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No. ENG/RBS/IMP-Tx/K&BK/2695

Dated: 16-07-2021

TENDER NOTICE

Subject: **TENDER FOR IMPORT OF 1KW VHF BAND – III TV TRANSMITTER AND ANTENNA SYSTEM FOR PTV REBROADCAST STATIONS KHARAN & BARKHAN.**

M/s. Pakistan Television Corporation Limited invites sealed tenders from interested parties, on single stage two envelope bidding procedure, for the purchase of 1KW VHF Band – III TV transmitter and complete antenna system for PTV Rebroadcast Stations Kharan and Barkhan (Baluchistan).

Interested parties may obtain tender documents (equipment specifications, BOQ/Scope of Work and terms & conditions) free of cost, from the office of the undersigned during office working hours, from the date of advertisement of the tender, or, may download the tender documents from PTV and PPRA websites. Suppliers may participate in any or all the sections of the tender.

Sealed tenders should be addressed to **Controller Audit, Chairman Senior Tender Committee**, Pakistan Television Corporation Limited, Headquarters Office, Constitution Avenue, Islamabad and must reach in the office on or before **Wednesday, 25th August, 2021 at 2:00 P.M.** The technical and financial proposals must be sealed in separate envelopes mentioning "TECHNICAL PROPOSAL" and "FINANCIAL PROPOSAL" and placed together inside the main envelope. The main envelope should clearly mention "**Offer for 1KW Transmitter and Antenna System**". The technical prequalification envelopes shall be opened on the same day at 2:30 P.M., in the office of **Controller Audit, Chairman Senior Tender Committee**, in the presence of bidders/agents who may like to attend. Financial proposals of only technically prequalified suppliers shall be opened later, and, date, time and venue of the opening will be communicated to the suppliers. PTV reserves the right to reject all bids or proposals as per clause 33 of the PPRA Rules, 2004.



Controller Engineering (RBSs)
Room No. 205, 2nd Floor, Block No.1,
PTV-Headquarters Office, Islamabad.
Ph. No. 051-9077362, 051-9077311.

PAKISTAN TELEVISION CORPORATION LIMITED

TENDER DOCUMENTS

**TECHNICAL SPECIFICATIONS FOR
1KW VHF BAND – III TV TRANSMITTER AND ANTENNA SYSTEM
FOR PTV RBS KHARAN, BALUCHISTAN**

**“SECTION A”
TRANSMITTER**

SR. NO.	SPECIFICATIONS	EQUIPMENT's MAKE & MODEL	COUNTRY OF ORIGIN
A	MAIN FEATURES		
A1	1KW VHF (Band-III) analogue common amplification TV transmitter, 625 lines CCIR PAL/B standard, with equipment rack, forced air cooled and compact size power supplies & power amplifier having following features and specifications:-		
A1.1	Output 1KW Peak Sync Power and 100W Average Aural Power.		
A1.2	Air-cooled dummy load with average power meter.		
A1.3	Fixed Channel Transmitter for channel tuning (VHF BAND III).		
A2	TECHNICAL SPECIFICATIONS		
A2.1	Operable at 3 phase, 4 wire 380/400V AC \pm 10%, 50HZ.		
A2.2	Operating temperature: -10°C to 55°C.		
A2.3	Humidity: Up to 90%.		
A2.4	Video input : Composite 1Vp-p 75 Ohms, BNC connectors		
A2.5	RF Out Impedance : 50 Ohm		
A2.6	VSWR : Less than 1.1		
A3	ACCESSORIES		
A3.1	1KW dummy load for band III along with power meter.		
A3.2	Auto/Manual changeover coaxial switch along with cable between two transmitters (active & stand-by transmitter).		
A3.3	RF Coaxial pipe and elbows (Installation Material).		

“SECTION B”
ANTENNA SYSTEM

SR. NO.	DESCRIPTION	SPECIFICATIONS	MAKE, MODEL & COUNTRY OF ORIGIN
B	ANTENNA SYSTEM AND MAIN FEEDER CABLE		
B1	Antenna System Configuration:	Omni Directional (2 Panels in each direction)	
	Antenna Panel		
B1.1	Antenna Panel Type	4 Dipole per panel, Galvanized.	
B1.2	Frequency Range	Band III (174 to 230 MHZ)	
B1.3	Input Impedance	50 Ω	
B1.4	Input Connector	EIA	
B1.5	Polarization	Horizontal	
B1.6	VSWR	Per Panel less than 1.05, System VSWR Less Than 1:1	
B1.7	Gain	At least 10.8dB per panel	
B1.8	Weight (Per Panel)	Please specify	
B1.9	Wind Load	Please specify	
B1.10	Max Wind Velocity	180-220km/h	
B2	Power Feeding System		
B2.1	i) Main power divider 1:4, ii) Sub power Divider 1:2 iii) Branch feeder cable having EIA connectors at both ends.		
B2.2	Frequency	Operable on Band III	
B2.3	Impedance	50 Ω	

