BATCO





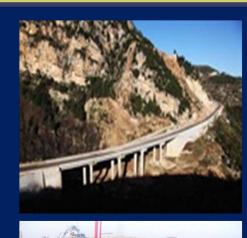




THE GROUP

BATCO HOLDING, is a privately owned investment Company and the majority shares holder of the Group and its subsidiaries.

BATCO Group is a family of Companies offering operations in: Engineering, diverse Civil infrastructure, Building Works, and Solid Waste Management. With more than 3,000 employees, the Group has offices that are strategically located in the MENA Region as well as Europe. The Group has completed a wide range of medium to large size Projects including EPC contracts valued at over \$2 billion USD. BATCO Group includes **BATCO, FEDERICI-STIRLING and LAVAJET.**









LINE OF BUSINESS

□ TRANSPORT

Roads, Highways, Bridges, Viaducts and Tunnels.

BUILDINGS

Residential, Educational, Industrial, Hotels, Resorts and Hospitals.

■ INFRASTRUCTURE

Construction of Dams, Water Supply, & Sewerage Networks. Wastewater & Potable Water Treatment Plants. Sewage & Water Pumping Stations.

■ ENVIRONMENT

Collection & street Sweeping. Construction & Operation of Landfills, Sorting & Composting Plants and other Waste Management Services.









COMPANY OVERVIEW

BATCO

is a general engineering and contracting Company that has grown from a civil and earthwork contractor in the 70's to a pioneering main contractor commissioning multi-disciplinary construction projects in a broad range of sectors. Services include

- Design
- Construction & maintenance of highways, bridges, underpasses, infrastructure, dams, tunnels and utilities
- Buildings
- Construction & Operation of sanitary Solid Waste landfills.









FEDERICI-STIRLING

is world known contractor specialized in the construction & design works of:

- airports
- ☐ infrastructure works including, dams & marine works
- □ roads, highways, bridges, underpasses, tunnels
- utilities related works









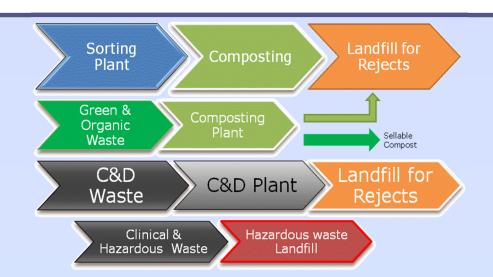






is a regional leader in Solid Waste Management Services in the MENA Region offering specialized services covering all aspects of the Integrated Solid Waste Management Programs including:

- solid waste collection and street sweeping
- Construction, O&M of municipal, hazardous and medical solid waste landfills
- Construction, O&M of sorting & compost plants















BATCO GROUP



Turn Over 2011 (Signed): 310 Million USD

Value of Orders Backlog: 240 Million USD



LOCATIONS











Project: Treatment, Protection & Stabilization Rock Slope for Dubai-Fujairah Freeway

Location: Dubai, UAE

Client: Ministry of Works – United Arab Emirates

Value: 40.4 Million USD

The contract is a design build and maintain contract to design and execute preventive and protective measures, repairs, remedial work and slope collapse avoidance measures to any slope along the Freeway that require slope stabilization works, with varying degrees of required attention to each slope

- ✓ Pre-design site survey & Investigation, Complete temporary site setup
- ✓ Survey and setting out work, Clearance of the site and of borrow pits
- ✓ Maintenance and protection of exiting road passing through the site.
- ✓ Traffic management and roads diversion
- ✓ Reinstatement of road pavement, ditches and road facilities
- ✓ Preventive and protective measures, repairs, remedial work, slope protection
- ✓ Drainage works
- ✓ Barriers at slope end, Concrete buttresses
- ✓ Protection fences and barriers
- ✓ Rock bolts, rock dowels and anchors
- ✓ Protective mesh, Shotcrete





Project: Design & Construction of Underpasses and Flyovers along Darsait –

Al Wadi Al Kabir Road

Location: Oman

Client: Muscat Municipality – Sultanate of Oman

Value: 104 Million USD

The proposed improvement includes design and construction of underpasses and flyovers to an effort by the Muscat municipality to alleviate the traffic congestion in Muscat

