



M/s Andhra Pradesh Gas Distribution Corporation Ltd. (APGDC)

A Joint Venture Company between GAIL Gas Limited (a wholly owned subsidiary of GAIL (India) Ltd.), a Central Government Public Sector Enterprise (PSU) and APGIC, an Andhra Pradesh State Government Public Sector Enterprise

KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-I)

**CORRIGENDUM #1
FOR**

SCADA SYSTEM

**OPEN INTERNATIONAL
COMPETITIVE BIDDING**

E-Tender ID 140045

Bid Document No.: 05/51/23QC/APGDC/094



PREPARED BY **SUED BY**
MECON LIMITED
(A Govt. of India Undertaking)
Delhi, India



Andhra Pradesh Gas Distribution Corporation Ltd.

CORRIGENDUM #1
For
SCADA SYSTEM
For
KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1)
Tender No. 05/51/23QC/APGDC/094 (E Tender No. 140045)



MECON LIMITED

Date: 25.09.2017

Sl. No.	Description	Volume	Page No.	Clause / Para / Section	Amendment / Addition / Modification / Deletion	
1	PROFORMA OF INDEMNITY BOND FOR SUPPLY OF MATERIALS BY EMPLOYER	I	120	F-37 (New Format)	Addition	PROFORMA OF INDEMNITY BOND FOR SUPPLY OF MATERIALS BY EMPLOYER attached herewith as Annexure-I stands included as F-37.
2	Bank Details of APGDC	I	29	15.4	Addition	Details of APGDC bank Account (second bank), as given below, stands included at referred clause: 1. Banker: Andhra Bank 2. Bank Account No.: 005711100006357 3. Bank Address: Technocrafts Industrial Estate Buildings, Balanagar, Hyderabad - 500 0037 4. IFSC CODE: ANDB0000057
3	Abnormally High Rated (AHR) Items	I	223	51.0 (New Clause)	Addition	Following clause stands included as Clause no. 51.0 of SCC, Vol.-I: "AHR ITEMS In item rate contract where the quoted rates for the items exceed 50% of the estimate rates, such items will be considered as Abnormally High Rates (AHR) items and payment of AHR items beyond the SOR stipulated quantities shall be made at the lowest amongst the following rates: I) Rates as per SOR, quoted by the Contractor/Bidder. II) Rate of the item, which shall be derived as follows: a. Based on rates of Machine and labour as available from the contract (which includes contractor's supervision, profit, overheads and other expenses). b. In case rates are not available in the contract, rates will be calculated based on prevailing market rates of machine, material and labour plus 15% to cover contractor's supervision profit, overhead & other expenses."
4	CIF Format	I	-	Section-V	Addition	CIF format for DETAILS OF BUILT-IN-CIF VALUE, IMPORT CONTENT & CUSTOM DUTY (for Indian Bidders) enclosed herewith as Annexure-II stands included to Schedule of Rates.
5	Local Content	I	-	Section-V	Addition	Format for calculation of local content (to be submitted as per sl. no. 6.1 of clause no. 64.0 of ITB, Vol.-I) enclosed herewith as Annexure-III stands included to Schedule of Rates.
6	Bid Security	I	28	15.4	Modification	The Bid Security shall be payable at Hyderabad. Accordingly, "payable at Noida" to be read as "payable at Hyderabad".
7	Taxes & Duties	I	28	12.3	Modification	Referred clause stands modified to the following extent: "Contractual delivery period" to be read as "Contractual Delivery/ Completion Period"
8	Origin of Goods	I	209	24. of SCC	Modification	The referred clause (Origin of Goods) shall be applicable in case of foreign supplies only.
9	Reply to Pre Bid Queries	Clarification				The reply of pre bid queries is attached as Annexure-IV with this Corrigendum .
10	Date and time for submission of bid	I of II	9	9.6	Modification	Date and time for submission of bid for subject tender stands modified to: "Upto 1400 hrs. (IST) on 10.10.2017" Due Date & Time stated in cut-out slip shall stand modified to the above extent.
11	Date and time of opening of Un-priced Bids	I of II	9	9.7	Modification	Date and time of opening of Un-priced Bids for subject tender stands modified to: "At 1500 hrs. (IST) on 10.10.2017"
All other terms and condition shall remain unchanged.						

F-37

**PROFORMA OF INDEMNITY BOND FOR SUPPLY OF MATERIALS BY
EMPLOYER**

(To be executed on non-judicial stamped paper of appropriate value)

WHEREAS ANDHRA PRADESH GAS DISTRIBUTION CORPORATION LTD. (hereinafter referred to as APGDC) which expression shall unless repugnant to the context includes their legal representatives, successors and assigns having their registered office at "Parisrama Bhavan", 2nd Floor, #5-9-58/B, Fateh Maidan Road, Basheerbagh, Hyderabad - 500 004, Andhra Pradesh, India has entered into a CONTRACT with _____ (hereinafter referred to as the CONTRACTOR which expression shall unless repugnant to the context include their legal representatives, successors and assigns) for _____ on the terms and conditions as set out, inter-alia, in the CONTRACT No..... Dated..... and various documents forming part thereof hereinafter collectively referred to as the "CONTRACT" which expression shall include all amendments, modifications and/or variations thereto.

AND WHEREAS

- i) APGDC has agreed to supply to the CONTRACTOR, equipment, plants and materials (finished, semi-finished and raw) for the purpose of EXECUTION of the said CONTRACT by the CONTRACTOR (the equipment, plants and materials to be supplied by APGDC to the CONTRACTOR, hereinafter for the sake of brevity referred to as the "said materials") and pending execution by the CONTRACTOR of the CONTRACT incorporating the said materials, the said materials shall be under the custody and charge of the CONTRACTOR and shall be kept, stored, altered, worked upon and/or fabricated at the sole risk and expense of the CONTRACTOR.
- ii) As a pre-condition to the supply of the said materials by APGDC to the CONTRACTOR, APGDC has required the CONTRACTOR to furnish to APGDC an Indemnity Bond in the manner and upon terms and conditions hereinafter indicated.

NOW, THEREFORE, in consideration of the premises aforesaid the CONTRACTOR hereby irrevocably and unconditionally undertakes to indemnify and keep indemnified APGDC from and against all loss, damage and destruction (inclusive but not limited to any or all loss or damage or destruction to or of the said materials or any item or part thereof by theft, pilferage, fire, flood, storm, tempest, lightning, explosion, storage, chemical or physical action or reaction, binding,

warping, exposure, rusting, faulty workmanship, faulty fabrication, or faulty method or technique of fabrication, strike, riot, civil commotion, or other act or omission or commission whatsoever within or beyond the control of the CONTRACTOR, misuse and misappropriation (inclusive but not limited to the misuse or misappropriation by the CONTRACTOR and the Contractor's servants and/or agents) whatsoever to, or of in the said materials or any part of them thereof from the date that the same or relative part of item thereof was supplied to the CONTRACTOR upto and until the date of return to APGDC of the said materials or relative part of item thereof or completed fabricated works(s) incorporating the said material and undertake to pay to APGDC forthwith on demand in writing without protest or demur the value as specified by APGDC of the said material or item or part thereof, lost, damaged, destroyed, misused and/or misappropriated, as the case may be or, together with APGDC'S costs and expenses (inclusive of but not limited to handling, transportation, cartage, insurance, freight, packing and inspection costs/or expenses upto) and aggregate limit of Rs. _____ (Rupees _____).

AND THE CONTRACTOR hereby agrees with APGDC that:

- i) This Indemnity/Undertaking shall be a continuing Indemnity/ Undertaking and shall remain valid and irrevocable for all claims of APGDC arising hereunder upto and until the midnight of _____. However, if the CONTRACT for which this Indemnity/Undertaking is given is not completed by this date, the CONTRACTOR hereby agrees to extend the Indemnity/Undertaking till such time as is required to fulfil the CONTRACT.
- ii) This Indemnity/Undertaking shall not be determined by any change in constitution or upon insolvency of the CONTRACTOR but shall be in all respects and for all purposes be binding and operative until payment of all moneys payable to APGDC in terms of hereof.
- iii) The mere statement of allegation made by or on behalf of APGDC in any notice or demand or other writing addressed to the CONTRACTOR as to any of the said material or item or part thereof having been lost , damaged, destroyed, misused or misappropriated while in the custody of the CONTRACTOR and/or prior to completion of the completed fabricated work(s) and delivery to job site thereof incorporating the said materials shall be conclusive of the factum of the said material or item or part thereof having

been supplied to the CONTRACTOR and/or the loss, damage, destruction, misuse or misappropriation thereof, as the case may be, while in the custody of the CONTRACTOR and/or prior to the completion of the completed fabricated work(s) and delivery to job site thereof incorporating the said materials without necessity on the part of APGDC to produce any documentary proof or other evidence whatsoever in support of this.

