

GENERAL HEADQUARTER SIGNALS DIRECTORATE RAWALPINDI**SHORT TENDER NOTICE NO 1249/SIGS-2B/5**

1. General Headquarters Signals Directorate Rawalpindi invites sealed bids for procurement of Information Technology (IT) based equipment and repair/ maintenance of IT based services for financial year 2026/27 "FOR" Rawalpindi basis from the original manufactures/ authorized distributors/ contractors registered with Income Tax and Sales Tax Departments. Firms should also be security wise cleared and registered with reputable Govt departments/ institutions (MoD, MoDP, MoIT etc):-

Ser	Items	Opening Date
(1)	Microwave Radio (min 100 expandable upto 400 Mbps) with all power accessories or equivalent	14 July 2026 (Tuesday)
(2)	Spare IDU of IP Microwave Radio (NERA XPAND, XTEND (XT Nex-G), Aggregate) or equivalent	
(3)	Spare ODU of IP Microwave Radio (NERA XPAND, XTEND (XT Nex-G), Aggregate) or equivalent	
(4)	Spare Power Supply of IP NERA XPAND, XTEND (XT Nex-G), Aggregate MW Radio (100 Mbps) or equivalent	
(5)	TNC Connectors of IP NERA XPAND, XTEND (XT Nex-G), Aggregate MW Radio (100 Mbps) or equivalent	
(6)	FMX Multiplexer 256 Channels (with dual connectivity i.e both OFC and E1 Based) AEONN, Humanity, OLT, OPNET, PMUX3044, Siemens, YK NT, EZWELL Technologies or equivalent	
(7)	FMX Multiplexer 120 Channels (with dual connectivity i.e both OFC and E1 Based) AEONN, Humanity, OLT, OPNET, PMUX3044, Siemens, YK NT, EZWELL Technologies or equivalent	
(8)	FMX Multiplexer 60 Channels (with dual connectivity i.e both OFC and E1 Based) AEONN, Humanity, OLT, OPNET, PMUX3044, Siemens, YK NT, EZWELL Technologies or equivalent	
(9)	FMX Multiplexer 30 Channels (with dual connectivity i.e both OFC and E1 Based) AEONN, Humanity, OLT, OPNET, PMUX3044, Siemens, YK NT, EZWELL Technologies or equivalent	
(10)	FMX Multiplexer 8 Channels (with dual connectivity i.e OFC/ E1 Based) AEONN, Humanity, OLT, OPNET, PMUX3044, Siemens, YK NT, EZWELL Technologies or equivalent	
(11)	FMX Multiplexer 4 Channels (with dual connectivity i.e OFC/ E1 Based) AEONN, Humanity, OLT, OPNET, PMUX3044, Siemens, YK NT, EZWELL Technologies or equivalent	
(12)	Point to Point/ Multipoint Microwave Equipment (Nano Bridge) 50 Mb Data, FXO/ FXS Supported (DLB5/5ac or equivalent)	
(13)	Infinet Wireless Solution (Quanta-4, Q4-E, 4 GHz, point to point unit, net throughput upto 650 Mbps) along with complete accessories/ Power solutions or equivalent	
(14)	Spare 8 Port FXO/ FXS Voice Gateway for Point to Point/ Multipoint Microwave Equipment (50 Mb Data) FXO/ FXS Supported (DLB5/5ac or equivalent)	
(15)	Spare 2 Port FXO/ FXS Voice Gateway for Point to Point/ Multipoint Microwave Equipment (50 Mb Data) FXO/ FXS Supported (DLB5/5ac or equivalent)	

