

Tender No: 110290/WGI/GAIL GAS/21-R0

Dated – 09.09.2010

Sr. No.	Section / Clause No.	Tender Doc. Page No.	Clause Description	Added / Modified / Deleted
1.	Section I / IFB / 3.0	3 of 186	Brief Scope of Work	Following line has been added in the beginning of the existing Clause: “ This is a turnkey indivisible works contract”
2.	Section II / ITB / 11.7	11 of 186	Bid Prices	This Clause has been modified as under: “ Port Clearance and payment of custom duty shall be in the scope of Bidder”
3.	Section V / Payment Terms / 1.1.1 (v)	126 of 186	Payment Terms	This clause has been modified as under: “Customs duty shall be paid by the bidder which will be paid against documentary evidence upto the amount indicated by the bidder in its Price Bid. Payment towards custom duty will be released to the Bidder after duly certification & authorization by the bidder. For Foreign Bidder. ”
4.	Vol. II of II Clause No. 4.0 e	20 of 175	Logging, reporting and trending capabilities at the MCC and SCC	Logging, reporting and trending capabilities at the MCC and SMCC.
5.	Vol. II of II Clause No. 9.11	37 of 175	Windows Operating system security To prevent an operator from accessing the operating system and software other than SCADA station software, the operator station SHALL be configured as a secure station through setup Windows 2000 operating system security. For example, the following security will be setup through Windows 2000 Local Security Policy and System Registry:	Windows Operating system security To prevent an operator from accessing the operating system and software other than SCADA station software, the operator station SHALL be configured as a secure station through setup Windows 2007 operating system security. For example, the following security will be setup through Windows 2007 Local Security Policy and System Registry:
6.	Vol. II of II Clause No. 14.1	47 of 175	Processor: For Windows: Quad Core Intel Xeon 2.93 GHz (dual processor). For UNIX: 64 bits RISC based high performance processor (Min. 4)	For Windows: Quad Core Intel Xeon 2.93 GHz (dual processor). For UNIX: 64 bits RISC based high performance processor (Min. 2)
7.	Vol. II of II Clause No. 14.6 f	59 of 175	In the event of failures or break of communication link, the RTU shall continue to scan all parameters and update its database. RTU	In the event of failures or break of communication link, the RTU shall continue to scan all parameters and update its database. RTU shall retain in database minimum 2000 events.

			shall retain its database till it is completely read by master station in order to take care of no loss of data on failure of master station.	
8.	Vol. II of II Clause No. 22.1	99 of 175	Online CNG Stn. – Serial Port 24 Nos. (12 each RS 232 & RS 485)	Online CNG Stn. – Serial Port 12 Nos. (6 each RS 232 & RS 485)
9.	Vol. II of II Clause No. 22.1	99 of 175	Daughter CNG Stn. – Serial Port 18 Nos. (9 each RS 232 & RS 485)	Daughter CNG Stn. – Serial Port 12 Nos. (6 each RS 232 & RS 485)
10.	Vol. II of II Clause No 1.1.3	114 of 175		Paragraph deleted.
11.	Vol. II of II Clause No 1.1.6.3	146 of 175	Certificate from sub vendors for systems such as APPS system, RTU etc.shall also be furnished .The certificates issued by the local agents shall not be acceptable.	Certificate from sub vendors for systems shall also be furnished .The certificates issued by the local agents only shall not be acceptable.
12.	Vol. II of II Clause No 1.1.9	146 of 175		Paragraph deleted.
13.	Vol. II of II Clause No. 2.1	164 of 175	Processor: For Windows: Quad Core Intel Xeon 2.93 GHz (dual processor). For UNIX: 64 bits RISC based high performance processor (Min. 4)	For Windows: Quad Core Intel Xeon 2.93 GHz (dual processor). For UNIX: 64 bits RISC based high performance processor (Min. 2)

Corrigendum-1 is to be treated as part of the original Tender document and while submitting your offer; Corrigendum-1 shall also be signed, stamped and submitted along with Tender Document.

