

PRASAR BHARTI
BROADCASTING CORPORATION OF INDIA
DIRECTORATE GENERAL: DOORDARSHAN

Specifications for 50" Plasma Display Monitor

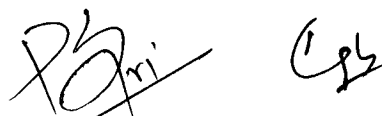
Specifications No.: SD 16/2010
Dated: 22.06.2010

1. SCOPE:

The specifications aim for the procurement of the Plasma Display Monitor, which are required in TV Studios of Doordarshan network for display of video clips and still pictures in background as a part of the set during live transmission and recording.

2. ESSENTIALLY REQUIRED FEATURES:

- a) **The offered equipment should be from an internationally reputed manufacturer and the quoted model should be field proven and in use by leading broadcasters in various continents of the World. The bidder should essentially submit the list of the broadcasters to whom the quoted model has been supplied.**
- b) The Plasma display panel monitor should be of high resolution, high contrast ratio and high brightness.
- c) The Plasma Monitor should offer superior image quality with high S/N ratio.
- d) The monitor should have analogue composite (PAL), analogue component (Y, R-Y, B-Y), Serial Digital Component (SDI) and HDMI inputs. If SDI input is not built-in, then stand-alone type SDI to HDMI converter similar to AJA Video System make Hi 5, Blackmagic Design make Mini Converter SDI to HDMI, Miranda Technologies make Kaleido-Solo, Ensemble Designs Bright Eye 72 or Kramer Electronic Make FC-331 should be offered.
- e) The necessary HDMI cable should also be offered with the product.
- f) All the analogue video inputs should be through BNC connectors, if it is not so then the bidder has to supply RCA male to BNC female Adaptor fitted with the monitor.
- g) The product should have optimal reliability for continuous operation.
- h) It should have full function wired / wireless remote control unit for day to day adjustment of major parameters like picture size & aspect ratio, brightness color & contrast control etc.
- i) The monitor should be easy to mount on space saving location and should be supplied with desk mount swivel stand.



- j) Wall mounting unit, Ceiling/Suspended mounting unit and pedestal mounting unit complete in all respect **must also be offered as optional items along with the equipment.**
- k) The bidder should ensure the completeness of the offered product in all respect.
- l) The Bill of material required is given in **Appendix-I.**
- m) The equipment are being procured for various Doordarshan centres as per **Appendix-II.**

3. TECHNICAL SPECIFICATIONS FOR PLASMA DISPLAY MONITOR

(PAL):

- a) Screen Size : 50" diagonal
- b) Aspect Ratio : 16:9
- c) Number of Pixels : 1920 x 1080
- d) Contrast Ratio : better than 10000:1
- e) Brightness : 1100 cd/m² or better
- f) Viewing angle(H & V) : 178° or more
- g) Audio power (RMS) : .10W+10W
- h) **Video Input & levels**
 - i. Composite : 2 or more, 1 Vp-p, 75Ω, BNC
 - ii. SD - SDI : 1 or more, 800 mV, 75Ω, BNC (SMPTE 259M)
 - iii. Analogue Component : 1 or more Y-1Vp-p, R-Y & B-Y 0.7V
 - iv. HDMI : 3 or more HDMI 1.3 or better
 - v. PC interface : 1 x D-sub 15 pin /Mini D-sub 15 pin, Analog RGB
- i) Power Supply : 230± 5 % V AC, 50 Hz
- j) Operating Temperature : 0 to 35° C

4. COMPLIANCE:

- (a) Any substandard equipment included in the offer may cause the rejection of complete offer with the sole responsibility of bidder.
- (b) The firm should provide the offered un-priced bill of material in electronic form also in addition to the hard copy for ease of technical evaluation.
- (c) **A point-by-point compliance statement from the principal manufacturer in respect of all the points laid down in these specifications is to be enclosed along with the offer in the format given below. Mere signature on the copy of the specifications shall not be accepted as a compliance statement.**

The figures so mentioned should be supported by record of these in the technical literature enclosed with the tender and reference to the page number of enclosed literature for all features and technical specifications should be mentioned in the relevant column. Offers without the compliance statement or with incomplete compliance statement will liable to be rejected with the sole responsibility of the bidder. Any deviation from the specification detailed in the compliance statement is to be highlighted separately.

