.C and other International / National Standards. It is equipped with all records of technical documents provided by our principals and by other suppliers, catalogues, manuals, product qualification & conformity certificates and complete latest international standards for ready reference. Verger Delporte office expertise in offering solutions to clients in the electrical power distribution, programmable logic controls and energy management system.

Total design system is accommodated with local computer network system and also linked with external offices to extend highest service. Engineering drawings are prepared with the latest AUTO CAD and EPLAN software. Engineering calculations such as short circuit, discrimination and harmonic studies prepared using ETAP software application. They are standardized with self developed libraries according to the local regulations, system requirements and principals regulations.



7.0 DESIGN

The marketing / sales, design office, materials control and production sections are all equipped with the state of the art available technology and networked at all levels to facilitate communication which helps us in effective time management.

A team of well experienced engineers assist the division in the use of customized programs developed by verger Delporte based on our principal M/s Schneider electric technical guides & Technical know how, International standards, National standards and local regulations, besides standard office automation and latest operating systems.

Our programs act as a useful tool and helps us optimize the technical solution offered to customers. From environmental and electrical constraints they help to bring-out the very best definition of the panels in record time. They include (non limitative features) calculation and design of power and control circuits, selection of components outlay of external and internal configuration.

Materials and production planning are also done through the computerized network which resulted in a better material management and inventory of the stocks available.

This total digital connectivity of our process has given us the added bonus of increased efficiency and output.

8.0 MATERIALS

The material section comprises of a well competent Material Co-Ordinator and his assistants. The entire material section is fully computerized, and connected to the common network so that the management monitoring of the material procurement, allocation, safety stock and order processes is easily carried out from computer work station.

The materials are selected based on our standard Design Manual, our principal recommendation and also Client requirements and by adopting the International, National standards and Local regulations. The Bill of Material is prepared based on the job requirement, subsequently the purchase order also prepared and under the approval of Division manager.

In order to ensure quality of materials received we have a special team for checking the incoming goods. As per the standard procedure, the Non-Conformance is raised to the supplier if any materials are found as faulty. The major materials are 100% approved by the franchisee or are from an approved supplier with available certificates of conformity to International, National standards and Local regulations.



9.0 MANUFACTURING / ASSEMBLING

The Production premises is made up of two shop floor areas of 2000 sq. meters (each of 1000 sq. meter area) besides a store area of 2000 sq. meter

The production team comprises of production incharge a supervisor and a group of team leaders under whom a batch of trained and well experienced technicians put their combined efforts to bring out the best in quality products of various L.V. switchgear panels and control panels etc.. In all above three levels their work-in-progress is documented through auto-control sheets.

The factory is well equipped with manual bending machines, hydraulic bending machines for bus bar shaping, punching machines for drilling, shearing and bending machines, free standing drilling machines for fabrication, besides miscellaneous equipment such as drilling machines, saw cutters, heat gun for basic operations. this machinery and equipment are carefully checked on monthly basis so as to ensure a consistency in the performed operations (corrective and preventive actions are recorded).

Critical assembly tasks are subject to a thorough checking of the hand-equipment. Crimping, cutting, stripping tools as well as torque wrenches are internally verified with logged results for traceability purposes and certification is done by certified laboratories in addition to internal calibration.

As a part of the weekly schedule, production, material, Co-ordination and design people meets to discuss the progress of jobs and planning for new ones.

Our workshop is equipped with latest tools & machines, upgraded time to time inline with growing technology.

10.0 FACTORY INSPECTION AND TESTING

At the end of the manufacturing process, an LV Switch Gear assembly must undergo various individual inspections and tests at the factory, following an established programme.

The switchboard must comply with:

- The appropriate Standards
- The design files (Drawings, diagrams and specific requirements).
- Manufacturer's Installation guide
- In-house standards
- Local regulations

Tests must be carried out in a clearly defined area and in compliance with applicable regulations, by qualified personnel. Testing area must be cordoned-off using warning chain or rope and warning sign.

Inspectors must be qualified personnel, must have attended and passed a special training course. They must be qualified for working in the proximity of live parts.

The necessary tools should be correctly and periodically calibrated and maintained in good working condition. Some of the necessary tools are:

- Control console (equipped with different control voltage source facilities)
- High voltage Test Kit
- Insulation Resistance Tester
- Primary Current Injection Test Kit
- Thermal Imager
- Power Quality Analyzer
- ACB / MCCB test kit (Secondary)
- ELCB / ELR Test Kit
- Low Resistance Test Kit.
- Digital Multi meter
- Torque wrench
- 3 phase Variac
- CT analyzer
- Relay Test Kit



10.0 FACTORY INSPECTION AND TESTING

Routine Tests intended to detect faults in materials and workmanship. Tests are carried out on every new assembly after it has been assembled or on each transport unit. Hence repetition of routine tests at the place of installation is not required.

Assemblies, which are assembled using standardized components outside the works of the manufacturer and assemblies, by the exclusive use of parts and accessories specified or supplied by the manufacturer for this purpose, shall be routine-tested by the firm which is going to assemble



11.0 QHSE INSPECTION / AFTER SALES

- The duties are carried out by proficient personnel, whose skills are regularly updated by Schneider Electric's quality and technical experts.

- It is made up of :
 - 1) QHSE Manager
 - 2) Quality Control Responsible.
 - 3) Strictly selected quality conscious technicians from production.
 - 4) Audit from Schneider Electric.
 - 5) Audit from external parties (BV, Consultants, Clients, etc.)

- The quality inspection procedure ranges from correctness of the component ratings up to compliance to the international, national standards & local regulations. Apart from the above standard routine tests are carried out by quality personnel only. The testing equipment provide for all low voltage testing needs. Functional tests are also done.

- The test equipment are calibrated by certified laboratories while being thoroughly checked internally, on regular intervals (Results logged and filed accordingly).

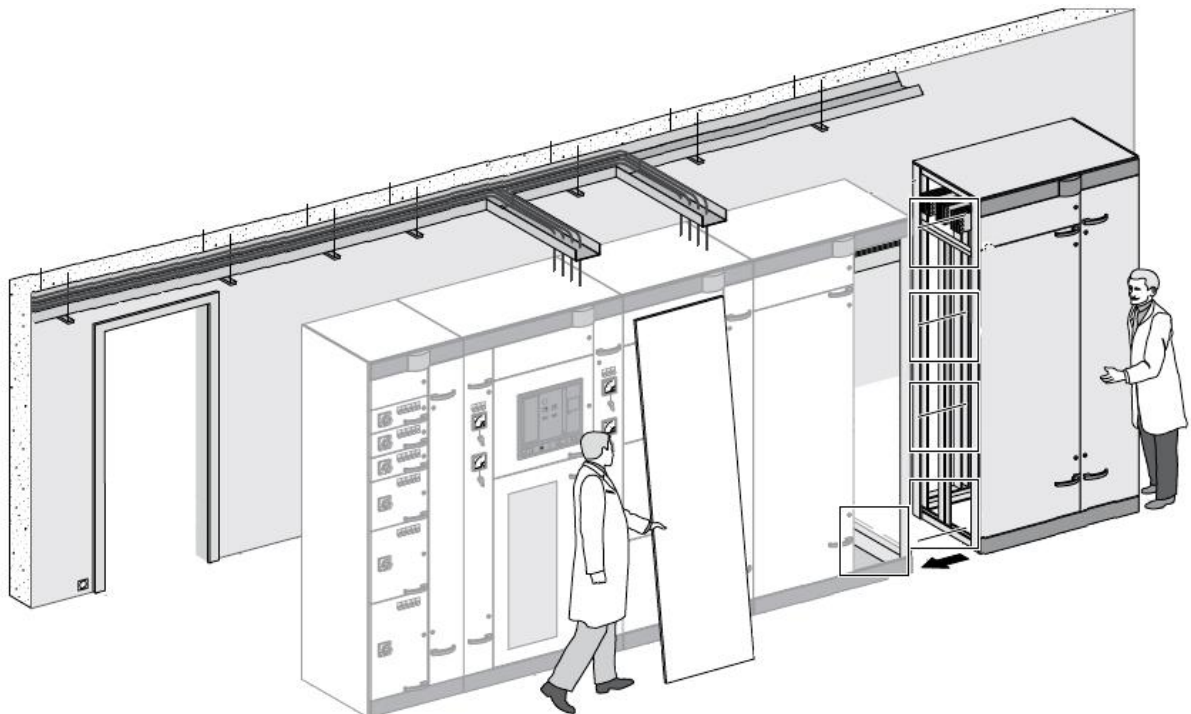
12.0 INSTALLATION, TESTING AND COMMISSIONING

When contractually requested, the installation, testing and commissioning team carries out the tasks, under the strict supervision of their Engineers / Authorized personnel.

Considering the importance of Testing and Commissioning we upgrade all testing equipments as per latest technology, and are also calibrating them by certified laboratories while being thoroughly checked internally on regular intervals (Results are logged for future reference).

We also undertake optional tests viz. Low Resistance test, Primary injection test, Secondary injection test, etc. If required contractually.

Infrared Thermography is an ideal technique for inspecting electrical equipment for defective components or connections. We have a team of well trained and certified engineers to conduct these tests.

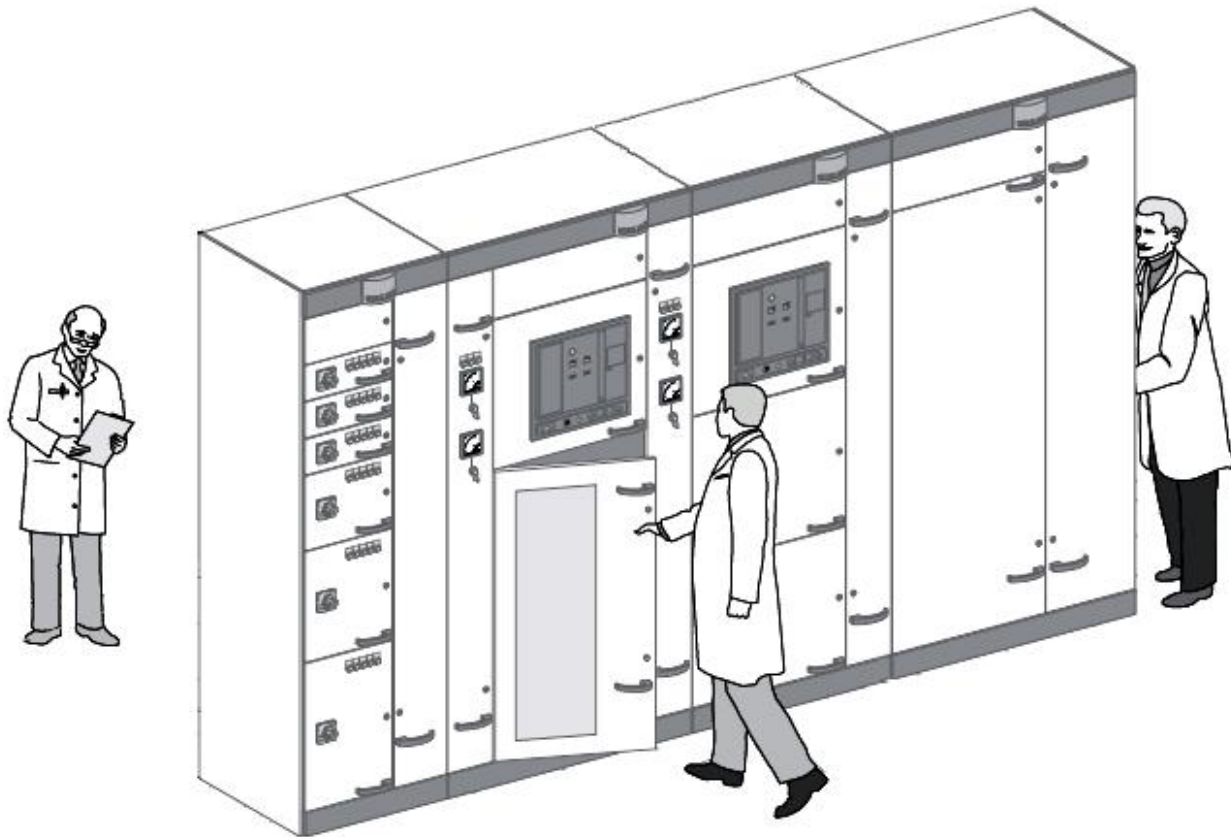




13.0 TECHNICAL ASSISTANCE

It consists of :

- External training from Schneider electric personnel in the organization to embrace a general or specific view, as per the needs of the latest technology / products / operational skills.
- Internal training in the form of seminars, workshops, hands-on courses on products, software, shop floor practices, quality inspection.
- Expertise and technical support for outstanding job or product issues.
- On request from our clients we provide training on low voltage switchboards in both classroom as well as on field.
- Our integral training course is for 3days and it covers, Sales, Design, Production, Quality, and Ecodial software for load flow studies.



14.0 WARRANTY & SPARES PARTS CAPABILITY

Our goods are guaranteed with a warranty period of 18 months from the date of delivery or 12 months from the date of commissioning, whichever ever comes earlier against any defect in construction or operation arising from faulty design, materials or workmanship.

We stock 8000 different items with a safety level of 3 months for moving items. This enables us to provide a speedy service to our customers.

The stock level of every item is maintained by an ERP Integrated Solution, controlled and maintained by thoroughly trained staff.



15.0 STANDARDS

The division adapts to the reliable technology of manufacturer and it's standards to provide the state of the art design to the requirements of the Local Authorities and End users.

All our panel conform to latest IEC and BSEN standards with ASEFA / ASTA / KEMA or DEKRA certifications.

All panel designed and assembled at verger delporte are totally type tested as specified below.

- Main Distribution Board / Motor Control Center certified for 6000A & 4000A 100kA for 1sec.
- Main Distribution Board / Motor Control Center certified 1000A to 3200A 85kA for 1sec / 50 KA for 3 sec.
- Main Distribution Board / Motor Control Center certified for 250A and 630A 50 KA for 1 sec.
- Sub Main Distribution Board certified for 800A and 630A 50 KA for 1 sec.
- Sub Main Distribution Board certified for 400A 42 KA for 1 sec.
- Sub Main Distribution Board certified for up to 250A 36 KA for 1 sec.
- Final Distribution Board split type certified for up to 125A 17 KA for 0.2 sec.
- Final Distribution Board Vertical type certified for up to 250A 25KA for 0.2 sec.



15.0 STANDARDS

Four routine tests are carried out at the premises, which evidences the company's ability to produce international / national standards locally.

Conformity to standards are as follows:

- Factory Built Assemblies – IEC 61439-1/2
- Degree of protection – IEC-60529
- Resistance to Damp Heat – IEC 68-2-30
- Resistance to Salt Mist – IEC 68-2-11
- Internal Arc Containment – IEC/TR-61641
- Earth Quakes – CBC (California Building Code)

16.0 LV SYSTEMS / PLATINUM / FRANCHISED PANEL BUILDER CERTIFICATES

Verger Delporte UAE Ltd is a LV systems / Platinum / Franchised Panel builder of Schneider Electric since 1977. Under this franchising agreement we design, manufacture, test and supply LV switchboards, upto 6300A we hold the certificate for prisma TT and Blokset system.

1. Certified as LV Systems panel builder for Blokset & Prisma TT systems till 31St March 2021.
2. Certified as Platinum panel builder for Blokset system till 31St March 2020.
3. Certified as Platinum panel builder for Blokset system till 31St March 2019.
4. Certified as Platinum panel builder for Blokset system till 31St March 2018.
5. Certified as Platinum panel builder for Blokset system till 31St March 2017.



16.0 LV SYSTEMS / PLATINUM / FRANCHISED PANEL BUILDER CERTIFICATES

6. Certified as Platinum panel builder for Blokset System till 31St March 2016.
7. Certified as Platinum panel builder for Blokset system till 31St March 2015.
8. Certified as Franchised panel builder for Blokset system till 31St March 2014.
9. Certified as Franchised panel builder for Blokset system till 31St March 2013.
10. Certified as Franchised panel builder for Blokset system till 31St March 2012.
11. Certified as Franchised panel builder for Prisma TT and Blokset system till 31St March 2011.
12. Certified as Franchised panel builder for Prisma TT and Blokset system till 31st March 2010.
13. Certified as Franchised panel builder for Prisma plus and Blokset systems till 31st March 2009
14. Certified as Franchised panel builder for Prisma plus and Blokset systems till 31st March 2008
15. Certified as Franchised panel builder for Prisma plus and Blokset systems till 31st March 2007
16. Certified as Franchised panel builder for Prisma and Blokset systems till 31st March 2006
17. Certified as Franchised panel builder for Blokset system up to 6300A till 31st December 2004

16.0 LV SYSTEMS / PLATINUM / FRANCHISED PANEL BUILDER CERTIFICATES

18. Certified as Franchised panel builder for Prisma system up to 4000A till 31st December 2004 1
19. Certified as Franchised panel builder for Prisma Switchboard systems till 2002
20. Certified as Franchised panel builder for Prisma, Master block & TDI Motor Control Centre systems in the year 15th January 1997
21. Certified as Franchised panel builder for MASTER BLOCK types MB100,
22. MB200 and MB400 systems in the year 1993
23. Certified as Franchised panel builder for low voltage switch gear assembling in the year 1991
24. Franchising contract was made in 1977 for low voltage switch gear assembling



Systems
Panel builder



Certificate

This is to certify that

VERGER DELPORTE UAE LTD

is an **LV System Partner for Schneider Electric**

authorized to design, assemble, test and supply low voltage power distribution switchboards and motor control centres using

Blokset & Prisma TT Systems

in the territory of **United Arab Emirates**

These switchboards & motor control centres are designed assembled and tested as per **BS EN 61439-1/2, IEC 61439-1/2** standards and in line with the latest design and practices incorporating **Schneider Electric products**.

**The Partner authorized to affix the above Logo/Badge on their power distribution boards and motor control centers.

Valid until:

March 31, 2021

Certificate No:

SEFZE/2020/014

Ahmed Khashan

Country President
Gulf Countries

Life Is On





Partner certified

by

Schneider
Electric

Certificate

This is to certify that

Verger Delporte UAE Ltd

is our **Certified Panel Builder (Platinum)**

authorized to design, assemble, test and supply low voltage power distribution switchboards and motor control centres using

Blokset System

in the territory of **United Arab Emirates**

These switchboards & motor control centres are designed, assembled and tested as per BS EN 61439-1, IEC 61439-1/2 standards and in line with the latest design and practices incorporating Schneider Electric products.

*They are authorized to affix the **above logo** on their power distribution switchboards and motor control centres.

Valid until:

March 31, 2020

Certificate No:

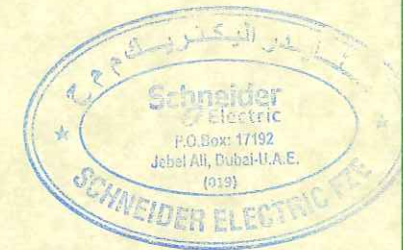
SEFZE/2019/CPBP/018

Hanan Darwish

Cluster President
Gulf Countries & Pakistan

Life Is On

Schneider
Electric





Partner certified

by
Schneider
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Valid until:

March 31, 2019

Certificate No:

SEFZE/2018/CPBP/018

Hanan Darwish
Cluster President
Gulf Countries & Pakistan



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Valid until:
March 31, 2018

Certificate No:
SEFZE/2017/CPBP/018

Hanan Darwish
Cluster President
Gulf Countries & Pakistan

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Electric





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Valid until:

March 31, 2017

Certificate No:

SEFZE/2016/CPBP/017

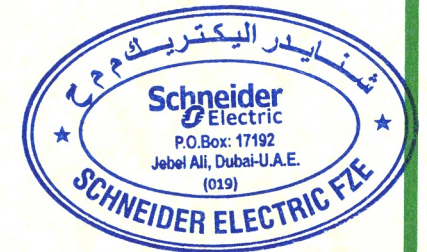
Benoit Dubarle

Country President

Gulf Countries & Pakistan

Life Is On

Schneider
Electric





Partner certified

by
Schneider
Electric

Make the most of your energySM

Certificate

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Blokset System

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These switchboards & motor control centres are designed, assembled and tested as per IEC 60439-1, BS EN 60439-1, IEC 61439-1/2 standards and in line with the latest design and practices incorporating **Schneider Electric products**.

*They are authorized to affix the **above logo** on their power distribution switchboards and motor centres.

Valid until:

March 31, 2016

Certificate No:

SE/2015/AE/CP/VDS

Benoit Dubarle

Country President

United Arab Emirates, Oman & Pakistan



Schneider

Electric



Partner certified

by

Schneider
Electric

Make the most of your energySM

Certificate

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Blokset system

in the territory of **United Arab Emirates**

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*They are authorized to affix the **above logo** on their power distribution switchboards and motor centres.

