

Head Office: Office #04, 3rd floor 8520, Rajput arcade, Pakistan town phase II, Islamabad;
Phone Number +92-51-5735181, Website: www.route1.com.pk

TO WHOM IT MAY CONCERN

I am writing on behalf of Route One Engineering, Pakistan as the lead engineer responsible for the installation and commissioning of the Coltraco Ultrasonics Permaflow® Fixed Clamp-on Ultrasonic Flowmeter.

One example of the tests we have done was on large pipes with approximately 600mm in diameter using DS10 sensors. Pipe material was carbon steel with 12.5mm cement lining. The liquid type used was water and the primary application was for custody transfer applications. The measured flow rate is around 4,000 m³/h.

Due to the size of the pipes and nature of the application, the installation was challenging and we had experienced measurement fluctuations. However, through the technical support given by Coltraco Ultrasonics' team we were able to overcome the installation and measurement challenges and resolve the various issues.

The commissioning of the project took more than 6 months to completely satisfy our end user. The final outcome was a positive one with our end user happy with the result and mentioned that they were likely to place more orders for the same product.

I would recommend the Permaflow® for similar applications given our positive experience with Coltraco Ultrasonics' products and technical support.

Yours sincerely,



Engr. Adil Murtaza
Filed Service Engineer
Route One Engineering, Pakistan
+92-51-5735181