Tender No. 110290/WGI/GAIL GAS/21-R0

DATED: 09.09.2010

Sr. No.	Section / Clause No.	Tender Doc. Page No.	Clause Description	Clarification Required	Clarifications
1.	Section I / IFB / 1.2.6	2 of 186	Last date and time for submission of bid	Looking at the complexity of the bid and the fact that vendor will have to partner/sub-contract with other vendors/suppliers, we request an extension for submission of the bid by at least 3 weeks.	No Extension is possible. Bid due date and time will be as per tender condition.
2.	Section II / ITB / 14	13 of 186	Bid Security	Is the Bid Security and Contract Performance Guarantee mandatory? Can they be waived? Are there any clauses which GAIL would like to recommend for the contract under which they can be waived?	Yes, Bid Security & CPBG are Mandatory. Refer Clause No. 14.9 and 38.3 for waiver.
3.	Section II / ITB / 14.3 & 14.5	13 of 186	Bid Security	The bid security shall be valid for two (02) months beyond the validity of the bid as specified in Clause 12.1 of ITB. - Is it clause 12.1 or clause 13.1 of ITB?	Clause 13.1 of ITB
4.	Section II / ITB / 18	15 of 186	E-Payment	Is e-payment mandatory?	Yes
5.	Section II / ITB / 30	18 of 186	Conversion to Single Currency	If the Bidder is a foreign company, will the foreign currency amounts adjusted to bring it in line with the INR amount prevailing based on the Bills selling exchange rate published by SBI, 1 day prior to the price bid opening date?	Yes. However, no variation in Foreign Exchange rate is allowed.
6.	Section II / ITB / 37	20 of 186	Notification of Award	The notification of award / Fax of Intent will constitute the formation of the Contract. Ambiguous statement. Please clarify.	FOI Will Constitute the formation of the contract.
7.	Section II / ITB / 37.3	20 of 186	Notification of Award	Is there any other contract document other than 'Proforma for Contract Agreement' for execution, post the LOI is issued to the winning bidder?	Tender Condition Prevail
8.	Section II / ITB / 38.1	20 of 186	Performance Guarantee	Are the 15 days period, 15 'working' days? It may be difficult to get a guarantee processed so soon. (The Bid Security may be forfeited in case this time period is not adhered)	"15 Days means", 15 Calendar days
9.	Section III A / GCC – Goods	25 of 186	Scope of Contract	Is the Scope of the CONTRACT expected to be different from the one shared now as Technical specifications?	No
10.	Section III A / GCC – Goods	28 of 186	Performance Guarantee	Please confirm that the Performance guarantee expected to be valid only till the 90 days post warranty / guarantee period and not for the AMC term of 5 years.	Bidder's understanding is correct.
11.	Section III A / GCC – Goods	42 of 186	Books and Record	Fixed price (lump sum or unit price) Contract will not be subject to audit as to cost except for cost reimbursable items, such as escalation and termination	Bidder's understanding is correct

				claims, transportation and comparable requirements. 'Presumed that this section will apply since this is a fixed price contract?'	
12.				Whether GAIL GAS will provide necessary support in order to arrange documentation for getting approvals from local authorities for temporary / permanent access roads / water / power supply etc?	GAIL GAS Will only assist to the Seller / Contractor but the responsibility of getting approval lies with the bidder.
13.	Section III B / GCC – Works	97 of 186	Payment of contractor's bill	Clarity required on this section: In general payment of final bill shall be made to CONTRACTOR within 60 days of the submission of bill on joint measurements, after completion of all the obligations under the CONTRACT.	Refer Section V – Payment Terms.
14.	Section V / Payment Terms	126 of 186		We request GAIL GAS to revisit and modify the current Payment Terms, As per current T&C, vendor doesn't get paid till supplies are delivered and accepted at the project site for supplies. Similarly for Installation, Integration, Testing & Commissioning. We request some advance payment at the time of signing of the contract.	Tender Condition Prevail
15.	Section V / Payment Terms	126 of 186	Payment Terms	By Progressive payments does GAIL GAS mean that the Contractor can suggest % due during the project duration?	No, Progressively means bidder can submit their invoice regularly with in Contractual Delivery period after delivery of materials.
16.	Attachment – I / Forms and Format	144 & 145 of 186	Form F – 9	Will the format of bank guarantee be changed if the banks don't agree with any of the contents as penal interest of 18% etc may not be agreed by banks?	No
17.				We understand that- 1) GAIL takes CETVAT & VAT credit & will need CENVATABLE documents. 2) if CENVAT is taken by GAIL then Excise, CVD & VAT will not be cost to GAIL hence should not be taken for price comparison.	Tender Condition Prevail.
18.				Please confirm whether Price basis to be declared as FOT Dispatch Point. All other taxes should be extra at actual.	Tender Condition Prevail
19.				Please confirm whether GAIL takes VAT credit. VAT will be paid by customer.	No, VAT will be paid by Seller / contractor.
20.				Please confirm that CIF declared is only for considering statutory variation in customs duty.	Yes
21.	Section V / Payment Terms	126 of 186	Payment Terms	We propose advance of 10%, 80% against supply, 10% against I&C. I&C payment shall be paid (in 30 days from date of CDD of I&C), to seller / contractor if I&C is delayed for reason not	Tender Condition Prevail