“SECTION C”
MAIN RF POWER CABLE

C	MAIN RF POWER CABLE (COPPER)		
C1	Main Coaxial RF Feeder Copper Cable	1-5/8” size, Air Dielectric cable with both ends EIA connectors. Along with fixing accessories / Dehydrator fixing provision and mounting hardware.	
C1.1	Frequency Range	Band III (174 to 230 MHz)	
C1.2	Input impedance	50 Ω	
C2	Dehydrator		
C2.1	Dehydrator	Compressor operated, manual reactivation of dry agent (Silica Gel). Operable 230V, AC, 50Hz, Single phase.	

NOTE:

- i. Please provide radiation pattern diagram of antenna system.
- ii. Also provide the power feeding system diagram of antenna system.

TECHNICAL SPECIFICATIONS FOR
VHF BAND – III ANTENNA SYSTEM
FOR PTV RBS BARKHAN, BALUCHISTAN

“SECTION A”
ANTENNA SYSTEM

SR. NO.	DESCRIPTION	SPECIFICATIONS	Make, Model & Country of Origin
A	ANTENNA SYSTEM AND MAIN FEEDER CABLE		
A1	Antenna System Configuration:	Tri Directional (2 Panels in three directions)	
	Antenna Panel		
A1.1	Antenna Panel Type	2 Dipole per panel, Galvanized.	
A1.2	Frequency Range	Band III (174 to 230 MHZ)	
A1.3	Input Impedance	50 Ω	
A1.4	Input Connector	EIA	
A1.5	Polarization	Horizontal	
A1.6	VSWR	Per Panel less than 1.05, System VSWR Less Than 1:1	
A1.7	Gain	At least 8dB per panel	
A1.8	Weight (Per Panel)	Please specify	
A1.9	Wind Load	Please specify	
A1.10	Max Wind Velocity	180-220km/h	
A2	Power Feeding System		
A2.1	i) Main power divider 1:3, ii) Sub power Divider 1:2 iii) Branch feeder cable having EIA connectors at both ends.		
A2.2	Frequency	Operable on Band III	
A2.3	Impedance	50 Ω	

“SECTION B”
MAIN RF POWER CABLE

B	MAIN RF POWER CABLE (COPPER)		
B1	Main Coaxial RF Feeder Copper Cable	1-5/8” size, Air Dielectric cable with both ends EIA connectors. Along with fixing accessories / Dehydrator fixing provision and mounting hardware.	
B1.1	Frequency Range	Band III (174 to 230 MHZ)	
B1.2	Input impedance	50 Ω	
B2	Dehydrator		
B2.1	Dehydrator	Compressor operated, manual reactivation of dry agent (Silica Gel). Operable 230V, AC, 50Hz, Single phase.	

NOTE:

- i. Please provide radiation pattern diagram of antenna system.
- ii. Also provide the power feeding system diagram of antenna system.

**Price Quotation as per Following BOQ/Scope of Work
For PTV Rebroadcast Station Kharan**

“SECTION A”

Sr. No.	Description of Required Items	Qty	Unit Price (US\$)	Total Price (US\$)
1	1KW VHF (Band-III) analogue common amplification TV transmitter, 625 lines CCIR PAL/B standard, with equipment rack, forced air cooled and compact size power supplies & power amplifier having 1+1 (Active + Standby) configuration. (Make & Model).	1 set (1+1)		
2	1KW dummy load for band III along with power meter. (Make & Model).	1		
3	Auto/Manual changeover coaxial switch along with cable between two transmitters (active and stand-by transmitter). (Make & Model)	1		
4	RF Coaxial pipe and elbows (Installation Material).	1 Lot		
TOTAL PRICE (US\$)				
DISCOUNT IF ANY (US\$)				
FREIGHT CHARGES (US\$)				
TOTAL PRICE CPT ISLAMABAD (US\$)				

“SECTION B”

Sr. No.	Description of Required Items	Qty	Unit Price (US\$)	Total Price (US\$)
1	Antenna Panel (4 Dipole / Panel)	8		
2	Main Power Divider (1 : 4)	1		
3	Sub Power Divider (1 : 2)	4		
4	Branch Feeder Cable with EIA Connectors at both ends. (According to power feeding system).			
TOTAL PRICE (US\$)				
DISCOUNT IF ANY (US\$)				
FREIGHT CHARGES (US\$)				
TOTAL PRICE CPT ISLAMABAD (US\$)				

“SECTION C”

