

CORRIGENDUM#1**TO****BIDDING DOCUMENT**

BIDDING DOCUMENT NO. : MEC/23R8/01/51/D2/T03/SU/6514

SUBJET OF BIDDING DOCUMENT : SMART METERING SYSTEM

The terms and conditions of the Bidding Document stands modified to the extent indicated below and all other terms and conditions of the Bidding Document remains unaltered:

Sn. No.	PART of Bidding Document	Section	Page No.	Clause No.	Clause Description	Additions / Deletions / Modifications
1.	III	Section-I Technical Specification for Smart Meters & Associated Units	5 of 24	2.0, Sl. 16	Scope of Work	<p><u>New Clause:</u></p> <p>Smart Meter provider shall integrate the HES server with the existing BYNRY Billing system, to automatic transmission of Meter reading data from the HES server.</p> <p>Meter reading data should be provided through REST APIs in JSON format, exact format will be provided at the time of integration to the successful bidder.</p> <p>The data transfer process shall be triggered/ batch-based process, for which smart metering system server integration with billing server through API should be customized in terms of data frequency and data elements by the bidder.</p> <p>Bidder scope shall also include ensuring data transfer from existing HES server to existing BYNRY Billing</p>

Sn. No.	PART of Bidding Document	Section	Page No.	Clause No.	Clause Description	Additions / Deletions / Modifications
						software server with required / necessary interface development and interacting with billing software vendor for successful integration.
2.	III	Section-I Technical Specification for Smart Meters & Associated Units	5 of 24	2.0, Sl. 6	Scope of Work	Bidder shall ensure data transfer from HES to BYNRY billing software. Billing software will fetch Smart meter data from HES (Head End Software) via interface and perform meter reading consumption validation, editing and estimation. HES will provide alerts, alarms and abnormalities data to billing.
3.	III	Section-I Technical Specification for Smart Meters & Associated Units	7 of 24	5.0, Sl. 5.13 to 5.18	Design Basis	The word 'MDM' shall be read as 'Billing Software'
4.	III	Section-II Material Requisition	21, 22, 23, 24 of 24	-	Datasheet	Revised Datasheet for Domestic Metering & Commercial Metering are Attached.
5.	I	IFB & BIDDING DATA SHEET (BDS) ANNEXURE-IV of ITB	5	(J)	BID DUE DATE, & TIME	Date : 06.09.2019 Time : Upto 15.00 hrs. (IST)
6.	I	IFB & BIDDING DATA SHEET (BDS) ANNEXURE-IV of ITB	5 & 76	(K) & 26	DATE, & TIME OF UN-PRICED BID OPENING	Date : 06.09.2019 Time : 16.00 hrs. (IST)

Note: This Corrigendum shall form an integral part of the bidding document and shall be signed/stamped and submitted along with the bid.

(STAMP & SIGNATURE OF BIDDER)



Bhagyanagar Gas Ltd.

