



TIBICO PRESTRESSING & DECORATION WORKS LLC is a specialized Post Tension Company established in Dubai, having a performing staff with knowledge and experience necessary to provide professional service to the Consultants, General Contractor's full PT design, Supply and full supervision of installation for PT Post Tensioning System.

TIBICO has variable range of services to completely satisfy local post tensioning market requirements and the main international standards. Having designs and supply of high quality strands, Anchorages of any dimension to suit buildings construction has installed either live, dead or coupling anchorages for any type of bonded internal and external post tensioning systems.

#### Our design and services include:

- Value Engineering for structures
- · Conceptual design for preliminary costing
- Design and execution of Post Tensioned slabs in buildings.

#### Post Tensioning in Building

In buildings, PT in used primarily for the following reasons

- Larger spans (large clear area without Columns)
- Thinner slabs
- Better crack control
- Reduce concrete quantity
- Reduce steel quantity
- Reduce form work requirement and turnaround time.
- Aesthetic and functional adaptability.
- Reduce overall structural costs.

TIBICO has vastly experienced personnel engaged in design and execution of post tensioned slabs. Our team of engineers works closely with the clients, consultants and contractors to derive the most economical value engineering solutions through incorporation of the latest innovations in material science and techniques alike.



#### LOCATION





#### CONTACT DETAILS

off.#401,Afra building | Al Rigga Street

PO.Box. 14946 Dubai | UAE

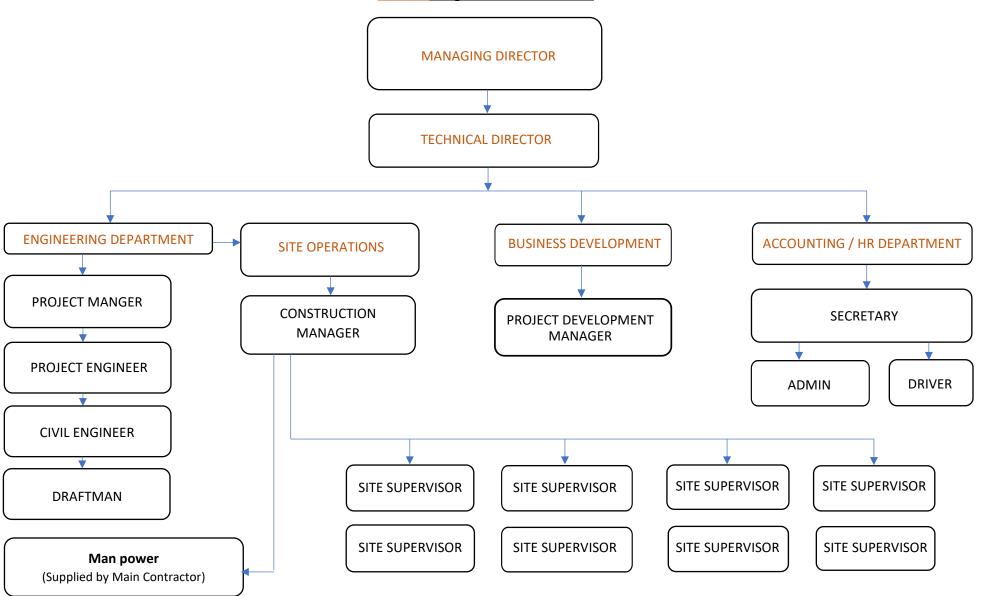
**Tel:** +971 4 2272415 **Fax:** +971 4 2272417

Mobile: +971 50 7753313

Email: tibicodxb@gmail.com



#### **TIBICO Organizational Chart**





# MPT PRESTRESSING & POST TENSIONING SYSTEM



YOU BUILD, WE CONNECT!

