

Tender 17/2023

QTY	Samra existing system	requirement (Upgrade or replacement)
4	<ul style="list-style-type: none"> <li>- System for GE F9E GT.</li> <li>- Speed-Tronic MK-6 HMI servers include:</li> <li>- win-XP professional 2002 s. p 2</li> <li>- simplicity "Sim view" version 6.10 service pack 4 (licensed)</li> <li>- GE control system toolbox release 11.5 version V11.05.05C (licensed).</li> <li>- Interface with Ovation DCS – Combined Cycle.</li> </ul>	<ul style="list-style-type: none"> <li>Industrial desktop servers: (Qty: 4) licensed.</li> <li>Spare Industrial Servers (Qty:2 HW without SW)</li> <li>- latest revisions &amp; Sys Servers SW/ HW.</li> <li>- upgraded and comply with MK-6 Controllers and EX2100 controller.</li> <li>- all equipment's available at existing Network shall be interfaced in the New Servers.</li> <li>- HMI SWs latest version for operating two gas turbines in each server includes Audible alarms &amp; events, trend function signal and interface with mark 6 and EX2100 controllers (licensed)</li> <li>- control system Engineering (GE toolbox or equivalent SW) performs the same functions and interface with mark 6 and EX2100 controllers, (licensed).</li> <li>- Main Data base Server (redundant) (Qty: 2)</li> <li>- Historian Industrial desktop server (redundant) (Qty: 2)</li> <li>- historian software for 2 gas turbines interface with mark VI latest version (licensed) includes alarms, events, and signals trend functions.</li> </ul>
1	<p>Historian servers include:</p> <ul style="list-style-type: none"> <li>- win XP professional 2002 s.p. 2.</li> <li>- PI process book version 3.0.11.647 (licensed)</li> </ul>	<ul style="list-style-type: none"> <li>- servers Hardware Min Requirements:</li> <li>CPU: Total Cores 4, Total Threads 8, Processor Base Frequency 3.8 GHz, Cache 8 MB</li> <li>internal storage: 2 TB SSD with 1 TB GB SSD for RAID 1</li> <li>RAM: 32 GB RAM</li> <li>Dual Monitor Video Outputs, built in audio.</li> <li>DVD±RW drive</li> <li>RJ45 Ethernet ports (QTY 4)</li> <li>External USB ports (QTY 6)</li> <li>Anti-Virus (licensed)</li> <li>24" Monitors</li> <li>MS office latest version</li> </ul>

The system installed at Two gas Turbines (GT F9E) (each workstation can operate and configure both units)

Vendor must Replace the Control System servers/ networks and related Parts by New Hardware (i.e.):

- Operator Workstations, Engineering station (database server), Network Switches / Routers.
- Reload the workstations as Existed operating Graphics, logic, and parameters.
- Interface all available instruments, equipment, and control systems.
- Vendor must guarantee the GTs start up and operation.

Field Service Tech. Direction & Commissioning of Field Engineer for above upgrade.

If any defected parts / cards / servers because of the upgrade its vendor responsibility who will provide the parts, repair, replaced and configure to proceed upgrade.