Bhagyanagar Gas Limited

CITY GAS DISTRIBUTION PROJECT AT HYDERABAD,
VIJAYAWADA AND KAKINADA

SMART METERING SYSTEM

Bid Document No.: MEC/23R8/01/51/D2/T03/SU/6514



SMART METERING SYSTEM FOR DOMESTIC CONSUMERS – WALKBY TYPE/ FIXED TYPE		
General	Service	Natural Gas
	Type	Diaphragm / Any technology meter like -electronic meter suitable for domestic metering & AMR system
	Reference	Compliance as per BS EN-1359:2006 (or latest) / PNGRB / OIML R137-1&2 regulatory
	Standard	As indicated in Clause 4.0- Codes and Standards
	Make & Model No.	Vendor to specify
	Installation	Suitable for outdoor/Indoor Installation, tamper proof and corrosion resistant for a life period of 20 years
	Mounting	Wall / Pole mounted. Mounting accessories to be provided
Process Conditions	Flow/ Service (For A.1.0)	G1.6: Qmax: 2.5 m ³ /hr, Qmin: 0.016 m ³ /hr, Qty. : As per MR
	Accuracy	Class 1.5
	Rangeability	150:1 or better
	Cyclic Volume	Minimum (Vender to specify)
	Normal Working Pressure	0.02 bar (g)
	Max. Working Pressure	0.038 bar (g)
	Design Pressure	0.2 bar (g)
	Max. Allowable pressure drop	2mbar
	Density Kg/Sm ³	0.73
	Operating Temperature	0°C to 45°C Design 60 °C
	Flow Direction	As per MR and to be marked on meter body.
Body	Case work/ Body	Suitable for outdoor/Indoor Installation, tamper proof and corrosion resistant powder coated steel casing
	Corrosion protection	Suitable coating on inside and outside of casing.
	End Connections (Two-pipe version)	20NB NPT(M) inlet and outlet conforming to ANSI B1.20.1 (In case the end connections are differing, bidder to provide suitable adapters of Brass to meet the specified end connections)
	Fire resistance	As per EN 1359 (Latest) or equivalent
Index	Max. Index reading	99999.999 Index with auto reset facility
	Unit	CM (Cubic meter)
	Ingress protection	IP 65 or better
	Pulse output type	Diaphragm Meters: Inductive / Magnetic Other technology (electronic) meters: As per meter manufacturer standard.
Internals	Diaphragm	Diaphragm Meter: Polyester fabric coated with rubber on either side of equipment for an endurance life cycle of 80,000 cum. Other Meter type: Endurance life cycle of 80,000 cum. Endurance test report as per relevant standard to be submitted.
	Valve between inlet and outlet	NA
	Centre to centre distance between inlet and outlet connections	110mm
	Other internals	All meter internals shall be non-metallic to prevent from tampering with magnet



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मेकॉन
ISO 9001 Company

Others	Leak Testing	Meter pressurized with air at 1.5 MAOP of the meter, immersed in water for observance of leakage
	Sealing arrangement	Provision to be made by vendor
	EN/MID marking on the meter	Required
	Reverse flow deterrents	Reverse count restrictor to be provided.
Automatic Meter Reading (AMR)	Make & Model No.	Vendor to Specify
	Frequency carrier	866.5 MHz (865-867 MHz)
	Communication between MIU and HHU/DCU	Wireless communication
	HHU/DCU and remote Server	Through GSM/GPRS
	Protocol	Open
	Radiated Power	Vendor to Specify
	Transmitted Power	Vendor to Specify
	Conformity	Equipment Type Approval (ETA) from Wireless Planning & Coordination Wing (WPC)
	Input Pulse characteristics	Inductive / Magnetic / suitable for meter output
	Operating Temperature	0°C to 45°C Design 60 °C
	Ingress Protection (IP)	MIU: IP 55 or better
	Alarms	Tamper, Low Battery, Communication Failure
	Max. Broadcast Radio Range	>500 Meters with Line of Sight
	MIU/HHU/DC Memory capacity	Minimum 60 days data Readings
Power Supply	Self-powered by inbuilt lithium battery MIU Battery Life: Vendor to specify	
Battery Type	Vendor to specify	