- iv) The amount stated in any notice of demand addressed by APGDC to the CONTRACTOR as to the value of such said materials lost, damaged, destroyed, misused or misappropriated, inclusive relative to the costs and expenses incurred by APGDC in connection therewith shall be conclusive of the value of such said materials and the said cost and expenses as also of the amount liable to be paid to APGDC to produce any voucher, bill or other documentation or evidence whatsoever in support thereof and such amount shall be paid without any demur and on demand and no dispute shall be raised concerning the same.

The undersigned has full power to execute this Indemnity Bond on behalf of the CONTRACTOR under the Power of Attorney dated_____.

(SIGNED BY COMPETENT AUTHORITY)

Place:

Dated:

Official seal of the CONTRACTOR

FORMAT - "CIF/CD"

**PRICE SCHEDULE FOR INDIAN BIDDERS
DETAILS OF BUILT-IN-CIF VALUE, IMPORT CONTENT & CUSTOM DUTY**

NAME OF BIDDER :
ITEM : Scada System
BID DOCUMENT NO. : 05/51/23QC/APGDC/094

**DETAILS OF BUILT-IN-CIF VALUE OF IMPORT CONTENT, ITEM DETAILS OF IMPORT CONTENT AND RATES OF IMPORTS DUTY CONSIDERED AND INCLUDED
IN QUOTED FOT DESPATCH POINT PRICES UNDER PRICE SCHEDULE**

DESCRIPTION			CIF value of Import Content included in quoted supply prices (Currency_____)	RATE OF CUSTOM DUTY INCLUDED IN QUOTED FOT DESPATCH POINT PRICES FOR SUPPLY OF SOR ITEM				
Item Sl. No. as per MR	Description of Imported Items	Qty. of Imported Items Required per No. of Item as per SOR (Unit____) *(1)		CUSTOM TARRIF NO.	BASIC CUSTOMS DUTY (%)	CESS (%)	IGST(%)	TOTAL CUSTOM DUTY (%)
	1	2	3	4	5	7	8	9
T.S.1.1	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.1.2	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.1.3	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.2.1	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.2.2	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.2.3	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.2.4	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.3	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.4.1	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.4.2	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.5.1	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.5.2	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.5.3	i) _____	i) _____						
	ii) _____	ii) _____						

NAME OF BIDDER :
ITEM : **Scada System**

T.S.5.4	i) _____	i) _____						
	ii) _____	ii) _____						
T.S.6	i) _____	i) _____						
	ii) _____	ii) _____						

NOTE: *(1) Bidder shall indicate CIF value against each quoted item and give description of goods along with its quantities (UNIT TO BE SPECIFIED BY THE BIDDER) to be imported in the above Format
(2) Bidder has to ensure that currency quoted in this format shall be same with the currency quoted in the Main Price schedule format.

BIDDER'S SIGNATURE:
COMPANY'S NAME:
SEAL:

CALCULATION OF LOCAL CONTENT

Name of Bidder

Package : SCADA System

BID DOC NO. :05/51/23QC/APGDC/094

Cost (Domestic components) a	Cost (imported components) b	Cost Total Rs/US\$ c=a+b	% Domestic Components d=a/c



Note :

$$\% \text{ LC} = \frac{\text{Total cost} - \text{Total imported component cost} \times 100}{\text{Total cost}}$$

$$\% \text{ LC} = \frac{\text{Total domestic component cost} \times 100}{\text{Total cost}}$$

Note : In case bidder quotes for more than one item, calculation of local content shall be given separately for each item. **-Not Applicable for this tender.**

The currency quoted by bidder is other than Indian Rupee, exchange rate prevailing on the date of NIT shall be considered for the calculation of Local Content.

 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
1			Clause no 4.0, Page no 5 of 230	Completion Period for Supply i.e. 06 months from the date of FOA	<p>We request M/s Mecon to accept that 6 months of supply would be considered from the date of data sheet approval/manufacturing clearance or assign some time for data sheet approval from M/s Mecon from the date of submission, we propose 15 days.</p> <p>In many projects we have experienced that data approval from Owner/Consultant itself takes about 3-4 months from the date of FOA, due to this we would not be able to start the engineering/manufacturing etc. and overall delivery schedule is not achieved. This also lead to LD/PRS disputes later during the project execution.</p>	Tender Conditions prevail.
2			Warranty/Defect Liability period		We understand that warranty shall be 24 months from the date of installation or 28 months from the date of supply. Kindly confirm acceptance.	Bidder Understanding is correct. Tender condition prevail.
3			Payment Term		We request m/s Mecon to kindly accept that in case of delay from owner site in completeing the last three activies which are related to site work, these last three milestone of supply payment terms i.e (5 % + 10 % +10 %) shall be released against submission of bank Guarantee.	Tender conditions prevail. However as discussed in prebid meeting; decision will be taken during execution of work if project delay .
4			Clause 27	Price reduction	Instead of price reduction we request for LD, Applicable, Total contract price will be reduced by ½% of the total contract price per complete week of delay or part thereof subject to a max of 5% of total contract Price.	Tender Conditions prevail.
5			Clause 80.3	Limitation of liability	Shall be limited to 100% of Agreement / contract value.	Refer Clause no. 6.0 of SCC, Vol.-I. Tender Conditions prevail.
6			Clause 87	Schedule of rates	prices shall be firm and to be inclusive and cover all costs, expenses and liabilities until completion and handing over the work. Schedule of rates to cover construction equipment's, material and labor etc. also cover royalties, rents and claims, should cover taxes and duties.	Tender Conditions prevail.
7			Clause 88	Billing procedure	Standard measurement sheets supplied by employer/consultant for scrutiny and passing, Engineer in charge shall pass the bills after carrying out the checks and within 7 days send the same to employer to effect payment to contractor.	Tender Conditions prevail.
8			Clause 98	Taxes And duties	Contractor Scope IF GST IS IMPLEMENTED, ALL TAXES WILL BE DEALT ACCORDINGLY	Please refer clause no. 12 of ITB, Vol.-I for clauses related to Taxes & duties including GST.



Andhra Pradesh Gas Distribution Corporation Ltd.

SCADA SYSTEM
FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1)
 Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045)
 Reply to Pre-Bid Queries

MECON LIMITED

S.N.	Section	Document no	Cluase No	Subject	Vendor's Query	APGDC/ MECON's Reply
9			Clause 100	Statutory variations	Price quoted are inclusive of excise duty and sales tax applicable on finished product. Any statutory variation on ED and ST on finished product during CDD shall be to Employers account for which the documentary evidence to be provided. However, any increase beyond CDD will be borne by contractor and any decrease will be passed ON to GAIL.	Please refer clause no. 12 of ITB, Vol.-I for clauses related to Taxes & duties including GST.
10			Clause 1.0	Terms of Payment for supply	We request you to kindly accept the following payment terms a.10% advance against ABG. b.10% against drawing approval within 4 weeks from the date of PO. c.60% against readiness of material with proof of document. d.10% after receipt of material within 15days.	Tender Conditions prevail.
11			Clause 1.3	Terms of Payment for Services	We request you to kindly accept the following payment terms a. 20% Advance against site mobilization. b. 80% on prorata basis against completion of installation through Letter of Credit for 30 days, Letter of Credit to be opened along with PO from a nationalized bank.	Tender Conditions prevail.
12			Clause 1.4	CAMC	We request you to mention this clause for CAMC, Bidders are required to quote the CAMC charges in % ONLY of Total Basic Supply Cost. The CAMC % should not be less than 20%. Bidders should also quote VAT % applicable on Comprehensive AMC.	Tender Conditions prevail.





MECON LIMITED



SCADA SYSTEM
FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1)
 Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045)
 Reply to Pre-Bid Queries







Andhra Pradesh Gas Distribution Corporation Ltd.