## HALFEN-MOMENT GROUP

THE HALFEN-MOMENT GROUP
OF COMPANIES STARTED ITS
OPERATION IN MALAYSIA, SUPPLYING
MECHANICAL COUPLERS TO
CONSTRUCTION SITES, AS A COST
EFFECTIVE ALTERNATIVE FOR
CONVENTIONAL SPLICING.
ONE OF OUR FIRST ICONIC PROJECTS
WAS THE PETRONAS TOWERS.
SINCE THEN, THE GROUP HAS BEEN
EXPANDING RAPIDLY AND TODAY
THE MOMENT® COUPLER IS A WELLESTABLISHED BRAND IN THE MARKET.

With headquarters in Malaysia, serving as the central hub, and being supported by its subsidiaries in Singapore, Philippines and India together with invaluable partners in other markets, we have positioned ourselves as a leading building products player with an established and extensive network throughout Asia and the Middle East.

Long term partnerships with our customers motivate us to continuously extend our product offering to more reinforcement and construction accessories. Our product range is used from small scale residential projects to large development projects in infrastructure, high rise or commercial construction. Our specialized teams are there to provide technical information and to ensure consistent and high quality solutions.

Since 2012, the Halfen-Moment Group has been part of CRH plc, a Global Fortune 500 company, with an annual turnover in excess of €27 billion. Thanks to CRH plc, The Halfen-Moment Group has access to financial resources, innovative products and technical expertise from around the world in order to support its continuous development.

Being part of a stock quoted company, we are aware of our global, local and social responsibility. Leading our business with integrity is our daily credo!

#### **MILESTONES**

1991

Incorporation of MOMENT



1998

1999

2003

2005

2008

2010

Expansion of **MOMENT** to Singapore

Expansion of **MOMENT** to Philippines

MOMENT goes Middle East First patent of **MOMENT** BARBREAK coupler Sole distributorship for FORTA reinforcement fibre in Asia

Expansion of **MOMENT** to India



### **QUALITY**

#### Halfen-Moment Group offers additional services to you from technical support, statistical calculation to product installation performed by our qualified engineers & specially trained staff.

Providing quality assurance & safe products through excellent service, is one of the top principles of Halfen-Moment Group. Being part of CRH plc., we strive to adhere to the most stringent group quality policies. Our in house team is conceived daily with quality checks to ensure the highest quality is offered. Our quality management system is accorded by the ISO 9001: 2008 accreditation.

Acquisition of **MOMENT** by CRH and restructuring as **HALFEN-MOMENT** Group

Widening of product portfolio via collaboration with CRH subsidiary companies:

HALFEN, ANCON AND PLAKA GROUP

Launching of the complete range of precast accessories

Participating in the iconic Qatar Basin project with 2.5 million epoxy couplers supplied within the year

2012

2013

2014

2015

**Partnership** with **Mekano4** to supply **European Certified Post** Tensioning System, Pot Bearing and Stayed Cable

2017.

2016

**Developmental** of operational excellence with Lean 6S Safety implementation

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# MPT PRESTRESSING AND POST TENSIONING SYSTEM

is designed and tested to meet stringent standards, the range of buildings and civil engineering applications includes:

- Commercial and residential high rise
- Retails shopping centers
- Load transfer structures
- Slabs on grade
- Silos and reservoirs
- Bridges
- Ground anchoring and earth retaining

#### MPT FLAT SLAB SYSTEMS

MPT flat slab system is normally adopted for bonded tendon. The strands are individually gripped in one triangle flat anchor head unit and transmit their pre-stressing forces by means of flat type anchor plate casting unit. The strands are stressed individually by means of a mono strand jack. The strands are contained in one flat duct (duct size: 20mm x 70mm) which is made of corrugated galvanized metal. To ensure corrosion protection and to give adequate bond strength, the tendons are filled with suitable cement grout mix after complete stressing of the strands. Facilitating of concrete placing due to the absence of tendons in the webs, and ease for placing tendons.





MPT Flat Slab System and flat duct being layed in position.



PC strand being marked after stressing.

#### MPT DEAD END ANCHORAGE

Stressing of a tendon from one end only, to which the load is applied.





MPT dead end anchorage being layed in position.

#### MPT MULTISTRAND ROUND SYSTEMS

A method of reinforcing and pre-stressing concrete, masonry and other structural elements. Today, it is used for a wide range of applications including office buildings, condominiums, hotels, parking structures, slab-on-ground foundations, ground anchors, storage tanks, stadiums, silos, and bridges.