Valid until:

March 31, 2015

Certificate No:

SEFZE/2013/CPBP/VDSAE

Benoit Dubarle

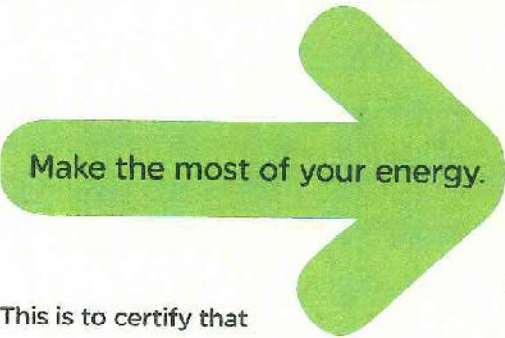
Country President

United Arab Emirates , Oman, Pakistan



Schneider

Electric



Make the most of your energy.

Certificate

This is to certify that

Verger et Delporte UAE Ltd.

is our **Franchised Panel Builder** authorized to design, assemble, test and supply low voltage power distribution switchboards and motor control centres using **Blokset System** in the territory of

United Arab Emirates

These switchboards & motor control centres are designed, assembled and tested as per IEC 60439-1, BS EN 64039-1, IEC 61439 standards and in line with the latest design and practices incorporating Schneider Electric products.

They are authorized to affix this logo **Franchised Panel Builder** on their power distribution switchboards and motor centres.

of
Schneider
Electric

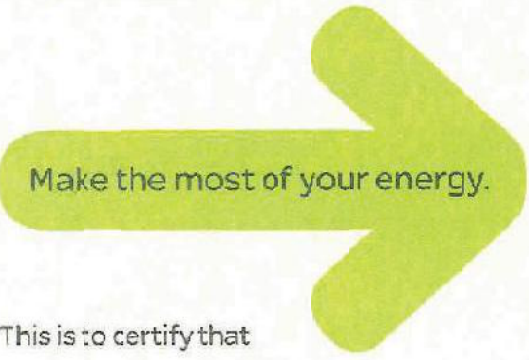
This certification is valid until **31 March 2014.**

Benoit Dubarle
Country President - UAE, Oman and Pakistan

Certificate No.: SEFZE/2013/FPB/001



Schneider
Electric



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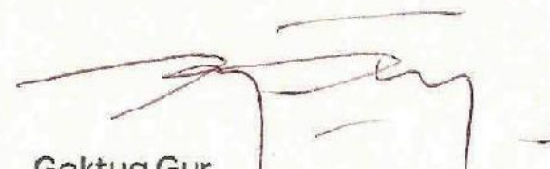
These switchboards & motor control centres are designed, assembled and tested as per IEC 60439-1, BS EN 64039-1, IEC 61439 standards and in line with the latest design and practices incorporating Schneider Electric products.

They are authorized to affix this logo **Franchised Panel Builder** on their power distribution switchboards and motor centres.



This certification is valid until **31 March 2013**.

Certificate No.: **SEFZE/2012/FPB/001**



Goktug Gur
Country President - UAE & Qman





Make the most of your energy.

Certificate

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They are authorized to affix this logo **Franchised Panel Builder** on their power distribution switchboards and motor centres.



This certification is valid until **31 March 2012.**

Certificate No.: **SEFZE/2011/FPB/001**



John A. Griffiths
Country President Gulf Countries





Make the most of your energy.

Certificate

This is to certify that

Verger et Delporte UAE Ltd.

is our **Franchised Panel Builder** authorized to design, assemble, test and supply low voltage power distribution switchboards and motor control centres using **Prisma TT & Blokset Systems** in the territory of

United Arab Emirates

These switchboards & motor control centres are designed, assembled and tested as per IEC 60439-1, BS EN 64039-1, IEC 61439 standards and in line with the latest design and practices incorporating Schneider Electric / Merlin Gerin / Telemecanique products.

They are authorized to affix this logo **Franchised Panel Builder** on their power distribution switchboards and motor centres.

of
Schneider
Electric

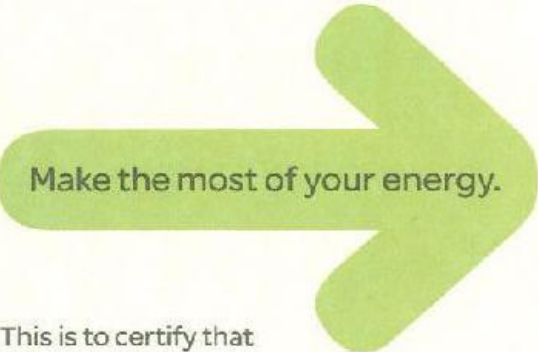


John A. Griffiths
Country President Gulf Countries

This certification is valid until **31 March 2011**.

Schneider
Electric

Certificate No.: SEFZE/2010/FPB/001



Make the most of your energy.

Certificate

This is to certify that

Verger et Delporte UAE Ltd.

is our **Franchised Panel Builder** authorized to design, assemble, test and supply low voltage power distribution switchboards and motor control centres using **Prisma TT & Blokset Systems** in the territory of

United Arab Emirates

These switchboards & motor control centres are designed, assembled and tested as per IEC 60439-1, BS EN 64039-1, IEC 61439 standards and in line with the latest design and practices incorporating Schneider Electric / Merlin Gerin / Telemecanique products.

They are authorized to affix this logo **Franchised Panel Builder** on their power distribution switchboards and motor centres.



John A. Griffiths
Managing Director - Gulf Countries

This certification is valid until **31 March 2010**.

Certificate No.: **SEFZE/2009/FPB/001**



Certificate

Franchised Panel Builder

This is to certify that

Verger et Delporte UAE Ltd.

is our **Franchised Panel Builder** authorized to design, assemble, test and supply low voltage power distribution switchboards and motor control centres using **Prisma Plus & Blokset Systems** in the territory of

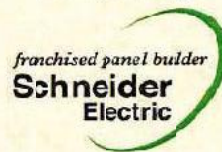
United Arab Emirates

These switchboards & motor control centres are designed, assembled and tested as per IEC 60439-1, BS EN 60439-1 standards and in line with the latest design and practices incorporating Merlin Gerin and Telemecanique products by Schneider Electric.

Schneider Electric authorizes

Verger et Delporte UAE Ltd.

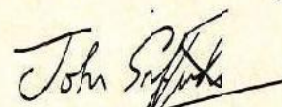
to affix this logo



on their power distribution switchboards and motor centres.

This certification is valid till **March 31, 2009.**

Schneider
Electric



JOHN A. GRIFFITHS
Managing Director-Gulf Countries

Certificate No.: **SEFZE/2008/FPB/001**



The world's trusted specialist in
**Electrical Power
and Automation
Control Solution.**


Franchised Panel Builder

Certificate

This is to certify that

VERGER et DELPORTE UAE LTD, UAE

is our "Franchised Panel Builder" authorized to design, assemble, test and supply low voltage power distribution switchboards and motor control centres using

'Prisma Plus' & 'Blokset' system under  brand

in the territory of

UNITED ARAB EMIRATES

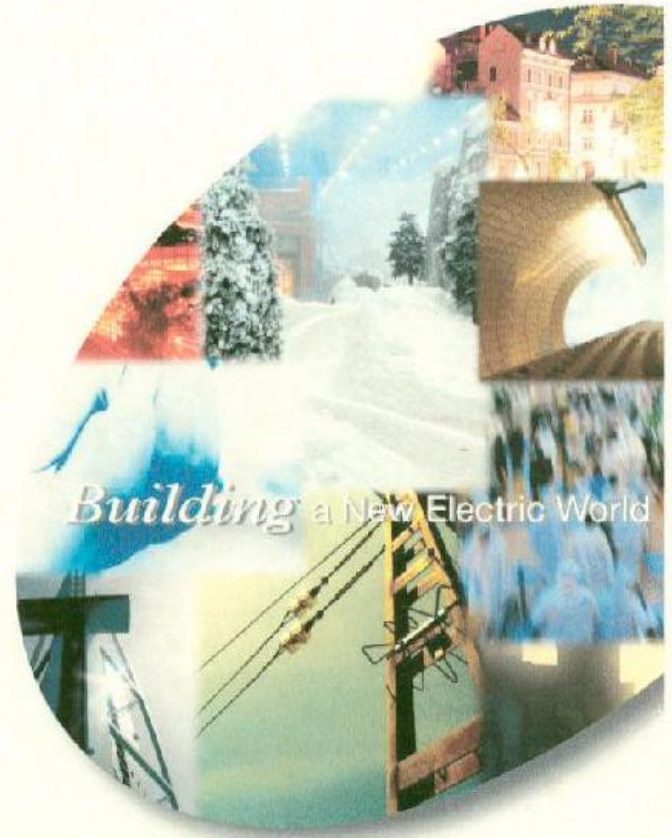
These switchboards & motor control centres are designed, assembled and tested as per **IEC 60439-1, BS EN 60439-1** standards and in line with the latest design and practices of Schneider Electric incorporating Merlin Gerin and Telemecanique brand products.

Schneider Electric authorizes **VERGER et DELPORTE UAE LTD** to affix following logo's:



on these power distribution switchboards and motor control centres.

This certificate is valid till: **31st March 2008.**




Yan T. GOLAZ
Managing Director- Gulf Countries

Schneider Electric
 **Building a New Electric World.**

Certificate No: SEFZE/2007/FPB/001


Franchised Panel Builder

Certificate

This is to certify that

VERGER et DELPORTE UAE LTD, UAE

is our "Franchised Panel Builder" authorized to design, assemble, test and supply low voltage power distribution switchboards and motor control centres using

'Prisma Plus' & 'Blokset' system under  brand

in the territory of

UNITED ARAB EMIRATES

These switchboards & motor control centres are designed, assembled and tested as per **IEC 60439-1, BS EN 60439-1** standards and in line with the latest design and practices of Schneider Electric incorporating Merlin Gerin and Telemecanique brand products.

Schneider Electric authorizes **VERGER et DELPORTE UAE LTD** to affix following logo's:



on these power distribution switchboards and motor control centres.

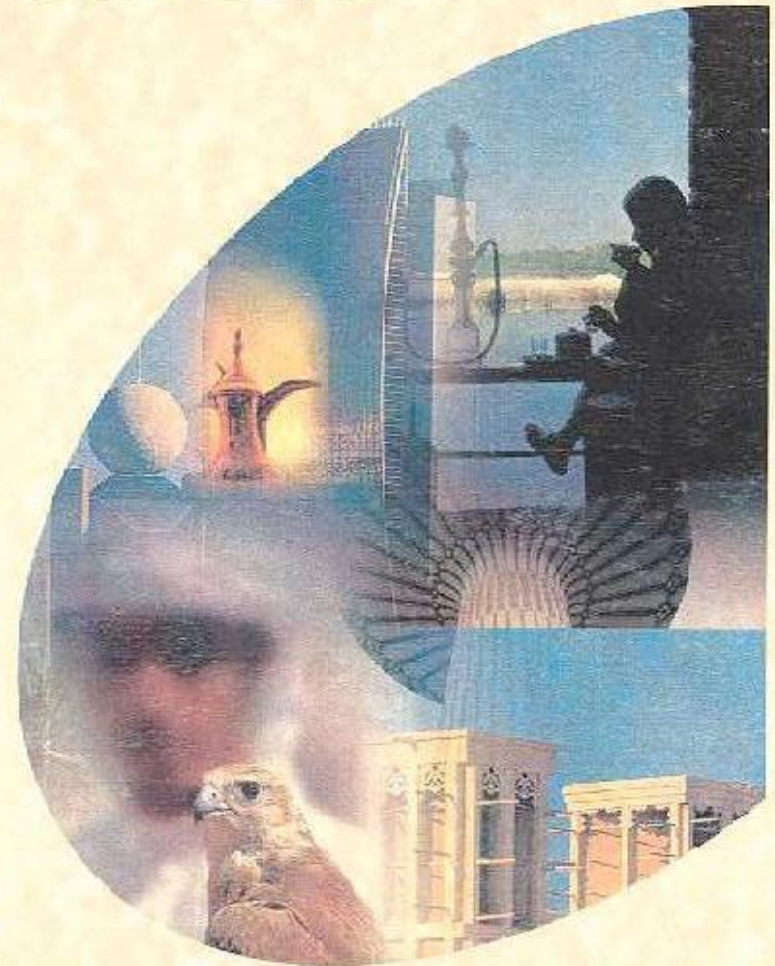
This certificate is valid till: **31st March 2007.**




Yan T. GOLAZ
Managing Director- Gulf Countries

Schneider Electric
Building a New Electric World.

Certificate No: SEP/2007/FPB/001



Franchised Panel Builder Certificate

This is to certify that

VERGER et DELPORTE UAE LTD, UAE

is our "Franchised Panel Builder" authorized to design, assemble, test and supply low voltage power distribution switchboards and motor control centres using

'PRISMA' & 'BLOKSET' system under  brand

in the territory of

UNITED ARAB EMIRATES

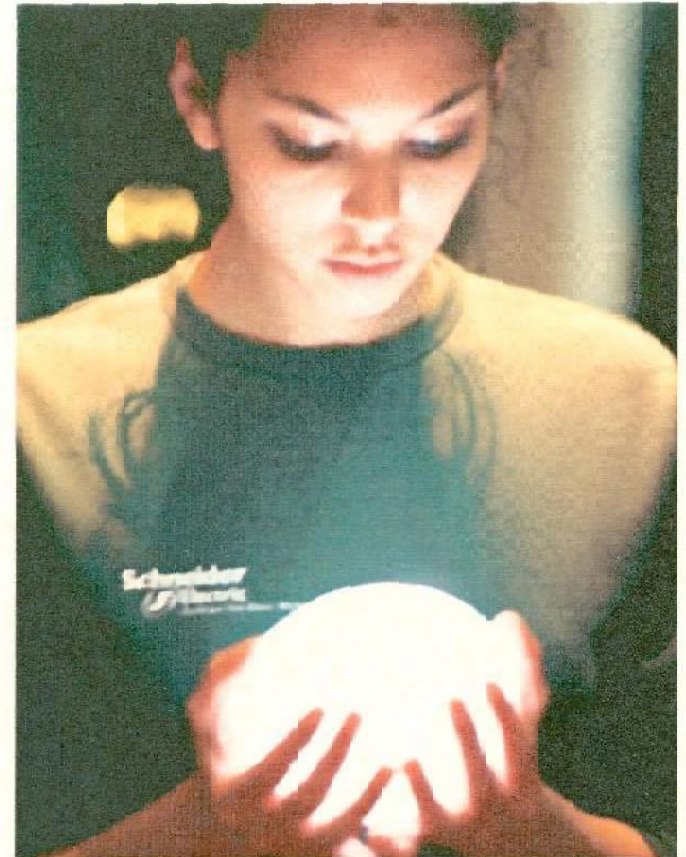
These switchboards & motor control centres are designed, assembled and tested as per IEC 60439-1, BS EN 60439-1 standards and in line with the latest design and practices of Schneider Electric incorporating Merlin Gerin and Telemecanique brand products.

Schneider Electric authorizes **VERGER et DELPORTE UAE LTD** to affix following logo's:



on these power distribution switchboards and motor control centres.

This certificate is valid till: **31st March 2006.**



Certificate No SEFZE/2005/FFB/001


Yan T. GOLAZ
Managing Director- Gulf Countries

Schneider Electric
Building a New Electric World.

This is to certify that

VERGER et DELPORTE UAE LTD

is our "Franchised Panel Builder" for the design, manufacture, assembly and quality control of low voltage power distribution switchboards and motor control centres using

'PRISMA' system up to 4000A under Merlin Gerin brand

for the territory of

UNITED ARAB EMIRATES

These switchboards & motor control centres are designed, assembled and tested as per **IEC 60439-1, BS EN 60439-1** standards and in line with the latest design and practices of Schneider Electric incorporating Merlin Gerin and Telemecanique brand products.

Schneider Electric authorizes **VERGER et DELPORTE UAE LTD** to affix label '**under franchising agreement with Schneider Electric**', together with its trademark on these power distribution switchboards and motor control centres.

This certificate is valid till: 31st December 2004.



Yan T. GOLAZ

Managing Director- Gulf Countries



This is to certify that

VERGER et DELPORTE UAE LTD

is our "Licensed Panel Builder" for the design, manufacture, assembly and quality control of low voltage power distribution switchboards and motor control centres using

'BLOKSET' system up to 6300A under Merlin Gerin brand

for the territory of

UNITED ARAB EMIRATES

These switchboards & motor control centres are designed, assembled and tested as per **IEC 60439-1, BS EN 60439-1** standards and in line with the latest design and practices of Schneider Electric incorporating Merlin Gerin and Telemecanique brand products.

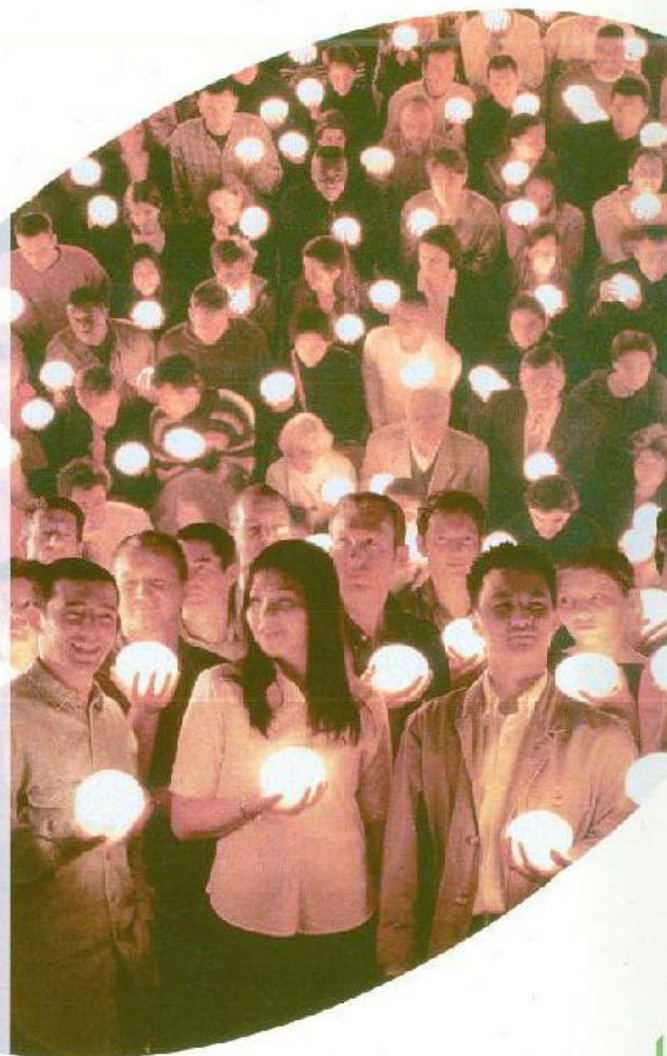
Schneider Electric authorizes **VERGER et DELPORTE UAE LTD** to affix label '**under license of Schneider Electric**', together with its trademark on these power distribution switchboards and motor control centres.

This certificate is valid till: 31st December 2004.



Yan T. GOLAZ

Managing Director- Gulf Countries



Valid for 2002

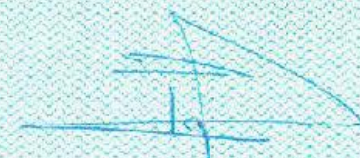
This is to certify that

**Verger Delporte UAE Ltd
Sharjah
United Arab Emirates**

*Has successfully attained the quality standards
required under the agreement
to assemble Merlin Gerin Prisma Switchboards*



J.J.Kuntz
Worldwide Quality Manager
LV Equipment



Pierre-Olivier Gil
Business Development Manager
Gulf Countries

Merlin Gerin

Modicon

Square D

Telemecanique

Schneider
 **Electric**

Get more with world's Power & Control specialist

We, SCHNEIDER ELECTRIC, certify that VERGER et DELPORTE UAE LTD are a licensed panel builder for SCHNEIDER ELECTRIC and they have a technical collaboration agreement with us for the design, assembly and quality control of low voltage switchboards and systems :

- a) MERLIN GERIN Prisma range up to 3200 A
- b) MERLIN GERIN Masterbloc range up to 6300 A
- c) TELEMECANIQUE TDI Motor Control Centres

VERGER et DELPORTE UAE LTD design and test their equipment as per BS5486 part 1 and IEC439-1 1985 and in line with the latest designs and practices of SCHNEIDER ELECTRIC

VERGER et DELPORTE UAE LTD are also authorised to affix a label "under licence from SCHNEIDER ELECTRIC" together with their own trademark on their equipment

J. Lasaunière

JC. Lasaunière
15 January 1997



GROUPE SCHNEIDER

Merlin Gerin ■ Square D ■ Telemecanique

P.O. Box 9851
Dubai, U.A.E.
tel : (04) 318619
fax : (04) 318698
telex : 46514 merge EW

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٠٤٣١٨٦٩٨
٠٤٣١٨٦٩٨

Mr Pierre Camus
Verger & Delporte
Po Box 5629
Sharjah

Ref : DCC/1742
9th June 1993,

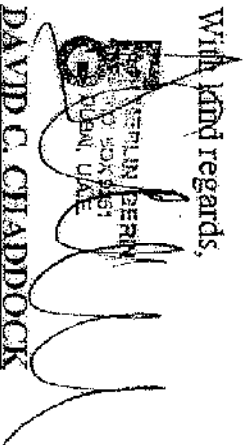
Dear Mr Camus,

We write to confirm that following discussions and satisfactory progress in your panel building operations, the franchise agreement between Merlin Gerin and Verger & Delporte will be expanded to include the switchboard systems known as MASTERBLOCK Types MB100, MB200 and MB400.

