

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

Dated – 30.10.2009

Sr. No.	Section / Clause No.	Tender Doc. Page No.	Clause Description	Bidder's Query	Reply / Clarifications
1)	Vol II. Cl.1.3,	Page 4 of 62	Compatibility Test	Considering the time available, we request GAIL to provide the time till the Price Bid opening to carry out the Compatibility test as specified in the tender documents. Also, please confirm that GAIL will provide the Inter Operability Matrix of the protocol for us to be able to match the protocol.	Tender Condition Prevails  Operability Matrix etc. will be discussed during the Compatibility test.
2)	Vol II. Clause no. 3.3	Page 9 of 62	RTU Detailed Technical Features	Every manufacturer of the RTU follows its own design. Therefore, it is suggested that the design parameters like CPU Clock Speed, Memory size, etc. are left to individual RTU manufacturer, and only the functional specifications and technology standards like 32 bit, Communication, etc. are specified. Please confirm that the CPU Clock Speed and Memory size as per RTU manufacturers' design is acceptable.	CPU Clock Speed and memory size shall be as per RTU manufacturer's design

3)	Vol II. Clause no. 3.13	Page 18 of 62	Digital Output Module	Please confirm 8 channels is acceptable.	Accepted.
4)	Vol II. Clause no. 3.16	Page 18 of 62	Analog Input Module:	Please confirm 8 channels is acceptable.	Accepted.
5)	Vol II. Clause no. 2.0	Page 5 of 62	Mandatory Spare	Please confirm these are total spares or spares for each RTU and also change the SOR.	Refer SOR in Corrigendum - 1
6)	Vol II. Clause no. 2.3	Page7 of 62	Earthing	Please confirm the earthing pit scope.Is it in bidders scope of supply or GAIL scope?	Earthing pit is in client's scope.
7)	Vol II. Clause no. 3.6	Page15 of 62	Enclosures	Plaese confirm the maximum allowed enclosure height and width 1000mm is fixed or it can be changed.	Minimum dimensions of cabinet/enclosure shall be 2100mm(Height, including 100mm base channel)X1000mm(width)X80 0mm(Depth)
8)	Vol II. Clause no. 3.2 (g)	Page9 of 62	RTU To SCADA System	Please confirm assistance to be provided to SCADA vendor for how many days.	Assistance shall be provided till final configuration/commissioning of SCADA system.
9)	Vol II. Clause no. 3.3 (f)	Page9 of 62	RTU Detailed Technical Features	Please confirm the local data archiving for how much duration.	Archiving shall be provided during outage of master SCADA system.
10)	Vol II. Clause no. 3.3 (i)	Page9 of 62	RTU Detailed Technical Features.	Please specify details of multi-loop control. Is PID control required?	Multi-loop control / PID control is not required.
11)	Vol II. Clause no. 3.3 (ddd)	Page12 of 62	RTU Detailed Technical Features.	How many of 4-20mA and 0-5V inputs required.	The RTU shall be capable of handling both 4-20 mA DC and 0-5 V DC inputs, the details will be furnished during detail engineering.

12)	Annexure -1	Page 22 of 62	I/O details.	Annex. 1 station SV2 & PPCL not mentioned the serial port details ,please confirm.	Refer Corrigendum – 1
13)	Vol II.			Please confirm who will provide the SIM charges .	SIM will be purchased in M/s GAIL's name, but vendor will bear charges for two months during commissioning period.
14)	Vol II. Clause no. 2.0, 7(b)	Page 5 of 62	Scope Of Supply & Services.	Does JP Kenney/GAIL envisage reading of 'no. of consumers to be polled through GSM(dialup/GPRS)" as mentioned in Annexure-I by individual RTU's to be supplied ? are GSM modems to be supplied by vendor ?	Modems as required are to be supplied alongwith RTU. The polling will be done through GSM dialup. Also Modem will have provision for getting consumer flow-computer data thro' GSM-GPRS, Details as mentioned in Vol.II, Cl. 2.0, 7(b).
15)	Vol II. Clause no. 2.0, 7(g)	Page 6 of 62	Scope Of Supply & Services.	Is field/instrument cabling in scope of vendor ? If yes, please provide necessary distances for estimation of cable lengths.	Cabling as mentioned in Vol.II, Cl. 2.0, 7(g) is only in bidder's scope.
16)	Vol II. Clause no. 2.1,	Page 7 of 62	Power Supply	Is the power mentioned for RTU only or for RTU with instrumentation?	Power mentioned is for RTU only.
17)	Vol II. Clause no. 2.1,	Page 7 of 62	Power Supply	Does JP Kenney/GAIL envisage redundant power supply as required to feed power to the RTU or the RTU having redundant power supply?	RTU to be provided with redundant power supply by Vendor.
18)	Vol II. Clause no. 2.6 & 2.7,	Page 8 of 62	Panel design criteria.	JP Kenney/GAIL to clarify on the RTU enclosure IP rating.	IP 52