**CITY GAS DISTRIBUTION PROJECT
TENDER FOR SCADA PACKAGE
REPLIES TO BIDDER'S QUERIES**



				attributable to seller / contractor.	
22.	Section IV / SCC Works / 14.0	123 of 186	Price Reduction Schedule	We propose maximum 5% on undelivered portion instead of total contract price.	Tender Condition Prevail
23.				Please confirm that Purchaser shall issue TDS certificate.	Yes
24.				We assume that "C" form will be issued by Purchaser.	C-Form (Concessional Form) will not be provided by GAIL GAS
25.	Section III B / GCC – Works	107 of 186	Arbitration	Arbitration-Arbitration shall be conducted by a panel of three Arbitrators. Each party shall appoint one Arbitrator and the said Arbitrators shall appoint a third Arbitrator to act as Umpire. Arbitration proceedings shall be conducted in English. Parties shall bear their own costs of Arbitration. Either party shall be entitled to seek urgent injunctive relief (s) from Courts at Mumbai among other legal remedies. The venue of arbitration shall be Mumbai	Tender Condition Prevail
26.	Section III B / GCC – Works	73 of 186	Patents and royalties	<p>Seller will defend any suit against the Buyer arising out of any actual or alleged patent or copyright infringement of a valid United States patent or copyright, to the extent based on the Product as delivered by Seller, and indemnify for any final judgment assessed against Buyer resulting from such suit provided that Buyer notifies Seller at such time as it is apprised of the third-party claim, and agrees to give sole and complete authority, information and assistance (at Seller's expense) for the defense and disposition of the claim. Seller will not be responsible for any compromise or settlement made without Seller's consent.</p> <p>Seller will have no obligation or liability with respect to: (a) Products provided pursuant to Buyer's designs, drawings or manufacturing specifications; (b) Products used other than for their ordinary purpose; (c) claims of infringement resulting from combining any Product furnished under this Agreement with any article not furnished by Seller; (d) use of other than the latest version of software Product released by Seller; or (e) any modification of the Product other than a modification by Seller.</p>	Tender Condition Prevail



				<p>Further, Buyer agrees to indemnify and defend Seller to the same extent and subject to the same restrictions as set forth above in Seller's obligations to Buyer for any suit against Seller based upon a claim of infringement resulting from (a), (b), (c), (d) or (e) of the preceding paragraph.</p> <p>Because Seller has exclusive control of resolving infringement claims under this Agreement, in no event will Seller be liable for Buyer's attorney fees or costs.</p> <p>If a claim is made or if Seller believes that a claim is likely, Seller may, at its option, and at its expense, procure for Buyer the right to continue using the Product, replace or modify the Product so that it becomes non-infringing; or accept return of the Product or terminate Buyer's license to use the infringing Product and grant Buyer a credit for the purchase price or license fee paid for that product, less a reasonable depreciation for use, damage, and obsolescence. Further, Seller may cease shipping infringing Products without being in breach of this Agreement.</p> <p>Any liability of Seller under this provision is subject to the "Limitations of Liability" provision of this Agreement</p>	
27.	Section III B / GCC – Works	92 of 186	Indemnity	<p>Each party will indemnify, defend, and hold the other party (including, without limitation, the other parties' employees) harmless against third party claims for personal injury, death or loss of or damage to property caused solely by its negligence in the performance of this Agreement. The indemnitor's obligations under this Clause are conditioned on receiving prompt notice of a claim from the indemnitee. The indemnitor will be entitled exclusively to control the defense. At the indemnitor's expense, the indemnitee will provide reasonable assistance in defense of the claim including, but not limited to, promptly furnishing the indemnitor with all relevant information within its possession or control. Because the indemnitor will provide the defense, the indemnitor will not be liable for any attorney fees or costs of indemnitee. The indemnitee may participate in the defense at its own cost. The indemnitee may not enter into any settlement, assume any obligation or</p>	Tender Condition Prevail

				make any concession without the prior written approval of indemnitor, which may not be unreasonably withheld. Liability under this "Indemnity" section is subject to the provisions of the "Limitations of Liability" section of this Agreement	
28.			Warranty	We request you to please put a cap on warranty with respect to supply date.	Tender Condition prevail
29.			Payment terms	We request you to please put a cap on payment terms with respect to supply date.	Tender Condition prevail
30.				Please clarify, whether Form C will be issued for this project.	Refer Sr. No. 24 above
31.	SCC – Works / Section IV / 12.0	122 of 186	Defect Liability Period	We request GGL to consider the Defect Liability Period as 18 months from the date of acceptance of the system by the owner or 24 months from the date of last supply whichever is earlier.	Tender Condition Prevail
32.	Section V / Payment Terms	126 of 186	Payment Terms	We request GGL to consider following payment terms: 1.1 Supplies 1.1.1 10% as mobilisation advance against submission of ABG. 1.1.2 70% will be paid progressively on receipt and acceptance of material at project site on submission of invoice in triplicate along with documents. 1.1.3 10% will be paid progressively on Installation as certified by EI-in-C / Consultant. 1.1.4 10% (balance) shall be paid within 30 days of handing over of the complete SCADA system on turn-key basis after successful commissioning and test run on submission of documents or within 90 days of last supply in case delay in commissioning is not attributable to bidder, whichever is earlier.	Tender Condition Prevail
33.	Attachment – I / Forms and Format / Form F – 9	145 of 186	Proforma for Bank Guarantee for Contract Performance Guarantee	We request GGL to consider one week time in place of 48 hours to complete the process.	Tender Condition Prevail
34.	Section III B / GCC – Works / 43.0	73 of 186	Patents and royalties	Under US export Law business with certain countries & certain application is not permitted and such an open condition can not be agreed upon. Gail Gas will be required to submit end user certificate confirming use of the product for stated purpose and at stated sites. Any re export shall be subject to prior clearance from the Seller due to US Export laws. As per annexure 1	Tender Condition Prevail