It is intended that this franchise will be exercised only within the United Arab Emirates. Export opportunities must be referred to this office.

I trust you will achieve maximum value from this increased facility.

With kind regards,



DAVID C. CLADDOCK
Area Manager

cc : S. Manin - DINT/O
cc : Ph. Pulfer - TBT
cc : M. Mace - TBT

P. O. Box 9251
DUBAI, U.A.E.
Phone : (04) 379619
Fax : (04) 379698
Telex : 46314 MERGE EM

ص.ب. : 9251
دبي - ا.ع.أ.
هاتف : 379619 (04)
فاكس : 379698 (04)
تلغراف : 46314
م.ب. : 46314



MERLIN GERIN

date 4th December 1991,

via PNV/tp/1310

phone

Subject: OUR LOW VOLTAGE ACTIVITY IN UAE
OUR LETTER REF. KP/TP DATED 23RD NOVEMBER 1991

Dear Sir/s,

We wish to draw your kind attention towards our above mentioned letter regarding our low voltage activity in the U.A.E. and to give you complete information on our low voltage activity in U. A. E. as follows :-

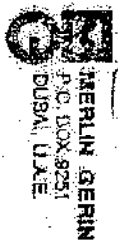
as a matter of principal, we did not appoint any exclusive agent in the U.A.E but we have a franchising contract with M/S Verger & Delporte U.A.E Ltd, Sharjah for assembling the low voltage switchgear in U.A.E. M/S Verger & Delporte U.A.E Ltd is bound with us by a technical cooperation contract.

Aware of our liabilities in the matter of electrical safety and personnel protection, we regularly carry out technical tests and organise training sessions for the personnel of M/S Verger & Delporte U.A.E. Ltd. For this reason, we authorised them to stick our quality label - as per the attached copy - on the switchgear assembled by them in Sharjah.

We wish to mention here that M/S Verger & Delporte U.A.E. Ltd are also our wholesale distributors in the U.A.E.

Many thanks for your kind cooperation, we remain,
Yours truly,

PHILIPPE VIALE
Gulf Area Manager



CORPORATE HEADQUARTER
MERLIN GERIN
38050 GRENOBLE CEDEX
Telex MERGE 320 842 F

الكتب الرئيسية
مسؤول لبيع المعدات
38050 كروني غرينوبل
تلغراف : 320 842 ف

rue Georges de Manteyer
141 17615760/60
télax 320842

adresse postale :
38050 GRENOBLE CEDEX
France



A MERLIN GERIN ALPES QUALITY LABEL FOR THE AGREED L.V. DISTRIBUTION EQUIPMENT WORKSHOPS

Sir,

The manufacture of L.V. Distribution Equipment Assemblies requires serious professional skills from parabolbuilders. Especially, it is essential, for the consumer's electrical safety, that they should be familiar with standards in force and comply with them.

In France, since 1974, M.G.A. has been developing a network of L.V. D.E. workshops which are bound with them by a franchising contract.

In the scope of this action, other workshops, like VERIDR DELPORTE U.A.E. Ltd in SHARJAH (United Arab Emirates), are bound with M.G.A. by a technical cooperation contract.

Aware of their liabilities in matters of electrical safety and personnel protection, M.G.A. regularly carry out technical tests and organize training sessions for the personnel of these workshops.

So as to concretize the quality of their equipment, conform in every way with technical standards in force at M.G.A., these workshops have, at present, the possibility to stick this label on the equipment they manufacture.



For M.G.A., a quality label is a means to improve electrical safety.
Yours sincerely,

G. MIGNOT
Assesseur to parabolbuilders department M.G.A.

société à responsabilité limitée
capital 2.250.000 F
siège social : rue Henri Tarza, Grenoble
usines : BP 18
78000 MONTMELLIAN

rc : Grenoble B 054.500.333
ccp : Lyon 148048
télég. Morigr Grenoble

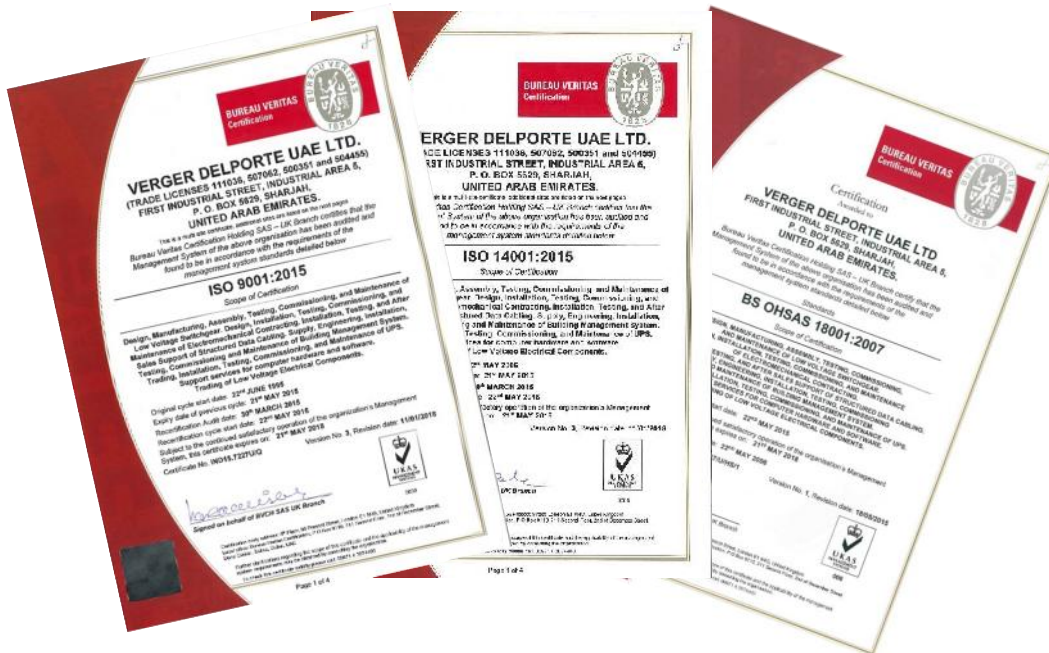


17.0 QHSE CERTIFICATES

We always believe that Quality Excellence is inseparable from Health, Safety and environment and it is for this reason we decided to have an Integrated Management System (IMS – ISO 9001, ISO 140001 and BS OHSAS 18001). By having IMS, we are continually proving our deepest concern not only in satisfying our customer’s needs but also to protect the health and safety of our personnel, customers, any interested parties, materials/ equipments as well as the environment where we work and live.

With the continued dedication and commitment towards QHSE since 1995, we had been certified in May 2012 for ISO 9001, ISO 14001 and OHSAS 18001.

1. ISO 9001:2015 for Quality
2. ISO 14001:2015 for Environment
3. BS OHSAS 18001:2007 for Health and Safety



BUREAU VERITAS
Certification



VERGER DELPORTE UAE LTD.
(TRADE LICENSES 111036, 507062, 500351 and 504455)
**FIRST INDUSTRIAL STREET, INDUSTRIAL AREA 5,
P. O. BOX 5629, SHARJAH,
UNITED ARAB EMIRATES.**

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

ISO 9001:2015

Scope of Certification

Design, Manufacturing, Assembly, Installation, Testing, Commissioning, and Maintenance of Low Voltage Switchgear. Design, Installation, Testing, Commissioning, and Maintenance of Electromechanical Contracting. Installation, Testing, and After Sales Support of Structured Data Cabling. Supply, Engineering, Installation, Testing, Commissioning and Maintenance of Building Management System. Trading, Installation, Testing, Commissioning, and Maintenance of UPS. Support services for computer hardware and software. Trading of Low Voltage Electrical Components.

Original cycle start date: **22nd JUNE 1995**

Expiry date of previous cycle: **21st MAY 2018**

Recertification Audit date: **8th MARCH 2018**

Recertification cycle start date: **21st MAY 2018**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **21st MAY 2021**

Certificate No. **IND18.8259U/Q 1-4**

Version No. **1**, Revision date: **21/05/2018**



Signed on behalf of BVCH SAS UK Branch



0008

Certification body address: 5th Floor, 66 Prescott Street, London E1 8HG, United Kingdom
Local office: Bureau Veritas Certification, 2nd Floor, Block C, Al Hudaiba Awards Building,
2nd December Street, Dubai, UAE.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.

To check this certificate validity please call: 00971 4 3074400

BUREAU VERITAS
Certification



VERGER DELPORTE UAE LTD.
(TRADE LICENSES 111036, 507062, 500351 and 504455)
**FIRST INDUSTRIAL STREET, INDUSTRIAL AREA 5,
P. O. BOX 5629, SHARJAH,
UNITED ARAB EMIRATES.**

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

ISO 14001:2015

Scope of Certification

Design, Manufacturing, Assembly, Installation, Testing, Commissioning, and Maintenance of Low Voltage Switchgear. Design, Installation, Testing, Commissioning, and Maintenance of Electromechanical Contracting. Installation, Testing, and After Sales Support of Structured Data Cabling. Supply, Engineering, Installation, Testing, Commissioning and Maintenance of Building Management System. Trading, Installation, Testing, Commissioning, and Maintenance of UPS. Support services for computer hardware and software. Trading of Low Voltage Electrical Components.

Original cycle start date: **22nd MAY 2006**

Expiry date of previous cycle: **21st MAY 2018**

Recertification Audit date: **8th MARCH 2018**

Recertification cycle start date: **21st MAY 2018**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **21st MAY 2021**

Certificate No. **IND18.8259U/E 1-4**

Version No. **1**, Revision date: **21/05/2018**

Signed on behalf of BVCH SAS UK Branch



0008

Certification body address: 5th Floor, 66 Prescot Street, London E1 8HG, United Kingdom
Local office: Bureau Veritas Certification, 2nd Floor, Block C, Al Hudaiba Awards Building,
2nd December Street, Dubai, UAE.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.

To check this certificate validity please call: 00971 4 3074400

BUREAU VERITAS
Certification



VERGER DELPORTE UAE LTD.
(TRADE LICENSES 111036, 507062, 500351 and 504455)
FIRST INDUSTRIAL STREET, INDUSTRIAL AREA 5,
P. O. BOX 5629, SHARJAH,
UNITED ARAB EMIRATES.

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

BS OHSAS 18001:2007

Scope of Certification

Design, Manufacturing, Assembly, Installation, Testing, Commissioning, and Maintenance of Low Voltage Switchgear. Design, Installation, Testing, Commissioning, and Maintenance of Electromechanical Contracting. Installation, Testing, and After Sales Support of Structured Data Cabling. Supply, Engineering, Installation, Testing, Commissioning and Maintenance of Building Management System. Trading, Installation, Testing, Commissioning, and Maintenance of UPS. Support services for computer hardware and software. Trading of Low Voltage Electrical Components.

Original cycle start date: **22nd MAY 2006**

Expiry date of previous cycle: **21st MAY 2018**

Recertification Audit date: **8th MARCH 2018**

Recertification cycle start date: **21st MAY 2018**

Subject to the continued satisfactory operation of the organization's Management System, this certificate expires on: **11th MARCH 2021**

Certificate No. **IND18.8259U/HS 1-4**

Version No. **1**, Revision date: **21/05/2018**

Signed on behalf of BVCH SAS UK Branch



0008

Certification body address: 5th Floor, 66 Prescot Street, London E1 8HG, United Kingdom
Local office: Bureau Veritas Certification, 2nd Floor, Block C, Al Hudaiba Awards Building,
2nd December Street, Dubai, UAE.

Further clarifications regarding the scope of this certificate and the applicability of the management system requirements may be obtained by consulting the organisation.

To check this certificate validity please call: 00971 4 3074400

18.0 TYPE TEST CERTIFICATES

SL. No.	DESIGNATION	CERTIFICATE No.	CERTIFIED BY
1	CAMGRO SYSTEM – 6000A Main Distribution Board / MCC	130a-11BT	ASEFA
2	CAMGRO SYSTEM - 4000A Main Distribution Board / MCC	129c-11BT	ASEFA
3	CAMGRO SYSTEM - 3200A Main Distribution Board / MCC	062-12BT	ASEFA
4	CAMGRO SYSTEM - 2500A Main Distribution Board / MCC	004a-11BT	ASEFA
5	CAMGRO SYSTEM - 1600A Main Distribution Board / MCC	003a-11BT	ASEFA
6	CAMGRO SYSTEM - 1000A Main Distribution Board / MCC	002a-11BT	ASEFA
7	CAMGRO SYSTEM - 630A MDB / SMDB / MCC	2147939.101	DEKRA
8	CAMGRO SYSTEM - 250A MDB / SMDB / MCC	2147939.100	DEKRA
9	Certificate of Internal Arcing Type: BLOKSET type 132	018a-08BT	ASEFA
10	CAMGRO S4 SYSTEM – 800A SUB MAIN DISTRIBUTION BOARD	2137902-105	DEKRA
11	CAMGRO S3 SYSTEM – 630A SUB MAIN DISTRIBUTION BOARD	2137902-104	DEKRA
12	CAMGRO S2 SYSTEM – 400A SUB MAIN DISTRIBUTION BOARD	2137902-103	DEKRA

**copies available on request*

18.0 TYPE TEST CERTIFICATES

SL.No.	DESIGNATION	CERTIFICATE No.	CERTIFIED BY
13	CAMGRO S1 SYSTEM – 250A SUB MAIN DISTRIBUTION BOARD	2137902-102	DEKRA
14	CAMGRO F4 SYSTEM -250A Final Distribution Board O/G-25kA	2145021.101	DEKRA
15	CAMGRO F3 SYSTEM -250A Final Distribution Board O/G-15kA	2145021.100	DEKRA
16	CAMGRO F2 SYSTEM -250A Final Distribution Board O/G-10kA	2137902.101	DEKRA
17	CAMGRO F1 SYSTEM -125A Split Type Final Distribution Board	2137902.100	DEKRA
18	4000A Main Distribution Board Type: Euroform Switchboard	18101	ASTA
19	2500A Main Distribution Board Type: Euroform Switchboard	18103	ASTA
20	1600A Main Distribution Board Type: Euroform Switchboard	18105	ASTA
21	1000A Main Distribution Board Type: Euroform Switchboard	18107	ASTA
22	630A Main Distribution Board Type: Euroform Switchboard	2148038.100	DEKRA
23	250A Main Distribution Board Type: Euroform Switchboard	2148038.101	DEKRA
24	Certificate of Internal Arcing Type: Euro form Switchboard	17482	ASTA

**copies available on request*

Certificat de conformité / certificate of conformity n° 130a-11BT

Annule et remplace le certificat de conformité / Cancels and replaces certificate of conformity n°130-11BT

livré à / issued to : Verger et Delporte UAE Ltd
P.O. BOX: 5629,
Sharjah - UNITED ARAB EMIRATES

pour le matériel / for the apparatus : Ensemble d'appareillage à basse tension / Low-voltage
switchgear and controlgear assembly

référence / reference : CAMGRO SYSTEM - 6000A Main Distribution Board / MCC

constructeur / manufacturer : VERGER et DELPORTE UAE Ltd
P.O. BOX: 5629, Sharjah - UNITED ARAB EMIRATES

marque commerciale / trademark : Verger et Delporte

elon le(s) référentiel(s) / according to standard(s) :

IEC / IEC 61439-1 (2009-01), CEI / IEC 61439-2 (2009-01) :

Construction

- § 10.2 Résistance des matériaux et des parties / *Strength of materials and parts*
- § 10.3 Degré de protection procuré par les ensembles / *Degree of protection of assemblies*
- § 10.4 Distances d'isolement et lignes de fuite / *Clearances and creepage distances*
- § 10.5 Protection contre les chocs électriques et intégrité du circuit de protection / *Protection against electric shock and integrity of protective circuits*
- § 10.6 Intégration des appareils de connexion et des composants / *Incorporating of switching devices and components*
- § 10.7 Circuits électriques internes et connexions / *Internal electrical circuits and connections*
- § 10.8 Bornes pour conducteurs externes / *Terminals of external conductors*

Performance

- § 10.9 Propriétés diélectriques / *Dielectric properties*
- § 10.10 Vérification de l'échauffement / *Verification of temperature rise*
- § 10.11 Tenue aux courts-circuits / *Short-circuit withstand strength*
- § 10.12 Compatibilité électromagnétique / *Electromagnetic compatibility*
- § 10.13 Fonctionnement mécanique / *Mechanical operation*

aractéristiques assignées / rated characteristics :

voir en annexe / see Annex

ocument(s) pris en compte (s) / relevant document(s) :

rapport (s) d'essai / *Test report (s)* : 201106253_001 du/dated 2011-11-16, 99848-598358C du/dated 2011-10-20

respectivement émis par les laboratoires homologués ASEFA L2E (F01/F03) et E01 / *Respectively issued by ASEFA approved laboratories L2E (F01/F03) and E01*

ce certificat ne s'applique qu'à l'échantillon soumis à l'essai de type / *This certificate applies only to the sample submitted to the type test.*

Le Président de l'ASEFA / *The chairman of ASEFA,*



Claude MENGUY

production de ce certificat... / This certificate of conformity shall only be reproduced in the form of a complete photographic fac simile.

av du général leclerc
260 Fontenay-aux-roses – France
01 40 95 61 02
mail : asefa@lcie.fr

Certificat de conformité / certificate of conformity n° 129c-11BT

Annule et remplace le certificat de conformité / Cancels and replaces certificate of conformity n°129b-11BT

délivré à / issued to : Verger et Delporte UAE Ltd
P.O. BOX: 5629,
Sharjah - UNITED ARAB EMIRATES

pour le matériel / for the apparatus : Ensemble d'appareillage à basse tension / Low-voltage switchgear and controlgear assembly

référence / reference : CAMGRO SYSTEM - 4000A Main Distribution Board / MCC

constructeur / manufacturer : VERGER et DELPORTE UAE Ltd
P.O. BOX: 5629, Sharjah - UNITED ARAB EMIRATES

marque commerciale / trademark : Verger et Delporte

selon le(s) référentiel(s) / according to standard(s) :

CEI / IEC 61439-1 (2009-01), CEI / IEC 61439-2 (2009-01) :

Construction

- § 10.2 Résistance des matériaux et des parties / *Strength of materials and parts*
- § 10.3 Degré de protection procuré par les ensembles / *Degree of protection of assemblies*
- § 10.4 Distances d'isolement et lignes de fuite / *Clearances and creepage distances*
- § 10.5 Protection contre les chocs électriques et intégrité du circuit de protection / *Protection against electric shock and integrity of protective circuits*
- § 10.6 Intégration des appareils de connexion et des composants / *Incorporating of switching devices and components*
- § 10.7 Circuits électriques internes et connexions / *Internal electrical circuits and connections*
- § 10.8 Bornes pour conducteurs externes / *Terminals of external conductors*

Performance

- § 10.9 Propriétés diélectriques / *Dielectric properties*
- § 10.10 Vérification de l'échauffement / *Verification of temperature rise*
- § 10.11 Tenue aux courts-circuits / *Short-circuit withstand strength*
- § 10.12 Compatibilité électromagnétique / *Electromagnetic compatibility*
- § 10.13 Fonctionnement mécanique / *Mechanical operation*

caractéristiques assignées / rated characteristics :

voir en annexe / see Annex

document(s) pris en compte (s) / relevant document(s) :

rapport (s) d'essai / *Test report (s) :* 201106253_002-v1 du/dated 2012-01-05, 99848-598358C du/dated 2011-10-20 respectivement émis par les laboratoires homologués ASEFA L2E (F01/F03) et E01 / *Respectively issued by ASEFA approved laboratories L2E (F01/F03) and E01*

certificat de conformité qui s'applique à l'échantillon soumis à l'essai de type / *This certificate applies only to the sample submitted to the type test.*

Fontenay-aux-Roses
2012-02-06

Le Président de l'ASEFA / *The chairman of ASEFA,*



Michel BRENON

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au service du général leclerc
260 Fontenay-aux-roses – France
01 40 95 61 02
mail : asefa@lcie.fr

Certificat de conformité / certificate of conformity n° 062-12BT

délivré à / issued to : Verger et Delporte UAE Ltd
P.O. BOX: 5629,
Sharjah - UNITED ARAB EMIRATES

pour le matériel / for the apparatus : Ensemble d'appareillage à basse tension / Low-voltage
switchgear and controlgear assembly

référence / reference : CAMGRO SYSTEM - 3200A Main Distribution System / MCC

constructeur / manufacturer : VERGER et DELPORTE UAE Ltd
P.O. BOX: 5629, Sharjah - UNITED ARAB EMIRATES

marque commerciale / trademark : Verger et Delporte

selon le(s) référentiel(s) / according to standard(s) :

CEI / IEC 61439-1 (2009-01), CEI / IEC 61439-2 (2009-01) :

