

Name of the Equipment: **WFI generation Plant with Design capacity 1000LPH**

Title: Technical Specification for **WFI generation Plant with Design capacity 1000LPH**

Description	Technical Specifications
<b>General Features</b>	<b>Supply &amp; Installation commissioning of WFI plant of capacity 1000LPH</b> <ul style="list-style-type: none"><li>• ASME Design as per Section VIII, Div.-I</li><li>• Automation with Mitsubishi /Allen Bradley PLC 7” HMI (Colortouch screen)</li><li>• With Double tube sheet construction of the first condenser, first pre-heater &amp; two top coolers.</li><li>• Multistage pump for feed water &amp; cooling water make: Grundfos</li><li>• Purging system for the last column.</li><li>• Pneumatic Diaphragm valve for feed water line.</li><li>• Pneumatic Angle Seat valve for cooling water line.</li><li>• Mascot make Manual Globe valve in plant steam line</li><li>• Spirax make safety valve in plant steam line.</li><li>• Inbuilt Non-Condensable Gas Removal Arrangement</li><li>• 3 way Sanitary type Pneumatic Diaphragm valve at WFI outlet.</li><li>• Disposable Vacuum Break Filter make: Sartorius</li><li>• Boroscopy.</li><li>• Real-time Printing Facility with Epson makes Dot Matrix Printer &amp; stand.</li><li>• Level Sensor fork type make: Sick</li><li>• Pressure switch for feed water (Sanitary), Cooling Water and Air (Non-Sanitary) make: Orion.</li><li>• PLC Validation at FAT.</li><li>• Endotoxin test at FAT</li></ul>
<b>Site Visits</b>	<b>Site Visits are mandatory for the vendors to participate in Pre- Bid &amp; e-tendering.</b>
<b>Documents</b>	<b>Test certificates, calibration reports, etc.</b>
<b>Warranty</b>	<b>1 year Comprehensive Warranty on site for materials, systems &amp; services. II nd&amp; III rd year Non Comprehensive Warranty i.e. HBPCCL will pay for material only &amp; services will be provided by supplier free of charge.</b>