

RESIDENTIAL & INDUSTRIAL COMPLEX (RIC) BUILDINGS



PROJECT NAME	RESIDENTIAL & INDUSTRIAL COMPLEX (RIC) BUILDINGS CONTRACT NO 63011/00
LOCATION	AL HAWTAH CENTRAL SAUDI ARABIA
CLIENT	SAUDI ARAMCO
CONSTRUCTION PERIOD	20 MONTHS

MAC Construction was awarded a Lump Sum Procure & Build contract for a full residential & industrial complex in a newly developed oil field located in Central Arabia, 250 KM south of Riyadh and 700 KM away from MAC's base on the east coast.

Because of the remoteness of the project, MAC had to ensure all logistics and set up a full camp with all life support facilities to handle a peak load of 650 men.

The project was executed on time and within budget using up-to-date project management techniques that involved planning & scheduling, project monitoring and control using the latest Primavera for Windows software.

The Residential & Industrial Complex Buildings site was 600m wide x 400m deep and divided into 5 areas. The areas were arranged for administration, residential, utilities, industrial and outdoors recreation along with space for future expansion.





- Design, supply and construction of 17 industrial pre-engineered metal frame buildings having a total area of 7,400 square meters and consisting of the following:
 - Fire protection shop building
 - Fire equipment shelter
 - Maintenance building
 - Field service/drilling shop building
 - Utility building/Laboratory building
 - Material supply building
 - Gas cylinder storage building
 - Hazardous material storage building
 - Material gatehouse
 - Vehicle maintenance building and shelter
 - Fuel station building and loading arm shelter
 - Airport terminal building & shelter
 - PDD/CP building
 - CP sun shelter
 - Bucket truck shelter
 - PDD shelter
- International procurement, installation and commissioning of:
 - 8 workshop gantry cranes
 - 5 jib cranes
 - Workshop lathes, drill press, mills, cutting machines & general equipment
 - Warehousing equipment and shelving
 - Vehicle maintenance, lubrication and general equipment
 - Fuel station and servicing equipment
 - Supply of all electrical and mechanical testing and work tools.



The work included:

- Construction of 18 residential buildings totalling 11,340 square meters and supported by the recreation, dining hall, mosque & clinic buildings totalling 4,400 square meters as well as an outdoor recreational area that includes a swimming pool, tennis courts, basketball courts and a soccer field.
- Construction of an administration building of 650 square meters.
- Construction of a microwave communications building of approximately 300 square meters.
- Switch gear building.
- Construction of the airport terminal building, with ground support facilities for a runway of 2,440 meters designed for Boeing 737 and Fokker aircrafts.
- International procurement & installation of:
 - Airport terminal weather station, navigation, luggage handling, detection and general equipment
 - Dryvit exterior coating finish
 - Gypsum board, painting system, vinyl flooring, ceramic quarry tile flooring, carpeting & decorative painting
 - Built-up roofing-single EPDM sheeting over insulation
 - Built-in furniture for all bathrooms and kitchens
 - Laboratory equipment
 - Kitchen equipment & appliances
 - Residential furniture
 - Recreational furniture
 - Medical clinic equipment and furniture