Construction

- § 10.2 Résistance des matériaux et des parties / *Strength of materials and parts*
- § 10.3 Degré de protection procuré par les ensembles / *Degree of protection of assemblies*
- § 10.4 Distances d'isolement et lignes de fuite / *Clearances and creepage distances*
- § 10.5 Protection contre les chocs électriques et intégrité du circuit de protection / *Protection against electric shock and integrity of protective circuits*
- § 10.6 Intégration des appareils de connexion et des composants / *Incorporating of switching devices and components*
- § 10.7 Circuits électriques internes et connexions / *Internal electrical circuits and connections*
- § 10.8 Bornes pour conducteurs externes / *Terminals of external conductors*

Performance

- § 10.9 Propriétés diélectriques / *Dielectric properties*
- § 10.10 Vérification de l'échauffement / *Verification of temperature rise*
- § 10.11 Tenue aux courts-circuits / *Short-circuit withstand strength*
- § 10.12 Compatibilité électromagnétique / *Electromagnetic compatibility*
- § 10.13 Fonctionnement mécanique / *Mechanical operation*

caractéristiques assignées / rated characteristics :

voir en annexe / see Annex

document(s) pris en compte (s) / relevant document(s) :

Rapport (s) d'essai / *Test report (s)* : 201106253_003 du/dated 2012-04-30, 99848-598358C du/dated 2011-10-20

Respectivement émis par les laboratoires homologués ASEFA L2E (F01/F03) et E01 / *Respectively issued by ASEFA approved laboratories L2E (F01/F03) and E01*

ne s'applique qu'à l'échantillon soumis à l'essai de type / *This certificate applies only to the sample submitted to the type test.*

Fontenay-aux-roses,

Le / on : 2012-04-30

Le Président de l'ASEFA / *The chairman of ASEFA,*



Michel BRÉNON

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Certificat de conformité / certificate of conformity n° 004a-11BT

Annule et remplace le certificat de conformité / Cancels and replaces certificate of conformity N° 004-11BT

délivré à / issued to VERGER et DELPORTE UAE Ltd
P.O. BOX: 5629,
Sharjah - UNITED ARAB EMIRATES

pour le matériel / for the apparatus : Ensemble d'appareillage à basse tension / Low-voltage switchgear and controlgear assembly

référence / reference : CAMGRO SYSTEM - 2500A Main Distribution Board / MCC

constructeur / manufacturer : VERGER et DELPORTE UAE Ltd
P.O. BOX: 5629, Sharjah and P.O. BOX: 47010, Abu Dhabi
UNITED ARAB EMIRATES

marque commerciale / trademark : Verger et Delporte

selon le(s) référentiel(s) / according to standard(s) :

CEI / IEC 61439-1 (2009-01), CEI / IEC 61439-2 (2009-01) :

Construction

- §10.2 Vérification de la résistance des matériaux et des parties : corrosion, matériaux isolants, levage / Verification of strength of materials and parts: corrosion, insulating materials, lifting
- §10.3 Vérification du degré de protection / Verification of degree of protection
- §10.4 Vérification des distances d'isolement et lignes de fuite / Verification of clearances and creepage distances
- §10.5 Vérification de l'efficacité du circuit de protection / Verification of the effectiveness of the protective circuit
- §10.6 Vérification de l'intégration des appareils de connexion et des composants / Verification of incorporation of switching devices and components
- §10.7 Vérification des circuits électriques internes et connexions / Verification of internal electrical circuits and connections
- §10.8 Vérification des bornes pour conducteurs externes / Verification of terminals of external conductors

Performance

- §10.9 Vérification des propriétés diélectriques / Verification of dielectric properties
- §10.10 Vérification de l'échauffement / Verification of temperature-rise
- §10.11 Vérification de la tenue aux courts-circuits / Verification of short-circuit withstand strength
- §10.12 Vérification de la compatibilité électromagnétique / Verification of electromagnetic compatibility
- §10.13 Vérification du fonctionnement mécanique / Verification of mechanical operation

Caractéristiques assignées / rated characteristics :

voir annexe / see Annex

Documents pris en compte (s) / relevant document(s) :

Rapport(s) d'essai / Test report (s) : 201006056_003-v2 du/dated 2011-02-28, 99848-598358B du/dated 2010-05-31

(Respectivement émis par les laboratoires homologués ASEFA L2E (F01/F03) et E01 / Respectively issued by ASEFA approved laboratories L2E (F01/F03) and E01)

Ce certificat ne s'applique qu'à l'échantillon soumis à l'essai de type / This certificate applies only to the sample submitted to the type test.

Fontenay-aux-Roses,
Le / on : 2011-03-29

Le Président de l'ASEFA / The chairman of ASEFA,



Michel BRÉNON

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Certificat de conformité BT version E / Certificate of conformity BT version E

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Certificat de conformité / certificate of conformity n° 003a-11BT

Annule et remplace le certificat de conformité / Cancels and replaces certificate of conformity N° 003-11BT

délivré à / issued to : Verger et Delporte UAE Ltd
P.O. BOX: 5629,
Sharjah - UNITED ARAB EMIRATES

pour le matériel / for the apparatus : Ensemble d'appareillage à basse tension / Low-voltage switchgear and controlgear assembly

référence / reference : CAMGRO SYSTEM - 1600A Main Distribution Board / MCC

constructeur / manufacturer : VERGER et DELPORTE UAE Ltd
P.O. BOX: 5629, Sharjah and P.O. BOX: 47010, Abu Dhabi
UNITED ARAB EMIRATES

marque commerciale / trademark : Verger et Delporte

selon le(s) référentiel(s) / according to standard(s) :

CEI / IEC 61439-1 (2009-01), CEI / IEC 61439-2 (2009-01) :

Construction

- §10.2 Vérification de la résistance des matériaux et des parties : corrosion, matériaux isolants, levage / Verification of strength of materials and parts: corrosion, insulating materials, lifting
- §10.3 Vérification du degré de protection / Verification of degree of protection
- §10.4 Vérification des distances d'isolement et lignes de fuite / Verification of clearances and creepage distances
- §10.5 Vérification de l'efficacité du circuit de protection / Verification of the effectiveness of the protective circuit
- §10.6 Vérification de l'intégration des appareils de connexion et des composants / Verification of incorporation of switching devices and components
- §10.7 Vérification des circuits électriques internes et connexions / Verification of internal electrical circuits and connections
- §10.8 Vérification des bornes pour conducteurs externes / Verification of terminals of external conductors

Performance

- §10.9 Vérification des propriétés diélectriques / Verification of dielectric properties
- §10.10 Vérification de l'échauffement / Verification of temperature-rise
- §10.11 Vérification de la tenue aux courts-circuits / Verification of short-circuit withstand strength
- §10.12 Vérification de la compatibilité électromagnétique / Verification of electromagnetic compatibility
- Vérification du fonctionnement mécanique / Verification of mechanical operation

Caractéristiques assignées / rated characteristics :

voir annexe / see Annex

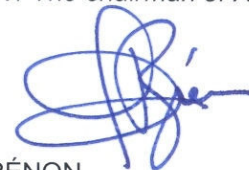
document(s) pris en compte (s) / relevant document(s) :

Rapport (s) / report (s) : 201006056_002-v2 du/dated 2011-02-28, 99848-598358B du/dated 2010-05-31
(Respectivement émis par les laboratoires homologués ASEFA L2E (F01/F03) et E01 / Respectively issued by ASEFA approved laboratories L2E (F01/F03) and E01)

Ce certificat ne s'applique qu'à l'échantillon soumis à l'essai de type / This certificate applies only to the sample submitted to the type test.

Fontenay-aux-Roses,
Le / on : 2011-03-29

Le Président de l'ASEFA / The chairman of ASEFA,



Michel BRÉNON

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Certificat de conformité BT version E / Certificate of conformity BT version E

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Certificat de conformité / certificate of conformity n° 002a-11BT

Annule et remplace le certificat de conformité / Cancels and replaces certificate of conformity N° 002-11BT

délivré à / issued to : Verger et Delporte UAE Ltd
P.O. BOX: 5629,
Sharjah - UNITED ARAB EMIRATES

pour le matériel / for the apparatus : Ensemble d'appareillage à basse tension / Low-voltage switchgear and controlgear assembly

référence / reference : CAMGRO SYSTEM - 1000A Main Distribution Board / MCC

constructeur / manufacturer : Verger et Delporte UAE Ltd
P.O. BOX: 5629, Sharjah and P.O. BOX: 47010, Abu Dhabi
UNITED ARAB EMIRATES

marque commerciale / trademark : Verger et Delporte

selon le(s) référentiel(s) / according to standard(s) :

CEI / IEC 61439-1 (2009-01), CEI / IEC 61439-2 (2009-01) :

Construction

- §10.2 Vérification de la résistance des matériaux et des parties : corrosion, matériaux isolants, levage / Verification of strength of materials and parts: corrosion, insulating materials, lifting
- §10.3 Vérification du degré de protection / Verification of degree of protection
- §10.4 Vérification des distances d'isolement et lignes de fuite / Verification of clearances and creepage distances
- §10.5 Vérification de l'efficacité du circuit de protection / Verification of the effectiveness of the protective circuit
- §10.6 Vérification de l'intégration des appareils de connexion et des composants / Verification of incorporation of switching devices and components
- §10.7 Vérification des circuits électriques internes et connexions / Verification of internal electrical circuits and connections
- §10.8 Vérification des bornes pour conducteurs externes / Verification of terminals of external conductors

Performance

- §10.9 Vérification des propriétés diélectriques / Verification of dielectric properties
- §10.10 Vérification de l'échauffement / Verification of temperature-rise
- §10.11 Vérification de la tenue aux courts-circuits / Verification of short-circuit withstand strength
- §10.12 Vérification de la compatibilité électromagnétique / Verification of electromagnetic compatibility
- 10.13 Vérification du fonctionnement mécanique / Verification of mechanical operation

caractéristiques assignées / rated characteristics :

voir en annexe / see Annex

document(s) pris en compte (s) / relevant document(s) :

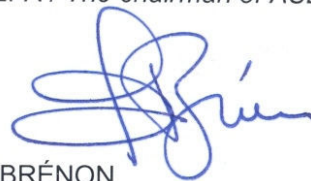
rapport (s) d'essai / Test report (s) : 201006056_001-v2 du/dated 2011-02-28, 99848-598358B du/dated 2010-05-31

(Respectivement émis par les laboratoires homologués ASEFA L2E (F01/F03) et E01 / Respectively issued by ASEFA approved laboratories (F01/F03) and E01)

Ce certificat s'applique à l'échantillon soumis à l'essai de type / This certificate applies only to the sample submitted to the type test.

Fontenay-aux-Roses,
Le / on : 2011-03-29

Le Président de l'ASEFA / The chairman of ASEFA,



Michel BRÉNON

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Certificat de conformité BT version E / Certificate of conformity BT version E

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TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: CAMGRO System 630A MDB/SMDB/MCC

Ratings: Ui 1000/800/690 V, Uimp 8 kV, Ue 415 V, InA 630 A,
Icw 50 kA – 1,0 s, Icc 50 kA at 415 V, Ipk 105 kA

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2011
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (2 pages) for more specifications
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project

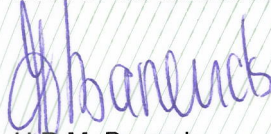
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2147939.02-INC, dated 30 April, 2012.

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

Arnhem, 23 July 2012

Number: 2147939.101

DEKRA Certification B.V.



H.R.M. Barends
Certification Manager

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TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: CAMGRO System 250A MDB/SMDB/MCC

Ratings: Ui 1000/800/690 V, Uimp 8 / 6 kV, Ue 415 V, InA 250 A,
Icw 50 kA – 1,0 s, Icc 50 kA at 415 V, Ipk 105 kA

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2011
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (2 pages) for more specifications
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2147939.01-INC, dated 30 April, 2012.

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

Arnhem, 23 July 2012

Number: 2147939.100

DEKRA Certification B.V.

H.R.M. Barends
Certification Manager

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DEKRA Certification B.V. Utrechtseweg 310, 6812 AR Arnhem P.O. Box 5185, 6802 ED Arnhem, The Netherlands
T +31 26 356 2000 F +31 26 352 5800 www.dekra-certification.com Company registration 09085396

Certificat de conformité / Certificate of conformity n° 018a-08BT

Annule et remplace le certificat de conformité n°018-08BT / Cancels and replaces certificate of conformity n°018-08BT

délivré à / issued to : SCHNEIDER ELECTRIC INDUSTRIES SAS
89, boulevard Franklin Roosevelt
92500 RUEIL MALMAISON
FRANCE

pour le matériel / for the apparatus : Ensemble d'appareillage à basse tension / Low-voltage switchgear and controlgear assembly

référence / reference : BLOKSET Switchboard, types D and Mw

constructeur / manufacturer : SCHNEIDER ELECTRIC SA

marque commerciale / trademark : SCHNEIDER ELECTRIC

selon le(s) référentiel(s) / according to standard(s) :

CEI / IEC 61641 version 1 (1996-01) criteria 1 à / to 5, Essai en conditions d'arc dues à un défaut interne / Test under conditions of arcing due to internal fault

caractéristiques assignées / rated characteristics :

Courant d'emploi / Operational current, Ie (A)	3200 A
Tension d'emploi / Operational voltage, Ue	690 Vac
Fréquence / Frequency	50 Hz - 60 Hz
Tension d'isolement / Insulation voltage, Ui	1000 Vac
Tension de tenue aux chocs / Impulse withstand voltage, Uimp	12 kV (Circuit principal / Main circuit)
Tenue au courant de courte durée admissible / Short-time withstand current, Icw	85 kA - 1s
Courant admissible de court-circuit conditionnel en conditions d'arc et durée d'arc et tension de fonctionnement associées / Permissible conditional short-circuit current under arcing conditions and associated arc duration and operational voltage	85 kA - 0.4 s, 415 V
Jeu de barres principal / Main busbar	Horizontal : 5 x 100 mm x 5 mm (Cu) / phase
Jeu de barres de distribution / Distribution busbar	Vertical : 1 x 80 mm x 6 mm (Cu) / phase
Nombre d'unités de départ / Number of outgoing units	9
Disposition des séparations intérieures / Form of internal separations	3b
Degré de protection / Degree of protection	IP 54

Informations complémentaires /
Additional information :

Points d'amorçage de l'arc / Arc initiation points :
Jeu de barres horizontal / Horizontal busbars - Jeu de barres vertical / Vertical busbars -
Intérieur tiroir (en amont : dispositif de protection contre les courts-circuits) / Inside drawer
(Upstream short-circuit protection device)

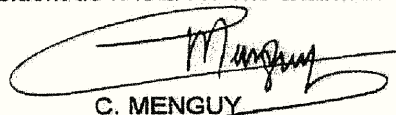
document(s) pris en compte (s) / relevant document(s) :

Rapport (s) d'essai / Test report (s) : F01-2007-0751-00 du / dated 2008-03-26

Ce certificat ne s'applique qu'à l'échantillon soumis à l'essai de type / This certificate applies only to the sample submitted to the type test.

Fontenay-aux-Roses,
Le / on : 2008-04-22

Le Président de l'ASEFA / The chairman of ASEFA,



C. MENGUY

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Certificat de conformité BT version E / Certificate of conformity BT version E

33, av du général Leclerc
92260 Fontenay-aux-roses - France
tél. 01 40 95 63 34
fax 01 40 95 88 18
e-mail : asefa@icie.fr

cofrac

CERTIFICATION
DE PRODUITS
INDUSTRIELS

Accréditation
n° 5-0037
Portée disponible /
Scope available
sur www.cofrac.fr

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro S4 System: 800A Sub Main Distribution Board

Ratings: Ui 690 V, Uimp 6 kV, Ue 415 V, Incoming unit Ie 800 A, Icw 50 kA – 1.0 s,
Icc incoming unit 50 kA at 415 V, Icc outgoing units 50 kA at 415 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for more additional specifications.
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2137902.06-INC, dated 6 April, 2011.

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

Arnhem, 6 April, 2011

Number: 2137902.105



DEKRA Certification B.V.

F.S. Strikwerda
Certification Manager

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DEKRA Certification B.V. Utrechtseweg 310, 6825 GR Arnhem, P.O. Box 5185, 6802 ED Arnhem, The Netherlands
T +31 26 356 2000 F +31 26 352 5800 www.dekra.com Company registration 09085396

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro S3 System: 630A Sub Main Distribution Board

Ratings: Ui 690 V, Uimp 6 kV, Ue 415 V, Incoming unit Ie 630/600 A, Icw 50 kA – 1,0 s,
Icc incoming unit 50 kA at 415 V, Icc outgoing units 30/36 kA at 415 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for more additional specifications.
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2137902.05-INC, dated 6 April, 2011.

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

Arnhem, 6 April, 2011

Number: 2137902.104

DEKRA Certification B.V.



F.S. Strikwerda
Certification Manager

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DEKRA Certification B.V. Utrechtseweg 31 6825 GR Arnhem P.O. Box 5185, 6802 ED Arnhem, The Netherlands
T +31 26 356 2000 F +31 26 352 5800 www.dekra.com Certification.com Company registration 09085396

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro S2 System: 400A Sub Main Distribution Board

Ratings: Ui 690 V, Uimp 6 kV, Ue 415 V, Incoming unit Ie 400 A, Icw 42 kA – 1,0 s,
Icc incoming unit 50 kA at 415 V, Icc outgoing units 30/36 kA at 415 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for more additional specifications.
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2137902.04-INC, dated 6 April, 2011.

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

Arnhem, 6 April, 2011

Number: 2137902.103

DEKRA Certification B.V.

F.S. Strikwerda
Certification Manager

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T+31 26 356 2000 F+31 26 352 5800 www.dekra.com Company registration 09085396

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro S1 System: 250A Sub Main Distribution Board

Ratings: Ui 690 V, Uimp 6 kV, Ue 415 V, Incoming unit Ie 250 A, Icw 36 kA – 1,0 s,
Icc incoming unit 36 kA at 415 V, Icc outgoing units 30/36 kA at 415 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for more additional specifications.
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2137902.03-INC, dated 6 April, 2011.

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

Arnhem, 6 April, 2011

Number: 2137902.102

DEKRA Certification B.V.



F.S. Strikwerda
Certification Manager

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T +31 26 356 2000 F +31 26 352 5800 www.dekra-certification.com Company registration 09085396

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro F4 System: 250A Distribution Board

Ratings: Ui 500 V, Uimp 6 kV, Ue 400 V, Incoming unit Ie 250 A, Icw 25 kA – 0,2 s,
Icc incoming unit 25 kA at 415 V, Icc outgoing units upto 25 kA at 415 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for additional specifications.
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project

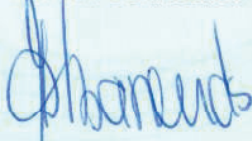
This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report nos. 2137902.02 dated 6 April, 2011 and 2145021.02-INC, dated 6 January, 2012.

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

Arnhem, 6 January, 2012

Number: 2145021.101

DEKRA Certification B.V.



H.R.M. Barends
Certification Manager

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TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro F3 System: 250A Distribution Board

Ratings: Ui 500 V, Uimp 6 kV, Ue 400 V, Incoming unit Ie 250 A, Icw 25 kA – 0,2 s,
Icc incoming unit 25 kA at 415 V, Icc outgoing units up to 15 kA at 415 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for additional specifications.
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report nos. 2137902.02 dated 6 April, 2011 and 2145021.01-INC, dated 6 January, 2012.

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

Amn, 6 January, 2012

Number: 2145021.100

DEKRA Certification B.V.

H.R.M. Barends
Certification Manager



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TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro F2 System: 250A Distribution Board

Ratings: Ui 400 V, Uimp 6 kV, Ue 400 V, Incoming unit Ie 250 A, Icw 25 kA – 0,2 s,
Icc incoming unit 25 kA at 415 V, Icc outgoing units upto 10 kA at 400/230 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for more additional specifications.
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2137902.02-INC, dated 6 April, 2011.

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

Arnhem, 6 April, 2011

Number: 2137902.101

DEKRA Certification B.V.

F.S. Strikwerda
Certification Manager

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T+31 26 356 2000 F+31 26 352 5800 www.dekra.com Company registration 09085396

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: Camgro F1 System: 125A Split Type Final Distribution Board

Ratings: Ui 400 V, Uimp 6 kV, Ue 400 V, Incoming unit Ie 125 A, Icw 17 kA – 0.25 s,
Icc outgoing units upto 10 kA at 400/230 V

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2009
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (4 pages) for more additional specifications.
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2137902.01-INC, dated 6 April, 2011.

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

Arnhem, 6 April, 2011

Number: 2137902.100

DEKRA Certification B.V.



F.S. Strikwerda
Certification Manager

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ASTA Certificate

of Verification Tests

Laboratory Ref. No: 71173A, LSWGWO00084555/01 & 44866

Apparatus: An enclosed three panel extendable L.V. switchgear assembly with an incoming 3-pole withdrawable ACB, 3 phase & neutral main and distribution busbars, two outgoing ACBs and a separate protective conductor. Two inlet ventilation fans and two outlet filters were fitted to the assembly.

Designation: 4000A, EUROFORM Switchboard

Vendor: VERGER et DELPORTE UAE Ltd., P.O. Box: 5629, Sharjah, U.A.E.