19)	Vol II. Clause no. 3.2(e)	Page 9 of 62	RTU To Scada System	Will GAIL provide fiber optic cable & connectivity ?	Yes
20)	Vol II. Clause no. 3.2(e)	Page 9 of 62	RTU to Scada System	Will GAIL provide for necessary fiber optic to copper/Ethernet connectivity/conversion ?	Redundant Low speed port will be provided by Telecom vendor for SCADA communication, however RTU vendor has to do the necessary cabling and termination at both end i.e. RTU end and Telecom end with proper connectors
21)	Vol II. Clause no. 3.3(d)	Page 9 of 62	RTU Detailed Technical Features	JP Kenney / GAIL to clarify on no. of serial ports required per RTU w.r.t. no. of ports mentioned in Annexure-1	Vendor shall provide type & no. of serial ports as per Annexure-1 in Corrigendum. 1
22)	Vol II. Clause no. 3.3(gg)	Page 10 of 62	RTU Detailed Technical Features	Does the scan rate of 1 second envisage updation of data as obtained from serial devices also ?	Yes
23)	Vol II. Clause no. 3.3(ww)	Page 12 of 62	RTU Detailed Technical Features	JP Kenney / GAIL to clarify requirement as no AO's are envisaged in Annexure-1.	AO requirement as per Annexure 1 of CJPL and Spurline of CJPL as per tender
24)	Vol II. Clause no. 3.3(ww)	Page 12 of 62	RTU Detailed Technical Features	Also, does JP Kenney/GAIL envisage individual DI channel feedback for individual DO? If yes, are these DO counts included in Annexure-I	The feature should be available. No. of DO shall be as per Annexure-1 in Corrigendum. 1.
25)	Vol II. Clause no. 3.4	Page 13 of 62	RTU Communication Features	RFQ mentions protocol of interface between RTU and Invensys SCADA to be DNP 3.0.	At present Protocol required is DNP 3.0.However,RTU shall support IEC 870-5-101 protocol.

				Please explain where IEC 870-5-101 protocol is to be used for.	
26)	Vol II. Clause no. 3.14 & 3.16	Page 18 of 62	Analog to Digital Convertor	Both these requirements are misleading as far as accuracy is required. We believe that clause 3.14 should be deleted – JP Kenney/GAIL to clarify.	Cl. 3.14 is deleted.
27)	Vol I Clause no. 1.2			We request JP Kenney /GAIL to extend due date for submission of offer to November 30, 2009	Tender Condition Prevails.
28)	Vol II. Clause no. 2.0 , 7(b)	Page 5 of 62		Pls. provide elaborated communication (required) details between RTU and Customer flow computer (TCP IP/ Serial). Kindly elaborate the requirement of GSM communication.	Serial Communication on Modbus/RTU Protocol is required between RTU and flow computer.  Consumer's Flow computer not having dedicated telecom link has to be polled using GSM modem. At RTU end necessary hardware/software including GSM modem has to be supplied by RTU vendor. At Consumers end, GSM modem is in the scope of other bidder. Refer Vol-II clause 2.0, 7-b for detail.
29)	Vol II. Clause no. 3. 2(g)	Page 9 of 62		We understand that generation of necessary graphic screens at SCADA end will not be in bidders scope; only assistance for interfacing RTU with SCADA will be in	Bidder's understanding is Corrigendumect

				bidders scope.	
30)				<p><b>End User Certificate:</b>                  GAIL to confirm the use the system to be supplied against this tender, only for the purpose specified in the scope of Work and SCC of the tender document.</p>	Accepted
31)				<p><b>The use of Software/Intellectual Property:</b> GAIL to confirm the use the system to be supplied against this tender, shall only be for the purpose specified in the scope of Work and SCC of the tender document. The Supplier shall grant Purchaser its standard personal, non-transferable and non-exclusive license for right to use for Software and related documentation furnished under the contract. Title to and ownership of software shall at all times remain with Supplier or its suppliers, as the case may be.</p>	Accepted