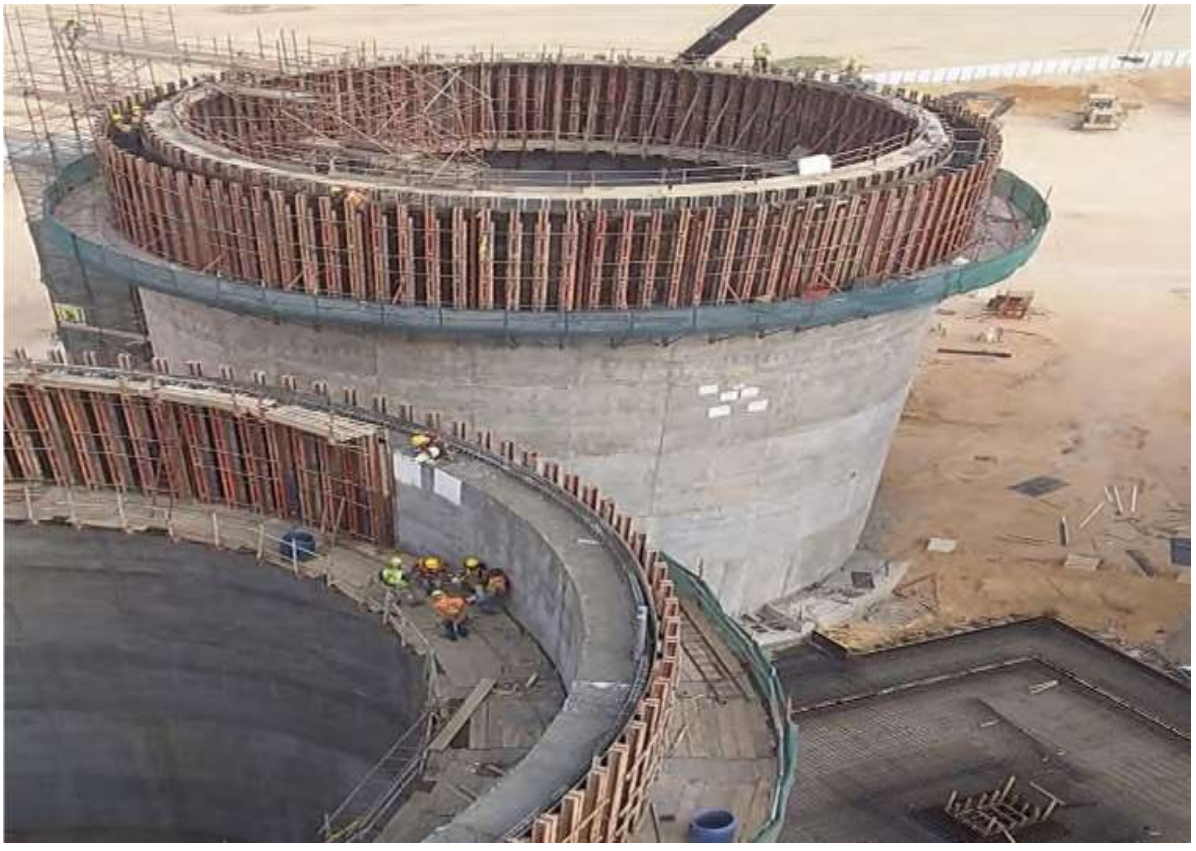
Our Projects:

1- Construction Projects

1-1 Briman Strategic Reservoirs - Jeddah City

1-2 Manfouha sewage Treatment Plant/ SBR Tanks – Riyadh City

1-3 Heet Sewage Treatment Plant - Riyadh City



1-4 P4F (Shaft Construction) - Jeddah City

2- Bridge Lifting and Repairing projects

2-1 Supporting King Fahad with Tahlia bridge in Jeddah during carrying out excavation beneath the bridge for new tunnel

2-2 Supporting Sari bridge with Madinah road during carrying out excavation beneath the bridge for new tunnel

2-3 Lifting and replacing 128 bearing pads of kafer Aldoar bridge, this bridge consists of five spans with 25 m length of each span

.

2-4 Lifting free interchange Cairo Alexandria road with total weight around 1200 tons

2-5 Cutting and lowering bridge slab using wire saw technique at Cairo ring road.

