

1. SOW

The Supply and delivery of the following spares:

- a) Butterfly control valve and a pneumatic actuator (PGA15AA001)

Body material: A216 WCB

Nominal Size: 200 mm

Manufacturer: Fisher Controls

Design Pressure: 1.0 MPa

Design Temperature: 60 DegC

To be provided with material certificate

- b) Butterfly control valve and a pneumatic actuator (PGA33AA001)

Body material: A216 WCB

Nominal Size: 100 mm

Manufacturer: Fisher Controls

Design Pressure: 1.0 MPa

Design Temperature: 60 DegC

To be provided with material certificate

- c) Butterfly control valve and a pneumatic actuator (PGA43AA001)

Body material: A216 WCB

Nominal Size: 250 mm

Manufacturer: Fisher Controls

Design Pressure: 1.0 MPa

Design Temperature: 60 DegC

To be provided with material certificate

2. Risk Assessment

The auxiliary cooling water system provides a continuous supply of demineralised cooling water to various coolers associated with the turbine generating unit. The cooling water flow through the coolers is regulated by the pneumatically operated control valves listed on the SOW above. Failure of these valves to operate in accordance with the temperature signals from the control system affects the performance of the plant. There is a risk of overheating or overcooling of the working fluid if the control valves are malfunctioning, which has a direct impact on the

performance and integrity of the equipment where the fluid is used. Currently the valve PGA43AA001 is passing on multiple units. This leads to overcooling of the turbine lubricating oil at low load. This affects the properties and flow of the fluid which delays turbine runup/ unit RTS.

3. Technical Evaluation Criteria

| Criteria | |
|---|-----|
| Manufacturers Model number | 20% |
| Manufacturers Serial number | 20% |
| Drawings of Device showing parts and dimensions (GA) | 30% |
| No Drawing | 0% |
| Signed Letter of Authorisation from manufacturer/agent or distributor | 30% |
| No letter | 0% |
| | |

Threshold 70%