The systems are normally adopted for bonded tendons. The tendons consist of a bundle of strands with a nominal diameter of 0.5" (12.7 mm.) or 0.6" (15.2 mm.). The number of strands per tendon can be from 4 strands up to 42 strands of diameter 0.5" or 31 strands of diameter 0.6". The strands in the tendons are contained in one round duct which is made of corrugated galvanized metal.

The strands are individually gripped in one anchor head unit and transmit their pre-stressing force by means of anchor plate casting unit. For each anchor size, special spiral reinforcement is provided at the anchor plate casting to give adequate splitting reinforcement for bustling stresses developed at the anchorage zone. The strands in tendon are stressed simultaneously by means of a multi strand stressing jack from capacity 1,100 KN up to 5,000 KN. The strands can also be stressed individually by means of mono jack.

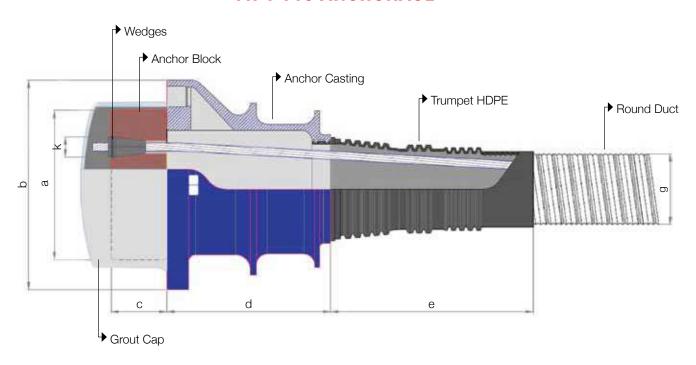


MPT Multistrand Round System on post tensioning beam.



Post tensioning beams with anchor block and strand in place ready for stressing.

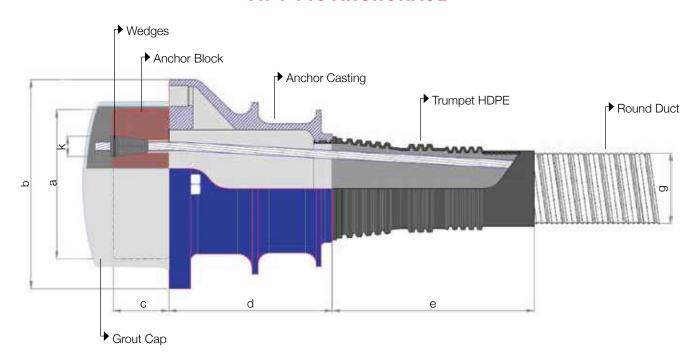
#### **MPT T13 ANCHORAGE**



Anahayana			Dimension in mm							
Anchorage			4T13	7T13	12T13	15T13	19T13	22T13	27T13	31T13
Anchor	а	Diameter	80	100	140	155	170	190	210	220
Block	С	Length	40	40	50	55	60	65	70	80
Anchor	b	Diameter	125	155	190	210	230	265	340	360
Casting	d	Length	120	150	160	190	190	200	230	280
Trumpet HDPE	е	Length	100	100	140	190	200	280	280	290
Round Duct	g	Internal Diameter (ID)	40	45	60	65	75	80	90	95
Wedges	k	Diameter	23	23	23	23	23	23	23	23



#### **MPT T15 ANCHORAGE**



Anchayana		Dimension in mm								
Anchorage			4T15	7 <b>T</b> 15	12T15	15T15	19T15	22T15	27T15	31T15
Anchor	а	Diameter	100	125	170	190	200	230	250	260
Block	С	Length	45	45	55	60	65	70	85	90
Anchor	b	Diameter	140	180	220	250	270	300	330	336
Casting	d	Length	130	160	190	220	220	240	275	310
Trumpet HDPE	е	Length	65	65	180	210	225	275	275	275
Round Duct	g	Internal Diameter (ID)	45	55	75	80	90	100	110	115
Wedges	k	Diameter	28	28	28	28	28	28	28	28



#### **STRANDS**

The strands are formed with seven steel wires: one central wire around which the other six are wrapped. They are generally supplied already stabilized (low relaxation) and certified according to the regulations by an independent laboratory, in coils weighing kg 2500-3000. Usually greased or waxed strands, incased in a HDPE sheath, commonly called unbounded, are used to manufacture the external tendons. Such Strands can be hot-dip galvanized too.