- ✓ Signalized at-grade intersections,
- ✓ Widening of existing I-girder bridges including new superstructure and substructure elements, wing walls,
- ✓ Retaining walls, reinforced walls, reinforced soil walls and/or modular walls.
- ✓ Construction Flyovers, & Underpass, Pavement construction. Highway signing and road marking. Paving and curbing works.
- ✓ Street lighting including power supply.
- ✓ Landscaping and automatic irrigation (Secondary Network).
- ✓ Storm water drainage.
- ✓ Traffic control devices and signage. Concrete safety barriers and guard rails

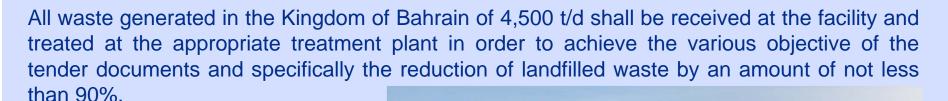
Project: Integrated Waste Management System

Energy from Waste Plant (1)

Location: Bahrain

Client: Government of Bahrain

Value: 700 Million USD (2)



- ✓ Sorting Plant
- ✓ Thermal Treatment Plant
- ✓ C&D Treatment Plant
- ✓ Green Waste Compost Plant
- ✓ Organic Waste Compost Plant
- √ Sanitary Landfill
- (1) selected as preferred bidder
- (2) Batco Group Value of work 200 Million USD







Project: Solid Waste Collection, Cleaning and Street

Sweeping, and On-call Services in Abu Dhabi

Location: UAE

Client: Center for Waste Management Abu Dhabi UAE

Value: 85 Million USD



The projects includes providing services for the collection of up to 1,500 tons per day of municipal solid waste the as generated within the Abu Dhabi City. The term of the new Service Agreement continue for seven years and may be extended up to three years, for a maximum term of 5 years

- Collection of MSW (1,400 t/d)
- Sweeping and cleaning of all roadways, streets and all public areas including public
- beaches, public parks, underpasses, public toilets, markets, bus stops, parking service
- areas, and properties of special importance, such as palaces and monuments;
- On-Call Services
- Public awareness and education programs and customer services
- Improvement and optimization of the existing waste collection management system.

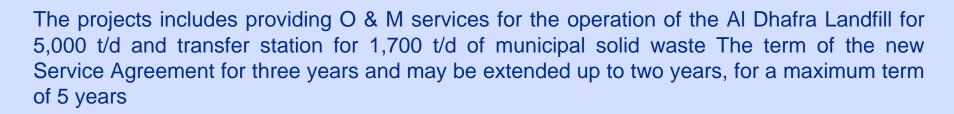


Project: Al Dhafra Landfill & Transfer Station

Location: UAE

Client: Center for Waste Management Abu Dhabi UAE

Value: 25 Million USD



- Design of the landfill extension and closure
- Upgrading of entrance and administrational facilities
- Earthworks and access roads construction
- Installation of a liner system (geo-membrane and geotextile)
- Daily operation including daily cover & compaction
- Cells construction & closure
- Client employee training
- Environmental monitoring





Project: Upgrading of Infrastructure in Tripoli City -

Phase I - Package 1A

Location: Tripoli, Lebanon

Client: Council for Development and Reconstruction

Consultant: Dar Al Handasah – Nazih Taleb & Partners

Value: 26 Million USD

The Project consists of upgrading the City's existing services through rehabilitation or total reconstruction. The total approximate length of utilities lines is 17,000 m (excluding potable water and electrical lines).

- Construction of new collectors & connection of existing & new collectors to main line Rehabilitation of the existing network at damaged or undersized locations.
- Construction of new collectors and related works aim for the separation of the stormwater network from the wastewater network.
- Construction of surface drainage systems, including inlets, gullies and interceptors.
- Rehabilitation of New Tripoli area including the installation of the potable water required items
- Installation of MV and LV cables and connection
- Reconstruction of the road structure: asphalt, base course, subgrade, milling and overlaying.
- Landscaping plantation, street furniture such as lighting poles, luminaries
- Testing



Project: Grade Separation at Sami Solh Avenue

and Damascus Road Intersection

Location: Beirut, Lebanon

Client: Council for Development and Reconstruction

Consultant: Rafik El-Khoury and Partners

Value: 15 Million USD

The project consists of the construction of an underpass with two cells of an overall length of 700 m: 150 m long underpass section and 550 m long ramps at three ends of the underpass. The works also include the construction of service roads adjacent to the underpass and upgrading the existing roadway network.

- Construction of reinforced concrete tunnel including excavation, diaphragm walls, foundations, and reinforced concrete walls.
- Pavement works, Storm water drainage network, Pumping & Generator room.
- Street lighting. Traffic signals. Traffic signs, road marking, barriers and sidewalks.
 Landscaping works. Utilities and utility relocation.



