

Client Name : **Saudi Arabian Oil Company (Saudi Aramco) / Metal Services**

Service Order No. : SA Requisition No. 30000103888 / Subcontract Agreement

Project Title : **BI-10-00068, Additional Asphalt Handling Facilities at Ras Tanura Refinery**

Project Description : Detailed Engineering, Design and Procurement Assistance

Client Project Manager : Mohammed K. Al-Bassam

Client Project Engineer : Ibrahim A. Abusaai

Contractor Project Engineer : Askar A. Al-Saad

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Department : Northern Area Projects Department
Ras Tanura Projects Division

Zate Project Manager : Howard L. Russell

Start Date : November 2005

Finish Date : April 2006

Total Project Design Mhrs : 14,450

Project Scope and Description

This BI-10-00068, Asphalt Capacity Increase – RTR was introduced to enable Saudi Aramco to meet the peak summer asphalt demand.

General

BI-10-00068 shall provide two (02) paving asphalt storage tanks (2 x 30,000 BBL Capacity) with two tank mixers each. One (1) new loading pump (500 GPM, 75 psig head) shall be provided to meet the flow rate requirement of 1500 GPM. Modify Paving Asphalt Rundown System (Plant 15). Install an on line viscosity analyzer (Plant 15).

Additional Asphalt Handling Facilities at RTR (Continued):

It shall provide all civil/structural works, piping, piping tie-ins, valves, process control instrumentation, process utilities and electrical work required to operate the facilities.

The instrumentation and control requirements of the new tanks shall be connected to the existing plant 48 DCS (Foxboro) system. ESD system for the shutdown of the tank inlet MOV's and tank mixers shall be located inside Plant 48 PIB. Necessary additional hardware can be accommodated in the existing Plant 48 PIB.

Provision of steam heating piping to new tanks (TK-210, 211) and steam condensate line from the tanks.

Provision of Diesel Wash Oil piping to the new tanks (TK-210, 211).

Objective

The main objective of this BI is to provide additional storage and pumping facility for 6-7 MBD paving grade asphalt to contribute in meeting the Kingdom wide current as well future demand to 2013.