S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
13					12 months from the date of commissioning or 18 months from the date of supply whichever is earlier Subject to certain conditions as under: 1.1. Honeywell will defend any suit against Buyer claiming that a Deliverable infringes a valid United States and/or corresponding Indian patent or copyright existing as of the Agreement effective date and will indemnify Buyer for any final judgment against Buyer resulting from the suit provided Buyer: (a) gives Honeywell prompt notice when Buyer becomes aware of a third-party claim, (b) gives complete authority and assistance (at Honeywell expense) for disposition of the claim, and (c) makes no prejudicial admission about the claim. 1.2. Honeywell has no liability, and Buyer will indemnify Honeywell for claims related to: (a) Deliverables supplied per Buyer designs, drawings or specifications, (b) Deliverables used other than for the purpose for which they were delivered, (c) combining a Deliverable with a product or software not supplied by Honeywell, (d) modification of a Deliverable by anyone other than Honeywell, (e) compromise or settlement made without written Honeywell consent, or (f) Buyer's failure to install updates, upgrades, error corrections, changes, or revisions provided by Honeywell. Honeywell has no liability for Buyer's costs or attorney fees. 1.3. If an infringement claim is made or is likely, Honeywell may at its option and expense: (a) procure the right for Buyer to continue using the Deliverable, (b) modify the Deliverable to be non-infringing, or (c) accept return of the Deliverable (and terminate Buyer's applicable software license) and credit Buyer the purchase price paid for the Deliverable, less reasonable depreciation for use, damage and obsolescence. Failure of Buyer to accept any of the above remedies in lieu of the infringing Deliverable relieves Honeywell of any liability for infringement. Failure to ship infringing Deliverables will not breach the Agreement. 1.4. This section states Honeywell's entire liability and Buyer's sole recourse and exclusive remedies with respect	
			14. GUARANTEE + Cl. 80 of GCC			Tender Conditions prevail.
14			25. FAILURE AND TERMINATION CLAUSE		Notice of at least 60 days before termination.	Tender Conditions prevail.
15			31. SUBSEQUENT LEGISLATION + 32. TAXES, DUTIES, LEVIES + 34. STATUTORY VARIATION IN TAXES AND DUTIES + Cl. 100 STATUTORY VARIATIONS.		Duties, taxes, fees, levies beyond the originally stipulated contractual completion date where the delays are not attributable to a Honeywell shall to Owner's account.	Tender Conditions prevail.



 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
16			27	PRICE REDUCITON	For delayed portion only and not for the whole Contract. For reasons solely attributable to Honeywell.	Tender Conditions prevail.
17			43	PATENTS AND ROYALTIES	Propose Honeywell standard clause which mentions Honeywell shall defend suits against customer if equipment supplied infringes valid US/Indian Patent: <i>"Honeywell will defend any suit against Buyer claiming that a Deliverable infringes a valid United States and/or corresponding Indian patent or copyright existing as of the effective date of the Agreement and will indemnify Buyer for any final judgment against Buyer resulting from the suit provided that Buyer (a) gives Honeywell prompt notice when Buyer becomes aware of a third-party claim, (b) gives complete authority and assistance (at Honeywell expense) for disposition of the claim, and (c) makes no prejudicial admission with respect to the claim. Honeywell has no liability for: (a) Deliverables supplied pursuant to Buyer designs, drawings or specifications,(b) Deliverables used other than for the purpose for which they were delivered, (c) claims resulting from combining any Deliverable with any product or software not supplied by Honeywell, (d) any modification of a Deliverable by other than Honeywell, (e) any compromise or settlement made without written Honeywell consent; or (f) costs or attorney fees incurred by Buyer. If infringement claim is made or is likely, Honeywell may at its option and expense: (a) procure the right for Buyer to continue using the Deliverable, (b) modify the Deliverable to be non-infringing, or (c) accept return of the Deliverable (and terminate Buyer's applicable software license) and credit Buyer the purchase price paid for the Deliverable, less reasonable depreciation for use, damage and obsolescence. Failure of Buyer to accept any of the above remedies in lieu of the infringing Deliverable will relieve Honeywell of any liability for infringement. Failure to ship infringing Deliverables will not breach the Agreement. This section states Honeywell's entire liability and buyer's sole recourse and exclusive remedies with respect to infringement. All warranties against infringement of intellectual property rights, whether statutory, express or implied, are disclaimed."</i>	Tender Conditions prevail.
18			51	RELEASE OF INFORMATION	Obligations to be mutual. Either party shall keep other party's information confidential. The information which needs to be kept confidential shall be marked as "confidential" by the disclosing party while making disclosure. This confidentiality obligation of either party shall remain for a period of 5 years from expiry of the agreement.	Tender Conditions prevail.
19			77	SUSPENSION OF WORKS	Where Buyer suspends/delays an Order for reasons not attributable to Honeywell, Honeywell shall be compensated for the work performed/goods delivered/obligations undertaken, including storage charges, insurance payments, title transfer impact etc.	Tender Conditions prevail.



 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
20			85 INDEMNITY		Each Party will indemnify the other Party against third party claims for personal injury, death or loss of or damage to property to the extent caused by the indemnitor's sole negligence in performance under this Agreement. This obligation is conditioned on receiving prompt notice of a claim from the indemnitee. The indemnitor will not be liable for any attorney fees or costs of indemnitee. To the extent permitted by applicable law the indemnitor will be entitled exclusively to control the defense and settlement of the claim. Liability under this "Indemnity" section is subject to the provisions of the "Limitations of Liability" section of the Contract.	Tender Conditions prevail.
21			87 SCHEDULE OF RATES		Where Buyer suspends/delays an Order for reasons not attributable to Honeywell, Honeywell shall be compensated for the work performed/goods delivered/obligations undertaken, including storage charges, insurance payments, title transfer impact etc. Duties, taxes, fees, levies beyond the originally stipulated contractual completion date where the delays are not attributable to a Honeywell shall to Owner's account.	Tender Conditions prevail.
22			102 DAMAGE TO PROPERTY, 105—CONTRACTOR TO INDEMNIFY THE EMPLOYEE		See clause for Indemnities above.	Tender Conditions prevail.
23			VOLUME – I OF II & Cl: 3	The Scope of work for IP based SCADA system shall be (but not limited to) Project Management,..... Storage & Safety,.....	Please clarify the storage location across the pipeline.	Storage till handing over is in scope of bidder. Bidder to decide storage location at site
24			VOLUME – I OF II & Cl: 3	The Scope of work for IP based SCADA system shall be (but not limited to) Project Management,..... Storage & Safety,..... cables,cable trays,.....	Ref to RFQ, there is no quantification of cable and cable tray to be supply. Please provide us the quantity of same. Please provide the detail specification of cable and cable tray.	Min Cable length has been indicated in the tender as per control room layout. Bidder has to consider it for estimation of quality of the cables. Cable tray also has to be considered accordingly. However any cable / tray more or less shall be as per site condition and in bidder's scope.
25		7/197	VOLUME – II OF II & Cl: MR note 8	Post warranty maintenance contract comprehensive as define in the bid shall be provided by original equipment supplier along with bidder for the 03 years of period specified in the tender	Please provide us detail scope during AMC and no of visit during AMC period.	Tender condition prevail. Refer tender specification for AMC scope. Execution may be finalised during AMC period.
26		13/197	VOLUME – II OF II & Cl: VDR SI.No. 2	Functional design Specification for SCADA	"Functional design Specification for SCADA" shall be submit after post order. Please confirm.	FDS shall be submitted after the award of order, However bidder shall confirm the scope of work and document submission as per VDR during detailed engineering along with bid.

