

**KING ABDULLAH ECONOMIC CITY,
RABIGH, SAUDI ARABIA**

MTMM is providing technical advisory services to *EMAAR Saudia* for the power and water generation services for the new King Abdullah Economic City in Saudi Arabia.

King Abdullah Economic City is located on the Red Sea coast in the Western region of the Kingdom of Saudi Arabia and shall be home to approximately two million inhabitants. The new development will include the biggest port on the west coast, an industrial district, central business district, resort, educational zone and residential area.

MTMM has been appointed to undertake a Feasibility Study, Preparation of Tender Documents, Adjudication of Offers and Construction Supervision for the following packages for Phase-1, as part of the development of the City's power and water generation facilities which are due to be completed in 10 phases with the final stage being in 2026.

1. Power Plant (OCGT) of 400MW to be built by 2008 having option of Combined Cycle (CC) and raising ultimate power capacity to 5000MW by 2026.
2. Reverse Osmosis (RO) Plant of 80,000 m³/day to be built by 2008 and raising ultimate water capacity to 600,000 m³/day by 2026.
3. Transmission & Distribution Network with major components by year 2026, as follows:
 - 8 Nos. 380KV Substation
 - 100 Nos. 132 KV Substation and associated Transformers
 - 380/132 KV Power Transmission via Overhead, GIL and XLPE Cables
 - Load Dispatch Centers and
 - 380 KV Interconnection with SEC
4. Sewage Treatment Plant (STP) of capacity 14 MIGD to be built by 2008 and raising its capacity to 227.5 MIGD by 2026.

MTMM Contract Value For Phase-I : SAR 100,000,000 (Approx.)

Client: EMAAR Saudia

PARTIAL ONGOING PROJECTS OF MTMM IN SAUDI ARABIA

Project	Client/ End User	Completion	MTMM Contract Value (in SR)	Description
Power Network Grid Code for the Gulf Region	Norton Rose / GCCIA	2007	undisclosed	To deliver a new code for the Transmission Grid linking the power networks in the six Gulf States. Technical Advisor by the GCC Interconnection Authority to Assist Norton Rose in their role of advisor to the GCCIA regarding interconnection agreements, transmission code and trading frameworks on buying and selling power through the Interconnection Grid.
Shoaiba for Stage 1 - Phases I and II (5x375MW) / SEC – Western Region	ABB AG	2010	80,800,000	Engineering & Procurement Services for the Construction of Steam power plants : Stage 1 (5x375MW) and Stage 2 – plus 1 x 380kV Substations, transmission lines, desalination plants, sewage, de - mineralization plants , water intake, seaport etc.
Rabigh IWSPP	Rabigh Arabian Water & Electricity Company (RAWEC)	2008	98,250,000	Owner’s Engineer for the Design, Preparation of Tender Documents, Offers Adjudication, Construction Supervision and Commissioning of a 5 x 115 MW + 16 SWRO Trains + 9 Boilers Co-generation plant and an associated 110 KV switchyard for interconnection. The project involves providing design, civil, process and M&E engineering services, testing and commissioning and structural, electrical and mechanical inspection services to verify the various phases undertaken by the EPC Contractor.

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Yanbu - Independent Water and Power Plant Feasibility Study - Phase I	Power & Water Utility Company For Jubail & Yanbu (MARAFIQ)	2007	1,945,000	The project involves undertaking a feasibility study for the development of a new independent water and power project. The role involves undertaking a market study, performing an existing facilities review, providing cost planning, business justification and technical optimization services and producing a functional specification regarding the development.
Yanbu - Independent Water and Power Plant Development of RFP – Phase - II	Power & Water Utility Company For Jubail & Yanbu (MARAFIQ)	-	Under negotiation	The project involves undertaking technical optimization and functional specification regarding the development, Preparation of Tender Documents, Adjudication and Preparation of Power Purchase Agreements etc.
Tihama IWPP Saudi Aramco Cogeneration Project	BSF/Tihama Power Generation Company	2008	2,819,152	Monitoring of Project on behalf of the Financing Bank Saudi Al Fransi – BSF for a 2 X 560 MW Steam Turbine Power Plant
Sadaf 250 MW Thermal Power Plant	Credit Agricole Indosuez / Jubail Energy Co.	2007	2,486,037	Monitoring of Project on behalf of the Financing Bank (Credit Agricole Indosuez).