35.	Section III B / GCC – Works / 27.0	64 of 186	Price Reduction Schedule	Under the present excise law, reduction in invoice value is considered as evading the excise and ST/CST, which is punishable.	Tender Condition Prevail
36.	Section III B / GCC – Works / 45.2	75 of 186	Delays by Employer or His Authorised Agent	Delay adds to cost	Tender Condition Prevail
37.	Section III B / GCC – Works / 50.0	75 of 186	Transfer of Title	This is required as software's and Intellectual property are not sold they are given under the contract for the usages for specified application.	Tender Condition Prevail
38.	Attachment – I / Forms and Format / Form F – 9	145 of 186	Proforma for Bank Guarantee for Contract Performance Guarantee	48 Hours is not enough to process the BG payment , also interest clause makes the BG value open and not acceptable to our banker	Refer Sr. 33 Above
39.				“PBG shall be personal to GAIL and can not be assigned to third party”. Bidder has suggested to add the above sentence as new clause in PBG Format.	Tender Condition Prevail
40.	Volume II of II, Clause No 3.d, e, f	19,20 of 175	Integration of existing flow computer / EVC, compressors, odorizing units with proposed SCADA system	Please give details about the communication protocols envisaged for this integration.	MO0BUS protocol
41.	Volume II of II, Clause No 4h	20 of 175	3rd Party Interfacing	PLC and other third Party Engineering for successful interfacing shall not solely be in our scope	Tender conditions Prevails
42.	Volume II of II, Clause No 7.3.3	25 of 175	Mobile Cascade	Please give more details about this.	Cascade has no electronic instrument
43.	Volume II of II, Clause No 7.4.2	25 of 175	Fixed Cascade	Please give more details about this.	Cascade has no electronic instrument
44.	Volume II of II, Clause No 9.4	29 of 175	High level programming language(s) shall be provided to implement applications and logic programs on SCADA level.	The SCADA software is user friendly and has defined programming language. Please note that the source code compiler is not offered. All the functionality required for real time computation and database manipulation is provided as built in feature.	OK

45.	Volume II of II, Clause No 9.10	37 of 175	All software provided to meet the requirements of this specification shall be provided complete and without further or ongoing licensing fees.	HAIL shall offer complete software licences for this project requirement as per the scope of supply. However, any additional licences required which are not the part of this project or required for future shall have cost implication.	Tender Condition Prevail
46.	Clause 12.VIII	44 of 175	All cables between respective equipments, telecom cables, power supply & power distribution cables, earthing cables/strips etc covering the complete requirements of the tender.	We understand that Field signal cables and cable laying not in our scope. Pls clarify / confirm.	Tender Condition Prevail
47.	Clause 14.1	48 of 175	TFT LCD Monitor 21" for Operator Stations HMI	We propose 22" Monitors as OEM Standard	OK
48.	Clause 14.6f	59 of 175	RTU shall be capable of updating process parameters data and configuration data in its own built-in memory. In the event of failure or break of communication link, the RTU shall continue to scan all parameters and update its database..	Storage of parameters shall be in line with memory capacity of RTU.	Storage capacity shall be for minimum 2000 events.

49.	Volume II of II Clause 14.6e (i)	57 of 175	SCADA vendor shall assume full responsibility for obtaining the full protocol information, memory map, details of connectors etc. from the PLC based systems suppliers. Further necessary connectors (ensuring compatibility), interconnection, interfacing, engineering required for retrieval of the data from the PLC systems to make the link fully operational shall be in vendor's scope.	We request GAIL to provide necessary assistance for the same . PLC system supplier shall offer standard ModBus RTU protocol for communication. Any kind of modification/configuration on PLC system shall not be in HAIL scope.	WGI / Gail Gas will provide necessary assistance.
50.	Volume II of II Clause 14.8	71	WAN Router	Please confirm the Router interface & protocol requirement for connectivity with Fiber optic communication equipment	Tender Condition Prevail
51.	Volume II of II Clause 19.2	93 of 175	FAT	We recommend FAT and Integration of one of each Type of RTU with the SCADA system at works and not all RTUs. The remaining RTUs shall be despatched to site directly.	Tender conditions prevail. Details will be finalized during FAT procedure approval.
52.	Volume II of II, Clause No 19.8	96 of 175	Trial Run	Trial Run failure due to failure of 3rd party system shall not be our responsibility and the trial runs conducted thereafter shall not be at Honeywell cost and manpower.	Tender conditions prevail.
53.	Volume II of II, Clause 2.1	164 of 175	Processor Frequency - 2.93 GHz	Since Processor frequency specifications change frequently. Hence qualified Machines from Honeywell shall be offered	Processor Frequency equal or better is acceptable.

