

3- PUMPING SERVICES PACKAGE

General:

To provide our clients with the best services quality at highest standard services and to safety environment for both APETCO & clients staff, we ordered two pumping units (**HT-400 4.5``** & **SPM 3.5``**) each to be installed on one trailer accompanied by 7500 Gal acid tank. Layout will indicate the design.

These packages will achieve the following

- Avoid mixing acid mixture on Site.(Safety Point)
- Save mixing time on site. (Cost point)
- Minimize trucks number on site. (Cost point)
- Avoid using crane on site to load and offload mixing tanks



Specifications:

1. Engine Detroit Diesel 8V92TA, rated 420 hp@ 2200 rpm (reconditioned, Zero hour, and dynotested).
2. Transmission Allison HT750DRD, power shift (reconditioned, Zero hour, and Spin tested).
3. Triplex pump SPM TWS600, with all new 3.5" Fluid end parts.
4. New engine radiator, transmission cooler and triplex pump cooler.
5. New Spicer 1810 drive shaft.
6. New Engine air induction system, with over-speed Chalwyn valve and emergency kill joystick.
7. New Engine Exhaust system, with spark arrestor.
8. New fuel tank, lube tank for triplex pump.
9. New offshore skid, been built to DNV 2.71, and can fit inside standard 20 ft container.
10. New Stainless Steel engraved control panel including:
 - Wagner 0-15,000 PSI analogue pressure gauge.
 - Cameron MCII flow-meter
 - Ideal Specialty over pressure shut-down valve.
 - Rexroth H4 engine throttle
 - Morse mechanical gear shifter.
 - Murphy engine, transmission and triplex pump monitoring gauges
 - Ingersoll-Rand start and stop buttons.

Storage and Mixing Tanks

- **3 ea 7500 USG acid Road tanker.**

Three compartment acid road tanker of capacity 7500 Gal,
Will make APETCO comply with the safety policy with the client and
facilitate transportation of the mixtures to clients on time.

- **5 ea Raw Acid Storage Capacity of 1300 USG**

Acid resistant steel tanks which provides total storage capacity
Of 6,500 USG raw acid.

Transfer Pumps

- 2 ea C-Pumps
- 2 ea Acid Transfer Pumps (Delasco Pumps)