Tested By: **kA Testing Facility**, John Street, New Basford, Nottingham, NG7 7HL, UK and **Prof. Ir. Damstra Laboratory**, P.O.Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands & **Intertek**, Intertek House, Cleeve Road, Leatherhead, Surry, KT22 7SB, UK & **The Electrical Research and Development Association (ERDA)**, ERDA Road, Makarpura Industrial Estate, Vadodara – 390 010, Gujarat, India & **Eurotech FZCO**, P.O.Box 61196, Jebel Ali, U.A.E.

Date(s) of tests: 19th October 2007 to 29th August 2010

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 1.0 2009-01

Verifications with reference the tests listed in Annex D:

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

Refer to pages A, B and C for details of ratings proven by test

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 75 other pages as detailed on pages D & E. Only integral reproductions of this whole Certificate or reproductions of this page accompanied by any ratings pages are permitted. To confirm authenticity or for any information regarding ASTA Certificates contact: asta@intertek.com Tel: +44 (0)1788 578435, www.intertek.com.



010

C. Diack-Evans ASTA Observer
Craig Diack-Evans

R. Hayward Certification
Manager

18th April 2011 Date

ASTA Certificate

of Verification Tests

Laboratory Ref. No: 71173B, LSWGWO00084555/01 & 44866

Apparatus: An enclosed three panel extendable L.V. switchgear assembly with an incoming 3-pole withdrawable ACB, 3 phase & neutral main and distribution busbars, five outgoing MCCB's and a separate protective conductor. Two inlet ventilation fans and one outlet vent were fitted to the assembly.

Designation: 2500A, EUROFORM Switchboard

Vendor: VERGER et DELPORTE UAE Ltd., P.O. Box: 5629, Sharjah, U.A.E.

Tested By: **kA Testing Facility**, John Street, New Basford, Nottingham, NG7 7HL, UK and **Prof. Ir. Damstra Laboratory**, P.O.Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands and **The Electrical Research and Development Association (ERDA)**, ERDA Road, Makarpura Industrial Estate, Vadodara – 390 010, Gujarat, India and **Intertek**, Cleeve Road, Leatherhead, Surrey, KT22 7SA and **Eurotech FZCO**, P.O.Box 61196, Jebel Ali, U.A.E.

Date(s) of tests: 16th, 20th, 28th, 29th November 2007.
22nd, 23rd, 29th January, 24th March, 20th, 21st, 22nd May, 3rd October 2008
10th November 2009, 10th June 2010 and 22nd to 29th August 2010

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 1.0 2009-01

Verifications with reference the tests listed in Annex D:

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

Refer to pages A, B and C for details of ratings proven by test

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.

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010

C. Nick-Evans ASTA Observer
Craig Diack-Evans

R. Hayward Certification
Manager

18th April 2011 Date

ASTA Certificate

of Selected Verification Tests

Laboratory Ref. No: 71173C, PDL-08.017.2, LSWGWO00084555/01 & 44866

Apparatus: An enclosed three panel extendable L.V. switchgear assembly with an incoming 3-pole withdrawable ACB, 3 phase & neutral main and distribution busbars, five outgoing MCCB's, two motor starters and a separate protective conductor. Two inlet ventilation fans and one outlet vent were fitted to the assembly.

Designation: 1600A, EUROFORM Switchboard

Vendor: VERGER et DELPORTE UAE Ltd., P.O. Box: 5629, Sharjah, U.A.E.

Tested By: **kA Testing Facility**, John Street, New Basford, Nottingham, NG7 7HL, UK and **Prof. Ir. Damstra Laboratory**, P.O.Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands & **Intertek**, Cleeve Road, Leatherhead, Surrey, KT22 7SA & **The Electrical Research and Development Association (ERDA)**, ERDA Road, Makarpura Industrial Estate, Vadodara – 390 010, Gujarat, India and **Eurotech FZCO**, P.O.Box 61196, Jebel Ali, U.A.E.

Date(s) of tests: 1st November 2007 to 29th August 2010

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 1.0 2009-01

Verifications with reference the tests listed in Annex D:

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

Refer to pages A, B and C for details of ratings proven by test

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.

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010

C. Diack-Evans ASTA Observer
Craig Diack-Evans

R. Hayward Certification
Manager

18th April 2011 Date

ASTA Certificate

of Verification Tests

Laboratory Ref. No: 71173D, LSWGWO00084555/01 & 44866

Apparatus: An enclosed two panel extendable L.V. power switchgear and controlgear (PSC) assembly with an incoming 3-pole withdrawable ACB, 3 phase & neutral main and distribution busbars, four outgoing MCCBs and a separate protective conductor

Designation: 1000A, EUROFORM Switchboard

Vendor: VERGER et DELPORTE UAE Ltd., P.O. Box: 5629, Sharjah, U.A.E.

Tested By: **kA Testing Facility**, John Street, New Basford, Nottingham, NG7 7HL, UK & **Prof. Ir. Damstra Laboratory**, P.O. Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands & **Intertek**, Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB, UK & **The Electrical Research Development Association**, P.B. No. 760, ERDA Road, Makarpura Industrial Estate, Vadodara – 390 110, Ghujarat, India & **Eurotech FZCO**, P.O.Box 61196, Jebel Ali, Dubai, U.A.E.

Date(s) of tests: 27th November 2007 to 29th August 2010

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 1.0 2009-01

Verifications with reference to the tests listed in Annex D:

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

Refer to pages A, B & C for detailed 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.

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010

C. Nicholls ASTA Observer
Craig Diack-Evans

R. Hayward Certification
Manager

18th April 2011 Date

TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: EUROFORM 630A MDB/SMDB/MCC

Ratings: Ui 1000/800/690 V, Uimp 8 kV, Ue 415 V, InA 630 A,
Icw 50 kA – 1,0 s, Icc 50 kA at 415 V, Ipk 105 kA

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2011
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (2 pages) for more specifications
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project
Date of performance of test 01-2012 to 03-2012 (see general notes on test in the
report)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2148038.02-INC, dated 13 August, 2012.

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

Arnhem, 13 August, 2012

Number: 2148038.101

DEKRA Certification B.V.

H.R.M. Barends
Certification Manager

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TEST CERTIFICATE

Issued to: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

For the product: Low-voltage switchgear and controlgear assembly

Trade name: Verger et Delporte U.A.E. Ltd

Type/Model: EUROFORM 250A MDB/SMDB/MCC

Ratings: Ui 1000/800/690 V, Uimp 8 / 6 kV, Ue 415, InA 250 A,
Icw 50 kA – 1,0 s, Icc 50 kA at 415 V, Ipk 105 kA

Manufactured by: Verger et Delporte U.A.E. Ltd
P.O. Box 5629
Sharjah (H.O.)
United Arab Emirates

Subject: Design verification (Construction and Performance)

Requirements: IEC 61439-2: 2011
Clause 10.2.2, 10.2.3, 10.2.5, 10.2.7, 10.3, 10.4, 10.5, 10.6*, 10.7, 10.8, 10.9,
10.10.2.3.5, 10.11, 10.12, 10.13

Remarks: See Annex (2 pages) for more specifications
* The examination of the compliance of components in the assembly, with
their relevant product standard, is not part of this project
Date of performance of test 01-2012 to 03-2012 (see general notes on test in the
report)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in report no. 2148038.01, dated 13 August, 2012.

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

Arnhem, 13 August, 2012

Number: 2148038.100

DEKRA Certification B.V.

H.R.M. Barends
Certification Manager

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CERTIFICATE OF INTERNAL ARCING RATING

Laboratory Ref. No: 71173DAV1

Certificate No. 17482

APPARATUS: An enclosed two panel extendable L.V. switchgear assembly with an incoming 3-pole withdrawable ACB, 3 phase & neutral main and distribution busbars, four outgoing MCCB,s and a separate protective conductor.

DESIGNATION: 1000A, EUROFORM Switchboard.

VENDOR: VERGER et DELPORTE U.A.E. LTD, P.O. BOX 5629, SHARJAH, U.A.E.

TESTED BY: Prof. Ir. Damstra Laboratory, P.O. Box 23, 7550 AA, Hengelo, Europalaan 202, 7559 SC Hengelo, The Netherlands.

DATE(S) OF TESTS: 18th, 19th and 23rd September 2008.

The apparatus, constructed in accordance with the description, drawings and photographs attached hereto, has been examined in accordance with:-

IEC/TR 61641 Edition 2 2008-01.

(Enclosed low-voltage switchgear and controlgear assemblies - Guide for testing under conditions of arcing due to internal fault).

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

TESTS

Load side of the outgoing functional units:	$I_{pc \text{ arc}} = 50\text{kA rms @ } 415\text{V, } 0.25 \text{ pf}$
Supply side of the outgoing functional unit:	$I_{pc \text{ arc}} = 50\text{kA rms @ } 415\text{V, } 0.25 \text{ pf}$
Along the distribution busbars:	$I_{pc \text{ arc}} = 50\text{kA rms @ } 415\text{V, } 0.25 \text{ pf}$
Along the main busbars:	$I_{pc \text{ arc}} = 50\text{kA rms @ } 415\text{V, } 0.25 \text{ pf}$
Load side of incoming functional unit:	$I_{pc \text{ arc}} = 50\text{kA rms @ } 415\text{V, } 0.25 \text{ pf}$
Supply side of incoming functional unit:	$I_{p \text{ arc}} = 50\text{kA rms for } t_{\text{arc}} 0.3 \text{ sec, } 105\text{kA peak}$

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.

This Certificate comprises 34 pages including 1 diagram, 13 oscillograms, 24 photographs and 8 drawings as detailed on page 1.

Only integral reproduction of this Certificate, or reproductions of this page accompanied by any page(s) on which are stated the assigned rated characteristics of the apparatus tested, are permitted without written permission from Intertek, Hilton House, Corporation Street, Rugby. CV21 2DN England.



J. Gould J. Gould
ASTA Observer

P. Gibbs Certification
Manager

28th August 2009 Date

19.0 FINAL FACTORY INSPECTION CERTIFICATES

At the end of the manufacturing process, an LV Switchgear must undergo various individual inspections and tests as per IEC 61439-1/2

A staff of extremely experienced and competent technicians carry out these testing activities. They are qualified for working in proximity with live parts. The necessary tools and equipment are correctly and periodically calibrated by certifying authority.

1. Final Factory Inspection Report - 3140
2. Final Factory Inspection Certificate - 3141



FINAL FACTORY INSPECTION REPORT

Client :	Date :
Consultant :	Job No. :
Project :	Drawing No. :
Panel Title :	Panel SI.No. :

Inspection / Test carried out for	Status
1 Degree of protection of enclosure (11.2)	
a Make, model, type & degree of protection	
b Presence of gasket as per deg. of protection	
2 Clearance and creepage distances (11.3)	
a Spacing of bus bars	
b Clearance & creepage distance	
3 Protection against electric shock (11.4)	
a Protection of cables against sharp edges	
b Safety on normal operation & maintenance	
c Presence of bus bar shrouds & its rigidity	
d Presence of door earthing	
e Partitions as per form of construction	
f Effective continuity of the earthing circuit	
g Tightening of the protective ckt connection	
4 Incorporation of built-in components (11.5)	
a Conformity of the devices installed	
b Conformity of accessories of the devices	
c Conformity of the metering instruments	
d Identification label of each devices	
e Type, rating & breaking capacities	
5 Internal elect. circuits & connections (11.6)	
a Accessibility of devices & terminations	
b Type, size and rating of cables	
c Control and power cables crimping	
d Type, rating & colour coding of bus bars	
e Installation of cables (trunking, supports)	
f Devices mounting are proper & satisfactory	
6 Terminals for external conductors (11.7)	
a External cable termination facilities	
b Cabling and glanding spaces	
c Adequate no. of metallic cable supports	
d Marking/identification of external conn. terminal	
7 Mechanical operations (11.8)	
a Operation of withdrawable drawers	
b Doors, locks & mech. locking systems	
c Withdrawable drawers mech. Interlocks	
d Transport section, lifting & lifting points	
e Interchangeability of drawable units(safety pin)	
Minimum acceptable insulation resistance value 1000 ohms / volt	

Routine tests are carried out in accordance with IEC 61439-1/2 standards sub-clause: 11. Reference documents used are switchboard drawings, factory inspection & testing procedure

Inspection / Test carried out for	Status
8 *Insulation test (before Dielectric Test)(11.9)	
a Between R-Y circuit	
b Between Y-B circuit	
c Between B-R circuit	
d Between R-N circuit	
e Between Y-N circuit	
f Between B-N circuit	
g Between R-E circuit	
h Between Y-E circuit	
i Between B-E circuit	
j Between N-E circuit	
9 Dielectric test (2.2 KV for 1 Second) (11.9)	
a Between R-Y circuit	
b Between Y-B circuit	
c Between B-R circuit	
d Between R-N circuit	
e Between Y-N circuit	
f Between B-N circuit	
g Between R-E circuit	
h Between Y-E circuit	
i Between B-E circuit	
j Between N-E circuit	
10 *Insulation test (after Dielectric Test) (11.9)	
a Between R-Y circuit	
b Between Y-B circuit	
c Between B-R circuit	
d Between R-N circuit	
e Between Y-N circuit	
f Between B-N circuit	
g Between R-E circuit	
h Between Y-E circuit	
i Between B-E circuit	
j Between N-E circuit	
11 Electrical operational/functional test(11.10)	
a Elec. & mech. operational test for all devices	
b Operational test for protection & metering	
c Elec. & mech. controls & safety interlocks	
d Electrical & mechanical indications	
e Functional test as per drawings / procedure	

Routine tests are carried out in accordance with IEC 61439-1/2 standards sub-clause: 11. Reference documents used are switchboard drawings, factory inspection & testing procedure

Inst.Type :			Amp.Temp. ⁰ C
Make/Model No. :			Humidity (%RH)
Serial no. :			
Cal. Due Date :			

Client	Consultant	Contractor	Tested by
.....
.....



FINAL FACTORY INSPECTION CERTIFICATE

Client :	Date :
Consultant :	Job No. :
Project :	Drawing No. :
Panel Title :	Panel Sl.No. :

This is to confirm that the Final Factory inspection of the referred

 was carried out in accordance to the IEC 61439-1/2 standards, approved factory inspection & testing procedure and drawings.

The results of the inspection & testing were found satisfactory and the panel was found to be in compliance to the standards, approved drawings and project requirements.

Inspection and Testing Programme

Routine tests as per IEC 61439-1/2 standards

	Verified
1 Degree of protection of enclosures as per IEC 61439-1 standard sub-clause 11.2	<input type="checkbox"/>
2 Clearance and creepage distances as per IEC 61439-1 standard sub-clause 11.3	<input type="checkbox"/>
3 Protection against electric shock and integrity of protective circuits as per IEC 61439-1 standard sub-clause 11.4	<input type="checkbox"/>
4 Incorporation of built-in components as per IEC 61439-1 standard sub-clause 11.5	<input type="checkbox"/>
5 Internal electrical circuits and connections as per IEC 61439-1 standard sub-clause 11.6	<input type="checkbox"/>
6 Terminals for external conductors as per IEC 61439-1 standard sub-clause 11.7	<input type="checkbox"/>
7 Mechanical operation as per IEC 61439-1/2 standards sub-clause 11.8	<input type="checkbox"/>
8 Dielectric properties as per IEC 61439-1 standard sub-clause 11.9	<input type="checkbox"/>
9 Wiring, operational performance and function as per IEC 61439-1 standard sub-clause 11.10	<input type="checkbox"/>

Note: For details of inspection and results, refer to "Final Factory Inspection Report"

Client	Consultant	Contractor	Tested by
.....
.....

20.0 INSTALLATION, TESTING AND COMMISSIONING CERTIFICATES

Considering the importance of testing and commissioning of low voltage switchboards, all testing equipments and certificates are upgraded regularly. The testing and commissioning certificates are:

1. Installation Inspection Report - 3124
2. Installation Inspection Certificate - 3125
3. Commissioning Report - 3144
4. Testing and Commissioning Certificate - 3145



INSTALLATION INSPECTION REPORT

Client :	Date :
Consultant :	Job No. :
Project :	Drawing No. :
Panel Title :	Panel SI.No. :

Inspection carried out for		Verified	Comments
Reference Documents Used are Switch Board Drawings & Installation Procedure	1 Switchboard layout		
	a Switchboard location is as per the approved drawings, requirements & local regulations	<input type="checkbox"/>	
	b Minimum clearances around the panel is maintained as per local regulations	<input type="checkbox"/>	
	c Operational & maintenance access to the switchboard are as per requirement	<input type="checkbox"/>	
	d Door opening space & withdrawable unit access area are as per requirements	<input type="checkbox"/>	
	e Clearance above and below panel are sufficient to permit smooth cable / bus raiser entry	<input type="checkbox"/>	
	f Switchboard is located in clean, dry, safe and easily accessible place	<input type="checkbox"/>	
	g Switchboard is fixed to floor / wall as per manufacturer's recommendation	<input type="checkbox"/>	
	h Adequate & approved supports are provided for securing the switchboard to floor / wall	<input type="checkbox"/>	
	i Switchboard location is away from the proximity of water, drainage and gas pipe	<input type="checkbox"/>	
	j Switchboard location is free from hazardous item, material or equipment	<input type="checkbox"/>	
	k Emergency lighting with sufficient illumination level is available	<input type="checkbox"/>	
	l Fire alarm detectors are present for fire detections in close proximity	<input type="checkbox"/>	
	2 Switchboard Installation		
	a Switchboard assembly - No scratches or deformation, Free from dust and foreign objects	<input type="checkbox"/>	
	b Switchboard re-assembly-mechanical connections between cubicles & order of cubicles	<input type="checkbox"/>	
	c Busbar connections tightened to the required torque level at transport section joints	<input type="checkbox"/>	
	d Verification of protective earth conductor connections on metal component	<input type="checkbox"/>	
	e General tightening of all the busbar connections and component terminations	<input type="checkbox"/>	
	f General verification of creepage and clearances after all busbar connections are made	<input type="checkbox"/>	
	g Installation & connection of all components (if any), which were supplied separately	<input type="checkbox"/>	
	h Re-verification of circuit breakers rating and setting as per drawings	<input type="checkbox"/>	
	i Fully drawout all the withdrawable units and re-instate to service position	<input type="checkbox"/>	
	j All temporary openings are plugged and all gaskets are provided to maintain IP rating	<input type="checkbox"/>	
	k Labels, busbar protective shrouds, front plates, doors and cover panels are provided	<input type="checkbox"/>	
	l Mechanical interlocks, key locks and keys for devices and switchboard are provided	<input type="checkbox"/>	
	3 Cable Installation		
	a Cable trenches size and location are as per requirement and installation is satisfactory	<input type="checkbox"/>	
	b Cable tray type, size & accessories are as per requirement and installation is satisfactory	<input type="checkbox"/>	
	c Cable tray earth connection and earth continuity of cable trays	<input type="checkbox"/>	
	d Arrangement of cables in cable trays and trenches are satisfactory	<input type="checkbox"/>	
	e All cables are mechanically protected and tied to cable trays at regular intervals	<input type="checkbox"/>	
	f Power and ECC cable type and sizes are as per approved drawings and breaker ratings	<input type="checkbox"/>	
g Control cables (where applicable) type, no. of cores, sizes & core identification as per approval	<input type="checkbox"/>		
h Cable glanding, gland type and armoured cables earthing using earth tags	<input type="checkbox"/>		
i Single core cables (if any) are glanded on non-magnetic gland plates	<input type="checkbox"/>		
j Cable tags, tag description, circuit marking and coding of cables as per drawings	<input type="checkbox"/>		
k Verify minimum bending radius of cables & securing cables inside switchboard	<input type="checkbox"/>		
l Cable termination - Lug compatibility, material, contact area, crimping & connection hardware	<input type="checkbox"/>		
m No excessive mechanical forces exerted on device connections	<input type="checkbox"/>		

Client	Consultant	Contractor	Tested by
.....
.....

INSTALLATION INSPECTION CERTIFICATE

Client :	Date :
Consultant :	Job No. :
Project :	Drawing No. :
Panel Title :	Panel Sl.No. :

This is to confirm that the on-site installation inspection of the referred

.....
 was carried out in accordance to the IEC 61439-1 standard, IEEE (Latest edition), local regulations, approved installation procedure and drawings.

The results of the inspection were found satisfactory and the installation of panel was in compliance to the standards, approved drawings and project requirements. The panel is approved for testing and commissioning.

Inspection and Testing Programme

Checks carried out as per approved inspection procedure	Verified
1 General inspection of the switchboard after re-assembly at site including inspection of busbar connections	<input type="checkbox"/>
2 Checking of protective measures of the electrical continuity of the protective circuits including earthing and earth bonding.	<input type="checkbox"/>
3 Verification of breaker ratings and final adjusted setting.	<input type="checkbox"/>
4 Verification of cable sizes, terminations and tags of cables.	<input type="checkbox"/>
5 Verification of presence of protective shrouds.	<input type="checkbox"/>

Note: For details of inspection, refer to "Installation Inspection Report"

Client	Consultant	Contractor	Tested by
.....
.....