Project: Rehabilitation of Aamchit - Meyfouq Road

Location: Jbeil, Lebanon

Client: Council for Development and Reconstruction

Consultant: Dar Al Handasah – Nazih Taleb & Partners

Value: 25 Million USD

The project consists of the rehabilitation and improvement of Aamchit - Meyfouq road with an approximate length of 24 km.

- Earthworks for road construction, road widening, drainage channels, culverts, bridges and walls.
- Pavement works involving both new pavement & rehabilitation of existing pavement.
- Construction of retaining walls, pipe culverts, bridges, concrete ditches and earth channels, sidewalks. Storm water drainage network.
- Protection works: slope protection, drainage ditch, grouted riprap.
- Relocation of existing utilities. Potable water networks, wastewater networks and accessories.
- Electrical and street public lighting. Signing and marking. Road safety accessories.







Project: Outsourcing Of Solid Waste Collection &

Transportation, Street Sweeping And Cleansing

Services To Al Ain North Zone

Location: Al Ain, UAE

Client: Al Ain Municipality

Consultant: Entec

Contract Value: 140 Million USD

The project consists of providing waste collection, street sweeping and cleaning for the northern region of the City of Al Ain for a population of 350,000 and daily tonnage of 900 tons.

Description of works:

 Daily waste collection (municipal, commercial, green, agricultural, and industrial wastes).

Street sweeping and litter picking.

Manual and mechanical street washing.

Graffiti removal.

Operation of a 24/24hr operation room with stand-by emergency services.

Operation of a Customer Call Center (for complaints).

Operation and maintenance of the service (PMV; QA; QC).

Environmental monitoring.







Project: Rehabilitation Works (Roads, Bridges) in Quriyat, 2

Location: Quriyat, Sultanate of Oman

Client: Muscat Municipality

Consultant: Idroesse Infrastructure spa

Contract Value: 49.6 Million USD

After the disaster caused by the Cyclone Gonu, the Omani Government has taken several mitigating measures including the Rehabilitation Works in Quriyat,

Description of works:

Excavation of valley bed and embankment for dikes and roads.

Soil improvement by jet grouting technology

Construction of a 180 m long bridge and two viaducts with 210 m and 91 m

Construction of reinforced concrete retaining walls.

Road works including water drainage, asphalting, road lighting, safety barriers,

sidewalks, road signing and marking, etc.







Design & Construction of Wadi Bridges & Project:

Culvert in Al Qurm

Location: **Muscat, Sultanate of Oman**

Client: **Muscat Municipality**

Consultant: Parsons International & Company LLC Contract Value: 52.3 Million USD

This project consists of the design and construction of adequate all-weather crossdrainage provisions, upgrading of the service roads as an all-weather road, the lower-

lying commercial and residential areas are to protected by the

flood protection dike.

Description of works:

4 bridges (200m each) with precast post-tensioned beams & 10,000m cast-in-situ concrete piles Ø 600 mm;

- Reinforced concrete box culvert
- A 1,000 m long flood protection rock fill dike
- Reinforced concrete / reinforced soil walls.
- Excavation and embankment for roads and dikes.
- Road works, water drainage, asphalting, lighting, safety barriers, guardrails, curbing works, road signing & marking
- Traffic and utilities diversion & protection on highways.





Project: Construction of Brissa Dam & Lake

Location: Danniyeh, Lebanon

Client: Council for Development and Reconstruction

Consultant: Dar Al Handasah – Nazih Taleb & Partners

Contract Value: 18.8 Million USD

The project is located in the upper part of the Menieh-Danniyeh Caza. The construction will allow better distribution of irrigation needs with the possibility of increasing irrigation to agricultural lands. The water will be collected from the overflow quantities spring and from the hydrological catchment basin with the capacity of 130,0000 m³.

- Geological investigation
- Lake excavation & clay core
- Transition fill and rock fill paving protection.
- Filter, draining & rock fill paving protection
- Design and construction of cofferdam & diversion str
- Construction of intake & washout structure.
- Construction of overflow structure. & service roads.





Project: Construction and Operation of Tripoli Landfill

Location: Tripoli, Lebanon

Client: Council for Development and Reconstruction

Consultant: Dar Al Handasah - Nazih Taleb & Partners

Contract Value: 25.3 Million USD

This project is the continuation of the Phase I of extending life of the Landfill.

