

NATIONAL POWER CORPORATION

SUPPLEMENTAL / BID BULLETIN NO. 6

PR NO. HO-PIG25-002 / REF. NO. PB250408-AM00075 SUPPLY, DELIVERY, CONSTRUCTION, INSTALLATION, TESTING AND COMMISSIONING OF 10MVA MASBATE (MALINTA) SUBSTATION

08 MAY2025

All prospective bidders and authorized copyholders of the Bid Documents of the project mentioned above are hereby informed of the changes/clarifications as follows:

INVITATION TO BID (PUBLIC BIDDING -BC\$ 2025-0131) BID SUBMISSION / OPENING		
FROM	то	
13 MAY 2025	20 MAY 2025	
9:30 A.M. Kañao Room	9:30 A.M. Kañao Room	

BID DOCUMENTS SECTION VI TECHNICAL SPECIFICATIONS ANNEX B (TO BE SUBMITTED DURING POST-QUALIFICATION)		
FROM	то	
B.21.0: VOICE AND DATA (TELEPHONE AND LAN), CCTV, AND TWO-WAY RADIO COMMUNICATION EQUIPMENT	B.22.0: VOICE AND DATA (TELEPHONE AND LAN), CCTV, AND TWO-WAY RADIO COMMUNICATION EQUIPMENT	

All other terms and conditions shall remain the same. Supplemental for clarifications shall only supersede the affected requirements.

For the information and guidance of all authorized copyholders of the Bid Documents and prospective bidders.

For the Bids and Awards Committee:

LARRY I. SABSI LINA
Vice-President, Mindanao Generation

and Chairman, Bids and Awards Committee



NATIONAL POWER CORPORATION

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B.22.0: VOICE AND DATA (TELEPHONE AND LAN), CCTV, AND TWO-WAY RADIO COMMUNICATION EQUIPMENT

B.22.1 Technical Characteristics and Requirements

The Contractor shall indicate that their data corresponds to the NPC requirements for the Telephone System.

B.22.2 Telephone Cabinet and UPS

		NPC Requirement	Contractor's Data
a.	Cubicle type	19" rack, sheet steel with powder-coated black finish	
b.	Panel type	42(H) x 600mm(W) x 800mm(D)	
C.	Perforated front and back doors, detachable side panels with lock & keys	Yes .	
d.	Accessories	3-fixed trays, 4-top mounted exhaust fans, adjustable square-hole rail with cage nut & bolts	
e.	Cable manager & Power Distribution Unit (PDU)	Vertical mount cable manager, 15-outlet, 3-prong PDU with 3M cable length	**
f.	Cable entrance	Top & bottom	
g.	6KVA Uninterruptible Power Supply (UPS), online double conversion with power factor correction system, rack mounted complete with network communication card	To be provided	

Name of Bidder:	II / or life or
Name & Signature of Bidder's Representative:	
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B.22.3 Telephone (IP-PBX)