 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
27		17 / 197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 2.0	The major IED (Intelligent Electronic Devices) to be connected with the RTU's are Flow computers, Gas chromatograph, cathodic protection panel, UPS panel/ Battery chargers panel of Solar Power Supply or Grid power supply	Please clarify our understanding that supply of these IED devices are not in SCADA vendor's scope. Please clarify the availability of port and protocol of these devices to interface with SCADA system.	Supply of IED devices is not in SCADA Bidder's SCOPE. However, Supply and laying of FRLS Armoured cables from SCADA Panel to respective IED devices and integration of IED devices is in SCOPE of SCADA Bidder. availability of port and protocol for interfacing of these devices with SCADA system shall be finalised during detail engineering.
28		17/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 2.0	In addition, the system will facilitate running of Application Software (APPS- to be supplied by other contractor) package for reliable operation of the pipeline i.e. Leak Detection & location, supplementary modules.	The 3 rd party APPS system(i.e LDS), shall interface with propose SCADA system over OPC. Please confirm.	Bidder Understanding is correct.
29		18/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 3.0	The MCS & ECS of SCADA shall have SCADA servers, Engineering work stations, HMI, history archiving, storage, web functionality, message/reports through SMS / email	Required infrastructure like GSM/GPRS modem along with SIM for SMS and internet connectivity for email sending shall be customer's scope. Please confirm.	Confirm, however interfacing & cabling in bidder's scope.
30		18/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 3.0	The MCS / ECS will be interlinked with Remote Telemetry Units (RTUs) located along the pipeline by dedicated optical fiber communication system (24 fibre Optical Fiber armoured Cable - as per ITU T G652 (18 fibre) & as per ITU T G 655 (6 fibre) and SDH based telecom equipment and Leased line link to be executed by other contractors)".	Please clarify our understanding that back-bone communication system i.e SDH/OFC/LIU are customer's scope of supply. There would be Ethernet port available at SDH box to connect the SCADA LAN. Please confirm.	Bidder Understanding is correct. Tender condition prevail. Interfacing & cabling is in bidder's scope.
31		18/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 3.0	All the MCS/ECS will be interconnected by lines (lease line scope & operational philosophy will be finalized in consultation with APGDC).	Lease line scope shall be customer scope of supply. Please confirm.	Bidder Understanding is correct. Tender condition prevail. Interfacing & cabling is in bidder's scope.
32		20/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 3.2	Interfacing with third party Gas Management System (GMS) and Pipeline Modeling software (APPS) software for exchange of parameters (as required)	Please confirm, 3 rd party GMS shall interface with propose system over OPC protocol.	Bidder Understanding is correct. Tender condition prevail. Interfacing & cabling is in bidder's scope.

 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Cluase No	Subject	Vendor's Query	APGDC/ MECON's Reply
33		20/197	JS No.: MEC / 05 / E5 / T / 23QC /PJS – 094 Cl: 3.3	The vendor shall supply all the items / equipments including softwares, SCADA equipment racks, installation materials (e.g. cables, cable glands, conduits for laying the cable, connectors, ferrules, etc.).....	<p>Please clarify the cable scope:</p> <ol style="list-style-type: none"> 1. Clarify whether, Signal & control cable from 3rd party field instrument to RTU/IO card. 2. Clarify whether, Auxiliary power cable from PDB to RTU cabinet. 3. Please clarify what are cables to be supply. 4. Please quantify all the cable and please provide us cable specifications. 	<p>Refer to the PJS clause 6.31, 6.32, 6.33 for details.</p> <ol style="list-style-type: none"> 1. Control and signal cables to be separately considered as per the IO list provided. For DI/DO, control cables have to be considered and for AI/AO, Signal cables have to be considered. Also, cables have to be considered for integration of all IED devices as per tender. Supply and laying of all these cables is in scope of bidder. 2. Power Cables shall be laid from The PDB in Electrical room to the SCADA panel. Supply and laying of all power cables is in scope of bidder. 3. Cables shall be FRLS Armoured as provided in the Tender. 4. Tentative Cable quantity for estimation are specified in the Tender; however shall be provided as per site requirement.
34		20/197	JS No.: MEC / 05 / E5 / T / 23QC /PJS – 094 Cl: 3.7 JS No.: MEC / 05 / E5 / T / 23QC /PJS – 094 Cl: 3.7	TRANSPORATION AND STORAGE OF SCADA SYSTEM	<p>Please clarify the storage location across the pipeline.</p> <p>Please clarify about the scope of storage space.</p>	<p>Storage till handing over is in scope of bidder. Bidder to decide storage location at site</p>
35		21/197	JS No.: MEC / 05 / E5 / T / 23QC /PJS – 094 Cl: 3.8	e. Laying & routing of all FRLS cables through conduits, glanding, termination of cables, dressing and ferruling for all the cables as per define in tender document.	<p>Please confirm that cable trays are not in SCADA bidder's scope of supply.</p>	<p>Cable trays wherever required for laying of cables is in scope of Bidder. It forms a part of erection material.</p>
36		23/197	JS No.: MEC / 05 / E5 / T / 23QC /PJS – 094 Cl: 6.3	Each functional server will be redundant and connected to both systems LAN's in a hot standby configuration	<p>Please clarify our understanding that server at MCS & ECS shall be redundant at each location i.e (2 server at MCS & 2 server at ECS).</p>	<p>Bidder Understanding is correct. Tender . Tender condition prevail.</p>



 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
37		23/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 6.4	One RTU shall be provided with redundant GPRS Modem having capability for polling (read and write) to Flow Computer through either dialup / GPRS	<p>Please let us know the location of same RTU with we need to provide GPRS modem.</p> <p>Please elaborate on redundant GPRS modem, whether we need to provide two GPRS modem at</p> <p>Please confirm, SIM shall be customer's scope of supply as per TRIO rules.</p>	<p>Tentatively any one consumer location RTU may be consider for GPRS Modem & it will confirm during detail engineering.</p> <p>Redundant GPRS Modem means that bidder has to provide 2 separate independent GPRS modems for Connectivity of flow computer data polling.</p> <p>SIM for GPRS MODEM shall be provided by client.</p>
38		23/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 6.8	Communication protocol between MCS / ECS and RTUs shall confirm to OSI Communication model, DNP 3.0 (TCP/IP) or IEC – 60870-5-104 and it will be standard protocol for all the station communications.	The communication between MCS/ECS and RTU shall be over DNP 3.0 protocol.	Tender Conditions Prevail
39		24/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 6.16	The Bidder shall give an undertaking in line with PMR form enclosed as Annexure VI that system support for maintenance, up gradation and enhancement/expansion of the offered system shall be available for 05 years from the expiry of the Warranty period.	We shall provide any updates bugs & patches during 5 years supports of supplied software. Any version up-gradation is not envisaged. Please confirm.	Tender Conditions Prevail.
40		26/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 6.22	Necessary tray, Glands, other erection accessories as required has to be supplied	<p>Please quantify the cable tray and specification of cable tray requirement.</p> <p>Also, please clarify, for which cable we need to provide cable tray for laying.</p>	<p>Cable trays wherever required for laying of cables is in scope of Bidder. It forms a part of erection material. Cable tray shall be hot galvanised pre fabricated perforated GI cable trays with 30mm height and 2.5 mm thickness. The width of cable trays shall be as per standard widths- 60mm, 100mm, 150mm as required for cable laying.</p> <p>Length of cable tray shall be as per requirement.</p>
41		28/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 6.37	FDS documents of SCADA System	FDS shall be submitted after post order. Please confirm.	Bidder Understanding is correct. Tender Conditions Prevail
42		49/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS – 094 Cl: 24	Any modifications/ Upgradation or replacement of any hardware & software during warranty shall not affect the performance & functionality of the system.	We shall provide any updates bugs & patches during warranty period of supplied software. Any version up-gradation, modification is not envisaged.	Tender Conditions Prevail