COMMISSIONING REPORT

Client :	Date :
Consultant :	Job No. :
Project :	Drawing No. :
Panel Title :	Panel Sl.No. :

Inspection carried out for		Verified	Comments
Reference Documents Used are As-built drawings, spare parts list, Factory Final Inspection test reports, Installation Instruction and Test Procedures.	1 Documents and Tools verification		
	a As-built drawings are provided with in the panel and verified	<input type="checkbox"/>	
	b Availability of different approved test procedures for testing.	<input type="checkbox"/>	
	c Spare parts are provided as per the list	<input type="checkbox"/>	
	d Factory final inspection reports are verified	<input type="checkbox"/>	
	e The necessary testing equipments are checked for calibration	<input type="checkbox"/>	
	2 Conformity of Electrical and Mechanical Connections		
	a Switchboard is fixed to floor / wall as per manufacturer's recommendation	<input type="checkbox"/>	
	b Adequate & approved supports are provided for securing the switchboard to floor / wall	<input type="checkbox"/>	
	c Cubicles are coupled with Gasket and recommended fish-plates	<input type="checkbox"/>	
	d All the bus bar connections are tightened with appropriate torque pressure	<input type="checkbox"/>	
	e Outgoing and incoming cables are glanded/terminated properly	<input type="checkbox"/>	
	f Adequate supports are provided for incoming and outgoing cables	<input type="checkbox"/>	
	g Verification of electrical clearance between bus bars and creepage distance of the supports	<input type="checkbox"/>	
	h Verification of additional holes in gland plates (This will reduce the IP rating)	<input type="checkbox"/>	
	i Control cables are crimped and terminated properly.	<input type="checkbox"/>	
	j The AC and DC supplies are distinguished by different colour code	<input type="checkbox"/>	
	k Compatibility between the cable cross section or lugs and the device tunnel or terminal	<input type="checkbox"/>	
	l Both internal and external Power & Control cables are identified as per the requirement	<input type="checkbox"/>	
	3 Conformity of Devices and Installation		
	a The installed switching devices are verified with As-built drawings	<input type="checkbox"/>	
	b The device accessories are verified as per the as-built drawings	<input type="checkbox"/>	
	c The devices are mounted as per the manufacturer's recommendation	<input type="checkbox"/>	
	d Ensure the smooth operation of all the devices.	<input type="checkbox"/>	
	e Switchboard is installed as per the Manufacturer's recommendation	<input type="checkbox"/>	
	f The front and rear clearances are maintained as per requirement	<input type="checkbox"/>	
	4 Precautions before testing		
	a All relevant safety messages, signs and warning labels are provided	<input type="checkbox"/>	
	b The panel is free from dust	<input type="checkbox"/>	
	c The panel is free from foreign objects like cables, wire off-cuts, hardware, tools etc.	<input type="checkbox"/>	
d Ensure the insulation level of the panels	<input type="checkbox"/>		
5 Protection of Persons			
a The connections of protective conductors and connections between the cubicles	<input type="checkbox"/>		
b Presence of earth braid in all movable parts of the enclosures	<input type="checkbox"/>		
c Ensure the electrical continuity between the cubicles and doors.	<input type="checkbox"/>		
d Partitions are as per form of constructions and rigidity of the bus bar shrouds	<input type="checkbox"/>		
6 Energizing the switchboard			
a Phase sequence of the main power supply	<input type="checkbox"/>		
b Outgoing circuits are energized one by one and the operating sequence is verified	<input type="checkbox"/>		
c Verification of electrical - mechanical interlocks, indication and measuring instruments etc.	<input type="checkbox"/>		

Client	Consultant	Contractor	Tested by
.....
.....

TESTING AND COMMISSIONING CERTIFICATE

Client :	Date :
Consultant :	Job No. :
Project :	Drawing No. :
Panel Title :	Panel SI.No. :

This is to confirm that the on-site installation inspection of the referred

 was carried out in accordance to the IEC 61439-1 standard, approved testing & commissioning procedure and drawings.

The results of the tests were found satisfactory. Hence the switchboard was commissioned and put into service. The functionality of the switchboard was found satisfactory as per project requirements.

Inspection and Testing Programme

Checks carried out as per approved test procedure	Verified
1 Insulation resistance test.	<input type="checkbox"/>
2 Auto and manual functions and safety interlocks.	<input type="checkbox"/>
3 Metering functions (where applicable).	<input type="checkbox"/>
4 Earth leakage and other protection relays (where applicable).	<input type="checkbox"/>
5 Any other specific test as per requirement.	<input type="checkbox"/>
6 Commissioning carried out and the switchboard was put into service.	<input type="checkbox"/>

Note: For details of inspection, refer to "Testing and Commissioning Report"

Client	Consultant	Contractor	Tested by
.....
.....

21.0 ECO STRUCTURE FOR YOUR BUSINESS

A complete lineup of products and services to meet the needs of all major markets



Energy & Infrastructure



Industry



Building



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Airport



Hospital



Data Center



Satellite Station

23. SOME MAJOR REFERENCES

PROJECT



CLIENT



CONSULTANT



CONTRACTOR



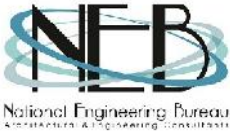
PROJECT

**NFPC MEGA PLANT,
 ABUDHABHI**

CLIENT



CONSULTANT



CONTRACTOR



23. SOME MAJOR REFERENCES

PROJECT

**ETISALAT DATA CENTER,
ALAIN**

CLIENT



CONSULTANT



CONTRACTOR



PROJECT

**EPC WORKS FOR NEW CCB AND
HMI UPGRADE, DAS ISLAND, ABUDHABHI**

CLIENT



CONSULTANT



CONTRACTOR





23. SOME MAJOR REFERENCES

PROJECT

**BURJ VIEWS
 DUBAI**

CLIENT



CONSULTANT



CONTRACTOR



PROJECT

**DUBAI MARINA DEVELOPEMENT
 7 WX 7X TOWER , DUBAI**

CLIENT



CONSULTANT



CONTRACTOR



23. SOME MAJOR REFERENCES

PROJECT
 CLIENT
 CONSULTANT
 CONTRACTOR

BURJ DUBAI OLD TOWN

, DUBAI



PROJECT
 CLIENT
 CONSULTANT
 CONTRACTOR

YAHSAT SATELLITE STATION
 ABU DHABI & AL AIN



اليه سات yahsat





23. SOME MAJOR REFERENCES

PROJECT

**PACIFIC DATA CENTER 1,2
 DUBAI**

CLIENT



CONSULTANT



CONTRACTOR



PROJECT

Dubai International



**AIRPORT EXPANSION
 PHASE-III RUNWAY SUBSTATION
 SP-100 PACKAGE**

CLIENT



مشاريع
 الطيران
 الدولية

DUBAI
 AVIATION
 ENGINEERING
 PROJECTS

CONSULTANT



dar al-handasah
 shair and partners

CONTRACTOR





23. SOME MAJOR REFERENCES

PROJECT

Dubai International  **AIRPORT TERMINAL-1 EXPANSION & MODIFICATION**
 SP-500, SP-501

CLIENT



CONSULTANT



CONTRACTOR



PROJECT

DUBAI AIRPORT CONCOURSE-C,B, TERMINAL-1 REFURBISHMENT & EXPANSION SP-070 Project

CLIENT



CONSULTANT



CONTRACTOR





23. SOME MAJOR REFERENCES

PROJECT

DWC
 DUBAI WORLD CENTRAL
 دبي وورلد سنترال
PASSENGER TERMINAL
 JXB/431

CLIENT



CONSULTANT



CONTRACTOR



PROJECT

AL MAKTOUM INTERNATIONAL AIRPORT SP/DWC/726
PASSENGER TERMINAL BUILDING

CLIENT



CONSULTANT



CONTRACTOR





23. SOME MAJOR REFERENCES

PROJECT



CLIENT



CONSULTANT



CONTRACTOR



PROJECT



CLIENT



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23. SOME MAJOR REFERENCES

PROJECT



CLIENT



CONTRACTOR



PROJECT



CLIENT



CONSULTANT



CONTRACTOR





23. SOME MAJOR REFERENCES

PROJECT

**AL SHEIRA TOWER(JLT),
DUBAI**

CLIENT



CONSULTANT



CONTRACTOR



PROJECT

**LUXIARY BEACH HOTEL RESORT,
DUBAI**

CLIENT



CONSULTANT



CONTRACTOR





23. SOME MAJOR REFERENCES

PROJECT

IRIS BAY -
DUBAI

CLIENT

Dubai Properties;
 Sheth Corp Pvt Ltd.

CONSULTANT

ATKINS

CONTRACTOR

ETA **HLOG** HABTOOR
 LEIGHTON
 GROUP



PROJECT

LANDMARK TOWER
 ABU DHABI

CLIENT

LANDMARK TOWER

CONSULTANT

BUROHAPPOLD
 ENGINEERING

CONTRACTOR

ETA



23. SOME MAJOR REFERENCES

PROJECT

 **First Gulf Bank**
 AL GURM ABU DHABI

CLIENT

 **First Gulf Bank**

CONSULTANT

**ARCHITECTURAL & ENGINEERING
 CONSULTANT**

CONTRACTOR

ARABEL
 ARABIAN ELECTRICIANS



PROJECT

BOROUGE INNOVATION CENTRE
 ABU DHABI

CLIENT

 **بروج
 Borouge**

CONSULTANT

ECG  **مراجعة الهندسة المعمارية والهندسة الكهربائية**
 ENGINEERING CONSULTANTS GROUP S.A.

CONTRACTOR

ASCON
 BUILDING EXCELLENCE





PROJECT



جامعة العين للعلوم والتكنولوجيا
 AL AIN UNIVERSITY OF SCIENCE AND TECHNOLOGY

CLIENT



جامعة الإمارات العربية المتحدة
 United Arab Emirates University

CONSULTANT



CONTRACTOR



شركة فيرجر ديلپورت للامارات العربية المتحدة المحدودة
VERGER DELPORTE U.A.E. Ltd



PROJECT



CITYCENTRE DUBAI
 MIRDIF

CLIENT



ماجد الفطيم
 MAJID AL FUTTAIM

CONSULTANT



CONTRACTOR





23. SOME MAJOR REFERENCES

PROJECT

RUWAIS REFINERY
EPC6
ABU DHABI

CLIENT



CONSULTANT

ECG **مراجعة الهندسة المعمارية والهندسة المدنية**
ENGINEERING CONSULTANTS GROUP S.A.

CONTRACTOR

ZUBLIN



24.0 MAJOR CLIENTS

- Abu Dhabi Oil Refining Company (TAKREER)
- Abu Dhabi National Oil Company For Distribution (ADNOC FOD)
- Abu Dhabi Drilling Chemicals & Products Limited (ADDCAP)
- Abu Dhabi Gas Liquefaction & Co. Ltd (ADGAS)
- Abu Dhabi Marine Operating Company (ADMA OPCO)
- Abu Dhabi National Oil Company (ADNOC)
- AD Water and Electricity Authority - Village & Islands Department & Street Lighting Department
- Abu Dhabi Municipality - Irrigation and Street Lighting Departments
- Abu Dhabi Company for Onshore Oil Operations (ADCO)
- Abu Dhabi Gas Industries Limited (GASCO)
- Ajman Fisheries
- Beach Hotel, Abu Dhabi
- Department of Civil Aviation, Abu Dhabi International Airport
- Dubai Ports Authority
- Dubai Police Force
- Dubai Electricity and Water Authority (DEWA)
- Dubai Municipality (DM)
- Dubai Airport Engineering Service (DAES)
- Dubai Airport Engineering Project (DAEP)
- Department of Social Services and Commercial Buildings
- EPPCO and ENOC
- EMARAT
- Emirates Telecommunications Corporation (ETISALAT)
- Ministry of Public Works and Housing (MPWH)
- Ministry of Interior
- Ministry of Information & Culture, Emirates Broadcasting Corporation
- National Petroleum Construction Company

24.0 MAJOR CLIENTS

- Public Works Department, Abu Dhabi, Beda Zayed & Al Ain
- Ras Al Khaimah Cement Plant
- Sharjah Electricity and Water Authority (SEWA)
- Sharjah Municipality
- Sharjah Oil Refinery
- Town Planning Department, Abu Dhabi
- UAE Armed Forces G.H.Q.
- Zakum Development Company (ZADCO)
- Dubai Internet City (TECOM)
- Sharjah Police
- EMAAR
- Al Ghurair Group
- ENOC -Emirates National Oil Company
- Abudhabhi First Gulf bank
- ADCE

22.0 MAJOR PROJECTS EXECUTED

SL. No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
1	BURJUMAN CENTRE (L.L.C)	DAR AL HANDSAH SHAIR AND PARTNERS	THE NATIONAL CO. (KHARAFI NATIONAL)	MDB,SMDB, MCC, DB, CAP.PANEL&METER CABINET	11,000,000.00	2003
2	EMIRATES	ADPI	EMIRATES NEW ENGINEERING CENTRE	MDB,SMDB,MCC,CAP.PANEL & DB INCLUDING AUTOMATION PLC	9,000,000.00	2006
3	GASCO	ARENCO	BUHASA ACCOMMODATION COMPLEX	MDB,SMDB, MCC & DB	6,000,000.00	1994
4	AL GHURAIR CENTRE	NGC INTERNATIONAL	AL GHURAIR CENTRE EXPANSION	MDB,SMDB, MCC& FINAL DB	6,000,000.00	2010
5	JUMEIRAH BEACH RESIDENCE	DAR	JUMEIRAH BEACH RESIDENCE	MDBS,MCCS,SMDBS,DBS & CAP. PANELS	4,200,000.00	2008
6	TABREED	ELLERBE BECKET	DISTRICT COOLING PLANT T2 & T3A	MOTOR CONTROL CENTRE	4,157,000.00	2009
7	TABREED	ELLERBE BECKET	DISTRICT COOLING PLANT T4 & 3B	MOTOR CONTROL CENTRE	4,157,000.00	2009
8	DUBAI CIVIL AVIATION	KENNEDY & DONKIN	DUBAI AIRPORT EXPANSION TD-196	MDB,MCC,SMDB & DB	3,600,000.00	2003
9	GASCO	S.C.T.P	ASAB ACCOMMODATION COMPLEX	MCC,MDB,SMDB & DB	3,500,000.00	1995
10	DUBAI CIVIL AVIATION	DAR AL-HANDASAH	CENTRAL UTILITY COMPLEXES - 4	MDBS,MCCS,SMDBS & DB	3,317,244.00	2007
11	DUBAI NATIONAL INVESTMENTS	NORR GROUP CONSULTANTS	METROPOLITAN BEACH - RESORT TOWERS	MDB,MCC,SMDB,CAP.PANEL & DB	3,000,000.00	2006
12	GULF IMPORT & EXPORT Co.	GULF IMPORT & EXPORT Co.	NFM - AGOM	MCC PANELS	2,750,000.00	2000
13	AL ROSTAMANI GROUP	W.S. ATKINS	21st CENTURY TOWER, DUBAI	LV PANEL,SMDB,DB & MCC	2,600,000.00	2005
14	DUBAI INTERNET CITY	SPP	MEDIA CITY PHASE-III, DUBAI	LV PANEL,SMDB,DB & MCC	2,600,000.00	2003
15	JUMEIRAH BEACH RESIDENCE	HYDER CONSULTING	JBR1- PODIUM	MDB,SMDBS,DBS,MCCS & CAP.BANK	2,600,000.00	2008
16	P.W.D	BELGIAN ARAB CONSULTANTS	GENERAL HOSPITAL AL RAHBA	MDB,SYN.PANEL,SMDB,CAP.PANEL & FINAL DB	2,551,385.00	1998
17	MAJID AL FUTTAIM INVESTMENT	WSP	SOUK AL NAKHEEL	MDBS,MCCS,CAPACITOR & DB	2,525,616.00	2002
18	DUBAI INTERNET CITY	ARENCO	DUBAI INTERNET PHASE III	MDB,MCC,SMDB,DB & CAP.PANEL	2,500,000.00	2003

22.0 MAJOR PROJECTS EXECUTED

SL. No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
19	DUBAI MEDIA CITY	SCHUSTER, PECHTOLD AND PARTNERS	DUBAI MEDIA CITY PHASE III	MDB,MCC,SMDB,DB CAP. PANEL	2,500,000.00	2004
20	EMMAR	ROBERTS PARTNERS	RESIDENCES AT BURJ DUBAI	MDBS, SMDBS, MCCS, DB	2,452,000.00	2004
21	TABREED	TABREED	AL- AIN AIR COLLEGE	LV MCC,MDB & MCC	2,203,888.00	2001
22	EMIRATES OF ABU DHABI GENERAL INDUSTRY CORPORATION	W. S. ATKINS & PARTNERS OVERSEAS	ABU DHABI INDUSTRIAL CITY	MDB,SMDB,CAP.PANEL,FEEDER PILLAR, FINAL DB & CONTROL PANELS	2,050,000.00	2001
23	EMMAR PROPERTIES	NORR GROUP CONSULTANTS	MARINA TOWER	MSB,MCC,SMDB & DB	1,963,000.00	2005
24	NATIONAL HYDRO ELECTRIC POWER CORPORATION Ltd.	SNC LAVALIN INC.	CHAMERA HYDROELECTRIC PROJECT, STAGE-II HIMACHAL PRADESH	MDB, SMDB & FINAL DB	1,667,000.00	2001
25	MAJID AL FUTTAIM INVESTMENTS	HALFORD ASSOCIATES	SOUK AL NAKHEEL - SNOW DOME	MDB,MCC,SMDB,CAP.PANEL & DB	1,647,680.00	2002
26	ADCO	ECG ENGINEERING	BAB INFRASTRUCTURE & BAB 13	LV PANEL,SMDB,DB & MCC	1,589,000.00	2002
27	EMMAR	NORR GROUP	EMMAR HEAD QUARTERS, DUBAI	LV PANEL,SMDB,DB & MCC	1,500,000.00	2004
28	AL GHURAIR GROUP LLC	AL GURG CONSULTANTS	DUBAI POLYFILM CO. EXPANSION	MDBS,MCCS,SMDBS & DB	1,500,000.00	2003
29	EMARAT	ARENCO	G+4 OFFICE COMPLEX PLOT. NO-155/DUBAI	MDB,SMDB & FINAL DB	1,455,090.00	2005
30	DUBAI INTERNET CITY	AL TURATH ENGG.	FALCON CABLE LANDING STATION P-109	LV PANEL,SMDBS,CAP.BANK,DBS & ISOLATOR PANEL	1,315,000.00	2006
31	JEBEL ALI CONTAINAR GLASS FACTORY	STONE & WEBSTER	JEBEL ALI CONTAINAR GLASS FACTORY	MAIN DISTRIBUTION BOARD	1,323,000.00	1997
32	EMIRATES OF ABU DHABI WORK DEPARTMENT	AL BURJ. ENGG. CONSULTANTS	GULF LIBRARY MANUSCRIPTS & STUDIES CENTRE	MDB,SMDB,CAP.PANEL,FINAL DB & CONTROL PANELS	1,288,800.00	1995
33	EMIRATES OF ABU DHABI GENERAL INDUSTRY CORPORATION	W. S. ATKINS & PARTNERS OVERSEAS	ABU DHABI INDUSTRIAL CITY (CONTRACT-2A)	MDB,SMDB,CAP.PANEL,FINAL DB & CONTROL PANELS	1,220,000.00	1995
34	TABREED	SHANKLAND COX Ltd.	COOLING PLANTS FOR AL TOWAISA MILITARY BASE	MCC,ATS & DB	1,213,000.00	1999
35	M.P.W.H	H D P OVERSEAS	KALBA HOSPITAL, SHARJAH	LV PANEL,SMDB,DB & MCC	1,100,000.00	2003
36	H.E.KHALIFA BIN AHMED AL OTAIBA	SYR CONSULT	FOUR POINT HOTEL BY SHERATON AT SHARJAH	MDB,MCC,SMDB & FINAL DB	1,086,275.00	2002