General

	a.	Main unit	IP-PBX (Hybrid) VoIP technology, multi-service platform	
	b.	Mounting	19"-horizontal rack-mounted	
	C.	Module slot	At least four (4) slots	
	d.	FXO module (trunk line)	≥ 3-FXO port (analog trunklines)	
	e.	FXO module (analog device)	≥ 8-FXO port (analog extensions)	
	f.	Ethernet port	≥ 3 x 10/100/1000 Mbps ports	
	g.	Supported G.729a compression channel	≥ 64-channel	
	h.	Operating temperature	≥ 40 °C	
	i.	Support dedicated media gateway	Yes	-
	j.	Input voltage & frequency rating	100 ~ 240VAC, 60Hz	
	k.	Configuration Editor Software	To be provided as part of the supply of IP-PBX equipment	
	l.	1U 24-port Cat6 (180°) patch panel With labelling holder, dual type	To be provided	
Name of	Bidde	r.		
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	m.	SIP trunk/channel proxy licenses, DSP module/controller	To be provided	
B.22.4	Оре	erator IP-Phone Handset		
	a.	1-unit, at least 3.5" color LCD, HD audio, full-duplex, 2-gigabit POE port, black color	To be provided	
B.22.5	Tel	ephone Analog Handset		
	a.	Analog phone (8 units), black color	At least eight (8) programmable keys, hands-free speakerphone	
B.22.6	Ter	minal Block and Cable Requirement	ts	
	a.	Supply of interconnecting cables between IP-PBX and the telephone handsets and outlets	To be provided	
	b.	Supply of interconnecting cables from the IP-PBX to the Low Earth Orbit (LEO) internet link	To be provided	
	C.	4 x 10-pair, type 110 punch-down terminal block with back plate, 2-port faceplate Information Outlet (I/O), RJ45 and RJ11 connectors, Cat5e Foil Twisted Pair (FTP) cable, and 1U cable management.	To be provided	
B.22.7	Pro	gramming Requirements		
	follo app	IP-PBX program configuration shall by the NPC dialing plan, including lication software and a data ever/programming device.	To be provided	
3.22.8	Con	tractor's Field Service Representativ	e	
	The	contractor shall provide the services of	a testing engineer at the jo	ob site.
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B.22.9	Data	Retriever/Programming Device	NPC Requirement	Contractor's Data
	a.	Туре	Laptop computer	
	b. 1	Hardware . Processor	Intel Core i5 or better	
	2	. Clock Frequency, GHz	Fastest speed available	
	3	. Memory	≥16GB SSD	
	4	. Storage	≥1TB SSD	
	5	. Video Card	≥4GB	
	6	. Display	≥15" LED display	
	7	. Built-in audio system	Yes	
	8	. Built-in camera with microphone	Yes	
	9	. Operating and application software	Licensed Windows 11 Pro 64-bit and Microsoft Office 2022 Pro Plus	
	1	Power supply/battery backup	To be included	
	1	Interface ports	USB, HDMI, and card reader ports	
	1:	2. Network	Wi-Fi, Bluetooth external LAN adapter	
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SECTION VI - TECHNICAL SPECIFICATIONS

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B.22.10	CCI	TV EQUIPMENT		
			NPC Requirement	Contractor's Data
	a.	Network Video Recorder (NVR)	One (1) unit 8-channel, 2–1 x 8TB NAS HDD, VGA, HDMI, USB interface	,
	b.	5MP bullet type (outdoor) IP-camera POE with 4 x 4 WP box	Five (5) units	
	C.	5MP dome type (indoor) IP-camera POE with 4 x 4 WP box	Three (3) units	
	d.	8-port gigabit POE managed switch with 2-1x10Gbe transceiver uplink port	One (1) unit	
	e.	Cat6 STP (shielded twisted pair) cable	One (1) box	
	f.	LED monitor display, complete with wall mounting bracket	One (1) unit, VGA, HDMI interface ports, with 15-meter HDMI cable	
B.22.11	TW	D-WAY RADIO COMMUNICATION	NPC Requirement	Contractor's Data
	a.	Base station 136~174MHz, 45 watts' output, analog/digital sensitivity 0.3uV/ 0.22uV, ABME+ 2TM digital vocoder Provisions of OTA programming, dual capacity, IP-54, complete with external speaker, PTT mic, 30A switching power supply	One (1) unit, compliant to FCC & ICC standards	
	b.	Base antenna, Omni-directional fiberglass ≥ 3.8dB gain, 144~174MHz, 200 watts (max) complete with 50-ohm high-grade RG-8 coaxial cable, connectors and surge protector	One (1) set	
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SECTION VI - TECHNICAL SPECIFICATIONS

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c. /	60-foot antenna mast, painted as per CAA standard complete with climbing steps, accessories: concrete pedestal, anchor bolts, turn-buckle, guy wire, ground cable and lightning rod (Refer to reference drawing)	One <u>(1)</u> set	
d.	Mobile station 136~174MHz, 45 watts output, analog/digital sensitivity 0.3uV/ 0.22uV, ABME+ 21M digital vocoder Provisions of OTA programming, dual capacity, IP-54, complete with PTT mic and vehicle DC cable with fuse.	Two (2) units, compliant to FCC & ICC standards	
e.	Mobile antenna, Omni-directional, 5/8 wave whip with PO/SO-239 magnetic base mount, 200 watts (max) at 50-ohms, complete with 50-ohm high-grade RG-58 coaxial cable and PL-259 connector	Two (2) sets	
f.	Portable station, LKP display, 5 watts RF output, analog/digital sensitivity 0.16uV/0.14uV, AMBE+2TM, digital vocoder, IP-67, MIL-STD, complete with spare lithium-ION battery pack and battery charger	Four (4) sets, compliant to FCC & ICC standards	
g.	Programming (as per NPC licensed radio frequency), VWSR test, NTC licensing, and assistance fee for the two-way radio communication system	To perform	

Name of Bidder:	
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FOR REFERENCE ONLY (SHEET 1 OF 2)