2-6 Lifting and bearing pads replacement of Khalid Bin Al Waleed bridge with 1800 ton per axis

.

2-7 Lifting and replacing elastomeric bearing pads at abutment- Oman

Lifting and bearing pads replacement using steel frames

Supporting bridge for repairing of concrete.

2-8 Rehabilitation of Khalid Bin Al Waleed bridge.

2-9 Lifting Bridge for replacing pot bearing Pads-Oman

Installing new bearing pads

Final shape of new bearing pad after finishing.

Mechanical expansion joint installation

Removing damaged expansion joint.

Pouring bedding mortar.

Coring for anchoring system.

Placing expansion joint.

Injection then inserting anchoring system.

Tightening anchor bolts according to the required torque.

Pouring transition strip.

Cleaning and opening the traffic after material getting required strength.

Sealant joints

Marking and cutting existing asphalt.

Pouring nosing material (transition strip).

Pouring sealant joint material.

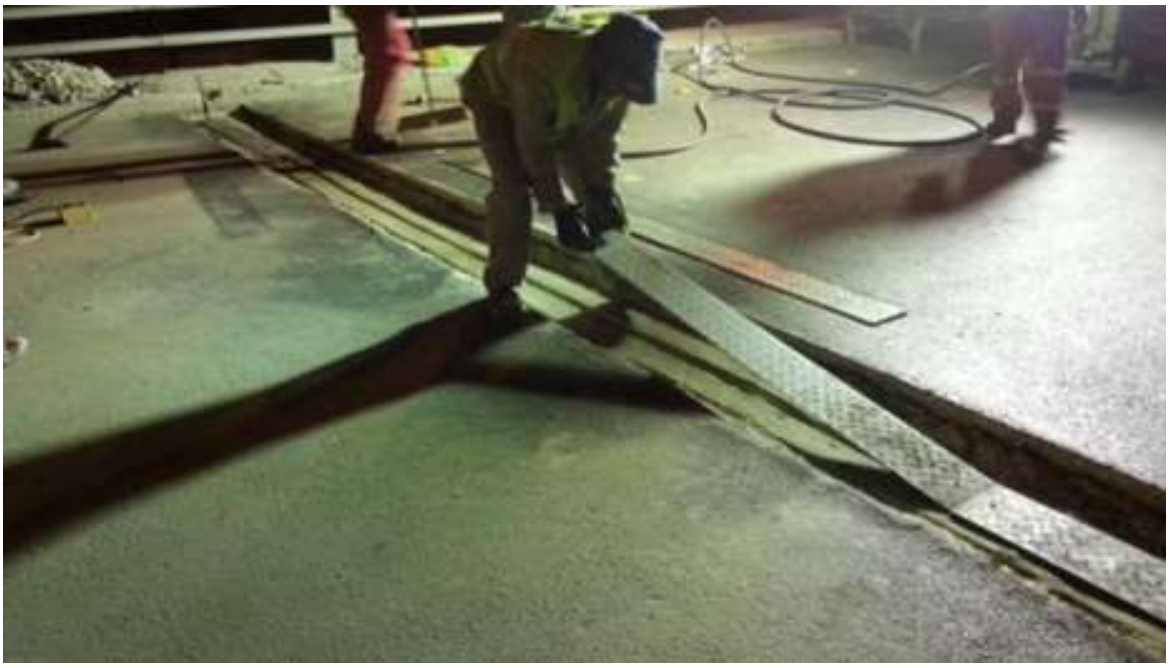
Cleaning and opening the traffic after material getting required strength.

Asphaltic plug joint installation

Marking and cutting existing asphalt.

Installing gap filler then spreading binder material.

Installing steel bridge on the gap.



Placing joint material (aggregate with binder).

Compaction for joint material.

Finishing joint.

Cleaning joint and open the traffic.

(CFRP) Carbon fiber

(reinforced polymer)

establishment (CFRP)

In this section, the construction element is prepared withhold larger loads than those originally designed formed in case it becomes weak due to certain factors, it shall be treated to tolerate its loads instead of enlarging its concrete section or placing iron sections for strengthening it.