22.0 MAJOR PROJECTS EXECUTED

SL. No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
37	W.E.D.	EWBANK PREECE	MIRFA POWER & DISALINATION	DISTRIBUTION BOARDS	1,042,806.00	1995
38	WED - ALAIN	CANSULT	100 WELLS & TELEMETRY SYSTEM IN SHUWAIB	L.T. SW,BD,SYN.PANEL,SOFT STARTER PNL, WELL HEAD CONTROL PANELS	1,000,000.00	1998
39	NATIONAL PROJECTS	EREX CONSULTANT	AL REEF COMPOUND	MDB,SMDB & CAP.PANEL	1,000,000.00	1998
40	ADGAS	IAN BANHAM & ASSOCIATES	PROJECT-8003/DAS ISLAND	MDB,MCC,SMDB & FINAL DB	965,000.00	1999
41	TABREED	TABREED	TABREED COOLING PLANT-3B EXTENSION	MOTOR CONTROL CENTRE	923,680.00	1999
42	ABUDHABI NATIONAL OIL CO.	KHATIB & ALAMI	NEW LPG FILLING PLANT-MUSSAFAH	ANNOLAC,MDB,MCC & ATS	900,000.00	1998
43	TABREED	TABREED	TABREED PHONIX PHASE-1	MOTOR CONTROL CENTRE	880,000.00	2000
44	CUMMINS DIESEL	CUMMINS DIESEL	IRAQ PROJECTS	MAIN DISTRIBUTION BOARD	875,000.00	2000
45	FIRST GULF BANK	AL SALAAM	FIRST GULF BANK HEAD QUARTERS	MDB,SMDBS,DBS & MCCS	867,000.00	2003
46	DEFENCE	DEFENCE	MW - 1590	MDB, SMDB & DB	837,000.00	2003
47	CIVIL AVIATION DUBAI	INT'L BECHTEL INC.	TD51 DUTY FREE WARE HOUSE	MAIN DISTRIBUTION BOARD	816,830.00	1997
48	BURJUMAN CENTRE L.L.C	DAR-AL-HANDASAH	BURJUMAN CENTER EXPANSION DUBAI	SMDBS, DBS,MCP & METER CABINET	801,350,00	2004
49	P.W.D	W. S. ATKINS & PARTNERS OVERSEAS	GUARD ADMINISTRATION BUILDING AL AIN	MDB,ATS PANEL,SMDB,FINAL DB & CAP. PANELS	797,375,00	2003
50	R.A.K. CERAMICS	R.A.K. CERAMICS	MODERN CERAMICS-9	MDBS,CAP.BANK & SMDBS	790,000.00	2005
51	DUBAI MUNICIPALITY	ITAL CONSULT	CUSTOMS HEAD QUARTERS & DOC	MDB,SMDB & FINAL DB	770,000.00	2010
52	WOMEN'S ASSOCIATES	IAN BANHAM ASSOCIATES	WOMEN'S ASSOSIATION BUILDING	MDB,SMDB & FINAL DB	700,000.00	1998
53	DUBAI INTERNET CITY (TECOM)	AL TURATH	MAIN TELEPORT AT JABEL ALI, DUBAI	LV PANEL, SMDB, DB, & MCC	700,000.00	2003
54	UNITED ARAB EMIRATES MINISTRY OF PUBLIC WORKS & HOUSING	GIBB MIDDLE EAST	COMPREHENSIVE TECH. SCHOOL AT RAK	MDB,SMDB,DB & CAP.PANELS	673,157.00	2005

22.0 MAJOR PROJECTS EXECUTED

SL. No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
55	MAJID AL FUTTAIM	RENAULT & PARTNERS	AJMAN RETAIL DEV. - CONTINENT FIT OUT	MDB, SMDB, DB & SYN. PANEL	660,000.00	1996
56	DUBAI CIVIL AVIATION	DAR AL HANDSAH	DUBAI AIRPORT CARGO VILLAGE EXPANSION EMIRATES SKY CARGO CENTRE	MDB, MCC & DB	645,000.00	1998
57	SHEIKH SULTAN SURROR AL DHAHERI	AL SUWEIDI ENGG CONSULTANTS	SHEIKH BUILDING	MDB, SMDBS, DBS & MCCS	641,000.00	1999
58	EAST COST CO.	INTERNAL ENGG. CENTER	50 VILLAS PROJECTS AT RAS AL KHAIMA	MDB, SMDB & FINAL DB	630,000.00	1999
59	DUBAI INTERNET CITY	AL TURATH ENGG. CONSULTANT	POP-JUMAIRAH ISLAND	MDB, SMDB, CAP. PANEL & DB	600,000.00	2001
60	DUBAI INTERNET CITY	AL TURATH ENGG. CONSULTANT	MAIN TELEPORT STATION AT JABEL ALI, DUBAI	MDB, SMDB, CAP. PANEL & DB	599,980.00	2001
61	ABU DHABI MUNICIPALITY	FEDERIC R. HARRIS INC.	MINA ZAYED FREE ZONE	STREET LIGHTING CONT. PANEL	592,000.00	2000
62	H.H SHEIKH MANSOOR	INTEGRATED DESIGN BUREAU	COMMERCIAL BUILDING	MDB, SMDBS & DB	590,000.00	2000
63	RULERS REPRESENTATIVE IN EASTERN REGION	KEO INTERNATIONAL CONSULTANTS	DIWAN BUILDING	MDB, SMDBS, CAP. PANEL & DB	590,000.00	2001
64	HYATT REGENCY	SERVEU	HYATT REGENCY	CHILLER PANEL, VFD PANEL	580,000.00	1998
65	ZADCO	SUIDAN & ASSOCIATES	ZIRKU FACILITIES NEW CONT. CAMP	MDB, SMDB & FINAL DB	579,000.00	1997
66	EMIRATES OF ABU DHABI WORK DEPT.	TECHNICAL STUDIES BUREAU	AL RAHA BEACH RESORT, ABU DHABI	SMDB, DB & CONTROL PANELS	555,000.00	1999
67	ABU DHABI MUNICIPALITY	ARABIAN ENGINEERING CENTRE	PUMPS, GENERATOR & 11KV OVERHEAD LINES IN BEDAA GHANEM AREA.	MDB & SYNCHRONISING PANEL	549,000.00	2001
68	P.W.D	BELGIAN ARAB CONSULTANT BUREAU	SGENERAL HOSPITAL AL RAHBA	MDB & AC PANELS	540,000.00	1999
69	ARCOI QATAR INC.	PARSONS TECHNIP	ARCO AL RAYYAN OIL DEVELOPMENT, QATAR	MDB, SMDB & FINAL DB	537,147.00	2002
70	GOVERNMENT OF ABU DHABI GENERAL AUTHORITY FOR HEALTH CARE	EHA CONSULTING ENGINEERS	ADDITION, ALTERNATION, MAINTENANCE WORKS FOR TAWAM HOSPITAL AL AIN	MDB & CAPACITOR BANKS	530,000.00	2002
71	INTERNATIONAL CAPITAL TRADING	BIONA CONSULTING ENGG	DEVELOPMENT OF FLATS C1 - C6	MOTOR CONTROL CENTRE	510,000.00	2003
72	P.W.D. AL AIN	T.K.B. CONSULTANT	COMB. SCHOOL - AL HAYER	MDB, SMDB & FINAL DB	504,000.00	2003

22.0 MAJOR PROJECTS EXECUTED

SL. No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
73	GASCO	S.C.T.P	BAB ACCOMMODATION COMPLEX	MCC,MDB,SMDB & DB	500,000.00	2000
74	QATAR TELECOMMUNICATION	QATAR TELECOMMUNICATION	IDC BUILDING- QATAR	MDB,MCCS & DB	499,152.00	2002
75	W.E.D	D. BALFOUR & SONS	MARFA HILL TOP PUMPING STATION	MOTOR CONTROL CENTRE	487,500.00	2001
76	ADNOC FOD	ADNOC FOD	LOBP / GREASE PLANT	L.V.PANEL BOARDS	480,000.00	2001
77	PWD	MAKHLOUF	EXTENSION OF EXISTING PRIVATE SUITS AT AL MAFRAQ HOSPITAL	MDB,SMDB & FINAL DB	480,000.00	2000
78	RAS AL KHAIMAH CEMENT Co.	LAFARGE	3100 TPD CEMENT PLANT	CONTROL PANELS	452,530.00	1997
79	W.E.D. ABU DHABI	TEBODIN CONSULTANT	PUMPING FAC. FOR SEA PALACE	MOTOR CONTROL CENTRE	450,000.00	2003
80	SEREX INTL CONSULTANT	SEREX INTL CONSULTANT	WARE HOUSE FOR ADIA AT MUSSAFAH	ATS,CAP.PANEL,SMDB,LVP,DB & MCCB	426,000.00	2003
81	M.P.W. & H. - DUBAI	EHA CONSULTING CENTER.	HIGHER SECONDARY SCHOOLS	MDB,SMDB & FINAL DB	420,000.00	2003
82	AMANA STEEL	MOT MAC DONALD	TUFTED CARPET FACTORY AT MUSSAFAH	LV,CAP.PANEL,SMDB & DB	420,000.00	2004
83	KASSIM ISMAIL AHMED MOHAMMED	SPACE CONSULT	G+10 COMM. PLOT - 416	MDB,SMDB & DB	417,142.00	2004
84	PWD	E. KRAUT CONSULTANT GERMANY	10MG WATER RESERVOIR & PUMPING STATION	CONTROL PANEL,CAP.PANEL & DB	415,000.00	2005
85	ABU DHABI WATER & ELECTRICITY AUTHORITY	ESB INTERNATIONAL	NEW 132/11KV SUBSTATION	AC MDB,SDB & LDB	405,000.00	2005
86	TAWAM HOSPITAL	PAC INTERNATIONAL	AL TAWAM HOSPITAL	MDB,SMDB &FINAL DB	400,000.00	2005
87	AL KHASANA INSURANCE	AGG	AL KHASANA INSURANCE BLDG, ABU DHABI	MDB,MCC,SMDB & FINAL DB	400,000.00	2005
88	AL GAITH HOLDING	NATIONAL ENGINEERING BUREAU	DALMA & YASSAT TOWER, DUBAI	MDB,SMDB & DB	7,053,667.00	2009
89	EMAAR	HYDER CONSULTING	BURJ DUBAI OLD TOWN RESIDENTIAL AT PHASE-3	ACB, MSB, SMDB, CAP.BANK PANEL, METER CABINET, DB & CONTROL PANELS	5,340,667.00	2006
90	JUMEIRAH BEACH RESIDENCE	IAN BANHAM	JUMEIRAH BEACH RESIDENCE -6	MDB, SMDB, MCC, CAP.BANK PANEL & DB	4,000,000.00	2008

22.0 MAJOR PROJECTS EXECUTED

SL. No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
91	DUBAI FESTIVAL CITY	HYDER CONSULTING	DUBAI FESTIVAL CITY	MDB, SMDB, MCC, CAP.BANK PANEL & DB	14,500,000.00	2003
92	ZAYED UNIVERSITY	SHANKLAND COX Ltd	ZAYED UNIVERSITY	MDB, SMDB, MCC, CAP.BANK PANEL & DB	4,500,000.00	2004
93	EMAAR	HYDER CONSULTING	BURJ DUBAI PHASE -3	MDB, SMDB, MCC, CAP.BANK PANEL & DB	2,750,000.00	2005
94	Mr. MOHAMMAED ABDALLAH AL GERGAWI	IAN BANHAM	AL SOUFOUTH MIXED USE DEVELOPMENT DUBAI	MDB, SMDB, MCC, CAP.BANK PANEL & DB	2,100,000.00	2006
95	EMAAR	HYDER CONSULTING	BURJ DUBAI PHASE -3	MDB, SMDB, MCC, CAP.BANK PANEL & DB	5,300,000.00	2007
96	Mr. HUMAID AHAMED BIN DRAI	CCD	PARK PALACE	MDB, SMDB, MCC, CAP.BANK PANEL & DB	3,000,000.00	2007
97	EMAAR	HYDER CONSULTING	DUBAI MARINA-7W7X- DUBAI	MDB, SMDB, MCC, CAP.BANK PANEL & DB	6,300,000.00	2007
98	EMAAR	NOOR GROUP	BURJ VIEWS PLOT NO 85	ACB, MCC, SSB, CAP.BANK PANEL & DB	9,000,000.00	2006
99	DUBAI INTERNATIONAL MARINE CLUB	ARCH GROUP	G+9 STOREYED LUXUARY BEACH RESORT AL MINA SEYAHI DUBAI	MDB, SMDB, MCP, CAP.BANK PANEL & DB	3,600,000.00	2007
100	TABREED	SNC LAVALIN GULF CONTRACTORS	DIST. COOLING PLANT AT UNIVERSITY LOCATED AT KHALIA CITY	MCC, VFD PANELS AND CAP.BANK PANEL	2,032,591.00	2007
101	DUBAI MUNICIPALITY	AL TURATH ENGG CONSULTANTS	COLD STORAFGE AT CENTRAL FRUIT AND VEG. MARKET	L.V.PANEL, MDB, SMDB, CAP.BANK PANEL & DB	4,775,000.00	2008
102	ABU DHABI GAS INDUSTRIES	SNAMPPROGETTI	GASCO RUWAI 3 rd NGL TRAIN	MCC	610,000.00	2006
103	UNITED TEXTILE FACTORY	CONCEPT CONSULTING ENGINEERING	UNITED TEXTILE FACTORY ON PLOT NO 45. FUJAIRAH	MDB, SMDB, CAP.BANK PANEL & DB	11,000,000.00	2008
104	GULF PHARMACEUTICAL INDUSTRIES	GULF PHARMACEUTICAL INDUSTRIES	JULPHAR GULR PHARMACEUTICAL INDUSTRIES	MDB	9,000,000.00	2009
105	FIRST GULF	IAM BANHAM	COMM. RESI BLDG, AL NADHA	MDB, SMDB, ATS, CAP.BANK PANEL, DB & ISOLATOR PANELS	11,000,000.00	2010
106	DUBAI CIVIL AVIATION	DAR AL HANDSAH	DUBAI INTRTNATIONAL AIRPORT EXPANRION (PHASE-2)	CONTROL PANELS	9,000,000.00	2007
107	RAS LAFFAN LIQUIFFIED NATURAL GAS CO. Ltd.	RAS LAFFAN LIQUIFFIED NATURAL GAS CO. Ltd.	GASCO RUWAI 3 rd NLG TRAIN	CONROL PANELS	11,000,000.00	2005
108	AL FUTTAIN REALESTATE	KLING CONSULT	AL FUTTAIM MOTOR PARTS DISTRIBUTION CENTER @ DIP	MDB, SMDB, CAP.BANK PANEL & DB	9,000,000.00	2007

22.0 MAJOR PROJECTS EXECUTED

SL. No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
109	SAEED HUMAID MATAR AL TAYER	IAM BANHAM	AL TAYER TOWER – AL BARSHA	MDB, SMDB, CAP.BANK PANEL & DB	1,417,465.00	2009
110	ABDULLA HASSAN AL RUSTAMANI	IAM BANHAM	AL ROSTAMANI TOWERS	MDB, SMDB, CAP.BANK PANEL & DB	1,315,000.00	2006
111	DEPARTMENT OF CIVIL AVIATION	ADPI / DAR AL HANDSAH	JXB1/DB/220 CARGO TERMINAL BUILDING	MDB, SMDB, MCC, CAP.BANK PANEL & DB INCLUDING AUTOMATION PLC	4,811,000.00	2010
112	DUBAI SPORTS CITY	SINCLARIKNIGHT MERS (SKM)	CRICKET STADIUM-S3	MDB, SMDB, CAP.BANK PANEL & DB	1,569,866.00	2008
113	KLEINDIENST & PARTNERS	HALCROW	EUROPEAN BUSINESS CENTRE	MDB, SMDB, CAP.BANK PANEL, CHILLER PANELS & DB	702,404.00	2008
114	KHARAFI NATIONAL CO	KHARAFI NATIONAL CO	LABOUR CAMP. DUBAI	MDB, SMDB, SYNCHRONISING PANEL	519,984.00	2007
115	DUBAI POLICE FORCE	ARIF & BINTOAK	TRANSPORT AND RESCUE DEPARTMENT COMPLEX FOR DUBAI POLICE FORCE	L.V. PANEL , SMDB, DB & FEEDER PILLER	1,146,455.00	2006
116	OMNIYAT	SPEC	ONE @ BUSINESS BAY	L.V. PANELS , SMDB, MCC, CAP.BANK PANEL & DB	2,160,000.00	2009
117	ENGINEERS OFFICE	ENGINEERS OFFICE	EVENT ARENA @ AL MARMOOM, DUBAI	MDB, SMDB, CAP.BANK PANEL & DB	466,723.00	2009
118	JIWIN INVESTMENTS	LACASA	G+2 LABOUR ACCOMODATION	MDB, SMDB, CAP.BANK PANEL & DB	1,853,050.00	2009
119	LINK INVESTMENTS	BAINONA	DEVELOPMENT OF FLATS C1/Z-9 SHK. MOHD BIN ZAYED CITY AXD	MDB, CAP.BANK PANEL & DB	463,000.00	2010
120	ABU DHABI GAS INDUSTRIES	SNAM PPROGETTI	GASCO RUWAI 3 rd NGL TRAIN	MCC	1,000,000.00	2010
121	EMITATES OF ABU DHABI	WS ATKINS & PARTNER OVERSEAS	ETHIHAD INTERIM TERMINAL CONSTRUCTION, AXD	MDB, SMDB, MCC, CAP.BANK PANEL & DB	6,700,000.00	2008
122	H.H. SHEIKH HAMDAN BIN ZAYED AL NAHYAN	IAN BANHAM & ASSOCIATES	AL KAMAL TOWER	MCC & CAP.BANK PANEL	1,250,000.00	2009
123	H.H. SHEIKH HAMDAN BIN ZAYED AL NAHYAN & LINK INVESTMENT	DEWAN	COMPLEX OF 18 VILLAS FOR H.H. SHKA. MOZA BINT HAMDAN AL NAHYAN	MDB, SMDB, CAP.BANK PANEL & DB	910,000.00	2008
124	DEPARTMENT OF THE PRESIDENTS AFFAIRS ABU DHABI	AL SALAAM	MISCELLANEOUS BUILSDINGS AT ABU AL ARYAD ISLAND	MDB, SMDB, CAP.BANK PANEL & DB	407,560.00	2008
125	HIGHER CORPORATION FOR SPECIALIZED ECONOMIC ZONES INDUSTRIAL CITY OF AXD	AL RAMAHI ENGG.	ABU DHABI BUSINESS HUB, PHASE-1 OFFICE COMPLEX	MDB, SMDB & DB	887,299.00	2008
126	ABU DHABI NATONAL HOTEL	AL SALAAM	SPECTRUM GLASS FACTORY-AXD	MDB, SMDB, ATS, & CAP.BANK PANEL	1,089,999.00	2008

22.0 MAJOR PROJECTS EXECUTED

SL. No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
127	GENERAL AUTHORITY FOR HEALTH SERVICES	HDP (OVERSEAS) Ltd.	PRIMARY HEALTH CARE CENTER AT AL MUWAIJI- AL AIN	MDB, SMDB, CAP.BANK PANEL & DB	464,530.00	2010
128	H.H. SHEIKH TAHOON BIN MOHAMED AL NAHYAN	AL SALAAM	AL AIN ROTANA HOTEL EXTENTION PHASE-1	MDB, SMDB, CAP.BANK PANEL & DB	992,416.00	2011
129	MUBADALA DEVELOPMENT	COX GROUP	UAE UNIVERSITY NEW CAMPUS	MDB, SMDB, MCC, CAP.BANK PANEL & DB	16,000,000.00	2009
130	SHARJAH MUNICIPALITY	HALLCROW	DIBBA AL HISN SEWORAGE NETWORK PHASE-1	MDB, MCC & MCP INCLUDING AUTOMATION PLC	1,033,127.00	2009
131	GOVT. OF DUBAI AIRPORT FREE ZONE AUTHORITY	M. ENGINEERING. INC	CENTRAL CHILLING PLANT MODIFICATION	MDB, MCC, CAP.BANK PANEL & DB	463,795.00	2008
132	TAMEER	ADAN SAFFARINI	PRINCESS TOWER (DXB)	MDB, SMDB, CAP.BANK PANEL & DB	3,439,303.00	2009
133	MAF SHOPPING MALLS	WSP MIDDLE EAST	MIRDIF CITY CENTRE	MDB, SMDB, CAP.BANK PANEL & DB	22,000,000.00	2011
134	ALDAR (MASSEERA)	HALCROW	YAS ISLAND DEVELOPMENT	MDB	1,025,000.00	2011
135	EMIRATES INTERGRATED TELECOMMUNICATIONS COMPANY PJSC (DU)	AL TURATH ENGINEERING	TECOM INVESTMENT FZ-L.L.C, SPORTS CITY VICTORY HEIGHTS & VILLA AL WARQAA	MDB, SMDB, ATS, CAP.BANK PANEL & DB	1,773,446.00	2007
136	GENERAL AUTHORITY FOR HEALTH SERVICES	GENERAL HEALTH AUTHORITY	PRIMARY HEALTH CARE CENTER IN MADINAT ZAYED – ABU DHABI	MDB, SMDB, CAP.BANK PANEL & DB	698,000.00	2009
137	BEACON EDUCATION	W.S. ATKINS	BEACON EDUCATION SCHOOLS AT AL RAHA GARDENS (AXD)	MDB, SMDB, CAP.BANK PANEL & DB	557,740.00	2008
138	OMAR AL MANA (QATAR)	ARCHITECTURAL CONSULTING GROUP	AL MANA VILLAS	M.V. PANEL, SMDB, CONTROL PANEL & ATS PANEL	600,000.00	2008
139	AL FUTTAIM REAL ESTATE	N.E. AZZAM & PARTNERS	INTERCON HOTEL STAFF	MDB, SMDB, MCC, CAP.BANK PANEL & DB	2,800,000.00	2009
140	DUBAI PROPERTIES	KHATIB & ALAMI	BAY SQUARE AT BUSINESS BAY	MDB, SMDB & DB	9,000,000.00	2013
141	NAKHEEL	DYNAMIC ENGINEERING CONSULTANT	613 VILLAS @ JUMEIRA VILLAGE	MDB, SMDB, METER CABINET, CAP.BANK PANEL & DB	5,500,000.00	2009
142	EMIRATES MEDIA ASSOCIATION	TAMMER CONSULTING ENGINEERING & MANAGEMENT	UNITED PRINTING AND PUBLISHING	MDB, SMDB, ACB PANEL, CAP.BANK PANEL & DB	2,200,000.00	2010
143	ALDAR	CLARKEBOND MIDDLE EAST ENGINEERING AND MANAGMENT	LABOUR VILLAGE @ AL AIN	MDB, SMDB, CAP.BANK PANEL & DB	4,550,000.00	2008
144	TABREED	TABREED	TABREED COOLING PLANT RB-04 (017721), AL RAHA BEACH, AXD	MCC, CAP.BANK PANEL & CONTROL PANEL	13,254,046.00	2008