- Design of the landfill extension and closure.
- Earthworks, access roads, liner system,
- Construction of a reinforced earth fill wall to increase capacity,
- Construction of a peripheral leachate collection system with wells
- Extension of the wave breaker.
- Operation of landfill
- Leachate collection and treatment.
- Landfill flue gas extraction and flaring.













Project: Dualization of Road: Zurub to Al-Buraimi Hospital Roundabout

Location: Al Buraimi, Sultanate of Oman

Client: Ministry of Transport and Communications

Consultant: National Engineering Services Pakistan & Partners LLC

Contract Value: 53.5 Million USD

The project includes the dualization of existing single carriageway including the construction of a 17 km dual carriageway & service roads (total length of 27 km)

- Construction of a 90 m long post-tensioned three-cell box girder flyover bridge.
- Construction of two 53 m long post-tensioned four-cell box girder interchange bridges.
- Construction of four pedestrian underpasses 4 m x 4 m x 45 m.
- Road works including road stretching to approximately 1,000 m
- Construction of a road leading to UAE check post.
- Water drainage, asphalt works, signing and marking.









Project: Design & Construction of Dualization of Al Kharijiyah Street

Location: Muscat, Sultanate of Oman

Client: Muscat Municipality

Consultant: Parsons International & Company LLC

Contract Value: 17.8 Million USD

This project, along with the ongoing effort made by Muscat Municipality, aims at alleviating

the traffic congestion in the busy areas of Muscat City...

Description of works:

Construction of new signal junction & 2 bridges (55m & 45 m)

Road works including water drainage, lighting

Widening, camber correction, and overlaying of carriageway.

Signalization of the existing roundabout.

Construction of concrete lined drains.

Public utility service & traffic diversion and protection.







Project: The Construction of the Qattara Arts Centre

Location: Al Ain, United Arab Emirates

Client: Abu Dhabi Authority for Culture and Heritage

Consultant: Rafik El-Khoury and Partners

Contract Value: 15.1 Million USD

The project is a place for the local community hand built, supporting activities where people continue to make things by hand. The project entails construction of three new structures within the confines of the existing fort plus an adjacent underground energy center.

- Restoration of the existing fort structures
- Construction of a new exhibition building, public facilities,
 & new teaching/arts studio buildings
- Construction of new performance hall & accommodation
- Construction of underground plant room/energy center.
- Hard and soft landscaping:









Project: Construction of Wadi Adai Interchange

Location: Muscat, Sultanate of Oman

Client: Muscat Municipality

Consultant: Parsons International & Company LLC

Contract Value: 48.6 Million USD

Project consists of the incorporation of a third level "trumpet" arrangement to accommodate the left-turn movements. The project is located at an urban zone with very heavy traffic.

- Construction of steel gantry structure to support bridge deck formwork without interruption of traffic.
- Construction of Bridge No 2: (343m & 226m long) post-tensioned concrete two-cell box girder bridge with pile foundations.
- Road works including water drainage, asphalting, paving and curbing, road signing and marking.
- Signalized at-grade intersection.
- Public utility service diversion and protection.





Project: Protection and Stabilization of Rock Cut & Fill Areas of Jabel

Hafeet Road in Al Ain

Location: Al Ain, United Arab Emirates

Client: Al Ain Municipality

Consultant: Ital-consult

Contract Value: 18.9 Million USD

Rock scaling on areas of rock cut slopes along the road including removing loose rock from the slopes until a solid rock area is established. Cut back existing unstable rock cut slopes at top of the high areas to an agreed flatter slopes to establish solid and safe cut face. Various kind of repair and rehabilitation work for failures on the existing asphaltic pavement. Repair, reinstatement/replacement of existing footpath including new as necessary. Repair, reinstatement of existing concrete crash barrier and guard rail. Upgrading and improvement the existing storm water drainage. Repair and reinstatement of damaged road slopes including the existing protection works. Repair and reinstatement of pavement and side slopes resulting from provision of the existing and proposed services of other departments. Necessary traffic study with conclusion and recommendation for high quality service and safety on the road.



Project: Construction of Boqaata Dam and Lake

Location: Boqaata, Lebanon

Client: Ministry of Power and Water

Consultant: Gicome – Antoine Salamé & Associates and Stucky – Consultant

Engineers (Switzerland)

Structural works: stairs, parapets, concrete barriers, small retaining walls and fences.

The growing needs in drinking water in Metn region currently constitute a permanent worry to the Metn Office of Water. Indeed, deficit in water in the region reached more than 50% of water needs estimated 54000 m3/day, and breaking the economic development of the region.