 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Cluase No	Subject	Vendor's Query	APGDC/ MECON's Reply
43		63/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS - 094 (Annexure-1 to PJS) Cl: 2.2	History Server	The SCADA server is having built-in Historian storage hence, separate History server is not required. Please confirm.	Separate History server shall be provided as per tender specification even if SCADA server has in-built Historian storage.
44		64/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS - 094 (Annexure-1 to PJS) Cl: 2.2	At a time, 10 nos. of concurrent users shall be able to access the web server. In case of no of concurrent users exceeding the allowed limit, a suitable message will appear to the users logging	Please provide total web user license required.	Total 10 Nos of Web Licenses to be provided as per the tender.
45		65/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS - 094 (Annexure-1 to PJS) Cl: 2.2	Separate e-mail server is required for this, then the vendor shall provide separate e-mail server without any cost and time implication to APGDC. This e-mail server shall be interfaced with APGDC exchange server in future.	Please clarify the e-mail server are in SCADA vendor or customer scope of supply.	Refer tender specification; read specification carefully; Tender conditions prevail.
46		70/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS - 094 (Annexure-1 to PJS) Cl: 6.1.1	Min. 2 * Quad-Core Intel Xeon E5 series processors (Min 2.4GHz and Turbo boost upto 3.3GHz, 15 MB L3 Cache) with Intel vPro Technology	We shall propose our tested & qualified machine for guaranteed performance & for future support. The machine processor shall be single Intel 3.60GHz, Quad core processor. Please confirm.	Tender conditions prevail
47		70/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS - 094 (Annexure-1 to PJS) Cl: 6.1.1	The server shall be rugged industrial grade server capable of continuous non-stop operation	All the server are COTS hardware, which are suitable for industrial standard operation under control environment. These are not industrial grade server as per OEM. Please confirm.	Tender conditions prevail; the server should be rugged for continuous non stop performance inside control room with or without controlled environment.
48		74/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS - 094 (Annexure-1 to PJS) Cl: 7.4	LAN / WAN Routers /SWITCH , Make: CISCO	Please provide us additional OEM make list for competitive cost. Like: Juniper/Hirschman	Tender conditions prevail
49		78/197	JS No.: MEC / 05 / E5 / T / 23QC / PJS - 094 (Annexure-1 to PJS)Cl: 7.8	COMMUNICATION CONTROLLER UNITS	As per our system architecture is client/server architecture and CCU(or Front End server) is not required. Please confirm.	Design SCADA system as per requirement of tender
50		137/197	MEC/S/05/E5/099 Cl:1.0	Each of the RTUs shall have its own processor, memory, battery backed power supply unit & communication processors.....	Please confirm our understanding that offer RTU shall be non-redundant CPU processor, PS & IO modules.	Bidder Understanding is correct. Tender conditions prevail
51		138/197	MEC/S/05/E5/099 Cl: 4.0 (b)	AI, DI cards of the RTU should have minimum 16 IO points. The AO and serial card should have minimum 4 IO points / port. The DO card should have minimum 8 points/ ports.	Please confirm, can we propose mix IO module with having (DI-10,DO-6, AI-8, AO-2, PI-2).	Mix IO modules are not acceptable. Separate IO modules shall be provided for better O&M operations. Tender conditions prevail.
52		139/197	MEC/S/05/E5/099 Cl: 5.0/6.0/7.0/8.0	Isolation for module(DI,DO,AI,AO)	Input isolation provided through external isolation barrier. Please confirm.	Ensure & confirm that with external isolation full protection shall be available.

 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Cluase No	Subject	Vendor's Query	APGDC/ MECON's Reply
53		139/197	MEC/S/05/E5/099 Cl: 6.0	1 NO + 1 NC relay contacts configuration to be provided up to the RTU terminal block	External IPR replay shall be provided. Please confirm.	Confirmed
54		191/197	PJS No.: MEC/05/E5/T/23QC(CB)/P JS-094	ANNEXURE-II to PJS	Since the serial interface is huge per location, we shall use external terminal server to connect those device. Please confirm.	Not acceptable. Separate Serial interface to be provided on serial cards
55		191/197	PJS No.: MEC/05/E5/T/23QC(CB)/P JS-094	The I/Os for Inst are tentative & are as per P&ID. Finalization of I/O counts is in Bidder's Scope based on the P&ID and tender specification	Any addition of given IO list shall be commercial implication.	Tentative list is given in the tender; however design the system based on the engineering input required as per P&ID.
56	Vol I of II, SCC	210/230	27.2	Warranty	Warranty terms may be modified to 24 months from date of completion of work or 28 months from actual delivery , <u>whichever is earlier</u>	Tender Conditions prevail. No change is required.
57	Vol I of II, GCC	156/230	27	Price reduction	We request that PRS may please be treated as liquidated damages.	Tender Conditions prevail.
58	Vol II of II, PJS	18/197	3.0 Para 3	Comm channels	Please clarify whether the polling of RTUs from SCADA is on high speed ethernet links or low speed serial links	High speed ethernet links for major RTU however at some consumer locations low speed serial links may required.
59	Vol II of II, PJS	23/197	6.4	GPRS modem	We are assuming that only 1 no. RTU is to be provided with 2 GPRS modems. All other RTUs are without GPRS modem. Please confirm	Bidder Understanding is correct. Tender conditions prevail.
60	Vol II of II, PJS	25/197	6.31	Cables	Please quantify cable lengths	Refer to the PJS clause 6.31, 6.32, 6.33 for details. ,Min Cable length has been indicated in the tender. Bidder has to consider it to estimate the quality of the cables; however to be provided as per site requirement. Refer reply above.
61	Vol II of II, PJS	26/197	6.33	Cables	Please specify the type of cables to be provided (size, core)	Refer to the PJS clause 6.31, 6.32, 6.33 for details. , Control and signal cables to be separately considered as per the IO list provided. For DI/DO, control cables have to be considered and for AI/AO, Signal cables have to be considered. Also, cables have to be considered for integration of all IED devices as per tender. Supply and laying of all these cables is in scope of bidder. Sizing of the cables has to be done by the bidder.
62	Vol II of II, PJS	52/197	24.2 b)	Upgrade	Upgrade of OS is excluded from scope. Please confirm	Upgrade of OS is included in Scope as define in tender till the contractual period.
63	Vol II of II, PJS	59/197	1.3.1.2	Server	Please clarify the requirement of zonal server. Are they to be provided	No Zonal server; MCS / ECS server locations.
64	Vol II of II, PJS	60/197	2.1, para 2	Client server	Please clarify whether client server at MCS/ECS are one number each or 2 nos are to be provided at each location. Clause 1.3.2 states redundant client servers.	Tender condition prevail. Provide as per clause 13.2.
65	Vol II of II, PJS	60/197	2.1, para 3	OPC server	Is separate OPC server required or OOPS functionality is required as part of client server	Separate OPC server is required





MECON LIMITED

 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Cluase No	Subject	Vendor's Query	APGDC/ MECON's Reply
66	Vol II of II, PJS	60/197	2.1, para 9	SCADA Server	Please clarify whether MCS SCADA Server # 1 and MCS SCADA Server # 3 refer to redundant server at same location or at different location. Query related to sl. No. 8 above.	In the refered para of the cl. 2.1 pg 60/197, it is mentioned as MCS SCADA Server #1 (Primary) and SCADA Server #2 (Secondary) shall be configured in dual hot standby mode. (Refer SCADA system configuration drawing). Both the servers shall operate as redundant and installed in the same location.Tender condition prevail.
67	Vol II of II, PJS	64/197		Email/SMS	Email / SMS can be triggered to clients e-mail exchange server and to clients SMS service provider. The exchange server and service provided contract to be managed by client. Please confirm.	Confirm however any interfacing requirement is in bidder's scope.
68	Vol II of II, PJS	88/197	21.2	Spares	We assume 25% spares are on the I/O provided at Annexure II to PJS (IO List). Please confirm.	spare of each I/o module as per the tender shall be consider.
69	Vol II of II, PJS	138/197	d)	Spares	Spare space shall be 20% as per clause 21.2 (Pg 88/197) and not 25%. Please confirm.	Spare space 20% or suitable for installation of at lease 2 module.
70	VOLUME – I OF II			Tender Fee	Please kindly clarify: - if a foreign bidder can issue a demand draft of 236 USD from an international bank situated in Spain. - if a foreign bidder can issue a demand draft in INR (Rs. 15,130).	- Please refer clause no. 13.1 of IFB, Vol.-I. -Please refer note no. i) given against 'Bid Document Fees' at clause no. 9.3 of IFB, Vol.-I.
71	Bid Security	28	15		Please confirm if the foreign bidder can submit the bid security in the form of Bank Cheque. If yes, please confirm if the cheque can be issued by an International Bank situated in Spain. In case of no awarding the contract to Nucleo, APGDCL will refund this amount by Wire Transfer to Nucleo, Spain bank.	i) Foreign bidder can submit bid security in the form of Demand draft /Banker cheque as per clause no. 15.4 of ITB. ii) In case of unsuccessful bidders, bid security shall be returned as per clause no. 15.7 of ITB and as per available mode.
72					Please confirm that PF registration, GST registration certificate, PAN card, ESI Code No. Are only required for Indian bidders, not for Foreign bidders.	Bidder to have Registration with various authorities in India, as required as per Indian Laws. You may also like to refer clause no. 61.0 & 62.0 of ITB, Vol.-I.
73	Technical Check-list	197			SI No.18: Please clarify the meaning of "Have you furnished and "PERFORMANCE GUARANTEE CERTIFICATE". We believe that it refers to Performance Guarantee Bond which will be submitted in case of awarding.	This is related to performance of equipment; for that bidder has to submit the Proven Track Record of supplied equipment with the Bid (suggested doc : Client's PO & Successful working / Completion Certificate).



