

WATER / WASTEWATER & POWER PROJECTS – LAST 5 YEARS

A. Project Completed December 2001

Project Title	Country	Overall Project Value (SR)	No of Staff Provided by BCE	Name of Client	Origin of Funding	Dates (Start/End)
Shedgum Debottlenecking Contract # 45943/00	Kingdom of Saudi Arabia (KSA)	<u>Consultancy</u> 47.34 Million <u>Total Project</u> 600.8 Million	<u>Consultancy</u> 154	Arabian American Oil Co. (ARAMCO)	ARAMCO	Feb. 1998 to Dec. 2001

Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> • Process Design • Water and Gas Treatment System • Water and Gas Piping System • Fire Water Piping System • Water Network: Pumping Stations and Piping System • Drainage and Storm Water Network 	Design / Engineering and Construction Supervision Services

Note : Total actual expended consultancy man-hours = 487,550

B. Project completed February 2002

Project Title	Country	Overall Project Value (SR)	No of Staff Provided by BCE	Name of Client	Origin of Funding	Dates (Start/End)
Hawiyah Infrastructure Upgrade, Contract # 44244/00	Kingdom of Saudi Arabia (KSA)	<u>Consultancy</u> 5.88 Million <u>Total Project</u> 77.24 Million	<u>Consultancy</u> 36	Arabian American Oil Co. (ARAMCO)	ARAMCO	May. 1998 to Feb. 2002

Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> • Infrastructure Design • Water Infrastructure Systems • Fire Water Piping System • Drainage and Storm Water Infrastructure 	Design/Engineering and Construction Supervision Services

Note : Total actual expended consultancy man-hours = 88,365

C. Project completed November 2002

Project Title	Country	Overall Project Value (SR)	No of staff Provided by BCE	Name of Client	Origin of Funding	Dates (Start/End)
Water System Facilities, Contract # 074-T25	Kingdom of Saudi Arabia (KSA)	<u>Consultancy</u> 33.01 Million <u>Total Project</u> 1,333.9 Million	<u>Consultancy</u> 146	The Royal Commission for Jubail & Yanbu	Saudi Government	Dec. 1999 to Nov. 2002

Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> Water Treatment Plant Desalination Plant 100,000 m³/day Power Plant 160 MW Intake Structure 1,800,000 m³/day Chemical Treatment / Chlorination Plant Potable Water Pumping Stations (100,000 m³/day) Water Transmission / Distribution System & Tie-ins Electrical Tie-ins / Substation 	Design/Engineering and Construction Supervision Services

Note: Total actual expended consultancy man-hours = 277,430

D. Project completed March 2004

Project Title	Country	Overall Project Value (SR)	No of Staff Provided	Name of Client	Origin of Funding	Dates (Start/End)
90 MW Power Generation Plant, Contract # HT100PC00	Kingdom of Saudi Arabia (KSA)	<u>Consultancy</u> 12.6 Million <u>Total Project</u> 346.9 Million	<u>Consultancy</u> 76	Aramco Gulf Operations / Arabian Oil Company	Saudi Government	Aug. 2001 to Mar. 2004

Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> Conceptual Engineering Detailed Design (Architectural, Civil/Structural, Process & Mechanical, Piping, Electrical & Telecommunication, DCS & Instrumentation, Fire & Gas System) Environmental Impact Studies Construction Supervision Testing & Commissioning 	Design/Engineering and Construction Supervision Services

Note: Total scheduled consultancy man-hours = 99,800

E. Ongoing Project

Project Title	Country	Overall Project Value (SR)	No of Staff Provided	Name of Client	Origin of Funding	Dates (Start/End)
Transmission & Substations Equipment Maintenance Contract # 83654/00	Kingdom of Saudi Arabia (KSA)	<u>Total Project</u> 4.6 Million	<u>Maintenance</u> 35	Saudi Electricity Company (SEC) Eastern Region	Saudi Government	Aug. 2002 to Aug. 2006

Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> • Station Service Transformer and Power Transformer up to 115 KV • Medium and high voltage 69kV or above substation equipment maintenance • Medium voltage switchgear • High voltage circuit breakers, transformers, batteries, capacitor banks etc. • Power and control cables to transformers, circuit breakers, circuit breakers, current and potential transformers. 	Maintenance Services

F. Ongoing Project

Project Title	Country	Overall Project Value (SR)	No of Staff Provided by BCE	Name of Client	Origin of Funding	Dates (Start/End)
SWC Expansion Studies, Contract # 072-T04	Kingdom of Saudi Arabia (KSA)	<u>Consultancy</u> 9.7 Million <u>Total Project</u> 589.2 Million	<u>Consultancy</u> 85	The Royal Commission for Jubail & Yanbu	Saudi Government	Sept. 2001 to Dec 2006

Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> • Water Networks in Jubail Industrial City (approx 600 kms): <ul style="list-style-type: none"> ○ Irrigation Water Network ○ Potable Water Transmission Network ○ Potable Water Distribution Network ○ Primary Industries Water Network ○ Secondary Industries Water Network • Chlorination / Deionization Plants • Reservoirs and Pumping Stations • Pipeline Rehabilitation of Potable and Irrigation Water 	Design/Engineering and Construction Supervision Services