This region is not rich in groundwater, but several karstic sources take birth in the high mountains with highest water level in wet period and lowest water level in dry period.

These abundant waters in winter are not currently exploited. The search of new water resources for Metn region during the period of low water level consists in accumulating surplus waters behind dam.







Project: Qurum to Sarooj Road Improvements

Location: Muscat, Sultanate of Oman

Client: Muscat Municipality

Consultant: WS Atkins International & Co.

This project consists particularly of the construction of two bridges over these lagoons. Due to the importance of the beach and mangroves area, construction activity tried to avoid pollution. As for the mangroves survival, the tidal flow is maintained by culverting the access across the tidal water.

Description of works:

 Construction of two bridges with respectively 30m and 150m of length with precast posttensioned concrete beams and cast-in-situ concrete piles with 600 mm of diameter and 6000 m of total length in lagoon.

 Road works including asphalting, road lighting, concrete and steel safety barriers, paving and curbing, road signing and marking.

Rock protection against coastal erosion & effects of sea level rise using multiple rock

sizes.







Project: Roads in Different Areas in Emirates (Tawaian to Dibba)

Location: Fujairah, United Arab Emirates

Client: Ministry of Public Works

Consultant: Halcrow

Contract Value:

The total length of the Tawaian to Dibba Highway is about 30 km. Thirty slopes along the

highway are identified as requiring slope stabilization works.

Description of works:

Excavation and clearance of debris.

Installation of rock bolts, rock dowels, wire mesh & shot Crete

- Construction of concrete buttresses. & barriers at slope toe.
- Installation of raking drains.
- Temporary traffic management and temporary road diversions.
- Reinstatement of road pavement, ditches & road facilities.







Project: Bahrain City Centre Interchange –

Grade Separated Junction

Location: Manama, Kingdom of Bahrain Client: Ministry of Works & Housing

Consultant: Parsons – Global Services Limited

Description of works:

Traffic diversion on main highways.

 Construction of a cast-in-situ double-cell box girder bridge structure with a total length of 195 m and 800 mm diameter piles.

Construction of new roads including asphalting, street lighting, road signing and marking,

water drainage, and landscaping.







Project: Construction of the Outer Bypass from

Umm-Al-Quwain-Dhaid Road to Sajaa-Khawaneej Rd

Location: Sharjah, United Arab Emirates

Client: Ministry of Public Works

Consultant: Dorsh Consult

- Construction of 16 km of new dual carriage way.
- Construction of 8 km of new accommodation roads.
- Construction of 3 bridge structures.
- Construction of 6 underpass structures.
- Construction of retaining walls.
- Water drainage, street lighting and landscaping.
- Diversion of existing public services and utilities.









Project: Rehabilitation of Silos at Beirut Port

Location: Beirut, Lebanon

Client: Council for Development and Reconstruction

Consultant: Khatib & Alami

The works involve the rehabilitation of forty eight 50 m high silos with 8.5 m diameter and include the repair of various types of cracks, deteriorated concrete, and concrete protection from environmental factors.

Description of works:

Sandblasting and water jetting.

Grinding cracks out to remove faulty materials.

- Grinding concrete surface.
- Painting the structure.
- Installation of galvanized anchor bolts with epoxy grout.
- Installation of fiber reinforced dry mix trowel finish shot Crete.
- Grinding deteriorated concrete and steel bars.
- Installation of steel bars and polymer modified concrete.









Project: Rehabilitation of Roads & Services in the Southern Suburb Tunnel

Haret Hreik – Sands Location: Beirut, Lebanon

Client: Council for Development and Reconstruction

Consultant: Dar Al Handasah – Shair & Partners

Haret Hreik – Sands Tunnel constitutes a major part of an overall drainage system project designed to collect stormwater from Haret Hreik together with its surrounding sectors and discharge in the Mediterranean Sea at Ouzai Sands Beach, below the Ouzai main street. It is considered as one of the most important hydraulic infrastructure projects in Beirut, and it is the longest in Lebanon.







Project: Upgrading of Hayek and Saloumeh Intersections

Location: Beirut, Lebanon

Client: Council for Development and Reconstruction

Consultant: Dar Al Handasah – Nazih Taleb & Partners

The works include the upgrading of the intersections at Hayek and Saloumeh Roundabouts through the construction of a permanent cast-in-situ post-tensioned concrete box girder bridge carrying Jisr El-Wati as well as Qalaa eastbound and northbound traffic over the Hayek Roundabout towards Sin El-Fil Boulevard and intersecting the Saloumeh – Dekwane Road. The overall length of the bridge (including embankment and opening) is approximately 560 m, with a 310 m long and 16 deck spans prestressed concrete. The project is executed at road intersections with very heavy traffic.