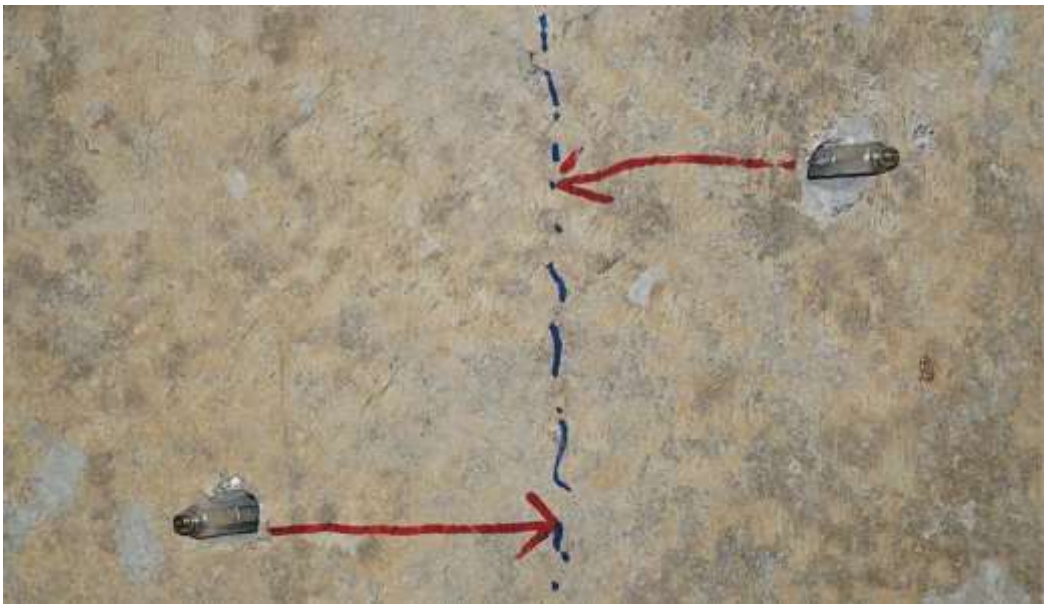
In this system, materials produced by International (MAPEI) Company were utilized for strengthen-inmost of the construction elements whether from the reinforced concrete, the pre-cast concrete or iron elements such as (columns, beams, tiles, bridges, arches domes, silos and chimneys etc).

Principles for (CFRP):

temporary Strengthening for concrete elements with steel jacks before start work.

- Surface preparation of concrete elements that give
- good and sound surface without any voids.
- fixation Carbon fiber strips using epoxy material.

Cracks Injection



Soil Injection Projects

الجهة المالكة Client	قيمة المشروع Value	المدينة City	اسم المشروع Project Name
يوسف السيد	543,000	الظهران	مجمع فلل سكنية
شركة الرحاب	425,000	الدمام	فندق بودل
شركة أبنية	1,234,750	شقراء	انشاء مصانع مختلفة
شركة بروفاست	2,743,562	الرياض	بوليفارد وورلد الرياض
مجموعة زيد الحسين	758,345	الرياض	أعمال حقن التربة اسفل طريق عائشة بنت ابي بكر
شركة يوابكو	1,573,000	الرياض	بوليفارد وورلد الرياض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YAMAHA CEMENT

concrete repairing

SURFACE PREPARATION:

- Marking defective concrete (Honeycombs).

- Cutting marked area using grinder.

- Removing loose concrete using hand tools HILTI concrete breaker

- All weak concrete shall be cut back to reach sound concrete or to a Minimum depth of repairing material application.

- Cleaning Reinforcement steel from (Concrete, Rust & Other loose material) Using steel wire brush or sandblast

TREATMENT APPLICATION:

- Appling steel Corrosion Protection such as Ripcoat ZR on the prepared steel surfaces to achieve a uniform and full coverage.

- Wetting the substrate.

- Wiping away excess water.

- Mixing repairing material (Cempatch S) which can be applied in a single Application for sections up to 50 mm thick in overhead applications and 75 mm thick in vertical applications. Thickness should not be less than 10 mm deep in all application

- Press firmly the repair mortar into the repair area using a trowel. Apply 2nd layer when 1st layer is dry if application depth

  exceeds products Maximum Layer thickness

Finishing surface by trowel.