(16)	FXS Cards for PCM Multiplexer (8, 30, 60, 120 & 256 Chs) XEDCOM/ EZWELL or equivalent
(17)	FXO Cards for PCM Multiplexer (8, 30, 60, 120 & 256 Chs) XEDCOM/ EZWELL or equivalent
(18)	Motherboard of PCM Multiplexer (8 Channels) FXS side XEDCOM/ EZWELL or equivalent
(19)	Motherboard of PCM Multiplexer (30 Channels) FXS side XEDCOM/ EZWELL or equivalent
(20)	Motherboard of PCM Multiplexer (60 Ch) FXS side XEDCOM/ EZWELL or equivalent
(21)	MSAP Multiplexer (30 Chs) with complete accessories (with dual connectivity i.e both OFC and E1 Based) OPNET Technologies or equivalent
(22)	FXS Cards for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(23)	FXO Cards for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(24)	E1s Cards for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(25)	OFC Cards for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(26)	STM-1 Cards for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(27)	DLAN Cards for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(28)	ADP Cards for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(29)	ELU Cards for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(30)	Channel Bank Assembly - Type C (CBA-C) for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(31)	Local Power Supply Unit (L-PSU) for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(32)	Remote Power Supply Unit (R-PSU) for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(33)	Central Processing Unit (CPU2) for MSAP Multiplexer (30 Channels) (OPNET Technologies or equivalent)
(34)	Optical Modem 4E1 (80 Km, 40 Km) Range
(35)	Optical Modem 8E1 (80 Km, 40 Km) Range
(36)	Optical Modem 16E1 (80 Km, 40 Km Range)
(37)	1E1 to Ethernet Converters
(38)	2E1s to Ethernet Converters
(39)	4E1s to Ethernet Converters
(40)	8E1s to Ethernet Converters
(41)	16E1s to Ethernet Converters
(42)	Fiber to Ethernet Media Converters (Single Strand 20 Kms Range) or equivalent
(43)	POE Switch 8 & 24 ports (Huawei S5700 / S5735 or equivalent)
(44)	Core Switch CON-SCP-SG3019EU with 24x SFP Ports including complete accessories/ Power Supply (Cisco or equivalent)
(45)	Core Switch 3750x24 with 24x SFP Ports including complete accessories/ Power Supply (Cisco or equivalent)
(46)	Edge Switch (24 Ports) (Cisco or equivalent)
(47)	Edge Switch (8 Ports) (Cisco or equivalent)
(48)	SFP GLC-LHSMD (Cisco or equivalent)
(49)	PWR-RPS2300 (Cisco or equivalent)
(50)	Power C3K-PWR-1150WAC (Cisco or equivalent)
(51)	OTN-1800II (OptiXtrans E6608) with Cards (Huawei or equivalent)

(52)	Cards of OSN-1500B & OTN-1800II (or equivalent). Details in tender documents.
(53)	Bit Error Measuring Tester (E1 and Data Circuit Tester) Acterna JDSU EDT-135 or equivalent
(54)	130 Watt Portable and Foldable Solar Power array
(55)	Solar Invertor 1 KVA for 130 Watt Portable and Foldable Solar Power array.
(56)	Rectifier Huawei (4830/ 4850) or equivalent
(57)	Module for Rectifier Huawei (4830/ 4850) or equivalent
(58)	Emerson Rectifier Modules (Model HD4830-3) or equivalent
(59)	Emerson Rectifier 30 A (Complete) or equivalent
(60)	Emerson Rectifier Rack (Compatible with Module Model R482900U) or equivalent
(61)	Idea Hub S2 or S3 or equivalent (65" Interactive Screen, built in camera, mic 500, ICD OPS i5 and speaker Cat-6 and 2x S-Pen with VC license), Touch Panel, VT-UPS & Switch S6730
(62)	Laptop Core i3/ i5, 12 th Generation, 16 GB SSD RAM, 512 GB SSD HDD, 15.6 inch display, Intel Graphics (HP/ Dell or equivalent)
(63)	SFP 622Mbps 1310nm (40 Kms Range) (Huawei or equivalent)
(64)	SFP 2.5G 1310nm (40 Kms Range) (Huawei or equivalent)
(65)	SFP 2.5G 1550nm (80 Kms Range) (Huawei or equivalent)
(66)	SFP 2.5G 1550nm (120 Kms Range) (Huawei or equivalent)
(67)	SFP 1.25G 1310nm (10 Kms Range) (Huawei or equivalent)
(68)	SFP 10G 1550nm (40 Kms Range) (Huawei or equivalent)
(69)	SFP 10G 1550nm (80 Kms Range) (Huawei or equivalent)
(70)	SFP 10G 1550nm (120 Kms Range) (Huawei or equivalent)
(71)	Installation of FTTH solution including testing/ commissioning and procurement of following equipment:- (a) GPON OLT Main Chassis with MCUA, GPSC, PWR, FAN Module, GPON SFP and modules. (b) OLT Modules. (c) Rectifier (48VDC 30 Amp). (d) Dry Battery 12V / 100 AHC. (e) 8 Port FXO Voice (Terminal), 220VAC - 12DC. (f) 24 Port L2 Manageable Network Switch. (g) 5 KVA UPS for FTTH. (h) ETSI 19 inch Cabinet (42U with trays). (i) 24 Port OFDF Rack Mount for FTTH. (j) NMS / EMS Basis Platform plus XPON License. (k) Laptops Core-i7 for FTTH (Dell/ HP or equivalent). (l) Allied Cabling for FTTH. (m) 1/2 Core Fiber Drop Cable. (n) Outdoor Cabinet for FTTH. (o) Outdoor Cabinet with Cemented Base for FTTH. (p) 1:4/8/16/32 Box Splitter. (q) Installation and Commissioning.
(72)	Installation of Conference Solution all over the country including testing/ commissioning and procurement of following equipment:- (a) Multi Point Yealink Video Conference System (or equivalent) (b) Multi Point Video Conference Camera (or equivalent) (c) Multi Point Video Conference Mic. (d) Perpetual Licenses of the system. (e) NMS including configuration and installation. (f) TCL LED 65" (or equivalent). (g) 27 U Rack. (h) Idea Hub System. (i) Cabling Accessories. (j) APC UPS (1 KVA built-in batteries) or equivalent.

