

Client Name : **Saudi Arabian Oil Company (Saudi Aramco) / Saudi Techint Limited**

Service Order No. : SA Requisition No. 3000096921 & 3000099140 / Subcontract Agreement

Project Title : **Khursaniyah Downstream / Upstream Pipelines**

Project Description : Detailed Engineering, Design and Procurement Assistance

Client Project Manager : Mohammad S. Al-Saad
Client Project Engineer : Adel A. Al-Marshoud
Contractor Engg. Coordinator : Andrioli Luciano

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Department : Khursaniyah Projects Department
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Zate Project Manager : Colin B. McLachlan

Start Date : December 2005

Finish Date : July 2006

Total Project Design M/hrs. : 62,446

Project Scope and Description

The objective of this Budget Item is to install new pipelines and the facilities required for transportation of 500 MBCD (526 MBOD) AFK stabilized crude oil from KCPF to JT, 245 MBOD C2+NGL from KGP to JGP, 550 MMSCFD sales gas from KGP to BJ sales gas grid and 220 MMSCFD of Abu Ali gas from Abu Ali Plant to KGP. This will also install Tie-in pipelines for transportation of 275 / 330 MMSCFD SJGT-1 pipeline gas, 165 / 290 MMSCFD TNBGT-1 pipeline gas and 30 MBOD SBCL-1 pipeline condensate from KTA to KGP under normal operating condition.

Abu Hadriya, Fadhili and Khursaniyah are three separate fields located about 180, 130 and 150 kilometers northwest of Dhahran, respectively.

Khursaniyah Downstream / Upstream Pipelines (Continued):

This Budget Item provides for installation of pipelines downstream of the Khursaniyah Central Processing Facilities and upstream / downstream of Khursaniyah Ga Plant for the 500 MBCD Abu Hadriyah, Fadhili and Khursaniyah Arabian Light Crude Increment. The following pipelines:

- 36-inch diameter 106 kilometer stabilized crude pipeline (KJ-1) from KCPF to Ju'aymah Terminal.
- 24-inch diameter 108 kilometer C2+NGL pipeline (KJNGL-1) from KGP to Ju'aymah Gas Plant.
- 40-inch diameter 47 kilometer sales gas pipeline (KBG-1) from KGP to Berri Junction sales gas grid.
- 30-inch diameter 64 kilometer sour gas pipeline (BKTG-1) to transfer Abu Ali Sour gas to KGP.
- A 20-inch diameter 11 kilometer Tie-in line (TNKGT-1) from the existing TNBGT-1 pipeline KRT corridor Khursaniyah Trap Area to KGP.
- A 30-inch diameter 11 kilometer Tie-in line (SJKGT-1) from the existing SJGT-1 pipeline KRT corridor Khursaniyah Trap Area to KGP.
- A 16-inch diameter 11 kilometer Tie-in the (SBKTL-1) from the existing SBCL-1 pipeline KRT corridor Khursaniyah Trap Area to KGP.
- A 36-inch diameter 11 kilometer Crude Trunk line (KAM) from Khursaniyah field to KPF.
- A 36-inch diameter 37.5 kilometer Crude Trunk line (AAL) from Abu Hadriyah field to KPF.
- A 36-inch diameter 29 kilometer Crude Trunk line (FXL) from Fadhili field to KPF.
- A 24-inch diameter 6 kilometer water injection trunk line from KPF to Khursaniyah field.
- A 30-inch diameter 26 kilometer water Injection trunk line from KPF to Abu Hadriyah Field.
- A 30-inch diameter 26 kilometer water Injection trunk line from KPF to Fadhili Field.
- Two (2) 16-inch diameter each 5 kilometer water disposal pipelines from KPF to Khursaniyah.