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Phase II – Implementation & Monitoring of Khorais Road 1200kW Trasmmitter Updrade	Ministry of Culture & Information (MoCI)	2007	5,254,440	Design review and construction supervision of Khorais road 1200Kw transmitter Upgrade which includes design review, workshop inspections, construction supervision, commissioning & tests for transmittal electronic equipment as well as emergency power generation and power distribution with main incoming panel suppliers.
Upgrade of TV System from Analogue to Digital Technology.	Ministry of Culture and Information	2007	4,000,000	Engineering design services
Construction Of 33/5.5 kV Electrical Substation For Riyadh Tv Complex – Phase 1&2	Ministry of Culture & Information (MoCI)	2007	328,000	Engineering Consultancy Services For Preparing Tender Document, Tender Evaluation and Construction Supervision Services For 33/5.5 KV Substation and Feeders For Riyadh TV Complex
Construction Of 33/13.8 kV Electrical Substation For Gurayat Radio Station – Phase 1	Ministry of Culture & Information (MoCI)	2007	280,000	Engineering Consultancy Services For Preparing Tender Document, Tender Evaluation and Construction Supervision Services For Interconnection of Main Power Supply (HV) to Operate the Broadcasting Plant At Gurayat
Telecom 3rd Mobile concession	MTN Consortium	2009	98,000000	Engineering services (Details Confidential)

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Construction Supervision of North Jeddah Sewage Treatment Plant (STP) Phase I	Ministry of Water & Electricity (MoWE)	2008	3,500,000	Design Review, Construction Supervision, Commissioning and Testing of 150,000 m ³ /day Sewage Treatment Plant, the process is activated sludge treatment using nitrification and denitrification process with biological phosphorus removal.
Construction Supervision of Waste Water Projects in the Middle of Jeddah	Ministry of Water & Electricity (MoWE)	2009	70,393,200	The Scope includes Design Review and the approval of Material.
Technical Support for the Directorate General of Makkah Al Mokarrama for the Water & Waste Water Projects	Ministry of Water & Electricity (MoWE)	2010	32,562,900	The scope of work includes providing 48 Engineers and Inspectors on full time basis to work in the Directorate General of Water.
Construction Supervision At Al-Ahsaa & Hakel Wisa Water Projects	Ministry of Water & Electricity (MoWE)	2008	4,990,000	Construction Supervision at Al-Ahsaa & Hakel Wisa Water Projects
Supervision Of Execution Of Water & Sewage Projects At Al-Taif/Alhowair & Rural Areas	Ministry of Water & Electricity (MoWE)	2009	12,120,000	The supervision works of the Contractor/Contractors execution for the assigned works as per the terms & specifications of the water & sewage project which are existing now at Al-Taif beside the site layout plan for Al-Taif District. The scope also includes supervision of the Construction & Civil works/Electrical & Mechanical (if any) and the co-ordination between the projects.

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Interconnect Al-Ahsaa And Its Rural Area With One Water Network	Ministry of Water & Electricity (MoWE)	2008	1,450,000	Preparation of primary & detailed design study to connect Al-Ahsaa and its rural area with a water network. The Scope of work includes the design of pumping stations , valves, main pipelines and evaluation of existing water resources.
Study & Design Of Pumping Station And Main Sewage Line For Al-Ahsaa Rural Area	Ministry of Water & Electricity (MoWE)	2008	1,095,000	Preparation of primary & detailed design study at Al-Ahsa Sewage network and pumping station for the future extension, the evaluation of the existing network and preparation of tender documents.
Master Plan For Water & Sewage Networks (For next 50 years)	Directorate General of Water at Makkah Region	2007	9,876,260	Study & Design the Master Plan For the Water and Sewage Networks at Al Gunfuda, Al Lith, Rabigh, Kholais, Al Gumum, Al Kamel and other Town & Villages close to Makkah and Jeddah for next 50 years.
Tabuk Cement Factory 3,500 mTPD Portland Cement	Austroplan / Tabuk Cement Company	2007	723,800	Engineering Consultancy Services: Feasibility , Preparation of Tender Documents, Tendering, Adjudication, Contract Award, Detailed Design Review, Material Inspection and Site Construction Management for a 3500 mTPD Cement Plant and auxiliary systems.