Appearance	Nominal Dia. (mm)	Tensile Strength (Mpa)	Relaxation (Mpa)	Standards
Seven wires left or right lay	8.0, 9.3, 9.53, 11.1, 12.5, 12.7, 15.2, 15.24, 15.7	1770, 1860	Low relaxation ≤2.5%	ASTM A416 BS5896 EN10138-3 AS/NZS4672 GB/T5224 KS7002 ISO6934-4 SS213620 JISG3536 UNE36094 NEN3868
Other standard and	d non-standard product	s are available upon red	quest	

#### **POST TENSIONING JACKS**

The jack is placed over the strand and when tensioning starts they are automatically and simultaneously engaged in the pulling head of the jack. Once the required elongation and load are reached the lock-off device of the jack can be activated to house the wedges in the anchor head uniformly. The tensioning can be accomplished in more steps based on the elongation of the cable. A tensioned cable can be released using proper releasing devices.



Multi Stressing Jack being hoisted to position.



Multi Strand Stressing in progress. This process shall be done with caution.

#### **GROUTING**

Cables are normally grouted after sealing their anchorages with concrete or, if required, using proper grouting caps. Before grouting the tendons, they should be flushed to ensure that no obstruction would impede the flow of the injected grout.

The sandless grout, injected using MPT grouting pump, is kept under pressure throughout curing. The water-to-cement ratio is kept as low as possible. Usual proportion of ingredients are: 36-38 liters of water, 100kg of cement and addictive according to the instructions of the manufacturer. The mix produces 72-74 liters of grout.



The usage of Grout Mixer and Pump is to make sure smooth flowing of grout, filling the captivity of the duct.



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www.halfen-moment.com

#### **MALAYSIA**

#### HALFEN MOMENT SDN. BHD.

28 Jalan Anggerik Mokara 31/59, Kota Kemuning, 40460 Shah Alam, Selangor, Malaysia

T:+603 5122 4182 F:+603 5122 4184

E:info@halfen-moment.com

#### SINGAPORE

#### HALFEN-MOMENT PTE. LTD.

9 Tractor Road, Singapore 627970

T: +65 6266 6802 F: +65 6266 6980

E:hmsg@halfen-moment.com

#### INDIA

#### HALFEN MOMENT INDIA PVT. LTD.

6, Girikunj, Devdarshan Society, Dongripada, GB Road, Thane 400607, India

T:+9122 2500 7092 F:+9122 2500 7093

E:hmin@halfen-moment.com

#### **PHILIPPINES**

#### HALFEN-MOMENT INC.

2933 Regus, Joy Nostalg, ADB Avenue, Ortigas Center, Pasig City, Philippines

T: +632 957 6381

E: christian.vergara@halfen-moment.com





**DISCLAIMER:** The construction applications and details provided in this literature are indicative only. In every case, project working details should be entrusted to appropriately qualified and experienced persons.

Whilst every care has been exercised in the preparation of this document to ensure that any advice, recommendations or information is accurate, no liability or responsibility of any kind is accepted in respect of Halfen-Moment Group.