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मेकॉन
ISO 9001 Company

SMART METERING SYSTEM FOR COMMERCIAL CONSUMERS – PREPAID TYPE		
General	Service	Natural Gas
	Type	Diaphragm / Any technology meter like -electronic meter suitable for commercial metering & AMR system for Commercial Prepaid Service
	Reference	Compliance as per BS EN-1359:2006 (or latest) / PNGRB / OIML R137-1&2 regulatory
	Standard	As indicated in Clause 4.0- Codes and Standards
	Make & Model No.	Vendor to specify
	Installation	Suitable for outdoor/Indoor Installation, tamper proof and corrosion resistant for a life period of 20 years
	Mounting	Wall / Pole mounted. Mounting accessories to be provided
Process Conditions	Flow/ Service (For B.1)	G4: Qmax: 6 m3/hr, Qmin: 0.04 m3/hr, Qty. : As per MR
	Flow/ Service (For B.2)	G6: Qmax: 10 m3/hr, Qmin: 0.06 m3/hr, Qty. : As per MR
	Flow/ Service (For B.3)	G16: Qmax: 25 m3/hr, Qmin: 0.16 m3/hr, Qty. : As per MR
	Flow/ Service (For B.4)	G25: Qmax: 40 m3/hr, Qmin: 0.25 m3/hr, Qty. : As per MR
	Flow/ Service (For B.5)	G40: Qmax: 65 m3/hr, Qmin: 0.40 m3/hr, Qty. : As per MR
	Accuracy	Class 1.5
	Rangeability	150:1 or better
	Cyclic Volume	Minimum (Vender to specify)
	Normal Working Pressure	0.3 bar (g)
	Max. Working Pressure	0.5 bar (g)
	Design Pressure	0.5 bar (g)
	Max. Allowable pressure drop	3mbar
	Density Kg/Sm ³	0.73
	Operating Temperature	0°C to 45°C Design 60 °C
Flow Direction	As per MR and to be marked on meter body.	
Body	Case work/ Body	Suitable for outdoor/Indoor Installation, tamper proof and corrosion resistant powder coated steel casing
	Corrosion protection	Suitable coating on inside and outside of casing.
	End Connections (Two-pipe version)	1½" NPT(M) inlet and outlet confirming to ANSI B1.20.1 (In case the end connections are differing, bidder to provide suitable adapters of Brass to meet the specified end connections)
	Fire resistance	As per EN 1359 (Latest) or equivalent
Index	Max. Index reading	999999.99 Index with auto reset facility
	Unit	CM (Cubic meter)
	Ingress protection	IP 54 or better
	Pulse output type	Diaphragm Meters: Inductive / Magnetic Other technology (electronic) meters: As per meter manufacturer standard.
Internals	Diaphragm	Diaphragm Meter: Polyester fabric coated with rubber on either side of equipment for an endurance life cycle of 80,000 cum. Other Meter type: Endurance life cycle of 80,000 cum. Endurance test report as per relevant standard to be submitted.
	Valve between inlet and outlet	Required For Meters with internal valve, enclosure shall be provided to protect



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		meter from weather conditions. For meter with external valve, the valve shall be Ex-proof and at meter inlet. The meter and valve shall be placed in a wall mount secured enclosure.
	Power supply to valve	Through MIU battery
	Centre to centre distance between inlet and outlet connections	To be specified by vendor
	Other internals	All meter internals shall be non-metallic to prevent from tampering with magnet
Others	Leak Testing	Meter pressurized with air at 1.5 MAOP of the meter, immersed in water for observance of leakage
	Sealing arrangement	Provision to be made by vendor
	EN/MID marking on the meter	Required
	Reverse flow deterrents	Reverse count restrictor to be provided.
Automatic Meter Reading (AMR)	Make & Model No.	Vendor to Specify
	Prepaid AMR type	Cardless
	Frequency carrier	866.5 MHz (865-867 Mhz)
	Communication between MIU and remote Server	Through GSM/GPRS
	Protocol	Open
	Radiated Power	Vendor to Specify
	Transmitted Power	Vendor to Specify
	Conformity	Equipment Type Approval (ETA) from Wireless Planning & Coordination Wing (WPC)
	Input Pulse characteristics	Inductive / Magnetic / suitable for meter output
	Operating Temperature	0°C to 45°C Design 60 °C
	Ingress Protection (IP)	MIU: IP 55 or better
	Alarms	Tamper, Low Battery, Communication Failure
	Broadcast Radio Range	GPRS from meter to server
	MIU Memory capacity	Minimum 60 days data Readings
	Power Supply	Self-powered by inbuilt lithium battery MIU Battery Life: Vendor to specify
	Battery type	Vendor to specify
	Meter Internal Valve Operation	From Remote server through GSM/GPRS
Meter Internal Valve reset (Open)	Manual reset on receipt of remote command	