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Tihama (Majardah) Cement Plant	Austroplan / Southern Province Cement Company	2007	564,600	Engineering Consultancy Services: Feasibility , Preparation of Tender Documents, Tendering, Adjudication, Contract Award, Detailed Design Review, Material Inspection and Site Construction Management for a 5000 mTPD Cement Plant and auxiliary systems.
Khayyat Cement Plant	Krupp Polysius / Khayat Cement Company	2008	7,820,000	Design and procurement services
Hofuf Cement Plant	Saudi Cement Company	2008	16,699,200	Engineering Consultancy Services: Feasibility , Preparation of Tender Documents, Tendering, Adjudication, Contract Award, Detailed Design Review, Material Inspection and Site Construction Management for a 2 x 10000 mTPD Cement Plant and auxiliary systems.
Atoun Steel Factory	Voest Alpine	2008	15,000,000	Engineering, design and procurement services
EPETCO Fiberglass Plant	EPETCO (Eastern Petrochemical Company)	2009	4,950,000	To perform the design review and construction supervision for EPETCO Fiberglass plant in Jubail Industrial City, the annual production capacity of the plant is 45,000 ton/year (expandable to 60,000 ton / year), EPETCO fibreglass plant will produce E-CR glass in Chopped strand mat, woven roving and wound strand.

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Um Al Qura Printing Press – Construction Of New Administration Building	Ministry of Culture & Information (MoCI)	2007	4,900,000	Architectural Design, Preparation of Tender Documents, Evaluation of Bidders and Construction Supervision of 3 Floors – Administration Building including HVAC Installation, Fire Fighting and Fire Alarm Systems.
Design Of Temporary Coffers Dams In Jubail 1 Canal 2 For Headworks Construction – Jubail Industrial Expansion Project	Al Harbi Trading & Contracting Co. / Royal Commission For Jubail & Yanbu	2007	872,000	Design Review of structure for temporary coffer dams using computer program PLAXIS based on stress/strain analysis. Scope also include review of pumping station design, electromechanical equipment and SCADA & Control System.
Rehabilitation of Main Tanks & Pumping Stations	Directorate General of Water at Makkah Region	2007	280,000	Study & Design the Dewatering Networks and Rehabilitation of Main Tanks and Pumping Stations at Makrouna Road Jeddah.
AYLA Feasibility Study for Tri – Generation Option	Nour Energy-ASTRA Group	2007	198,500	To carry out a Feasibility of the Utilities (Water, Electrical Power & Cooling System) for Ayla Oasis Resort in Jordan. The resort is 4,000,000 m2 with expected 55,000 population. The scope of work include the feasibility of using the New Technology of Tri-Generation Plant to produce Desalinated Water, Electrical Power & District Cooling to the Resort. The scope also includes studying the possibility of using Solar Power.

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Upgrade Sanitary Waste Water Treatment Facility - Dhahran for Phase 1	Dar Al – Riyad Consultants / Saudi Aramco	2007	141,473	Design review of 14 MGD Sewage Treatment Plant. The plant is originally 10 MGD and the new design includes the updating of the plant to satisfy the expected growth of Saudi Aramco Housing Compound and King Fahd University for Petroleum & Minerals (KFUPM).
Consultancy Framework Agreement For NTCC	Turbine Services Inc.	2007	95,000	Review of NTCC proposed “Company Business Plant and Organisation Structure” and provision of desk top review.
Desalination Technical Consultancy – Master Planning Study For Stage - 5	King Abdullah Research Centre – King Saud University	2009	undisclosed	Identify the Size and the Timing of Gaps by Region and City and determine the optimal number, size, type and location of future desalination plants.