54.	Volume II of II, Clause 2.2	165 of 175	Processor Frequency - 2.93 GHz	Since Processor frequency specifications change frequently. Hence qualified Machines from APPS Vendor shall be offered	Processor Frequency equal or better is acceptable.
55.	Volume II of II, Clause 2.3	166 of 175	Processor Frequency - 2.93 GHz	Since Processor frequency specifications change frequently. Hence qualified Machines from APPS Vendor shall be offered	Processor Frequency equal or better is acceptable.
56.	Volume II of II, Clause 1.1	4 of 175		Please confirm the need of dot matrix printer (point 1.0, 2.0 and 3.0).	Tender condition prevail
57.	Volume II of II, Clause 4.0h	20 of 175		Is there any specific requirement regarding preferred protocol(s) for "Interface with local monitoring system like Flow Computer and third party system."?	Tender condition prevail
58.	Volume II of II, Clause 4.0h	20 of 175		Please provide the list and description of the third party systems to be interfaced with the SCADA application as part of this RFP, if any?	Tender conditions prevail
59.	Volume II of II, Clause 4.0p	21		Is LINUX considered as a UNIX Operating System?, we propose Linux instead of any other OS, being Stable and cost effective. If required ATOS can provide the references deployed by us with Linux	Tender condition prevail
60.	Volume II of II I, Clause 9.6.4	33 of 175		Please, confirm "Alarms shall be printed as they occur".	Tender condition prevail
61.	Volume II of II, Clause 9.8.1	36 of 175		Can you detail historical storage in tabular form? measurement type - number - frequency (1 min, 10 minute, hour, day) - storage duration (1 hour, 1 day, 365 days, etc) - archiving type (RT value, average, min, max, integrated, etc)	Tender condition prevail
62.	Volume II of II, Clause 9.9	36 of 175		Can we assume that the requirement for an antivirus software is only for servers or workstations running a Windows operating system?	Tender condition prevail
63.	Volume II of II, Clause No. 9.9	36 of 175		Common practices is to install central SCADA system and the attached operator workstations in a secure network (behind firewalls). Should we consider that the operator workstations will have access to the Internet?	Tender condition prevail
64.	Volume II of II, Clause No. 9.9	36 of 175		Antivirus Software - "In antivirus there should have emerging threats analyzer and blocker in milliseconds, so need not to wait for regular updates to arrive." - Kindly Clarify this point as AV can detect the new virus, when Definition file is updated as and when AV OEM releases.	AV database should be updated automatically as it released.
65.	Volume II of II, Clause	37 of 175		Could you confirm that "Windows Operating system security" deals with web based terminals only ?	Tender condition prevail



**CITY GAS DISTRIBUTION PROJECT
TENDER FOR SCADA PACKAGE
REPLIES TO BIDDER'S QUERIES**



	No. 9.11				
66.	Volume II of II, Clause No. 9.14	41 of 175		What are the equipment model using DF1 / Bells protocols?	No equipment with Bells protocols.
67.	Volume II of II, Clause No. 11.0	42 of 175		Do these requirements also apply to computer and network equipments installed in MCC, SMCC, and CCC? Or can we assume that the corresponding locations can accommodate equipments with less stringent requirements? Is it possible to have the list of sites where the requirements in section §11.0 do apply? Is it possible to have the requirements for the "safe" sites?	Tender condition prevail
68.	Volume II of II, Clause No. 13.2a	47 of 175		"Owner/Engineer reserves the right to modify, revise, and alter the specifications of equipments and systems prior to acceptance of any offer." Unstable requirements are not compatible with fixed price and schedule. We assume that new or modified requirements will result in the bidder modifying his proposal and price accordingly. Please confirm. New or modified requirements could also impact the schedule. Please confirm.	Tender condition prevail
69.	Volume II of II, Clause No. 13.2a	47 of 175		"System requirements may be modified after selection of successful vendor to meet operational requirements not envisaged at the time of selection of Vendor." We assume that new or modified requirements will result in the bidder modifying his proposal and price accordingly. Please confirm. New or modified requirements could also impact the schedule. Please confirm.	Tender condition prevail
70.	Volume II of II Technical, Clause No. 13.2b	47 of 175		"Owner/Engineer reserves the right to modify the system requirements till such time the system is ready for final acceptance." Unstable requirements are not compatible with fixed price and schedule. We assume that new or modified requirements will result in the bidder modifying his proposal and price accordingly. Please confirm. New or modified requirements could also impact the schedule. Please confirm.	Tender condition prevail
71.	Volume II of II, Clause No. 13.2b	47 of 175		"Vendor shall undertake to meet the revised requirements without any financial implication to the Owner provided no additional equipments are required." In order to accommodate changing requirements, we can propose a pre-agreed volume of changes that would be included in the contract scope.	Tender condition prevail