Dated: 22.08.2019

REPLY TO PRE-BID QUERIES

BIDDING DOCUMENT NO. : MEC/23R8/01/51/D2/T03/SU/6514

SUBJECT OF BIDDING DOCUMENT : SMART METERING SYSTEM

Sr. No.	PART / Section / Clause No.	Page No.	Clause Description	Bidder's Query	Reply to Bidder's Query
1)	II / II / 1.3	12	The Bidder must have supplied the quantity as indicated below for each type of Natural Gas Meters under a single order in the last seven years reckoned from due date of bid opening.	We are authorized representative of foreign manufacturer, since we have recently associated with foreign manufacturer so could not have experience in supplying of meter, in this case we are requesting you to consider the experience of our foreign manufacturer in foreign countries.	Tender Conditions prevail
2)	I / IFB / 2.0 J	5	BID DUE DATE & TIME	As supporting document pertaining to technical BEC should also be certified true copies, duly signed, dated and stamped by an official, authorized for this purpose in Indian Embassy/ High Commission in bidder's country. it takes about 20 days, and we also need time to prepare the supporting documents, we sincerely request to extend the bid to 10 Sep 2019	Refer Corrigendum#1
3)	II / Section II / 1.2.2	15	Certificate from a reputed Inspection agency	For the annual production capacity, we can provide self-claim based on our company scale, production facilities etc to explain we meet the minimum per annual capacity.	Tender Conditions prevail
4)	III/ TECHNICAL	4	Wherever existing	We request M/s. Bhagyangar Gas Limited to kindly	Details of existing system

	SPECIFICATION FOR SMART METERS AND ASSOCIATED UNITS / 2.0		DCUs and walk-by handheld devices are used, the new domestic meters shall be able to communicate with the existing DCU and handheld device for further transmission of data to smart metering server	provide the protocol of existing DCUs and HHU for bidder to evaluate the workload	& protocol are indicated in C1.6.1. Further details if required & necessary will be provided to successful bidder.
5)	III/ TECHNICAL SPECIFICATION FOR SMART METERS AND ASSOCIATED UNITS / 6.1	10	AIUT MIU Protocol: Short range coverage is assured by radio LAN protocol. In order to assure initial or future compatibility all protocols should use standard license free SRD bands with minimal radio physical layer (ISO OSI model)	Whether the communication method can be LoRa technology, because the point-to-point distance can reach more than 1km, which is more advance	Tender conditions prevail. Details of existing system & protocol are indicated in C1.6.1. The communication shall be suitable & compatible for integration with existing system.

			specification: RF Frequency range : 863 - 870 MHz (ISM)) ¹¹ RF Modulation type : GFSK		
6)	III / SMART METERING SYSTEM MATERIAL REQUISITION (MR) & DATASHEETS	21	Pulse output type: Inductive / Magnetic	1.Does photoelectric pulse technology can be accepted ? 2.Does MIU and mechanical gas meter integrated together can be accepted ?	For Diaphragm Meters: Inductive / Magnetic Pulse output and retrofit type AMR shall be considered. For other technology meters like - electronic meters: Pulse output type & MIU integrated / retrofit -as per meter manufacturer standard is also acceptable.
7)	III / SECTION - I	6 of 24	Walk-by/ Drive- by type Smart Metering System sending data from Meter Interface Unit to a Handheld Unit/Android mobile through Radio-Frequency and from Handheld Unit/Android mobile to remote	Request to consider the point to point communication as DCU is not working up to expectation in Indian conditions. As well manual walkby system is not effectively. It is still a manual system uncomparable with automatic (fixed system) With DCU - it can be a fixed system comparison with automatic readings. The GPRS - point to point communication is getting affordable and reliable solution. Also it ensure more than 99% data availability without any manual intervention. We request you to give fair chance to fixed type system as it is not comparable with manual walkby type system.	Tender conditions prevail. The communication shall be suitable & compatible for integration with existing system.

			server through GSM/GPRS shall be implemented for geographical locations having independent houses and low-rise / high-rise apartments.		
8)	III / SECTION - I	6 of 24	For Commercial consumers, cardless Prepaid type Smart Metering system with MIU / AMR communicating directly with remote server through GSM/GPRS shall be implemented.	The pre paid system envisaged by MECON - is not manufactured by any Gas meter manufacture for more than G6 size. Then in that case only one integrator will rule the market. We have already supplied many commercial meters to BGL and working satisfactory and BGL is not using prepaid architecture for commercial meters. (PO Ref. : BGL/C&P/PRI/HYD/P0-031/18/2018-19 and BGL/C&P/O&M/VK/PO-99/2018-19) . Kindly accept commercial Meters without Pre paid system.	Tender conditions prevail
9)	III / SECTION - I	6 of 24	The existing domestic smart metering / AMR system are from M/s. AIUT and from M/s. Hanbit. The commercial smart metering / AMR system are form M/s. AIUT. The details of the same are given in	We are offering meters equipped with DLMS / COSEM protocol which is open source. We will provide DLMS/COSEM Source Codes which is open to all. Kinldy confirm.	Offered meters shall be compatible to existing system. Details of existing system & protocol are indicated in Cl.6.1. The communication shall be suitable & compatible for integration with existing smart metering system, which is in the scope of the bidder.