MECON LIMITED

 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
74	Documents Comprising the Bid	21	11		Please confirm that the Technical Bid such as FDS for SCADA, Drawings etc. will be included in the PART I - Techno-Commercial Bid.	Bidder has to submit SCADA architecture, BOM with the Techno-commercial bid, however, complete Functional design specification (FDS) will be submitted during detail engineering.
75	SYSTEM AVAILABILITY REQUIREMENTS	35	12		"The SCADA vendor shall ensure the system availability shall be 99.98 %" It is required to include a detailed study in tender documents?	Detailed study is required during detail engineering. However, bidder has to ensure compliance to this clause.
76	SYSTEM AVAILABILITY REQUIREMENTS	35	12		"The SCADA vendor shall ensure that the MTTR of RTU as 8 hrs and MS equipments as 2 hrs" It is required to include a detailed study in tender documents?	Detailed study is required during detail engineering. However, bidder has to ensure compliance to this clause.
77	Polling of RTUs in trunk pipeline section	62			According first paragraph on this page: "The active Server on the primary MCS will poll the RTU for data and the active server on secondary ECS will poll the RTU for health check". We think It is contradictory with 2.2 SCADA SERVER FUNCTIONALITIES: "The MCS/ECS server shall poll the RTUs of the pipeline section adjacent to it" ?. Please clarify.	Refer tender specification; read specification carefully; Tender conditions prevail. Consider the same as per the contract however polling philosophy may finalised during detailed engineering.
78	Client Server				It is acceptable that "Client Server" functions runs over same machine than CMS/ECS function?	Separate client and server machines to be provided.
79	History Server				It is acceptable that "History Server" functions runs over same machine than CMS/ECS function?	Separate History server shall be provided as per tender specification.
80	GENERAL SITE INFORMATION	32	7.2		"The equipment shall be fully tropicalised" Scada Server at MCS/ECS are included?, or this requirements affect just to RTUs	For sever & RTU shall work on environment condition as define in the tender
81					According 6.8 (page 9 of 41) : Communication protocol between MCS / ECS and RTUs shall confirm to OSI Communication model, DNP 3.0 (TCP/IP) or IEC – 60870-5-104 and it will be standard protocol for all the station communications. But according 20.7 (page 27/41) Protocol analyser, does not include IEC-60870-5-104 protocol. Protocol communication between RTU and MCS/ECS can be selected by supplier between DNP3.0 and IEC-60870-5-104? . And protocol selected must be included in the Protocol analyzer?	Both the protocol has to be consider - DNP 3.0 (TCP/IP) or IEC – 60870-5-104. Tender condition prevail.



MECON LIMITED



Andhra Pradesh Gas Distribution Corporation Ltd.

SCADA SYSTEM
FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1)
Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045)
Reply to Pre-Bid Queries

S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
82					<p>According 9.1 (page 23 of 36) Bidder is required to include for dual redundant Communication Controller Units (CCUs) [without any proprietary software and communication protocols] for polling of RTUs at each MCS / ECS</p> <p>According 9.2 (page 23 of 36)CCUs shall be of CISCO. Each CCU shall be provided with 24 number TCP/IP communication ports with speed of 10/100 Mbps plus all necessary cables, interfaces, connectors and converters.</p> <p>According 9.4 (page 23 of 36). All messages between CCUs and the SCADA Servers shall be in standard format independent of RTU protocol. The CCUs shall be responsible for converting request to and from the SCADA Servers in to the protocol of the RTUs</p> <p>These paragraphs together mean that a CISCO equipment, without proprietary software converts messages to RTU protocol (DNP30 or IEC-104); please can you identify these kind of equipment?.</p>	The SCADA system shall be designed as per the requirement & specification. Make of the equipment is for making all bidder at par.
83					We kindly request you a time extension of 1 month on the bid submission date.	Tender Conditions prevail.
84	Vol.-I of II	202 of 230	7	Subsequent Legislation	Kindly modify-“ The right of statutory variation should be available till the date of Actual Completion (unless the delay between contractual completion and actual completion is for reasons solely attributable to ABB's default.”	Tender Conditions prevail.
85	Vol.-I of II	202 of 230	7	Subsequent Legislation	We understand that variation in GST imposed after the date of submission of price bid & up to Contractual Completion date shall be to the APGDC's account but such Taxes / duties imposed beyond Contractual Completion date shall be to the Contractors account rates also in this clause. Kindly confirm.	Please refer clause no. 12.3 of ITB, Vol.-I for statutory variation in taxes & duties.
86	Vol.-I of II	204 of 230	13	Works Contract	We understand that the works covered under this Tender will be treated as works contract. Kindly confirm.	Please refer clause no. 13 of SCC, Vol.-I.
87	Vol.-I of II	209 of 230	24	Origin of Goods	Kindly confirm that this certificate will not be applicable on local products.	Refer Corr. #1.
88	Vol.-I of II	210 of 230	27.2	Defect Liability Period	Kindly modify this clause as:““The CONTRACTOR shall guarantee the installation/WORK for a period of 24 months from the date of completion of WORK as certified by the ENGINEER INCHARGE which is indicated in the Completion Certificate or 28 months from the actual delivery of material at site after FAT whichever is earlier.”	Tender Conditions prevail.



MECON LIMITED



Andhra Pradesh Gas Distribution Corporation Ltd.

SCADA SYSTEM
FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1)
 Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045)
 Reply to Pre-Bid Queries

S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
89	Vol.-I of II	225 of 230	1	Payment Terms	<p>We request to accept following payment term Supply # 20% against engineering document approval within 30 days.</p> <p># 70% against material delivery along with necessary documents within 30 days from the date of submission of Invoice. # 5% against Prorata erection/installation at individual station. However, in case APGDC is unable to provide fronts for a period of more than 60 days from the date of supply of material for any Station then APGDC shall accordingly release this 5% supply part amount to contractor subject to submission of BG of equivalent amount.</p> <p># 5% against Site Acceptance Test . However, in case APGDC is unable to provide fronts for a period of more than 90 days from the date of supply of material for any Station then APGDC shall accordingly release this 5% supply part amount to contractor subject to submission of additional BG of equivalent amount.</p>	Tender Conditions prevail.
90	Vol.-I of II	152 of 230	15.4	Note to Schedule of Rates	Kindly accept-"Quantity variation to be limited to +/-15%, beyond which contractor should be able to renegotiate the rates".	Tender Conditions prevail.
91	Vol.-I of II	156 of 230	26	Force Majeure	Kindly accept-"Neither party shall be liable for any loss, damage, failure or delay in performing its obligations under the Contract to the extent directly or indirectly caused by or arising from an event of Force Majeure, which shall include but not be limited to acts of God, acts of governmental authorities, earthquakes, strikes, fire, war, flood, epidemics, civil unrest, riots or other causes beyond its reasonable control. The delivery date shall be extended for a period equal to the time lost by reason of delay plus such additional time as may be reasonably necessary to overcome the effect of the delay."	Tender Conditions prevail.
92	Vol.-I of II	164 of 230	45.2	Delays by employer or his authorized agents:	Kindly accept:-Any project delays not attributable to contractor should entitle contractor to suitable cost compensation/ price adjustment. Any indulgence by contractor in deploying personnel to work additional time, on account of such project delay, should be at the sole cost of the customer.	Tender Conditions prevail.
93	Vol.-I of II	168 of 230	60	Alterations in specifications, design and extra works:	Kindly modify the clause as-" Provisions contained in the Sub-clause (a) & (d) above shall, however, not apply for the following:- Where the value of additions of new items together with the value of alterations, additions/deletions or substitutions does not exceed by or is not less than plus/minus (+_)15% of the VALUE OF CONTRACT.	Tender Conditions prevail.
94	Vol.-I of II	171 of 230	67 vi)	Conditions for issue of materials	Kindly change:-" In no case, the CONTRACTOR shall be entitled to claim any compensation or loss suffered by him on this account." To contractor should be entitled to time extension as well as cost compensation for such delays.	Tender Conditions prevail.