Sr. No.	Description of Required Items	Qty	Unit Price (US\$)	Total Price (US\$)
SECTION C				
1	Main Coaxial RF Feeder Cable (Copper), 1-5/8” size, Air Dielectric cable with EIA connectors at both ends. Along with fixing accessories / Dehydrator fixing provision and mounting hardware. (Make & Model).	75 meter		
2	Dehydrator (Make & Model).	1		
TOTAL PRICE (US\$)				
DISCOUNT IF ANY (US\$)				
FREIGHT CHARGES (US\$)				
TOTAL PRICE CPT ISLAMABAD (US\$)				

**Price Quotation as per following BOQ/Scope of Work
For PTV Rebroadcast Station Barkhan**

“SECTION A”

Sr. No.	Description of Required Items	Qty	Unit Price (US\$)	Total Price (US\$)
1	Antenna Panel (2 Dipole / Panel)	6		
2	Main Power Divider (1 : 3)	1		
3	Sub Power Divider (1 : 2)	3		
4	Branch Feeder Cable with EIA Connectors at both ends. (According to power feeding system).			
TOTAL PRICE (US\$)				
DISCOUNT IF ANY (US\$)				
FREIGHT CHARGES (US\$)				
TOTAL PRICE CPT ISLAMABAD (US\$)				

“SECTION B”

Sr. No.	Description of Required Items	Qty	Unit Price (US\$)	Total Price (US\$)
1	Main Coaxial RF Feeder Cable (Copper), 1-5/8” size, Air Dielectric cable with EIA connectors at both ends. Along with fixing accessories / Dehydrator fixing provision and mounting hardware. (Make & Model).	75 meter		
2	Dehydrator (Make & Model).	1		
TOTAL PRICE (US\$)				
DISCOUNT IF ANY (US\$)				
FREIGHT CHARGES (US\$)				
TOTAL PRICE CPT ISLAMABAD (US\$)				

TERMS AND CONDITIONS OF THE TENDER

- i. Tenders are invited on single stage two envelope procedure.
- ii. The suppliers may quote **any equipment section** or all of the equipment sections. Technical Compliance and Financial Comparison of every equipment section will be drawn separately and contract will be awarded section-wise (to the most advantageous / lowest bidder of a specific section).
- iii. The price comparison will be drawn on equipment price only. For freight charges, the successful bidder(s) shall have to provide original Airway Bill as a proof.
- iv. All government taxes are applicable.
- v. Original Equipment Manufacturers can participate in the tender directly.
- vi. Local parties must provide agency certificate from the original equipment manufacturer.
- vii. Payment will be made through Irrevocable Letter of Credit at sight after receipt of Agreement and Bank Guarantees (10% against shipment and 5% against performance).
- viii. Company profile along with proof of relevant work experience of five years must be provided.
- ix. Copies of NTN/GST registration certificate issued by FBR must be provided (For local agents / bidders).
- x. Compliance report against each equipment specifications as per the provided specifications must be prepared & provided with tender duly signed & stamped.
- xi. Advance and / or partial payments are not admissible.
- xii. Warranty period of the equipment must be mentioned in the quotation.
- xiii. Delivery time must be mentioned in the quotation.
- xiv. Quoted prices must be on **CPT Islamabad basis.**
- xv. Quoted prices must be valid for at least a period of **180 days** from the date of opening of the tender.
- xvi. Ex-works prices will not be accepted. Tenders received after the due date / time will not be entertained.
- xvii. Earnest money @ 2% of the total bid value must be submitted with price tender in shape of pay order or demand draft in favor of Pakistan Television Corporation Limited.

- xviii. Earnest money demand drafts or pay orders of **1st & 2nd lowest** bidders shall be retained and returned after issuance of purchase order and receipt of shipment guarantee from the lowest firm.
- xix. The successful bidder has to sign an agreement with PTVC besides providing 10% bank guarantee (BG) against shipment and 5% performance guarantee (PG). The shipment guarantee shall be discharged after the consignments are received in our stores without discrepancy.
- xx. The performance guarantee shall be discharged after completion of warranty period only in case of satisfactory performance. During the warranty period, all expenses are to be borne by the supplier in case of replacement of the unit / faulty parts.
- xxi. The supplier shall be responsible for supply of spare parts for TEN years post warranty period.
- xxii. PTV reserve the right to:
 - a. Increase or decrease the quantities mentioned in the tender, based upon any revision in requirements.
 - b. Reject all the bids or proposals as per clause 33 of the PPRA rules 2004.
- xxiii. Affidavit from local agent declaring non defaulter within Pakistan with any government / public sector entity.
- xxiv. PTV defaulters / black listed firms are not qualified to participate in the bidding process.
- xxv. In case of any dispute, only court of jurisdiction at Islamabad/Rawalpindi shall have jurisdiction to decide the matter.
- xxvi. Certificate of acceptance of terms & conditions of PTV must be provided.

**Signature and Stamp of the Supplier / Vender / Agent as a token of
acceptance of Terms & Conditions**