			clause 6.1. Further details as necessary, will be provided to the successful bidder.		
10)	III / SECTION - I	6 of 24	AMR device in the meters, shall communicate & exchange data with existing smart metering system server. The new domestic smart meters / AMR shall be made suitable for either of the existing smart metering system server software i.e. AIUT system or Hanbit system. The newcommercial smart meters / AMR shall be made suitable to existing smart metering system server software of AIUT system.	As we are offering Meters which is having Inbuilt AMR System which Supports GPRS Communication method which do not require and DCU / Intermediate Device. Meter/AMR can directly transmit data to Server/HES and our server/HES is capable to provide data to BGL's MDM Server / SAP System, there is no need of AIUT/Hanbit System as a intermediary between bidder and BGL.	New servers are not envisaged tender. Offered meters shall communicate and integrated with the existing smart metering system, which is in the scope of the bidder.
11)	III / SECTION - I	6 of 24	The meter reader shall carry	As we are offering Meters which is having Inbuilt AMR System which Supports GPRS Communication method	New servers are not envisaged in the tender.

			<p>existing HHU/mobile device for existing meters and supplied newmeters. New meters shall be compatible to existing HHU. The existing DCU shall be used for reading from existing and supplied new meter. New meters shall be compatible to existing DCU.</p>	<p>which do not require and DCU / Intermediate Device. Meter/AMR can directly transmit data to Server/HES and our server/HES is capable to provide data to BGL's MDM Server / SAP System, there is no need of AIUT/Hanbit System as a intermediary between bidder and BGL.</p>	<p>Offered meters shall communicate with the existing smart metering system servers & further transfer data to billing software (BYNRY) server which is also in the scope of the bidder.</p>
12)	III / SECTION - I	11 of 24	<p>For commercial consumers, gas meters shall be with integral / external valve between inlet and outlet for pre-paid type AMR system. In case of external valve, the valve shall be Ex-proof and at the meter inlet. The meter and valve shall be placed in a wall</p>	<p>Most of the meter manufacture offer in built shut off valve upto G6. You are requested to make a separate group for comparison for commercial meters up to G6 so that we can offer the meter with integral Valve and compete in the tender.</p> <p>Refer Reply of Point 1 and Confirm that shut off valve is required only upto G6 Meter.</p> <p>Nowadays for Domestic Customers it is mandatory to having shut off valve for ease of Domestic Opetations. We request BGL to add shut off valve in its Specifications for Domestic Customers, which can be used in future also.</p>	<p>Tender conditions prevail</p>

			mount secured enclosure. The meter capacities shall be as indicated in the technical datasheet.	The Built in Valve - will further allow Gas utility to switch over post paid to pre paid and pre paid to post paid customers. It also allow you to reduce the reduce the non Revenue Gas as well attracts advance gas cost.	
13)	III / SECTION - II	21 of 24	Mounting	As our supplied meters body is made with Gavenised Steel and Meter is having weight of <2kg we confirm that it can hold the Meter on Gas PipeLine with Ease, so no need of extra mounting. Pl. confirm	Mounting bracket shall be supplied for each meter to suite its size & weight.
14)	III / SECTION - II	21 of 24	Operating Temperature up to 60 DegC	We supplies meters with Operating Temp. Range from - 25 to +55 degC. Pl. accept	Tender conditions prevail
15)	III / SECTION - II	21 of 24	End Connections (Two-pipe version)	We will supply suitable adaptors as per requirement of BGL , if END Connections is not matching with BGL Specs. Pl. accept.	Refer Datasheet
16)	III / SECTION - II	21 of 24	Meter Index M3	our meter Index shows reading in M3 at Base condition. Kindly accept.	Meter Index to indicate m3
17)	III / SECTION - II	21 of 24	INGRESS PROTECTION	Meters are IP 66 Protected.	Noted
18)	III / SECTION - II	21 of 24	Valve between inlet and outlet	We request BGL to have domestic meters with internal shut off mechanism. for post paid system or pre paid system , this can be activated at later stage. As shut off valve can not be added at later stage , it should get with the meters to achieve smart functions. Pl. confirm the meters with shut off valves.	Tender conditions prevail
19)	III / SECTION - II	21 of 24	Leak Testing	We are offering Complete Electronic Meter , for leak test we do pneumatic Test only. Pl. accept.	Noted and shall be as per applicable standard.