	(k) Indigenous Encryption Device. (l) Delivery, transportation, Installation and commissioning. (m) One year on-site Operations & maintenance.	
(73)	Installation of Pakistan Army Telepresence System (PATs) including testing/ commissioning and procurement of following equipment:- (a) Huawei Box-310 Video Conference End Point. (b) Huawei Camera 200 HD with accessories. (c) Huawei Mic-500 Microphone Array. (d) Switch S5735 (8 Ports) Non POE. (e) SFP 1.25G. (f) Patch Cords (LC to LC)	
(74)	Portable SATCOMS Terminal (including complete accessories):- a. Memotec (SDM9120) including FXS Card & E1T1 Cards b. Dish Antenna 0.9m c. Block up Converter (BUC) - 4 W d. Low Noise Blocker (LNB) Ku Band e. Routers IQD+ or equivalent f. Equipment Carrying Case (SKB) g. Portable Case for AVR and Gen Set h. Mini Laptop (Core i5/ i7) - HP/ Dell i. Homage UPS (1.5 KVA) with built-in batteries or equivalent j. Gen Set (2 KVA) Honda Petrol or equivalent k. AVR (2 KVA) l. IFL Cable RG6 (30 mtr) m. Ethernet PCM Cable (10 Pieces of 2 mtr) n. Earth Rod (2.5 ft) o. Earth Cable (10 ft) p. Patch Panel q. RJ-45 Jointer for Patch Panel (3x per terminal) r. RJ-11 Jointer (5x per terminal) s. AC input Male/ Female connector (2x per terminal)	
(75)	Fixed SATCOMS Terminal (including complete accessories):- (a) Memotec (SDM9120) including FXS Card & E1T1 Cards (b) Dish Antenna (1.2 m) (c) Block up Converter (BUC) - 8 W (d) Low Noise Blocker (LNB) Ku Band (e) Routers IQD+ (f) Equipment Rack (g) Portable Case for AVR and Gen Set (h) Mini Laptop (i) UPS (5 KVA) with built-in batteries (j) Gen Set (3 KVA) Honda Petrol or equivalent (k) AVR (3 KVA) (l) IFL Cable RG6 (30 mtr) (m) Ethernet PCM Cable (10 Pieces of 2 mtr)	
(76)	Briefcase SATCOMS (Satcube or equivalent) including complete accessories:- (a) iDirect IQ 200 Satellite Modem (b) Antenna (c) Wi-fi Module (d) Hot-swappable battery pack (e) Block Up Converter (BUC) 50 Watt (f) Low Noise Blocker (LNB) (g) SATCUBE GUI (h) Display and Pointing System	
(77)	Fabrication of Communication on the Pause (COTP) Vehicles	
(78)	Internet Protocol (IP) Encryptor (NS5193 or equivalent) (with complete accessories including Power Cable with adaptor, Smart Card, Operation/ User Manual	

(79)	E1 Encryptor (NS3101/NS31111 or equivalent) (with complete accessories including Power Cable with adaptor, Smart Card, Operation/ User Manual	
(80)	VPN Concentrator (NS) 24/ 48/ 96 Ports or equivalent	

2. Bidding documents containing detailed terms and conditions can be obtained from General Headquarters Signals Battalion (Quarter Master Branch) Adayala Road Rawalpindi on any working day on provision of **Bank Drafts** amounting to **Rs 10,000.00** (Rupees Ten thousand only) tender fees (**non-refundable**) in favour of the General Headquarters Signals Directorate. The tender must be submitted alongwith sealed brochure/ sample by due date at **1030 hours**. Technical Proposals will be opened on same date at **1100 hours**. Financial bids will be opened in the presence of representatives of bidders after the evolution of Technical Proposals.

3. The procuring agency may reject any bid or all bids at any time. The procuring agency shall upon request communicate to any supplier, the grounds for its rejection, but is not required to justify those grounds. **No refurbished items to be quoted. Partial bidding is not allowed against project mentioned at serial (71) to serial (76).** Firm will be liable to disqualification if found contradicting to prescribed rules.

Note: "Tender is also available on PPRA website" at www.ppra.org.pk

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