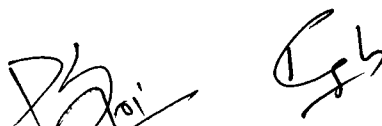
Sr. No of DD specs.	DD specs.	Compliance (Yes/No)	Performance Fig. of equipment Offered.	Reference to the Page Number of enclosed literature	Deviations, in case of non-compliance	Optional items if any reqd. to make the sys. Compliant to DD specs.	Features in the offered Product which exceeds DD specs.

5. ACCESSORIES:

All the accessories such as power cables, connectors etc. required to complete the system should be offered by the firm and **the firm should certify the completeness of the system in all respect.** All the optional items should be quoted separately. The bidder must provide enough details about such optional items to decide its utility.

6. DOCUMENTATION:

One set of printed technical and operation & maintenance manuals for all the equipments are to be provided on non-returnable basis along with the tender to facilitate the technical evaluation, otherwise the tender is liable to be ignored. The successful bidder will have to supply one set of printed



operation, service and maintenance manuals with respect to each equipment.

7. GUARANTEE:

- (a) The system should be guaranteed for two years of trouble free operation from the date of supply. In case of any equipment failure including software and hardware within this period, the same shall be rectified or replaced free of cost to Doordarshan.
- (b) The guarantee should cover all hardware, software and modules of the complete system.

8. DEMONSTRATION:

If necessary, the firm may be asked for demonstration of the offered system as part of the technical evaluation. In such case the firm will have to make suitable arrangement for the demonstration of the offered system at Doordarshan Bhawan, New Delhi, on notice of 7 days. Accordingly the firm should be in readiness for demonstration on a notice of 7 days.

9. INSPECTION:

The equipment shall be subjected to inspection by Doordarshan officials at New Delhi.

10. ENCLOSURES:

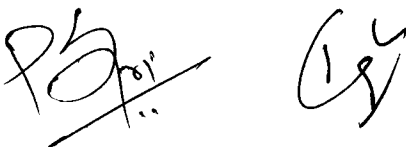
The bidder must necessarily submit the following enclosures along with the technical bid:

- (a) Compliance statement with respect to all the points of the specifications duly signed by the OEM.

The reference to the page number of enclosed literature for all features and technical specifications should be essentially mentioned in the relevant column of the compliance statement.

- (b) Technical manuals/Detailed technical literature/catalogues for all the offered products for substantiating the model no. and technical specification.
- (c) **Model specific User list of the offered product.**
- (d) Any other document mentioned elsewhere in the tender document.

The tender is liable to be rejected in the absence of the above enclosures with the sole responsibility of the bidder.



BILL OF MATERIAL

Sl. Nos.	Detail of Items	Qty.
1.	50" Plasma Display Monitor with accessories including HDMI cable, Desk mount swivel stand etc.	31 Nos.
2.	Wall mounting unit, Ceiling/Suspended mounting unit and pedestal mounting unit complete in all respect to be offered as optional items	Per Set
3.	Operation manual/User Guide/ Technical Manual/ Installation Manual etc.	31 Sets
4.	Service & Maintenance Manuals	31 Sets



**EQUIPMENT ARE BEING PROCURED FOR THE FOLLOWING
DOORDARSHAN CENTRES**

Sl. No.	Zone	Location of Doordarshan Centre	Qty.
1.	North Zone (NZ)	Jammu	1 Set
2.		Chandigarh	1 Set
3.		Bareilly	1 Set
4.		Shimla	1 Set
5.		Allahabad	1 Set
6.		Mau	1 Set
7.	East Zone (EZ)	Daltonganj	1 Set
8.		Mujjafarpur	1 Set
9.		Ranchi	1 Set
10.		PPC Guwahati	1 Set
11.		Siliguri	1 Set
12.		shillong	1 Set
13.		Tura	1 Set
14.		Kohima	1 Set
15.		Itanagar	1 Set
16.		Imphal	1 Set
17.		Silchar	1 Set
18.		Dibrugarh	1 Set
19.		Aizwal	1 Set
20.		Agartala	1 Set
21.	Sambalpur	1 Set	
22.	Gangtok	1 Set	
23.	South Zone (SZ)	Gulbarga	1 Set
24.		Pondicherry	1 Set
25.		Vijayavada	1 Set
26.		Portblair	1 Set
27.	West Zone (WZ)	Panaji	1 Set
28.		Raipur	1 Set
29.		Rajkot	1 Set
30.		Pune	1 Set
31.		Indore	1 Set
TOTAL			31Sets