Note: Total scheduled consultancy man-hours = 167,000

A. Project completed May 2004

Project Title	Country	Overall Project Value (SR)	No of Staff Provided by BCE	Name of Client	Origin of Funding	Dates (Start/End)
LAC Oil Firing Project at Qurayyah and Ghazlan Power Plants SEC Contract # 30322022/00	Kingdom of Saudi Arabia (KSA)	<u>Consultancy</u> 1,927,126 <u>Total Project</u> 472.5 Million	<u>Consultancy</u> 13	Black & Veatch / Saudi Electricity Company (SEC)	Saudi Government	July 2003 to May 2004

Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> Engineering Services for Qurayyah and Ghazlan Power Plants Develop the detailed scope of work and technical specification for Light Arabian Crude (LAC) Oil firing at Qurayyah and Ghazlan Power Plants 	Design/Engineering Services

Note: Total scheduled consultancy man-hours = 3775

B. Project completed May 2004

Project Title	Country	Overall Project Value (SR)	No of Staff Provided by BCE	Name of Client	Origin of Funding	Dates (Start/End)
The New 5 Desalination Satellite Plants & Water Transmission Systems	Kingdom of Saudi Arabia (KSA)	<u>Consultancy</u> 2,959,000 <u>Total Project</u> 363,400,000	<u>Consultancy</u> 18	Black & Veatch / Saline Water Conversion Corporation (SWCC)	Saudi Government	July 2003 to May 2004

Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> Consultancy and Engineering Services Preparation of Tender Documents & Technical Specifications The work to be carried out in the following stages: <ul style="list-style-type: none"> Study Stage Preliminary Stage Engineering and Design Stage Tendering Stage (Optional) 	Design/Engineering Services

Note: Total scheduled consultancy man-hours = 14,640

C. Project completed October 2003

Project Title	Country	Overall Project Value (SR)	No of Staff Provided by BCE	Name of Client	Origin of Funding	Dates (Start/End)
Integration of various SEC-ERB Substations into F/O Communications Substation	Kingdom of Saudi Arabia (KSA)	<u>Consultancy</u> 200,000 <u>Total Project</u> -	<u>Consultancy</u> 8	Saudi Electricity Company (SEC-ERB)	Saudi Government	Jan. 2003 to Oct. 2003

Detailed Description of Project	Type of Services Provided
Engineering & Design for installation of Outside Plant Underground and Overhead fiber optic cables and associated works.	Design/Engineering Services

Note: Total scheduled consultancy man-hours = 3500

D. On-Going Project

Project Title	Country	Overall Project Value (SR)	No of Staff Provided by BCE	Name of Client	Origin of Funding	Dates (Start/End)
Technical Services for Masterplan Update & Infrastructure Plan Contract No. PID N-075101	Kingdom of Saudi Arabia (KSA)	<u>Consultancy</u> 8.0 Million	<u>Consultancy</u> 16	The Royal Commission for Yanbu	Saudi Government	Feb. 2004 to Feb. 2006

Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> Recommend a growth strategy for industrial development over the next 25 years that will ensure the competitiveness and sustain growth of the Yanbu region. Develop a Master Plan for the industrial area including the expansion area. Develop an infrastructure plan that supports the proposed industrial development program Prepare a conceptual plan for development of the proposed industrial development programme. Prepare a conceptual plan for development of the proposed Free Trade Zone (FTZ). Prepare the industrial input to the Royal Commission database. 	Consultancy Services

Note: Total scheduled consultancy man-hours = 21,000

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Detailed Description of Project	Type of Services Provided
Engineering & Design for installation of Outside Plant Underground and Overhead fiber optic cables and associated works.	Design/Engineering Services

Note: Total scheduled consultancy man-hours = 3500

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Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> Recommend a growth strategy for industrial development over the next 25 years that will ensure the competitiveness and sustain growth of the Yanbu region. Develop a Master Plan for the industrial area including the expansion area. Develop an infrastructure plan that supports the proposed industrial development program Prepare a conceptual plan for development of the proposed industrial development programme. Prepare a conceptual plan for development of the proposed Free Trade Zone (FTZ). Prepare the industrial input to the Royal Commission database. 	Consultancy Services

Note: Total scheduled consultancy man-hours = 21,000

E. Ongoing Project

Project Title	Country	Overall Project Value (SR)	No of Staff Provided by BCE	Name of Client	Origin of Funding	Dates (Start/End)
Royal Commission Facilities, Contract # 610-T03	Kingdom of Saudi Arabia (KSA)	<u>Consultancy</u> 6.45 Million <u>Total Project</u> 112.1 Million	<u>Consultancy</u> 18	The Royal Commission for Jubail & Yanbu	Saudi Government	Dec. 2002 to Oct. 2007

Detailed Description of Project	Type of Services Provided
<ul style="list-style-type: none"> Detailed Engineering Construction Supervision Water and Wastewater Treatment Plants Pumping Stations Other Facilities 	Design/Engineering and Construction Supervision Services

Note: Total scheduled consultancy man-hours = 142,000