Andhra Pradesh Gas Distribution Corporation Ltd.

**SCADA SYSTEM
FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1)**
Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045)
Reply to Pre-Bid Queries

MECON LIMITED

S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
95	Vol.-I of II	174 of 230	77	Suspension of Works	Kindly modify the clause as-“Contractor should be entitled to suitable cost compensation in case of suspension, where the suspension was not due to the Contractor’s default.”	Tender Conditions prevail.
96	Vol.-I of II	174 of 230	79	Possession prior to completion	Kindly delete” - Such possession or use shall not be deemed to be an acceptance of any work”.	Tender Conditions prevail.
97	Vol.-I of II	174 of 230	80	Defect Liability period	Kindly modify the clause as-“part of the equipment/ portion of WORK shall be operative for a period of 12 months from the date of such rectification/ replacement”.	Tender Conditions prevail.
98	Vol.-I of II	176 of 230	85	Indemnity	Kindly limit indemnity to claims arising out of personal injury, death or damage to third party property arising due to contractors negligence or willful misconduct.	Tender Conditions prevail.
99	Vol.-I of II	179 of 230	91	Notice of claims for additional payments	Kindly deleted” - Irrespective of any provision in the CONTRACT to the contrary, the CONTRACTOR must intimate his intention to lodge claim on the EMPLOYER within 10 (ten) days of the commencement of happening of the event and quantify the claim within 30 (thirty) days, failing which the CONTRACTOR will lose his right to claim any compensation/reimbursement/damages etc. or refer the matter to arbitration.”	Tender Conditions prevail.
100	Vol.-I of II	181 of 230	97	Deductions from the contract price	Kindly delete:-“or otherwise”.	Tender Conditions prevail.
101	Vol.-I of II	184 of 230	102	Damage to Property or to any Person or any Third Party	Kindly delete:-“eventual loss of production, operation or services in any plant or establishment as estimated by the EMPLOYER or ascertained or demanded by the third party.”	Tender Conditions prevail.
102	Vol.-I of II	186 of 230	105	Contractor to indemnify the Employer	Kindly limit the indemnity obligations to third party claims arising out of death, personal injury or property damage arising due to negligence, fraud or willful misconduct of the Contractor Kindly delete:-“the CONTRACTOR shall not be at liberty to dispute or question the right of the EMPLOYER to make such payments notwithstanding the same, may have been made without the consent or authority or in law or otherwise to the contrary”	Tender Conditions prevail.
103	Vol.-I of II	206 of 230	16.6.8	CHANGE ORDERS /EXTRA WORKS/ DEVIATIONS	Kindly modify:-“ contractor should perform a Change Order only once a written change order incorporating the mutually agreed time/ price adjustments is issued, so that potential litigation can be avoided.”	Tender Conditions prevail.
104	Vol.-I of II	210 of 230	27.2	Defect Liability Period	Kindly delete:-“ plus 100% towards overheads (of which the certificate of ENGINEER IN CHARGE shall be final)”	Tender Conditions prevail.
105	Vol.-I of II	216 of 230	41.4	Local Condition	Kindly include:-“contractor should be entitled to price adjustments in case of any statutory variations after submission of bid.”	Please refer clause no. 12.3 of ITB, Vol.-I for statutory variation in taxes & duties.
106	Vol.-I of II	218 of 230	45.1.1	Arbitration	Kindly delete:-“ (except in matters where the decision of the Engineer-in-Charge is deemed to be final and binding)”	Tender Conditions prevail.
107	Vol.-I of II	218 of 230	45.1.2	Arbitration	Kindly accept:-“arbitrator will be mutually appointed”.	Tender Conditions prevail.

 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
108	Vol.-II of II	138 of 197	4.4 b)	Guideline for I/O points & RTU cards	<p>As per our OEM's standard configuration, our AI Cards are available in 8 Channel & AO Cards are available in 2 Channels. This is OEM Specific design & we request Mecon/APGDC to kindly accept the same.</p> <p>With regard to space saving by using Higher Density card, we would like to put forth here that we have a RTU rack in which the Controller's & IO Cards are installed. For the given IO Count of the present tender for all areas, we find that by using 8 Ch AI Card & 2 Ch AO Card we do require the same number of racks as we would have used in case of 16 Ch AI Card & 4 Ch AO Card. Hence by using 8 Ch AI Card & 2 Ch AO Card we are not consuming any extra space.</p> <p>In view of the above & also considering that this is an OEM Standard design, we once again request Mecon/APGDC to consider the same.</p>	The same is accepted. However, separate cards shall be provided for AI and AO signals. Also, Total No. of AI and AO channels shall be as per IO list.
109	Vol.-II of II	24 of 197 & 66 of 197	6.14 vii) & 3.0	General Control And Failover Philosophy & System Hardware	We understand that SCADA Servers at MCS & ECS shall be loaded with SCADA, History & OPC software and no separate Hardware is required for OPC & History, if History & OPC can be loaded in SCADA server itself. Kindly confirm.	Separate OPC and History server has to be provided.
110	Vol.-I of II	210 of 230	27	Defect Liability Period	We understand that warranty is- " 24 months from the date of completion of WORK as certified by the ENGINEER IN CHARGE which is indicated in the Completion Certificate or 28 months from the actual delivery of material at site after FAT. Kindly confirm.	Bidder Understanding is correct.
101	General			Integration with third party system	We understand that we have to provide provision for integration with third party system and any modification/changes required in third party system shall be not in our scope. Also Purchaser will act as a mediator in case of any communication/data required from third party. Kindly confirm.	Integration with IED shall be done on Standard MODICON RTU MODBUS protocol and accordingly Bidder has to consider the integration with Bidder RTU. If bidder require any other protocol for integration, conversion from RTU MODBUS to bidder required protocol has to be done by bidder. All the hardware required for the same shall be in scope of the bidder.
102	Vol.-II of II	74 of 197	7	Make-Switch	Kindly accept-Moxa/ Hirshmann for Switches.	Tender conditions prevail, Make cisco
103	Vol.-II of II	76 of 197	7	Make-Router	Kindly accept-Juniper for Routers.	Tender conditions prevail, Make cisco
104	Vol.-II of II	141 of 197	10 c)	Guideline for communication	We request Mecon/APGDC to kindly accept Ethernet and Serial port on the same card.	The same is accepted provided that Serial and Ethernet ports are independent. And both are functional simultaneously and independently.
105				Bid due date	Kindly extend the bid due date by 2 weeks from the existing bid due date.	Refer Corrigendum #1.
106		Volume 1	Section 4.0, completion period	Installation, Testing, SAT, trial run, support for integration of RTU with SCADA , Commissioning & handing over complete in all respect to APGDC - 10 months	Looking at the complexity of the assignment, milestone approval processes, we request APGCL/Mecon to kindly consider 12 months as the implementation period.	Tender conditions prevail
107		Volume II	Section 3.0, Brief scope of work and supply for SCADA System	One Remote Work Station (RWS) shall be provided other than Master Station/key O&M locations, for monitoring and control of pipelines. The RWS shall have connectivity with MCS/ECS and location will be finalized in detailed engineering.	Is the Remote workstation expected to be a Runtime SCADA Client or a Web client? Please confirm.	Remote work station shall be run time SCADA Client and not web client.