Project: Urban Transport Development Project Corridor Improvement Program –

Upgrading of Hayek and Saloumeh Intersections

Location: Beirut, Lebanon

Client: Council for Development and Reconstruction

Consultant: Dar Al Handasah - Nazih Taleb & Partners

Description of works:

Archaeological investigation.

- Construction of post-tensioned concrete box girder bridge abutments, piers and retaining walls.
- Roads, asphalting, concrete barriers, curbing and tiling,
- Street lighting, traffic signals
- Road signing and marking, landscaping.
- Utilities and utility relocation.









Project: Cultural Heritage and Urban Development Project

Old City - Phase I

Location: Tripoli, Lebanon

Client: Council for Development and Reconstruction

Consultant: Team/Bitar JV

Description of works:

Restoration works have been performed on more than 200 building façades (2,0000 m²) within the historic center.

 Interventions involve restoration and enhancements of façades to promote the architectural features of buildings. They also comprise reinforced concrete rehabilitation works, treatment of roofs with waterproofing membrane etc.







Project: Construction of Zahle Sanitary Landfill

Location: Zahle, Lebanon

Client: Council for Development and Reconstruction

Consultant: Libanconsult – Ingénieurs Conseils



- Design of the landfill and the sorting unit including concrete works, steel structure works, and sorting mechanical equipment.
- Construction of the landfill including cells, earthworks, access roads and drainage system, clay blanket, geomembrane and geotextile liner system.
- Installation of a leachate collection network system and a leachate pond.
- Construction of a sorting plant and installation of a weighbridge.
- Construction of administration offices and all infrastructure works.







Project: Al Yas Island Development – Underpass YUP-2

Location: Abu Dhabi, United Arab Emirates

Client: Aldar Consultant: Halcrow

The project consists of the construction of an underpass with a total length of 537m including retaining walls at the underpass both sides.

- Construction of a 143m long box-section with a width of 13.9m.
- Construction of two 394m long U-sections with a width of 13.9m.
- Waterproofing membrane, painting works, and wall tiling. Precast concrete side barriers.





Project: Water Conveyance from Antelias Grotto to

Dbayeh Water Station

Location: Antelias, Lebanon

Client: Council for Development and Reconstruction

Consultant: Kredo – Research & Engineering

Antelias Water Tunnel was a major overall of the water supply system in Greater Beirut

Description of works:

- Construction of a 1 km long tunnel structure with a horse shoe shape cross section of 8 m². The final finish of the tunnel is made of 30 cm concrete lining.
- Construction 50m long main vertical shaft of 2m Ø in order to access the inner grotto.
- Structural rock excavation.

Installation of rock bolts & application of shot Crete







Construction and Operation of Tripoli Landfill (Phase I) Project:

Location: Tripoli, Lebanon

Council for Development and Reconstruction Client:

Consultant: Dar Al Handasah - Nazih Taleb & Partners

The Landfill is located in the city of Tripoli in North Lebanon and is designed to receive municipal solid waste from Tripoli Region.

Description of works:

Construction activities

- Earthworks, construction of access roads and service buildings.
- Installation of a liner system (geo-membrane and geotextile).
- Installing, upgrading & extending the landfill flue gas extraction systems with I wells.
- Procurement & installation of biogas system with gas flaring unit.

Operation activities

- Planning and programming the operation activities.
- Control of the incoming waste collection trucks at weighbridge.
- Visual inspection of the waste.
- Daily spreading, compaction and cover of incoming wastes.
- Operation of the landfill gas extraction and treatment system.











Project: Extension of the National Road in Abidjan District

Location: Abidjan, Ivory Coast

Client: Abidjan District Administration Consultant: Abidjan District Administration

The project consists of the extension of the National Road in Abidjan including road, underpass, and bridge construction.

Description of works:

- Road works including excavation, asphalt,, curbing and tiling, road signing and marking.
- Construction of a reinforced concrete underpass, with a U-section reinforced concrete retaining walls at the tunnel both ends.
- Construction of three prestressed concrete bridges (320 m, 470 m and 620 m of length, along with 1,000 mm diameter piles with a depth of 18 m.)
- Infrastructure works including potable water, drainage water, irrigation system, telephone

networks, electrical works, and landscaping.





