

Tender No: 110230/JPK/GAIL/10-R1

Dated – 30.10.2009

Sr. No.	Section / Clause No.	Tender Doc. Page No.	Clause Description	Added / Modified / Deleted
1.	Volume II, Clause 1.3	Page 4 of 62	<p>Compatibility Test:</p> <p>1.3.1 Before bidding vendor has to carry out compatibility test of proposed model and make with existing SCADA at GAIL Noida. Existing SCADA is communicating on DNP 3.0 protocol. The proposed RTUs should be compatible with SCADA protocol. 1.3.2 GAIL will provide the necessary co-ordination (but not the technical support) to bidders for testing of proposed specific make / model of RTU for compatibility with existing SCADA system at GAIL, NGMC Noida. The testing shall be done during office working hours with prior intimation and confirmation with GAIL. GAIL shall not be responsible in any manner in case RTU testing is not successful. 1.3.3 GAIL will issue a compatibility certificate after successfully testing with SCADA. Vender has to attach same certificate along with bid. 1.3.4 A</p>	<p>The Clause is Modified as:</p> <p>COMPATIBILITY TEST</p> <p>1. With the existing GAIL SCADA system (Fox SCADA), following make & model of RTUs are existing/compatible:</p> <ul style="list-style-type: none"> a. Invensys – SCD 5200 b. Invensys – C50 c. Kingfisher – Series 2 d. Honeywell – Versa Trak MIPM e. Bristol – Control Wave RTU f. Siemens – SICAM TM 1703 ACP <p>In addition to above make & model of RTUS, if a bidder proposes any other make/model then the proposed make shall be qualified based on the compatibility test from either GAIL or OEM for which following stages/criteria have to be met by the bidder before submission of bid:</p> <p>A) <u>From GAIL</u></p> <ul style="list-style-type: none"> i) GAIL, NGMC Noida will provide the necessary co-ordination (but not the technical support) to bidders for testing of proposed specific make / model of RTU for compatibility with existing GAIL SCADA system, compatibility test of proposed make and model with existing SCADA at GAIL NGMC Noida. Existing SCADA is communication on DNP 3.0 PROTOCOL. The testing shall be done during office working hours with prior intimation and confirmation with GAIL, NGMC Noida. GAIL will issue a compatibility certificate after successfully testing with

			<p>bidder has to carry minimum requirement of cards as given below along with test RTU for this test at Noida without any cost implication to GAIL. 1. Analog input 2. Digital Input 3. Digital Output 4. Analog Output 5. Serial communication over Modbus through serial port of RTU 1.3.5 Compatibility to be tested in all respect with time synchronization of RTU with SCADA server. 1.3.6 The RTUs, which have already been tested for above features and compatibility with existing SCADA system at GAIL, NGMC Noida, need not be tested again. However Test Certificate as mentioned above has to be enclosed along with the bid.</p>	<p>SCADA.</p> <p>GAIL shall not be responsible in any manner in case RTU testing is not successful.</p> <p>ii) Bidder has to carry minimum requirement of cards as given below along with test RTU for this test at GAIL NGMC Noida without any cost implication to GAIL.</p> <ol style="list-style-type: none"> 1. Analog Input 2. Digital Input 3. Digital Output 4. Analog Output 5. Serial communication over Modbus through serial port of RTU <p>iii) Compatibility to be tested in all respect for each card along with time synchronization of RTU with GAIL SCADA system. Vender has to attach same certificate along with bid.</p> <p>B) From OEM</p> <p>i) Bidder can also obtain compatibility test certificate of the proposed RTU make & model from OEM of the GAIL SCADA system i.e Invensys India Pvt. Ltd.</p> <p>The above qualification does not absolve the bidder to meet the technical RTU specification or any other requirement of the tender.</p>
2.	Volume II, Clause 2.5	Page 8 of 62	<p>FOR TEMPERATURE</p> <p>Designed: -20 to 60°C</p> <p>Storage & transportation: -30 to 60°C</p>	<p>This shall be read as:</p> <p>FOR TEMPERATURE</p> <p>Designed: 0 to 55°C</p> <p>Storage & transportation: 0 to 55°C</p>
3.	Volume I		SOR	Revised SOR is attached.