**CITY GAS DISTRIBUTION PROJECT
TENDER FOR SCADA PACKAGE
REPLIES TO BIDDER'S QUERIES**



				Any additional changes to the requirement will follow a process of change management impacting the schedule and the cost of the project. Please confirm if this is acceptable to Gail Gas.	
72.	Volume II of II, Clause No. 13.2e	47 of 175		As a part of the implementation project, we provide the functional specification documentation, SCADA user/operator manuals/documentation and also the RTU specifications/user manuals. Kindly confirm if our understanding is correct or else kindly elaborate the requirements.	PTR of the Quoted system required.
73.	Volume II of II, Clause No. 14.1	48 of 175		Do you accept Linux and/or a Unix flavor different from SUN Solaris (the SCADA server specification -Unix wise- appears tailored for SUN Solaris)? Can we propose different hardware that can accommodate different Unix flavor and deliver the same performance?	Tender condition prevail
74.	Volume II of II, Clause No. 14.2	49 of 175		We can read both "Historical database shall be RDBMS based." (see §14.2 p.49) and "The database shall be based on common industry based products such as Oracle and Sybase." (see § 9.5.2 p.30). Can we recommend license-free common industry RDBMS?	Tender condition prevail
75.	Volume II of II, Clause No. 14.6e	55 – 56 of 175		12th bullet / 4.a. Should we understand: 4. Protocols supported by RTU shall be: a. SCADA/RTU: i. DNP3.0 on serial port or Ethernet port ii. IEC – 60870-5 on serial port (101) or Ethernet port (104) iii. TCP/IP	Tender condition prevail
76.	Volume II of II, Clause No. 14.7	70 of 175		"HMI's shall be Microsoft Windows based": could you clarify this requirement? How should be interpret it in the case of a Unix/Linux based server?	Tender condition prevail
77.	Volume II of II, Clause No. 15.0	76 of 175		We understand thus the figures in 3rd column ("System capacity requirement") correspond to the SCADA capacity needed to accommodate the current scope (MCC, SMCC, and 4 CCC) plus all additional 30 cities. Could you confirm?	Bidder's understanding is correct.
78.	Volume II of II, Clause No. 15.0	76 of 175		We understand that the figures in the last column ("To be configured while execution") correspond to the scope of the present RFP and that the DB to be delivered should be sized accordingly (and not according to 3rd column). Could you please confirm?	Data Base shall have specified capacity (3 rd Column) while execution shall be done for 4 cities as per fourth column.
79.	Volume II of II, Clause	78 of 175		Can you confirm that the requested 99.98% availability is for the Level 2 SCADA only (without the RTU and the	Tender condition prevail



**CITY GAS DISTRIBUTION PROJECT
TENDER FOR SCADA PACKAGE
REPLIES TO BIDDER'S QUERIES**



	No. 18.1			communication network) and not for the entire end-to-end solution? Note that an end-to-end availability of 99.98% is not achievable with an RTU MTTR of 8 hrs and non redundant RTUs.	
80.	Volume II of II, Clause No. 18.1	78 of 175		For the 99.98% availability should we consider MCC, SMCC, and the 4 CCC as separated systems (with different availability) or as a single system?	Tender condition prevail
81.	Volume II of II, Clause No. 18.11	83 of 175		In reference to section §15.0 p.77, we understand that the HMI document should cover all the displays- can you please confirm the number of graphics and reports?	Tender condition prevail
82.	Volume II of II, Clause No. 23.0b	101 of 175		We assume that the vendor can utilize for the maintenance support services the mandatory spares (Lot 9.0) and O&M optional spares (Lot 10.0) procured by the customer. Therefore the 23.0.b requirement is about the "supply of additional maintenance spares". Please confirm.	Tender condition prevail
83.	Volume II of II, Clause No. 1.1.2.f	144 of 175		Please clarify if the 'Performance Guarantee Certificate' has to be provided and signed by the bidder or by the SCADA excellence centre, knowing that the Contract Performance Guarantee will be provided by the bidder (see Vol I of II -Commercial - §38.1 p.20).	Contract Performance Guarantee will be provided by the bidder as per Vol I of II – Commercial.
84.	Volume II of II, Clause No. 1.1.3	144 of 175		We couldn't find the requirements for any APPS sub-system. Why should we have selected an APPS sub-vendor for this bid? Please explain.	APPS subsystem is not part of SCADA Package.
85.	Volume II of II, Clause No. Perf. VIII	156 of 175		Item 3.c: In case Bidder (principal) is not the SCADA excellence center, what is the importance of the Bidder being an Indian subsidiary of the SCADA excellence centre? What if the Bidder (principal) and the SCADA excellence centre are both in the same group and both fully controlled subsidiaries? Will it make any difference during the bid evaluation?	Tender condition prevail
86.	Volume II of II, Clause No. Perf. VIII	156 of 175		Item 3.d: could you precise "own SCADA software"? What if the SCADA excellence center does not own the full IPR for some underlying pieces of software (e.g. libraries) within the SCADA solution? What about the foundation software layer above the OS and RDBMS (like message queue, MOTIF graphical interface, etc)?	Tender condition prevail
87.	Volume II of II, Clause No. 3.d	19 of 175		We request Gail Gas to confirm availability of RS232 port with active/configured/working MODBUS RTU protocol on flow computers/EVC.	Tender condition prevail