Project: Régions des Atchans Location: Abidjan, Ivory Coast

Client: Abidjan District Administration Consultant: Abidjan District Administration

The project consists of the construction of a 23.5 km highway between Songon Agban and Orbaff along with adjacent service roads, three tunnels, and one underpass.

- Excavation, backfill, sub-base & base course, asphalt, curbs & sidewalks, and marking.
- Construction of three tunnels of 800 m, 735 m and 550 m of length, a width of 15 m, and a maximum height of 9 m each,
- Retaining walls at the tunnels both sides, including excavation in a rocky ground with treatment of cracks by high pressure injection, drainage system, ventilation system, lighting system, reinforced concrete and finishing works.
- Construction of 650 m long underpass having a 220 m long covered part with 17 m width and height of 9 m, along with retaining 215 m long walls at tunnel ends.
- Construction of interchanges including two prestressed concrete bridges with respectively 640 m and 580 m of length, span from 35 m to 40 m and 1,200 mm diameter piles with 18 to 22 m of depth.
- Infrastructure works including potable water supply and water drainage.



Project: Maritime Institute of Batroun – Rehab & Construction

of Annex Building

Location: Batroun, Lebanon

Client: Council for Development and Reconstruction

Consultant: Ghassan Chaccour Office

The project comprises the Maritime Institute of Batroun rehabilitation works covering a total built-up area of 12,000 m², as well as the construction of a new building with a total built-up area of 1,800 m².

- Marine works including the construction of a retaining wall and a breakwater sea wall.
- Consolidation and reparation of the existing reinforced concrete structure.
- Plastering, tiling, and other finishing works.
- Repair of plumbing, electrical installations, floor tiles, joinery, & waterproofing.
- Construction of a new building & associated internal & external works.





Project: Rehabilitation of the Vocational School of Douma

Location: Douma, Lebanon

Client: Council for Development and Reconstruction

Consultant: Ghassan Chaccour Office

The project includes school rehabilitation works covering a total built-up area of 7,000 m².

Description of works:

Concrete repair of the existing structure.

Sandblasting of the existing stone façades.

Removal and replacement of the internal and external cement plasters.

External and internal painting.

Repair of plumbing, electrical installations, floor tiles, joinery, and waterproofing

membrane.

External works.





Project: Rehabilitation of the School of Bsharri

Location: Bsharri, Lebanon

Client: Council for Development and Reconstruction

Consultant: Raymond Chidiac Office

The project comprises the school rehabilitation works covering a total built-up area of 5,000m², as well as the construction of a new building with a total built-up area of 800 m²

- Removal and replacement of internal and external cement plasters.
- External and internal painting.
- Repair of plumbing, electrical installations, floor tiles, and joinery.
- Construction of a new building including all associated works.
- External works.



Project: Residential Buildings, Industrial & Commercial Centers

Location: Lebanon

Client: Private Sector

These projects consist of the construction of residential, industrial, and commercial buildings.

- Residential building in Adma with a total built-up area of 3,000 m²...
- Residential buildings in Kornet Chehwan with a total built-up area of 14,500 m²...
- Residential building in Sahel Alma with 5 blocks and a total built-up area of 12,500 m²...
- Residential building in Hazmieh with 7 stories and a total built-up area of 1,500 m2.
- Residential building in Awkar: 2 basements and 6 stories and a total built-up area of 2,100 m².







New Projects

Project: Construction of Boqaata Dam and Lake

Location: Boqaata, Lebanon

Client: Ministry of Power and Water

Consultant: Gicome – Antoine Salamé & Associaes and Stucky – Consultant

Engineers (Switzerland)

Among the prospected sites in the region, Boqaata Dam, by its location and its characteristics, has a special interest in the accumulation of water.

This project is, indeed, to accumulate a volume of 6 million m3 of water during winter period, which should be routed during the period of low water level to Bhanness tanks after treatment, and then distributed to Metn region located below 1000 m level.

During the wet period, derived from the Jouaizat source waters should be derived to Bhaness tanks and distributed at different locations of Metn region.

Boqaata Dam is a project which complements the master plan for the distribution of water derived from Nabeh Jouaizat to Metn region.



Project: Yammouneh Irrigation Scheme

Location: Baalbek, Lebanon

Client: Council for Development and Reconstruction

Consultant: Dar Al Handasah – Nazih Taleb & Partners

The project includes the rehabilitation, upgrading, and construction of an irrigation scheme for the area of Yammouneh and the surrounding villages.