 Andhra Pradesh Gas Distribution Corporation Ltd.		SCADA SYSTEM FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1) Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045) Reply to Pre-Bid Queries			 MECON LIMITED	
S.N.	Section	Document no	Cluase No	Subject	Vendor's Query	APGDC/ MECON's Reply
108		Volume II	Section 3.0, Brief scope of work and supply for SCADA System	New RTUs will be multi-dropped & communicate through DNP 3.0 (TCP/IP) with SCADA server. New RTU shall be commissioned and all the necessary input for configuration will be provided to SCADA system.	Is IEC 60870-5-104 acceptable as a communication protocol for the RTU's to APGCL?	Both the protocol has to be consider - DNP 3.0 (TCP/IP) or IEC – 60870-5-104. Tender condition prevail.
109		Volume II	Section 3.0, Brief scope of work and supply for SCADA System	To increase the availability of data from RTU's distributed along the pipeline. All the MCS/ECS will be interconnected by lines (lease line scope & operational philosophy will be finalized in consultation with APGDC). For the Kakinada-Visakhapatnam pipeline (KSPL Phase-1 pipeline), RTU has been planned for SV, Dispatch, IPS and Receiving Terminal/Consumer Stations.	Does this imply that the primary RTU communication shall be on OFC and backup shall be on Leased line?	MCS/ECS server communication backup through leased line. RTU will communicate to respective server on OFC.
110		Volume II	Section 3.2, Design and Engineering of SCADA System.	Interfacing w it h third party Gas Management System (GMS) and Pipeline Modeling software (APPS) software for exchange of parameters (as required)	How will the GMS expected to interface with the SCADA system. APGCL may please confirm.	Will be confirm to successful bidder; This will be standard server to server communication.
111		Volume II	Section 3.8, Installation of SCADA System at sites.	Providing earthing to SCADA equipments at MCS, ECS, RWS a n d R T U s locations by extending the earth conductor of suitable dimension from earth pit to the equipment rack.	We assume that separate and dedicated Earth pit shall be provided for both RTU's, MCS and ECS. APGCL may please confirm.	Earth pits shall be provided for RTU, MCS and ECS. However, supply and laying of earthing cable/earth strip till the RTU, MCE and ECS server / WS shall be in scope of bidder. However for bidder's server required any specific earthing provision same shall be in bidder's scope.
112		Volume II	Section 6.2, General Control and Failover possibility.	The SCADA system communicates to individually IP addressed RTU / Device on dedicated OFC network and some of the RTU / device on GPRS network. Backup communication link between MCS and ECS will be provided by Independent leased line provided by the independent service provider (arranged by the client). Necessary WAN router and terminal server as required in the bidder's scope	For the RTU's that communicate on GPRS do we need a provision for back up if GPRS fails? APGCL may please clarify.	Yes as per requirement
113		Volume II	Section 6.2, General Control and Failover possibility.	One RTU shall be provided with redundant GPRS Modem having capability for polling (read and write) to Flow Computer through either dialup / GPRS. The dial up RTU to be hooked up with the GPRS Modem shall be configured during detailed engineering. All the necessary software/hardware and program for getting data through dial-up has to be supplied by the bidder. Also the bidder has to demonstrate the dialup functionality for one FC through GPRS during SAT.	As we shall be using TCP/IP communications, the use of modems may not be appropriate to the best of our knowledge. Instead of GPRS modems we may have an option to use Gateways with dual SIM communication options. APGCL may please clarify	Tender Conditions prevail
114		Volume II	Section 6.21 General Control and Failover possibility Pg 11.	Supply and laying of cables & connectors from TIC to RTU & interconnection between SCADA equipments and interfacing of SCADA equipments with Telecom system.	Would Ethernet interfaces be available for at Telecom panel for RTU connection? APGCL may please confirm.	Dedicated Ethernet Ports shall be provided in the Telecom Panel to the bidder.Cbaling in bidder's scope.
115		Volume II	Section 6.25, General Control and Failover possibility.	IEDs communication protocol details will be provided by Client during detail engineering.	Request APGCL to please provide the communication protocol details of the IED's as RTU configuration shall depend on the same.	serial communication on MODBUS
116		Volume II	Section 6.29, General Control and Failover possibility.	The standard latest design consol for HMIs (for SCADA hardware) at MCS & ECS shall be provided by the bidder with 4 Nos of executive chairs. Consol shall be approved before supply.	Request APGCL to please provide the console specifications.	Standard latest configuration shall be consider; however design shall be approved during detailed engineering.
117		Volume II	Section 6.31, Pg 11, General Control and Failover possibility.	Complete interfacing requirements including supply of cables with connectors at IED end, modem end, and RS 232C /RS 485 / Ethernet connection intrinsically safe box (ISB) ends	Request APGCL to kindly provide the specifications of the IED's to be connected.	Integration with IED shall be done on Standard MODICON RTU MODBUS protocol and accordingly Bidder has to consider the integration with Bidder RTU.
118		Volume II	Section 6.33, Battery Limit with other Contractors, Pg 13	Supply of communication cable with connectors at both ends from Solar panel to RTU including Laying, glanding, termination, ferruling, dressing etc. at both ends.	What interfaces are envisaged from Solar Panel to RTU.	Interfaces from solar shall be as stated in the IO list (serial & hardwired both)
119		Volume II	Section 12, 12.1, Pg 21, System Availability Requirements	The SCADA vendor shall ensure the system availability shall be 99.98 %	We assume all components in the MCS shall be on Redundant mode. APGCL may please confirm. Please confirm if redundancy is required at the ECS also.	Redundancy is required both at MCS and at ECS ends; ensure the system availability shall be 99.98 %



Andhra Pradesh Gas Distribution Corporation Ltd.

**SCADA SYSTEM
FOR KAKINADA-SRIKAKULAM PIPELINE PROJECT (PHASE-1)
Tender Doc. No.: 05/51/23QC/APGDC/094 (E Tender No. 140045)
Reply to Pre-Bid Queries**



MECON LIMITED

S.N.	Section	Document no	Clause No	Subject	Vendor's Query	APGDC/ MECON's Reply
120		Volume II	Section 19, Pg 36, Warranty and Extended Warranty	The owner shall be within his powers to impose penalty for complete break in communications system for more than the designed specifications. The same shall be discussed on award of work.	The RTU communications system is not within the Scope of this tender. APGCL may please clarify	OFC based communication system will be provided by other contractor; however interfacing cabling in bidder's scope.
121		Volume II	Section 24, Pg 25, Mandatory Spares	Modem should be capable of Storing minimum 45 days of Meter Data.	Is any modem based communication envisaged by MSEDCL? If so please clarify why modem should store 45 days data when meter itself has a months storage which can be retrieved easily.	No such requirement in the clause. Biddeer to check.
122		Volume II	Section 27, Pg 39, logistics support	Vendor shall provide backup engineering, maintenance support and spare part supports for a period of ten (10 years) for the RTU being supplied. Logistic support certificates as per format attached with the bid document	Spares support for 10 years may be difficult to provide looking at the product life cycles of reputed RTU OEM's. APGCL is requested to kindly reconsider the spares support till the contractual period of 6 years.	Tender Conditions prevail
123		Volume II	Annexure 1, Section 2.2, Pg 7, History Server	The active history server shall write the data to storage at MCS and ECS simultaneously. It shall be possible to retrieve the archived historical data from the storage device without any data loss for using in various reports.	Please clarify whether the History/archive server should be Historian or RDBMS based?	Server should meet the specification requirement
124		Volume II	Annexure 1, Section 3.0, pg 10, system Hardware MCS and ECS	The system at MCS and ECS shall consist of following hardware's as a minimum:	TCS understands that no redundancy needs to be provided for all components at MCS excepting at SCADA server level. APGCL may please confirm/clarify	For Each MCS/ECS power card and Hard disk redundancy to be provided as per the specification of MCS/ECS.
125		Volume II	Annexure 1, Section 21.0, pg 33, 21.6 - I/O Requirements	Also each RTU shall have 100% expansion capacity.	It is mentioned that 25% spare I/O Capacity need to be provisioned for RTU's. Please clarify wherein 100% capacity need to be provisioned?	The expansion capacity of RTU in terms of space 20%, in terms of IO's each modules 25 %, storage 100 % of the present loading
126		Volume II	Annexure 1, Section 27.0, pg 36, 21.6 - Foreign Device Interfacing Requirements	#####	We request APGCL to provide us the standard specifications of the Flow computers to be employed. This will help us estimate any development effort for integration.	Tender condition prevail , standard metering system Flow computer will be provided.
127		Volume II	Annexure II, Section 9.0, pg 4, Poll Modes	It shall be possible to write Data from one RTU to another RTU and then onward tp other devices such as Gas Chromatograph.	To the best of our knowledge this will depend on the protocol for communication of the GC's and the connection to the FC. APGCL is requested to reconsider the configuration of GC from the SCADA.	Tender condition prevail
128		Volume II	Annexure V, Section 11.5, pg 9 RTU Features	#####	Normally Hi-Low limit violations and Engineering Unit calculations are done at the SCADA Software level. APGCL may please clarify/comment.	Tender condition prevail