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Project Details

Project name:..... **8” AND 12” SKIDS FOR LINE PCV – HUDI PROJECT ATBARA**

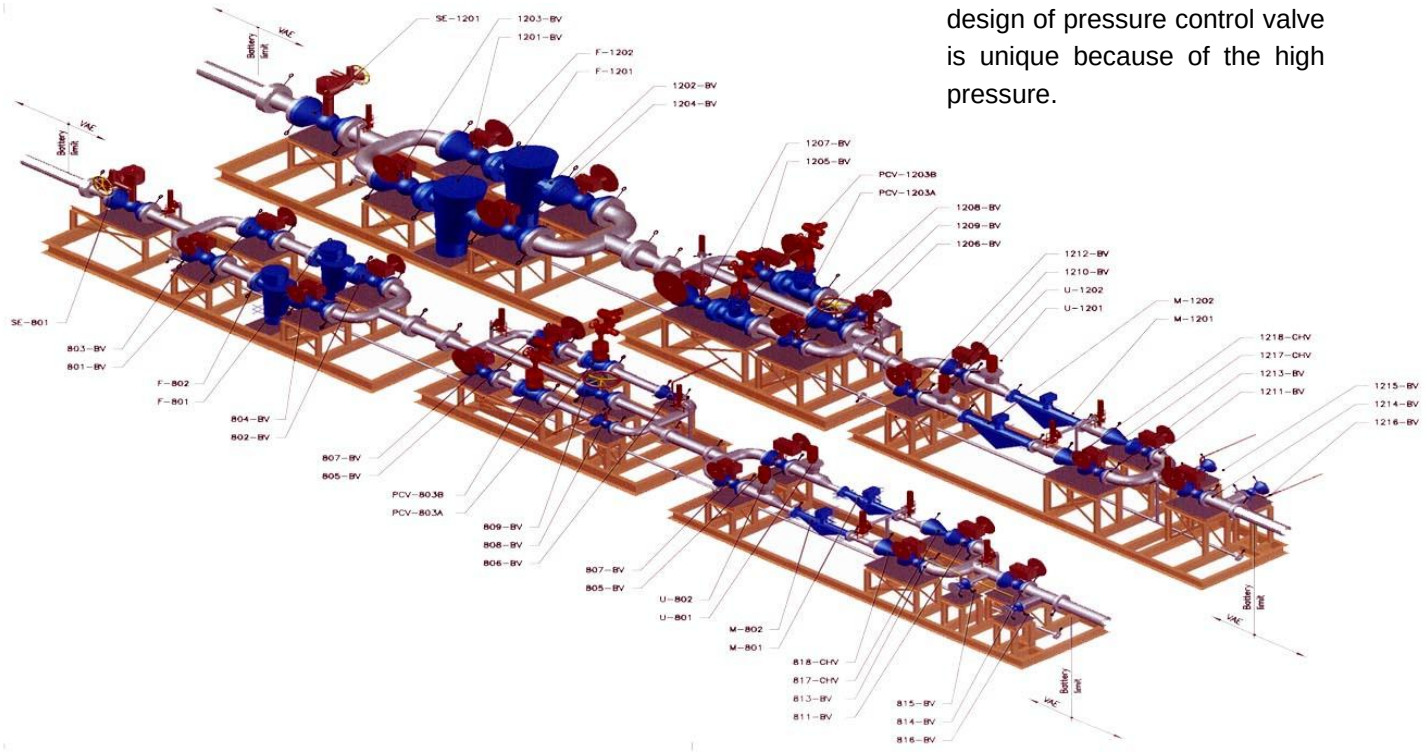
Contractor, contact: ..... Sudanese Petroleum Pipelines Holding Co (SPPHC), Eng. Mubarak Osman

Scope of works: ..... Design, fabrication and start-up assistance

Period of performance: ... 2010 (design & fabrication) to 2011 (start-up)

Project details: ..... Due to the size and weight of the device consists of 6 skids on frames. Two skids for filtration, two pressure control and two for custody measurements. All skids are doubled due to the possibility of continuity of functions in case of failure.

Connections for a proover are available, too. The skid consists of a metal frame onto which pipes, ball valves, filters, control valves, pressure safety valves, pressure gauges, drainage system, field instrumentation and auxiliary equipment have been installed. Part of the ball valves is equipped with electrical drives to allow automated flow control and setting the mode of operation. All the ball valves have the DBB (double block and bleed) design to provide dual isolation. Flow is measured by massmeters. The design of pressure control valve is unique because of the high pressure.



All electrical equipment inclusive junction boxes is pre-wired to allow easy and quick integration with electrical and SCADA system on-site. The skids have been designed to allow easy handling and transport by common containers.

The skids meet requirements of ATEX and PED. All the skids have been completely set, and pretested before delivery (X-ray, pressure test, electrical loop test, function test).

The scope of delivery included the SCADA system and integration in to the whole SCADA system of the pipeline.

Basic technical data

Quantity	8 Inch skids	12 Inch skids
Product name	Gasoil	Mogas
Density at 15 C	820 – 850 kg/m3	720 – 740 kg/m3
Working pressure - upstream part	6 - 90 bar	30 - 90 bar
Required pressure in downstream part	4 bar	
Design pressure - upstream part	Class 600	Class 900
Design pressure - downtream part	Class 150	
Design temperature	min+5°C max+55°C	
Flow rate	10 to 200 m3/h	100 to 500 m3/h
Error of measurement	≤0,2%	
Main pipe connections	Flange ANSI 8”	Flange ANSI 12”
Dimension (width x length x height)	8m x 20,5m x 4m	
Weight	35 000 kg	