- Construction of a 1,200 m long reinforced concrete chute and a cross section of 6 m², and four reinforced concrete distributors.
- Construction of a gravel trap at Yammouneh springs with gabion protection.
- Rehabilitation of the 40 km existing main canal.
- Construction of a reinforced concrete secondary canal system, a 150 km cast-in-place and 80 km precast units.
- Construction of a water park near Chlifa Distributor.



Project: Additional Works on Danniyeh Irrigation Scheme

Location: Danniyeh, Lebanon

Client: Council for Development and Reconstruction

Consultant: Dar Al Handasah – Nazih Taleb & Partners

The project comprises the rehabilitation and the reconstruction of 50 km of existing irrigation network canals in the Danniyeh region.

- Construction of two reinforced concrete distributors.
- Rehabilitation of the 20 km long existing main canals.
- Rehabilitation of the 30 km long existing secondary canals.
- Construction of 3 km long dry stone walls.



Project: Water Supply Works in North Area, Lot 2

Location: Lebanon

Client: Council for Development and Reconstruction

Consultant: Gibb-KA-KCIC

The project includes the upgrading of the northern regions water system.

- Construction of Bourj Abou Haidar Water Pumping Station including supplying and installation of pumps with associated electromechanical works.
- Construction of Dbayeh Water Pumping Station including pipe works and valves with associated electromechanical works.
- Construction of Achrafieh Pumping Station including pipe works and valves with associated electromechanical works.
- Drilling and equipping 2 wells in Zaatrieh and Zoghzoghi.
- Construction of transformer room, drilling and equipping 3 wells, and laying of 2 km pipeline connecting to the Damour Reservoir.
- Pipe work connections in Hamra.



Project: Mejdlayah Landfill Fires Control

Location: Zgharta, Lebanon

Client: Council for Development and Reconstruction Consultant: Council for Development and Reconstruction

The project consists of controlling and stopping the fire in the landfill of Mejdlayah.

- Mobilization of emergency resources (manpower and heavy mobile equipment).
- Execution of trenches to isolate the fire zone.
- Extinguishing on-going fires.
- Shaping and leveling landfill.
- Installation of final earth cover fills.





Project: Construction of Mrah Sreij - Bakhoun - Taran Road – Rehabilitation

of Taran - Hazmieh Bridge Road

Location: Danniyeh, Lebanon

Client: Council for Development and Reconstruction

Consultant: Conser Consulting Engineers

The works include the construction of the Mrah-Sreij-Bakhoun-Taran Road and the rehabilitation of the Taran-Hazmieh Bridge Road in the North Lebanon Region.

- Construction of the 100 m long Nahr Al Bared Bridge with 10 m of width, along with 5 spans of 20 m each, and 24.5 m pier maximum height.
- Construction of Mrah Sreij overpass with one span of 20.5 m and a voided slab bridge deck with 7.3 m of width.
- Construction of a 10 m long and 8.5 m high Haklit Underpass with 12.1 m of width, along with a 5 m thick soil cover.





Project: Kesrouane Coastal Area Water Supply Project –

Highway Section

Location: Kesrouane, Lebanon

Client: Council for Development and Reconstruction

Consultant: Dar Al Handasah – Nazih Taleb & Partners

The project includes all works required for the construction of 8 km long GRP pipes with 1,000 mm of diameter along Nahr Ibrahim – Tabarja Highway.

- Road diversion and safety measures.
- Trench excavation and backfilling with 5 m of width and 3 m of depth, and pipe laying with all the associated accessories.
- Road reinstatement.



Project: Reconstruction of Akkar Bridges

Location: Akkar, Lebanon

Client: Ministry of Transport & Council for Development & CDR

Consultant: Dar Al Handasah – Nazih Taleb & Partners

The project consists of the reconstruction of six bridges in North Lebanon. These bridges have been either seriously damaged or completely destroyed by the Israeli attacks during the July 2006 War; they are located in different regions of Akkar: Mazraet Baldeh, Adweh, Halba, Arka and Kuwaykhat.

- Demolition of damaged concrete bridge structures.
- Reconstruction of four cast-in-situ reinforced concrete bridges and two precast pre-stressed concrete girder bridges including all associated works.
- Reinstatement of damaged existing utilities and roads.





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Recertification audit due before 11th October 2012 Issue 1. Certified since 24th December 2009.

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Current Certificate: 22 November 2009

Certificate Expiry: 21 November 2012

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