22.0 MAJOR PROJECTS EXECUTED

SL. No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
145	TABREED	TABREED	TABREED COOLING PLANT RB-02 (017721), AL RAHA BEACH, AXD	MCC, CAP.BANK PANEL & CONTROL PANEL	13,267,166.00	2011
146	TABREED	TABREED	TABREED COOLING PLANT T-07, P-7301 ZAYED MILITARY CITY,(AXD)	L.V. MCC & CAP.BANK PANEL	3,189,485.00	2008
147	TABREED	TABREED	TABREED COOLING PLANT T-08, P-7301 ZAYED MILITARY CITY,(AXD)	L.V. MCC & CAP.BANK PANEL	3,330,185.00	2008
148	DEPARTMENT OF THE PRESIDENTS AFFAIRS	DEWAN ARCHITECTS & ENGINEERINGS	AL RAWDHA PALACE	CAPACITOR BANK PANELS	830,000.00	2009
149	GOVERNMENT OF DUBAI ROADS & TRANSPORT AUTHORITY	ATKINS	DUBAI METRO-RASHIDIYA DEPOT	MDB & MCC	1,225,000.00	2009
150	UAE ARMED FORCES DIRECTORATE OF MILITARY WORKERS (DMW)		MW/SOC/CFD/SC/208/247	LV PANES & CAP. PANELS	2,038,940.00	2009
151	PACIFIC CONTROLS	ORBIT ENGINEERING CONSULTANTS	CLOUD COMPUTING CENTER	MDB,SMDB,MCC,CAP.PANEL & DB INCLUDING AUTOMATION PLC	4,153,600.00	2012
152	H.H SHAIKH RASHID BIN KHALIFA AL MAKTOUM	M/S. ARKIPLAN CONSULTING ARCHITECTS & ENGINEERS	B+G+12 FLOOR PARKING BUILDING LATIFA TOWER	MDB,SMDB,MCC,CAP.PANEL & DB	1,412,729.00	2011
153	GOVERNMENT OF DUBAI ROADS & TRANSPORT AUTHORITY	ATKINS	PROJECT DM-001 DUBAI METRO PROJECT - GREEN LINE	MDB,SMDB & DB	3,559,140.00	2010
154	GOVERNMENT OF DUBAI ROADS & TRANSPORT AUTHORITY	ATKINS	DUBAI METRO(DM-001)-RASHIDIYA DEPOT	MCC	2,247,788.00	2010
155	SHETH ESTATE (INTERNATIONAL) Ltd.	WS ATKINS & PARTNERS OVERSEAS	IRIS BAY PLOT NO.BB.A.02.005	MDB,SMDB,MCC,CAP.PANELS,CONTROL PANELS & DB	3,211,085.00	2010
156	JULPHAR		JULPHAR - J10	LV. PANEL	850,000.00	2011
157	Mr. ABDULAH HAMAD OBAID AL SHAMSI	AL NAHDA ENG. CONSULTANT	PROPOSED (G+4P+20) BLDG	MDB,SMDB,CAP.PANEL & DB	905,815.00	2011
158	SHARJAH MUNICIPALITY	M/S.HALCROW	DIBBA AL HISN FOUL MAIN LIFTING PUMP STATION TANKER DISCHARGE FACILITY	MDB,MCC & CAP.PANEL	849,872.00	2009
159	ABUDHABI INVESTMENT COUNCIL	ARUP	ABUDHABI INVESTMENT COUNCIL NEW HEADQUARTERS	MDB & ACB PANELS	1,023,649.00	2011
160	INTERNATIONAL CAPITAL TRADING	RAFIK EL - KHOURY & PARTNERS	AL-RAHA BEACH HOTEL EXTENSION ABUDHABI UAE.	MDB,SMDB,MCC,CAP.PANELS,CONTROL PANELS & DB	1,234,000.00	2012
161	GIFFIN TRAFFIKS LLC	FIRAS ENGINEERING CONSULTANT	FACTORY	MDB,SMDB,CAP.PANEL & DB	1,032,000.00	2012
162	EMIRATES LAND GROUP POST BOX-26536, ABUDHABI UAE.	RAMBOLL	SHINING TOWERS AL KHALDIA COMPLEX PLOT-C9,SECTOR-W9.	MCC & CONTROL PANELS	958,766.00	2012

22.0 MAJOR PROJECTS EXECUTED

SL.No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
163	ADNOC		RUWAIIS HOUSING COMPLEX EXPANSION - PHASE III	CAP. BANK PANELS	1,893,771.00	2013
164	CROWN PAPER MILL LTD.	CONSULTING ENGINEERING GROUP	CROWN PAPER MILL FACTORY	MDB's	854,125.00	2010
165	ABUDHABI INVESTMENT COUNCIL	ARUP	ABUDHABI INVESTMENT COUNCIL NEW HEADQUARTERS	MDB's, ACB PANEL, GENSET PANEL & ATS PANEL	3,483,315.00	2011
166	MUBADALA	AECOM	CLEVELAND CLINIC - ABU DHABI	MDB, SMDB, MCC, CAP. PANEL & DB TESTING AND COMMISSIONING AND PMCS SYSTEM, IPS PANELS	35,000,000.00	2013
167	KHARAFI NATIONAL CO.(L.L.C.)	IAN BANHAM AND ASSOCIATES	KHARAFI NATIONAL OIL AND GAS EQUIPMENT FABRICATION PJSC	MDB, SMDB & DB	3,235,864.00	2012
168	EMIRATES LAND GROUP	RAMBOLL	SHINING TOWERS OF ABUDHABI AL KHALDIA COMPLEX	MDB, ACB PANELS, ATS, SMDB, CAP. PANEL & DB	2,448,075.00	2012
169	H.E. SHEAIKH AHMED BIN SAIF BIN MOHAMMAD AL NAHYAN	ACG - ARCHITECTURAL CONSULTING GROUP	NOVOTEL & IBIS HOTEL, MUSSAFAH, ABU DHABI	MDB, ATS, SMDB, MCC, CAP. PANELS, CONTROL PANELS & DB	3,650,750.00	2012
170	ALDAR	HALCROW INTERNATIONAL PARTNERSHIP	YAS ISLAND DEVELOPMENT SOUTHERN TUNNEL CROSSING	MDB's INCLUDING AUTOMATION PLC	2,335,000.00	2010
171	DEPARTMENT OF THE PRESIDENTS AFFAIRS, ABU DHABI		PRIVATE VILLA AT LA MISERE SEYCHELLES	MDB, SMDB, MCC, CAP. PANEL & DB	3,162,782.00	2011
172	DEPARTMENT OF THE PRESIDENTS AFFAIRS, ABU DHABI		PRIVATE VILLA AT BARBARON SEYCHELLES	MDB, SMDB, MCC, CAP. PANEL & DB	3,771,656.00	2011
173	TABREED	TABREED	TABREED COOLING PLANT SHAMS ISLAND (017906) - SM01, ABUDHABI, U.A.E	LV. MCC & MCC's INCLUDING AUTOMATION PLC	4,619,304.00	2010
174	YAHSAT (UNITED ARAB EMIRATES)	ALTURATH ENGINEERING CONSULTANTS	YAHSAT SGS PROJECT SITE-A AL FALAH SWEIHAN ROAD, ABUDHABI	MDB, SMDB, CAP. PANEL & DB INCLUDING AUTOMATION PLC	8,094,364.00	2011
175	ABU DHABI POLICE GHQ POLICE PROJECTS COMMITTEE	ARCH. & PLANNING GROUP (APG)	EXEMPLARY SCHOOL FOR POLICE AL AIN	MDB, SMDB, MCC, CAP. PANEL & DB	1,300,000.00	2012
176	AL DAR	ARCHITECTURE & PLANNING GROUP	AL AIN LABOUR VILLAGE AT SEEH AL LAHAMA - AL AIN	MDB, SMDB, CAP. PANEL & DB	2,247,950.00	2011
177	YAHSAT (UNITED ARAB EMIRATES)	ALTURATH ENGINEERING CONSULTANTS	YAHSAT SGS PROJECT SITE-B AL AIN MILITARY CAMP, AL AIN	MDB, SMDB, CAP. PANEL & DB INCLUDING AUTOMATION PLC	3,362,410.00	2010
178	AL GHURAIR CITY	ARIF & BINTOAK	AL GHURAIR CITY EXPANSION (PHASE-II), DUBAI, U.A.E.	MDB, ATS, SMDB, MCC, CAP. PANELS, CONTROL PANELS & DB	17,269,807.00	2013
179	SOROUH REAL ESTATE PJSC	M/S. EWAN	WATANI RESIDENTIAL DEVELOPMENT, PHASE 1A-ABUDHABI, UAE	SMDB's & DB's	2,346,407.00	2012
180		M/s. BURO HAPPOLD CONSULTING ENGINEERS	THE LAND MARK TOWER - ABU DHABI	PDB, SDB, MCC, CAP. PANEL & DB	10,626,570.00	2013

22.0 MAJOR PROJECTS EXECUTED

SL.No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
181	H.E.AL SHAIKH RASHID BIN KHALIFA BIN SAEED AL MAKTOUM	ARKIPLAN	LATIFA TOWER, RESIDENTIAL/COMMERCIAL (B+G+M+41+2 MECH. FLOORS)	LV.PANELS, ACB PANELS, CAP. PANELS,MCC, SMDB'S & DB	5,697,075.00	2011
182	TABREED	SNC-LAVALIN	DISTICT COOLING PROJECT, MERAASLAND DUBAI, UAE-619532 -OP7301	LV.MCC,CAPACITOR BANK,HARMONIC FILTER ,SOFSTARTER PANELS,AUTOMATION PLC	6,895,070.00	2015
183	DEPARTMENT OF PRESIDENT'S AFFAIRS	PLANQUADRAT MIDDLE EAST	ANCILLARY BUILDING FOR NEW RESIDENTIALCOMPLEX AT GHANADA ISLAND, ABU DHABI	MD,SMDB,FDB INCLUDING AUTOMATION AND PLC	2,144,000.00	2014
184	G.H.Q ARMED FORCES	KHATIB & ALAMI	OFFICERS ACCOMODATION ZONE-C, 96 VILLAS IN ABU DHABI GATE CITY	SMDB & DB	1,095,609.00	2014
185	UNION NATIONAL BANK	ARCHITECTURAL CONSULTING GROUP	NAJMAT RESIDENTIAL TOWER IN PLOT-C18 SECTOR RR-2, REEM ISLAND, ABU DHABI	MDB,SMDB,DB,CAPACITOR BANK PANEL,ISOLATOR PANEL	3,692,217.20	2014
186	UNION NATIONAL BANK	ARCHITECTURAL CONSULTING GROUP	NAJMAT RESIDENTIAL TOWER IN PLOT-C21 SECTOR RR-2, REEM ISLAND, ABU DHABI	MDB,SMDB,DB,CAPACITOR BANK PANEL,ISOLATOR PANEL	2,067,772.00	2014
187	DEPARTMENT OF PRESIDENT'S AFFAIRS	PLAN QUADRAT MIDDLE EAST	CONSTRUCTION OF NEW ACC. BLOCK & OTHER ADDITIONAL FACILITIES IN GHANADA ISLAND, ABU DHABI, UAE	SMDB,DB,CAPACITOR BANK PANEL	1,552,737.00	2014
188		KPF	ABU DHABI INTERNATIONAL AIRPORT MID FIELD TERMINAL BUILDING	CONTROL PANELS	9,529,683.02	2014
189	FIRST GULF BANK	ARCHITECTURAL & ENGINEERING CONSULTANTS	FIRST GULF BANK OFFICE BUILDING PLOT C110, SECTOR E48 AL GURM AREA, ABU DHABI ,UAE	MDB,SMDB,DB,ATS PANEL	2,602,388.00	2014
190	ADNOC	AL TORATH CONSULTING ENGINEERS	RUWAI'S HOUSING COMPLEX EXPANSION PHASE IV CONSTRUCTION OF BACHELOR ACCOMODATION NO.147010C7	MDB,SMDB,DB,LV PANEL,CAPACITOR BANK PANEL	3,562,800.00	2014
191	PRESIDENTIAL GUARD COMMAND	AL TORATH CONSULTING ENGINEERS	PGC-C-100-P3-2013	MDB,SMDB,DB,ATS PANEL,CAPICITOR BANK PANEL,MCC	2,762,124.00	2015
192	TABREED/PGC	TABREED	AD-16,7000 DISTRICT COOLING PLANT, PRESIDENTIAL GUARD CAMP, MAHAWI, ABU DHABI	LV,MCC PANEL,CAPACITOR BANK PANEL INCLUDING AUTOMATION AND PLC	1,574,675.00	2015
193	ADVANCED MILITARY MAINTANENCE REPAIR OVERHAUL CENTER (AMMROC)	WSP	AMMROC LARGE PLANT BOOTH IN HANGER 6	MDB,CAPACITOR BANK PANEL	1,129,447.00	2015
194	DUBAI AVIATION ENGINEERING PROJECT CORPORATION (DAEP)	DAR AL HANDASAH	AL MAKTOUM INTERNATIONAL AIRPORT -PTB EXPANSION SF726	MDB,DB,VFD PANEL,ISOLATOR PANEL INCLUDING AUTOMATION AND PLC	11,761,641.72	2016
195	DUBAI AVIATION ENGINEERING PROJECT CORPORATION (DAEP)	DAR AL HANDASAH	DUBAI INT. AIRPORT EXP. (PHASE-III) CONTRACT NO:SP070-CONCOURSE,C,B, AND TERMINAL-1 (BHS HALLS C&D)	MDB,SMDB,FDB,CAPACITOR BANKS,BATTERY BANKS PANELS. INCLUDING AUTOMATION AND PLC	10,020,839.69	2016
196	ABU DHABI AIRPORTS CORPORATION	KPF	ABU DHABI INTERNATIONAL AIRPORT MIDFIELD TERMINAL BUILDING	CONTROL PANELS	1,286,000.00	2016

22.0 MAJOR PROJECTS EXECUTED

SL.No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
197	ADIC		AUTOMATIC TRANSFER SWITCH WITH DOUBLE BY PASS	ATS PANEL, LV PANEL MODIFICATION	1,070,005.00	2016
198	H,H SHEIKH MANSOUR BIN ZAYED BIN SULTAN AL NAHAYAN ENGINEERING OFFICE	GAJ MIDDLE EAST ARCHITECTURE & CIVIL ENGINEERING CONSULTANTS	AL WATHBA DESERT RESORT	MDB, SMDB, DB, ATS PANEL, CAPACITOR BANK PANEL INCLUDING AUTOMATION PLC	2,965,007.00	2016
199	UNITED IRON & STEEL COMPANY LLC.	CONSULTING ENGINEERING GROUP	CONSTRUCTION OF UNITED IRON AND STEEL FACTORY	MDB, CAPACITOR BANK PANEL	1,673,000.00	2016
200	EMIRATES BUSINESS GROUP	SACRE-DAVEY MIDDLE EAST LLC	ASEPTIC PACKAGE PLANT	SMDB, DB, CAPACITOR BANK PANEL	1,116,000.00	2016
201	PETROBEL & EIN S.P.A EGYPT	DELTA CONTROL	EARLY PRODUCTION FACILITIES FOR ZHOR PROJECT	MDB, SMDB, INCLUDING AUTOMATION PLC	2,229,988.00	2016
202	DUBAI AVAITION	DAR AL HANDASAH	ARAR UTILITY COMPANY L.L.C	MDB, DB, CAPACITOR BANK PANEL, FP, KWH METER	1,800,000.00	2016
203	ABU DHABI GAS LIQUE FACTION CO.LTD	'AMEC FOSTERWHEEL	EPC WORKS FOR NEW CCI AND HMI UPGRADE	MDB, SMDB, DB'S AND INCLUDING AUTOMATION PLC	2,230,730.00	2017
204	NAKHEEL	ARIF & BINTOAK	NAD AL SHIBA VILLAS PACKAGE-1- DUBAI.	MDB, DB, METER CABINET	1,034,035.00	2017
205	MERAAS DEVELOPMENTS	DYNAMIC ENGINEERING CONSULTANT	LA MER WATER PARK	SMDB & DB's	1,148,297.00	2017
206	RIAD TAWFIQ MAHMOOD AL SADEK	DIAR CONSULT	BAY VIEW HOTEL	MDB, SMDB, MCC, DB	1,195,054.80	2017
207	PRESEDENTIAL PALACE HOTEL		SWRO TREATMENT PLANT FOR EMIRATES PALACE HOTEL	MDB, SMDB, MCC, DB	1,200,000.00	2017
208	DUBAI FESTIVAL CITY		DFC-SALSA-PHASE 2- MILESTONE-2	MDB, SMDB	1,312,500.00	2017
209	NFPC	NEB	NFPC-MEGAPLANT	MDB, SMDB, DB, ATS PANEL, CAPACITOR BANK PANEL, HARMONICS FILTER, INCLUDING AUTOMATION PLC WITH TESTING AND COMMISSION	1,315,462.96	2017
210	DAEP	DAR AL HANDASAH	SUPPLY OF SMDBS & DBS FOR AMI/250	SMDB & DB's	1,398,628.90	2017
211	DEAP	DAR	BLD-050 REMOTE COACHING FACILITIES	MDB, SMDB, MCC	1,478,720.00	2017

22.0 MAJOR PROJECTS EXECUTED

SL.No.	CLIENT	CONSULTANT	PROJECT	PRODUCT	VALUE	YEAR
212		HEBERGER ENGINEERING	ECLIPS TOWER	MDB'S, EMDB, MCC, SMDB'S & DB'S	1,522,427.00	2017
213	UNITED IRON&STEEL COMPANY	CONSULTING ENGINEER GROUP	UNITED IRON AND STEEL FACTORY ICAD-III,MUSSAFAH	MDB	1,673,000.00	2016
214	ADNOC	ADNOC	RUWAIH HOUSING COMPLEX EXPANSION	MDB,SMDB	1,852,683.00	2017
215	DUBAI AVIATION ENGINEERING PROJECT	DAR AL HANDASAH	AMI/250 AL MAKTOUM INTERNATIONAL AIRPORT	MDB, CAPACITOR BANK PANEL, FEEDER PILLAR, DB, METER CABINET PANEL	1,975,804.18	2017
216	ETISALAT	SALFO	MV AND TRX FOR AL AIN DATA CENTER PROJECT	MV SWITCHGEAR,MV TRANSFORMER,BATTERY BANK	2,280,000.00	2018
217	LULU	WHITE	LULU HYPER MARKET (WESTERN REGION)	MDB,SMDB,MCC,DB	2,319,050.00	2018
218			MIXED USE TOWER, CORNICHE, ABUDHABI	MDB,MCC,SMDB,DB,CP	2,350,000.00	2019
219	ADCO	ADNOC	ADCO PROJECT-BAB ACCOMMODATION COMPLEX	LV PANEL INCLUDING AUTOMATION PLC	2,680,000.00	2018
220	M/S FUTTAIM GROUP REAL ESTATE	BLACK & WHITE	DFC MALL EXTENSION SALSA PHASE-2 MILESTONE-2	DBs,SMDBs,MDBs,CAP.BANK,METER CAB & SMDB MDB HARMONIC FILTER	3,155,534.09	2019
221	NAKHEEL	ARIF & BINTOAK	NAD AL SHIBA VILLAS PACKAGE-2, DUBAI.	MDB, METER CABINET, FDBs	3,340,910.58	2018
222	ETISALAT	DC PRO	AL AIN DATA CENTER PROJECT	MDB,PDU,SMDB, CAPACITOR BANK PANEL, ATS PANEL,HARMONIC FILTER INCLUDING AUTOMATION PLC	8,900,000.00	2020
223	DUBAI AIRPORTS	DAR	SP473 - UPGRADE OF STORMWATER DRAINAGE	SMDB, CAPACITOR BANK PANEL, ISOLATOR PANEL,MCC INCLUDING AUTOMATION PLC	8,975,000.00	2020
224	TABREED	TABREED	DISTRICT COOLING PLANT EXPANSION Y101EXP1,10000 TR OPTION A WITH 4 CHILLERS	DB'S,MCC PANEL INCLUDING AUTOMATION PLC	1,280,000.00	2017