



8" AND 12" SKIDS FOR PIPELINE PCV – HUDI PROJECT ATBARA

Client:

Sudanese Petroleum Pipelines Holding Co (SPPHC), Eng. Hamid Suliaman

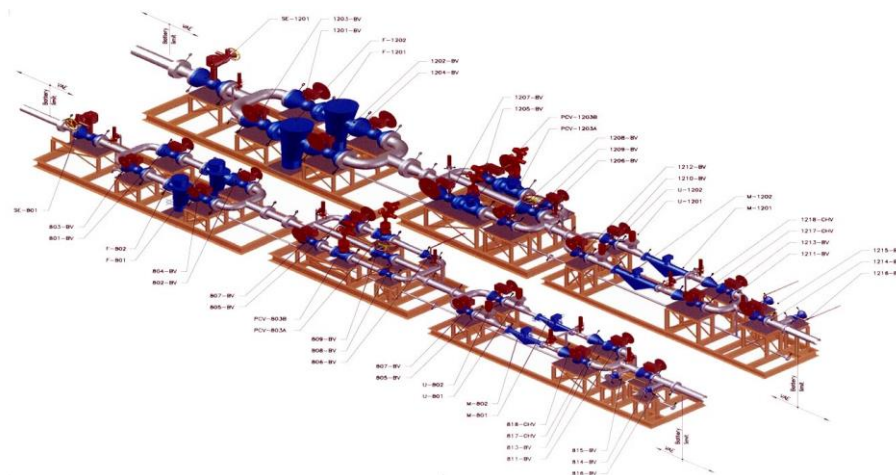
Scope of work:

Design, fabrication and start-up commissioning assistance

Period:

2010 (design & fabrication) to 2011 (start-up)

The scope of works is for 6 skids consisting of the following: Two skids for filtration, two pressure control and two for custody measurements. The design is for fully functioning redundant systems (i.e. Back-up), allowing for continuity of operations under any such failure conditions, and servicing under operational conditions, hence reducing 'Life-Cycle' costs. Prover connections are included. 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 is installed. Some ball valves are equipped with electrical actuation for automated flow control selection 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 conditions.





All electrical equipment including junction boxes is pre-wired and tested, providing ease of integration with existing electrical system on-site. The skids are modular in design to allow easy handling and transport in standard containers.



The skids are fully compliant with ATEX and PED regulations. All the skids have been checked under FAT, and pretested before delivery (X-ray, pressure test, electrical loop test, function test).



The scope of supply included a SCADA system with full integration in to existing SCADA system of the pipeline.

Basic technical data

	8 Inch skids	12 Inch skids
<i>Product name</i>	Gasoil	Mogas
<i>Density at 15 C</i>	820 – 850 kg/m ³	720 – 740 kg/m ³
<i>Working pressure - upstream part</i>	6 - 90 bar	30 - 90 bar
<i>Required pressure in downstream part</i>	4 bar	
<i>Design pressure - upstream part</i>	Class 600	Class 900
<i>Design pressure - downstream part</i>	Class 150	
<i>Design temperature</i>	min+5°C max+55°C	
<i>Flow rate</i>	10 to 200 m ³ /h	100 to 500 m ³ /h
<i>Error of measurement</i>	≤0,2%	
<i>Main pipe connections</i>	Flange ANSI 8"	Flange ANSI 12"
<i>Dimension (width x length x height)</i>	8m x 20,5m x 4m	
<i>Weight</i>	35 000 kg	