

By Speed Post/FAX

**PRASAR BHARTI (BCI)  
DIRECTORATE GENERAL: DOORDARSHAN  
DOORDARSHAN BHAVAN, COPERNICUS MARG,  
NEW DELHI – 110 001.**

F. No 1 (5) 2009-10-EI-P (TV)

Dt. 02.12.2009

To.

M/s -----  
-----  
-----  
-----  
-----

**Subject:** Procurement of 2x20 KW UHF Antenna Systems for Mehboobnagar (A.P).

Dear Sir,

The following enclosed Annexure- 1 with Clause 3.11 for Splitter/ T –Transformer and Patch Panel at Pg. 4 of the specification is here by authorized.

This is however without any commitment whatsoever at this stage.

Yours faithfully



Preminder Singh  
(Assistant Engineer)  
For Director General  
Tele/ Fax 23387620  
E-mail: - [ddpurchase401@yahoo.co.in](mailto:ddpurchase401@yahoo.co.in)


## Annexure-1

### TECHNICAL SPECIFICATIONS FOR 20KW UHF (BAND IV/V) POWER SPLIT SYSTEM (7 PORT PATCH PANEL AND POWER DIVIDER)

- a) Accept the output of UHF Band IV/V (470-862MHz ) TV Transmitter and route the power to a power splitter or to either half of the antenna or a load.
- b) Provide high isolation to unused ports.
- c) Provide transmitter interlocks for tripping the transmitters.
- d) Provide compact package, which requires minimal maintenance and immediate and simple installation.
- e) The 7 port patch panel shall be mounted vertically on floor
- f) The 7 port patch panel shall have panel meters for forward power and reflected power display for both half of antenna.
- g) The U link provided should be able to remove and reconnect with minimum effort and should have proper gripping with locking and unlocking facility (Rapid release type).

#### 2.0. Technical specifications

No		
2.1	FREQUENCY RANGE	470 to 862 MHz
2.2	INPUT /OUTPUT POWER	≥20KW Average
2.3	INPUT / OUTPUT PORTS	3½" Unflanged
2.4	AMBIENT TEMPERATURE	≥50°C
2.5	MAXIMUM ALTITUDE	≥3000 Mtrs
2.6	ISOLATION TO UNUSED PORT	≥60dB
2.7	INPUT VSWR	≤1.05:1
2.8	INSERTION LOSS	≤0.1dB
2.9	Input, Output, U-Link, Inner Lines	3½" rigid lines only
2.10	forward and reflect power monitoring system	To be included in the offer

  
RAVINDER KUMAR  
सहायक अभियंता  
असत: एंग. ए. ए.  
राज्य विद्युत बोर्ड दिल्ली  
New Delhi

