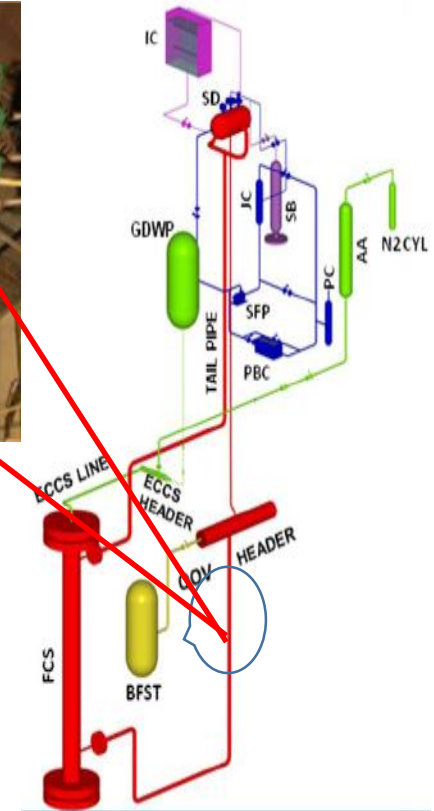
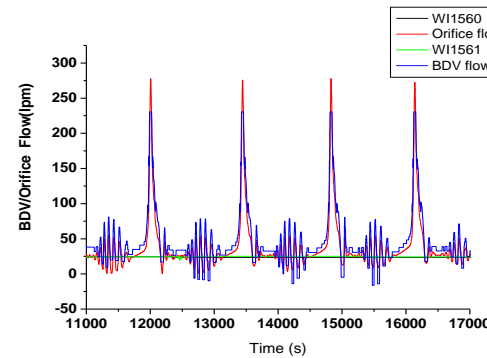
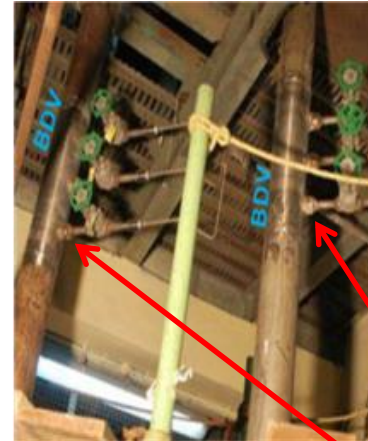


# Development of Bi-Directional Venturi Flow Sensor for AHWR Feeder Flow Measurement

## Salient Features:

- **Bi-directional flow measurement**
- **Accuracy better than  $\pm 0.5\%$**
- **Sensor shall introduce least disturbance in the process**
- **Minimum permanent pressure loss**
- **Minimum straight lengths requirement**
- **Good measurement sensitivity at low flow velocities**
- **Reasonably constant discharge coefficient for wide range of Reynolds numbers**



**Bi Directional Venturi Flow Sensor performance was experimentally demonstrated in AHWR Full Scale Experimental Facility - Integral Test Loop**