

- 1 Calibration of Venturimeter of size 950 mm at LWFL & Testing of 600 mm Valve at WFL
- 2 Calibration of EMF at LWFL &  $F_L$  Testing of Globe Valve at Valve Cavitation and Research Centre
- 3 Calibration of 18" PTC nozzle at WFL & Calibration of 6" Mass Flow Meter at OFL
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## 1. Calibration of Venturimeter of size 950mm at LWFL & Testing of 600mm Valve at WFL.

A Venturimeter of size 950 mm was calibrated at Large Water Flow Laboratory of FCRI and a Valve of size 600 mm was tested at Water Flow Laboratory



950 mm Venturimeter under calibration at LWFL



Testing of 600 mm Valve at WFL

## 2. Calibration of EMF at LWFL & $F_L$ testing of Globe Valve at Valve Cavitation and Research Centre

Calibration of an Electro Magnetic Flowmeter of size 450mm has been completed at Large Water Flow Laboratory of FCRI. Liquid Pressure Recovery Factor,  $F_L$ , testing of Globe Valve of size 6 inch has been carried out at the Valve Cavitation and Research Centre of FCRI.



Calibration of EMF at LWFL



$F_L$  Testing of Globe Valve

## 3. Calibration of 18" PTC nozzle at WFL & Calibration of 6" Mass Flow Meter at OFL

Calibration of 18" PTC nozzle was completed at Water Flow Laboratory of FCRI and Calibration of 6" Mass Flow Meters were conducted at Oil Flow Laboratory of FCRI.



Calibration of 18" PTC nozzle



Calibration of 6" Mass Flow Meter

## 4. FCRI Participation in Hannover Messe.

FCRI has participated in Hannover Messe in April 2018 as part of DHI delegation. FCRI participated in the exhibition and was part of DHI stall. The stall was visited by **Secretary Mo HI&PE** along with EEPCC chairman, Deputy Chief of mission Embassy of India and Director, DHI. DHI stall & FCRI artifacts were visited by several international visitors and it generated a lot of interest. The Laminar Flowmeter developed at FCRI was prominently displayed and its functioning and utilitarian aspects were well received.

Also, FCRI delegate visited PTB-Germany, NMI Certin and also VSL, Netherlands for exploring the possibility of technical cooperation. The various facilities at the NMI were briefly explained and a PowerPoint Presentation explaining the connection between VSL and NMI was also made. He also indicated that NMI was being shifted to VSL premises in Delft for their managerial and economic reasons. Other important labs like flow computer testing facilities, voltage, current, testing facilities etc. were also visited. VSL is the custodian of part of the national standards whereas NMI was doing more of Legal Metrology duties like stamping, checking, verification etc. Areas of Cooperation in training of FCRI personnel in loss of unaccounted gas measurement and also scope for Inter comparison studies were also discussed prominently. FCRI delegate visited VSL & Dr. Peter Lucas who had visited FCRI for the flotek.g as a keynote speaker had received the delegate there. Discussions were held regarding possibility of giving training to FCRI on LUAG, Inter comparison testing of an artifact at ambient air conditions and also on technology transfer to make a gas operated Piston Prover for FCRI.



FCRI Participation in Hannover Messe.



Visit of stall by **Secretary Mo HI&PE**

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