عضوية الغرفة

#### رخصة تجارية Commercial License

تفاصيل الرخصة / License Details License No. رقم الرخصة 728581 تيبكو للوحدات المسبقة الشد واعمال الديكور ش.ذ.م.م اسم الشركة **Company Name** TIBICO PRESTRESSING & DECORATION WORK L.L.C تيبكو للوحدات المسبقة الشد واعمال الديكور شذمم الإسم التجارى TIBICO PRESTRESSING & DECORATION WORK L.L.C **Trade Name** شركة ذات مسؤولية محدودة - الشخص الواحد (ذ.م.م.) الشكل القانوني Legal Type Limited Liability Company - Single Owner(LLC - SO) **Issue Date Expiry Date** 04/03/2023 تاريخ الإنتهاء 05/03/2015 تاريخ الإصدار D&B D-U-N-S ® الرقم العالمي رقم الرخصة الام Main License No. 728581 0

DCCI No.

الاطراف / License Members الصفة / Role رقم الشخص/.No الحصص / Share الجنسية / Nationality الإسم / Name حنان جمال حسنى الخواجا 100.00% مالك / Shares Owner וערני / Jordan 546031 HANAN JAMAL HUSNI ALKHAWAJA مدیر / Manager الاردن / Jordan حنان جمال حسنى الخواجا 546031 HANAN JAMAL HUSNI ALKHAWAJA

رقم السجل التجاري

#### نشاط الرخصة التجارية / License Activities

248234

Interior Decoration

Register No.

. 21 77 7 4 2-31 -- 1

**Prestressed Concrete Contracting** 

1790145

اعمال تنفيذ وتركيب الوحدات الانشائية مسبقة الشد

					Address / O'Just
Phone No		تليفون	P.O. Box		صندوق بريد
Fax No		فاكس	Parcel ID	124-744	رقم القطعة
Mobile No	971-50-7753313	هاتف متحرك		mohannad.tibi@gmail.com	البريد الإلكتروني / Email

مكتب 401-401 ملك عفراء غانم علي خليفة الفلاسي-ديرة\_ المرقبات

#### الملاحظات / Remarks

اعمال تنفيذ التصميم الداخلي

إصدار تراخيص المشاريع مرتبط بالاشتراطات الواردة في شهادة سجل المزاولة الفنية الصادرة من البلدية – الاطلاع على السجل من خلال الرابط: deqsmart.dm.gov.ae تم تغيير الشكل القانوني و انسحاب شريك بتاريخ 31/08/2022

رقم الإيصال Receipt No. 14554462 تاريخ الطباعة 11:12 Receipt No.

الإمسارات THE EMIRATES

يمكنك الآن تجديد رخصتك التجارية من خلال الرسائل النصية القصيرة، أرسل رقم الرخصة إلى 6969 (دو/اتصالات) للحصول على اذن الدفع.

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وثيقة إلكترونية معتمدة وصادرة بدون توقيع من دائرة الاقتصاد والسياحة في دبي المراجعة صحة البيانات الواردة في الرخصة يرجي مسح رمز الاستجابة السريعة this is a certified e-document issued without signature by the department of Economy and Tourism .Kindly Scan the QR Code to Verify the certificate



#### شهادة إعتماد نهائ لنظام بناء جديد

## نظام دبي لتراخيص البناء Dubai BPS

رقم الإعتماد : 1 - 2 - 378589 تاريخ الطباعة : 24-Feb-2022 تاريخ الطباعة : 24-Feb-2022

اسم مقدم الطلب :

اسم الشركة /المكتب: / تيبكو للوحدات المسبقة الشد وأعمال الديكور ش.ذ.م.م

المصنع

اسم الشركة الأم : HALFEN MOMENT SDN BHD : ماليزيا

نوع الإعتماد : إعتماد نظام بناء جديد نوع النظام : أنظمة انشائية

اسم النظام : APT Mono Strand PT System Anchor Casting S3 : خرسانة مسلحة لاحقة الشد

وصف النظام : اعتماد نظام خرسانة لاحقة الشد

شروط خاصة :

التزام الشركة المحلية باستخدام مواد نظام الشركة الأجنبية المتعاقد معها وفي حال مخالفة ذلك يعتبر الاعتماد لاغي.

استخدام أسلاك شد من مصانع معتمدة من مختبر دي المركزي.

التقدم بتجديد اعتماد النظام لدى بلدية دي قبل شهر من انتهائه.