				Also, upon award of contract Gail Gas needs to provide working RS232 port on flow computers/EVC with MODBUS map	
88.	Volume II of II, Clause No. 3.d	19 of 175		We request Gail Gas to confirm availability of RS232 port with active/configured/working MODBUS RTU protocol on odorizer. Also, upon award of contract Gail Gas needs to provide working RS232 port on odorizer with MODBUS map	Tender condition prevail
89.	Volume II of II, Clause No. 3.e	19 of 175		We request Gail Gas to confirm availability of RS232 port with active/configured/working MODBUS RTU protocol on Siemens S7 PLC. Also, upon award of contract Gail Gas needs to provide working RS232 port on S7 PLC with MODBUS map	Tender condition prevail
90.	Volume II of II, Clause No. 3.e	19 of 175		We request Gail Gas to confirm availability of RS232 port with active/configured/working MODBUS RTU protocol on dispensers. Also, upon award of contract Gail Gas needs to provide working RS232 port on dispensers with MODBUS map	Tender condition prevail
91.	Volume II of II, Clause No. 3.f	20 of 175		We request Gail Gas to confirm availability of RS232 port with active/configured/working MODBUS RTU protocol on flow computers/EVC. Also, upon award of contract Gail Gas needs to provide working RS232 port on flow computers/EVC with MODBUS map	Tender condition prevail
92.	Volume II of II, Clause No. 4-note #4			We are authorized representative for RAS/Emerson and hence we request Gail Gas to accept integrated RTU's(manufactured by RAS/Emerson) with cabinets(integrated by Apex)	Tender condition prevail
93.	Volume II of II, Clause No. 5	21 of 175		Does Gail Gas intend that we need to procure and buy Lease line and GPRS SIM cards for required communications. Please note that this might not	Tender condition prevail

				be practical/possible as documentary evidence for application will be required for geographical locations . Gail Gas to advise accordingly	
94.	Volume II of II, Clause No. 9.6.2 & 9.7	31 of 175		Does Gail Gas intend that CCC,CGS, Flow / computer / EVC nodes be represented in hierarchical tree structure with Google map identification?	Tender condition prevail
95.	Volume II of II, Clause No. 14.6.f	56 of 175		We request Gail Gas to confirm/accept CPU clock speed as manufacturer's standard/specifications	Tender condition prevail
96.	Volume II of II, Clause No. 14.6.f	56 of 175		Gail Gas to clarify on requirement of "proper enclosure" for portable diagnostic test unit – what type of enclosed is envisaged?	Tender condition prevail
97.	Volume II of II, Clause No. 14.15	75 of 175		We request Gail Gas to clarify on requirement of separate power distribution cabinet	Power Distribution shall be as per Vendors scheme subject to WGI / GGI approval during detail engineering.
98.	Volume II of II, Clause No. 17.0	77 of 175		We request Gail Gas to accept/consider 'turnaround time' for the rectification of problem of 48 hrs.	Tender condition prevail
99.	Volume II of II, Clause No. 18.2	78 of 175		We request Gail Gas to clarify "telemetry system with error detection facility"	Tender condition prevail
100.	Volume II of II, Clause No. 18.4	79 of 175		Do we need to consider additional Digital Inputs (DI) for extension of summary alarms?	Tender condition prevail
101.	Volume II of II, Clause No. 22.0	99 of 175		RTU IO: We request Gail Gas to confirm/clarify on nos of Input / Output	Tender condition prevail
102.	Volume II of II Technical , Clause No. 22.0	99 of 175		We request Gail Gas to re-clarify / re-work on exact requirement of Serial Ports. Will Gail Gas accept Terminal servers to meet serial port requirements?	RTU shall have: Serial Ports – 12 Nos. (6 each RS 232 & RS 485)
103.	Vol I – 2.2.1 & Vol II- 1.1.1 + 1.1.2			As mentioned earlier, we are authorized representatives of RAS/Emerson. We have successfully executed SCADA projects as per BEC criterion on our own with expert assistance from RAS / Emerson SCADA excellence centre. Will Gail Gas accept PO copies of SCADA projects done by RAS / Emerson's SCADA excellence centre (formerly Bristol Babcock now Remote	Tender condition prevail