20)	III / SECTION - II	22 of 24	Input Pulse characteristics	The Smart meter offered by us is having all the facility including AMR , GPRS , and volume measurement on one electronic board. There is no separate pulse generator envisaged. Pl. accept	For Diaphragm Meters: Inductive / Magnetic Pulse output and retrofit type AMR shall be considered. For other technology meters like - electronic meters: Pulse output type & MIU integrated / retrofit -as per meter manufacturer standard is also acceptable.
21)	III / SECTION - II	22 of 24	Power Supply	Meter is having 2 batteries 1. for meter - having life upto 15 years which is not replaceable. 2. for AMR - having life upto 8 years which is replaceable. Pl. accept.	Meter battery shall be suitable for life period of 20years as per TS.
22)	III / SECTION - II	23 of 24	Mounting	As our supplied meters body is made with Gavenised Steel and we confirm that it can hold the Meter on Gas PipeLine with Ease , so no need of extra mounting. Pl. confirm	Mounting bracket shall be supplied for each meter to suite its size & weight.
23)	III / SECTION - II	23 of 24	Operating Temperature	We supplies meters with Operating Temp. Range from -25 to +55 degC. Pl. accept	Tender conditions prevail
24)	III / SECTION - II	23 of 24	End Connections (Two-pipe version)	We will supply suitable adaptors as per requirement of BGL , if END Connections is not matching with BGL Specs. Pl. accept.	Refer Datasheet
25)	III / SECTION - II	23 of 24	Meter Index	our meter Index shows reading in M3 at Base condition. Kindly accept.	Meter Index to indicate m3
26)	III / SECTION - II	23 of 24	INGRESS PROTECTION	Meters are IP 66 Protected.	Noted.

27)	III / SECTION - II	23 of 24	Leak Testing	We are offering Complete Electronic Meter , for leak test we do pneumatic Test only. Pl. accept.	Noted and shall be as per applicable standard.
28)	III / SECTION - II	24 of 24	Input Pulse characteristics	The Smart meter offered by us is having all the facility including AMR , GPRS , and volume measurement on one electronic board. There is no separate pulse generator envisaged. Pl. accept	For Diaphragm Meters: Inductive / Magnetic Pulse output and retrofit type AMR shall be considered. For other technology meters like - electronic meters: Pulse output type & MIU integrated / retrofit -as per meter manufacturer standard is also acceptable.
29)	III / SECTION - II	24 of 24	Meter Internal Valve reset (Open)	For safety reasons we request BGL not to ask for Internal valve reset remotely. Request to Open valve only manually only. Pl. accept.	Tender conditions prevail
30)	-	-	Bid Due Date & Time	We are very keen to participate in subject tender and need some more time to submit our complete bid, we request you for extension of due date and enable us to submit our bid.	Refer Corrigendum
31)	II / SCC / Section -III D / Clause 1.1.1	-	PAYMENT TERMS AND MODE OF PAYMENT	Requesting you to please consider: A) 90% payment after receipt of goods. B) Balance 10% (ten percent) of the supplied portion will be paid within 30 days after successful integration and commissioning of the system as specified in the Technical Specifications/ Material Requisition after adjustment of PRS, if any duly certified by Engineer-in-Charge (EIC) along with submission of Work Completion Certificate and No Claim Certificate.	Tender Conditions prevail

				However, if the integration and commissioning of the system is delayed due to non-availability of site clearance by Owner, this balance payment of 10% will be released by BHAGYANAGAR Gas after 6 months from the date of material acceptance at site, against submission of bank guarantee for equivalent amount. The BG will be valid for 12 months initially and will be extended till completion of the integration and commissioning of the system, duly certified by Engineer-in-Charge (EIC). Such rescheduling, if any, will be intimated by EIC.	
32)	-	-	Bid Due Date & Time	Request you to please extend BID due date till 30.09.2019.	Refer Corrigendum

Note: This document shall form an integral part of the bidding document and shall be signed/stamped and submitted along with the bid.

(STAMP & SIGNATURE OF BIDDER)