ان من مسؤولية المهندس الاستشاري في اي مشروع يتم استخدام فيه هذا النظام التأكد من مطابقة النظام لشروط هذا الاعتماد ومتطلبات كودات التصميم والاشتراطات الانشائية المعتمدة في الامارة ومواصفات المشروع من حيث التصميم والمواد والتنفيذ.

#### شروط عامّة

- 1. هذه الشهادة لا تجيز تنفيذ أية أعمال إلا بعد الحصول على ترخيص بناء لكل مشروع يستخدم هذا النظام عن طريق مكتب استشاري مرخص في دي
  - 2. استخدام مواد معتمدة من مختبر دي المركزي.
  - 3. تطبيق المواصفات الموضحة بالكتالوج والمقدمة لبلدية دي.
  - 4. في حال القيام بأي تعديل على النظام يجب الحصول على موافقة بذلك والا يعتبر النظام لاغي بحكم القانون.
    - 5. يعتبر النظام لاغي في حالة ظهور مشاكل فنية تخالف المعايير والمواصفات المعتمدة
      - 6. هذا الاعتماد ساري المفعول لمدة سنة واحدة من تاريخ صدوره، خاضع للتجديد.

هاتف طوارئ البلدية :(2232323) (8004999). رؤية إدارة المباني : مبانينا حلم العالم







#### شهادة تسجيل لضريبة القيمة المضافة في الامارات العربية المتحدة Certificate of Registration for Value Added Tax in the United Arab Emirates

The Federal Tax Authority certifies that the entity below is a registered person for Value Added Tax in the UAE

تشـهد الهيئة الاتحادية للضرائب أن الجهة التالية مسجلة لضريبة القيمة المضافة في الامارات العربية المتحدة

الاسم القانوني الكامل باللغة العربية <u>تبيكو للوحدات المسيقه الشد و أعمال الديكور</u> Full Arabic legal name

<u>ش.ذ.م.م</u>

Full English legal name <u>TIBICO PRESTRESSING & DECORATION WORK</u> الاسم القانوني الكامل باللغة الانجليزية

<u>LLC</u>

Registered address <u>AFRA BUILDING OFFICE 401, RIQQA, DEIRA,</u> العنوان المسجل

Dubai, Dubai, United Arab Emirates, 14946,

+971507753313

فترة أول إقرار لضريبة القيمة المضافة <u>O1 Jan 2018 - 30 Apr 2018 and quarterly</u>

<u>thereafter</u>

تاريخ استحقاق إقرار ضريبة القيمة المضافة <u>28 May 2018</u> تاريخ استحقاق إقرار ضريبة القيمة المضافة

Relia of Tax periods: 1 Feb to 30 Apr, 1 May to 31 July, 1 Aug to 31 الضريبية ونهاية الفترات الضريبية على Start and end dates of Tax periods: 1 Feb to 30 Apr, 1 May to 31 July, 1 Aug to 31

Oct, 1 Nov to 31 Jan

يرجى التأكد من صحة تفاصيل الشهادة. يجب إبلاغ الهيئة الاتحادية للضرائب في حال تغيير الاسس التي حصلت فيها على رقم التسجيل الضريبي الخاص بك.

Please check that the details on this certificate are correct. You must inform the Federal Tax Authority of any change on the basis of which you obtained your Tax Registration Number.

Issuing Date:

تاريخ الإصدار <u>19/03/2018</u>



#### **POLICY SCHEDULE**

TYPE: PROFESSIONAL INDEMNITY INSURANCE (ANNUAL)

POLICY NO.: 20/1407/22/95

**INSURED:** Tibico Prestressing and Decoration Works

**PERIOD:** 18-03-2022 To: 17-03-2023

Both Days inclusive Local Standard Time at the insured

location.

**LIMIT OF LIABILITY:** AED 10,000,000/- any one claim and in the Aggregate including

costs & expenses.

**EXCESS:** AED 50,000/- Each & Every Claim including of cost and expenses

**WORDINGS:** Processional Indemnity wording Munich Re A&E

**RETRO ACTIVE DATE:** 18/03/2019 - Subject to uninterrupted cover from the retro date

for the same limit and subject to no known or reported loss or

circumstances as from 18/03/2022 to 23/03/2022.