				Automation Solutions) for compliance to BEC requirements along with PO copies of projects executed by us ?	
104.	Volume II of II, Clause No. 14.1 & PERFORMA - XII, Cl. 2.1	47, 164 of 175	SCADA servers - For UNIX: 64 bits RISC based high performance processor (Min. 4)	Since we are proposing 64 bit RISC based SUN machines, 2 processor per server will take care of entire project requirement.	Minimum 2 is acceptable
105.	Volume II of II, Clause No. 2.3	166 of 175	HMI workstation specification	Standard HMI Workstation machines are available in the IT market with Single power supply. As per configuration, 2 HMIs are supplied at control center at MCC & CCC, hence redundancy available.	Tender condition prevail
106.	Volume II of II, Clause No. D (Page 19) & Cl. B (Page 168)	19 & 168 of 175	Scope of Supply at CGS - Supply, installation and commissioning of non-redundant RTU. Redundant Processor card mentioned for RTUs	Kindly clarify whether all RTUs are to be supplied with Dual CPU & Dual P.S for each CNG Station.	Data Concentrators at CCC are in redundant configuration; other RTUs are non-redundant.
107.	Clause 5.0, Para 2	21 of 175		For the RTU, it has been specified as redundant GPRS and OFC connectivity. Please clarify, whether we need to give 2 GPRS modems per RTU and also Fibre optic connectivity.	RTUs will have one OFC and one GPRS connectivity
108.	Environmental Specs	44 of 175		Spec requirement : Temperature 0 – 48 deg C and extended temperature + 55 deg C Please note that the above environmental specs cannot be met by most of the MCC and SMCC equipments like Server, PC, Switches, Routers, LCD display etc. Also, the vendors whose name has been specified as approved makes of these equipments, do not manufacture the equipment in accordance with the environmental specs specified. Please confirm the alternate makes of equipment manufacturers, who comply to the environmental specs requirements.	For MCC and SMCC equipments, manufacturer's environmental specifications are acceptable

109.	Router ports	72 of 175		<p>Router WAN ports have been specified as G.703. Please note that G.703 does not provide Ethernet ports. Whereas, the specification calls for IP / Ethernet based system.</p> <p>As per our design, we will quote for Ethernet ports in router instead of G.703 ports.</p> <p>It may also be noted, that for future fiber optic connectivity over Ethernet, G.703 ports cannot be used, due to port configuration & speed limitation.</p>	OK
110.		58, 168 of 175		<p>Page 58 specified Single 32 bit CPU. Page 168/175 specifies redundant processors. Please clarify whether the RTUs need to have single CPU or redundant CPU</p>	RTUs are non-redundant configuration. Data concentrators in CCC shall be in redundant configuration.
111.	Mandatory spares	98 of 175		<p>Please clarify whether mandatory spares are needed per site or as a whole for the project.</p>	Mandatory spares shall be calculated individually for each site/city.
112.	3.0 a 3.0 b	16 of 175	Scope of Supply of MCC & SMCC.	<p>We request GGL to clarify the scope of work with respect to SCADA Server, HMI, Engg Station, GPS, Web Server and any other items of MCC & GCC.</p>	Scope of work is same as explained in the tender package.
113.	4.0 o	21 of 175	Time synchronization of all control centers, RTUs, PLC and FCs.	<p>We request GGL to confirm that FC will have the functionality of Time Synchronization.</p>	Tender conditions prevail. FC details will be available during detail engineering.
114.	6.0 d	22 of 175	<p>Separate servers for independent processing and interfaced through a dual redundant LAN network shall be provided for:</p> <ul style="list-style-type: none"> • SCADA Database Servers • Printer Server (if required) • Video Wall Servers • Web Servers 	<p>As standard practice SCADA Database Server are part of SCADA Server. We request GGL to review the need of separate SCADA Database servers.</p>	Tender condition prevail.



**CITY GAS DISTRIBUTION PROJECT
TENDER FOR SCADA PACKAGE
REPLIES TO BIDDER'S QUERIES**



115.	8.1	27 of 175	Data concentrator of CCC will be connected to SCADA system at MCC through dedicated 2 MBPS links (Leased Line)	Considering the data size of current and future requirements of complete city with growing customer base, we request GGL to consider 10MBPS links between MCC & CCC.	It will be finalized during detail engineering.
116.	9.10	37 of 175	Software Licensing and Revision Upgrades	We wish to inform that SCADA OEM have a requirement of EULA signed directly between End User and OEM.	In such situation EULA is to be submitted along with bid. If EULA is not acceptable bid is liable to be rejected.
117.	14.6 0, p, q, r, s, t	66, 67, 68 of 175	IO Cards of RTU	Our understanding is as following, Request to confirm: 1) DI Minimum Channel density is 32 points. 2) DO Minimum 12 Relay Contacts points. 3) Pulse Input Module: Not Defined 4) AI Minimum 16 points 5) AO Minimum 4 Points	Vendor understanding is correct.
118.	14.8	71 of 175	WAN Router	We request GGL to review the need of G.703 ports as the complete SCADA system is IP based.	Tender condition prevail
119.	23.0	101 of 175	Post Warranty onsite maintenance support	Considering the size of SCADA system, we propose resident engineer placement at MCC.	Tender condition prevail
120.			APPS System	At many places in specifications we find references of APPS system. As per our understanding APPS system is not required.	Ignore references to APPS.