**SCOPE OF COVER:** Structural Engineering -Design and Supervision

TRIGGER: Claims Made

**CONDITIONS:** 

• 30 days notice of cancellation.

- Claims Control Clause.
- Cost inclusive Clause.
- Retroactive Date Clause.
- Change in Risk Clause
- No ERP/Maintenance Period cover
- Cover is for work emanating out of UAE office only

Extensions– sub-limited to 10% of limit of indemnity any one claim and in the aggregate including costs and expenses, the below extensions are part of the overall aggregate limit of the policy

- Loss of Documents
- Libel or Slander
- Dishonesty of Employees

#### **EXCLUSIONS/WARRANTY:**

- USA / Canada Exclusion Clause
- Asbestos and Toxic Mould Exclusion
- NMA2919 War and Terrorism Exclusion Clause
- Directors and Officer Liability Exclusion
- Cyber Risks Excluded
- Pure Financial losses / Consequential Losses Excluded

#### UNITED FIDELITY INSURANCE COMPANY

In Conformity with the Federal Law No. 6/2007 Reg. No (8) dated 22/12/1984. Authorized paid-up Capital Dh. 100,000,000



CONSULTANTS : AL KHAWAJAH ENGINEERING CONSULTANTS

CONTRACTOR: BECON CONSTRUCTION.





CONSULTANTS : AL KHAWAJAH ENGINEERING CONSULTANCY

CONTRACTOR: AL OROBA CONTRACTING CO.







CONSULTANTS :ENG. ADNAN SAFFIRINI CONTRACTOR: BECON CONSTRUCTION.







CONSULTANTS: NATIONAL ENGINEERING BUEARU CONTRACTOR: AL HAMMAD CONTRACTING.

PRESTRESSED CONCRETE

04

**SCHOOL** 

G+3 @ ALBARSHA SOUTH

**POST TENSION VALUE: 709,853 DHS** 

**PLOT NO: 6734107** 



CONSULTANTS : ARTICA ARCHITECTS

CONTRACTOR: TORONTEC ENGINEERING CONSULTANTS.



05

RESIDENTIAL BUILDING

2B+5G+15+R @ IMPZ (MEAISEM FIRST)

**POST TENSION VALUE: 477,147 DHS** 

PLOT NO: MO15



CONSULTANTS: NATIONAL ENGINEERING BUREAU CONTRACTOR: NEW SYSTEM ENGINEERING.



06

RESIDENTIAL AND COMMERCIAL BUILDING UG+G+3TYP+R@ ALBADA. DUBAI POST TENSION VALUE: 73,440 DHS

PLOT NO : 3330206



CONSULTANTS: 4U CONSULTANTS.

CONTRACTOR: AL BADR CONTRACTING





07

**COMMERCIAL BUILDING G+S** 

GOUND+MEZZANINE@ WARSAN FOURTH. DUBAI

POST TENSION VALUE: 370,000 DHS

**PLOT NO: 6150381** 



CONSULTANTS: ENG.ADANAN SAFFARINI CONTRACTOR: NEW SYSTEM ENGINNERING.





PLOT NO : 103-9-20



CONSULTANTS: 4U ENGINEERING CONSULTANTS

CONTRACTOR: F3 CONTRACTOR.









CONSULTANTS: AL KHAWAJAH ENGINEERING CONSUTLANTS.

CONTRACTOR: BECON CONSTRUCTION.



PLOT NO: JVC14WMRPOO2



CONSULTANTS : ATRIUM ARCHITECTS.

CONTRACTOR: NEW SYSTEM ENGINEERING.



11

RESIDENTIAL BUILDING
B+G+7 @ INTERNATIONAL CITY, WARSAN FOURTH
POST TENSION VALUE: 265,720 DHS

PLOT NO : 103-F-42



CONSULTANTS: AL KHAWAJAH ENGINEERING CONSULTANTS

CONTRACTOR: AL QABDAH CONTRACTING

