

PRASAR BHARTI
BROADCASTING CORPORATION OF INDIA
DIRECTORATE GENERAL:DOORDARSHAN

Specifications for 14" to 17" LCD/TFT Colour Monitor

DD Specifications No.: SD 07/2010

Dated: 19.05.10



1. SCOPE:

The specification aims at the procurement of 14" to 17" LCD/Active matrix TFT LCD professional colour monitor for broadcast application in TV Studios/ OB vans in Doordarshan network.

2. ESSENTIAL FEATURES:

- (a) The offered 14" to 17" LCD/TFT LCD colour monitor should accept SD SDI input as well as analog composite video input.
- (b) The offered product should be of broadcast quality with front panel controls. The monitor should be light weight, robust, compact and rack mountable.
- (c) It should be possible for the user to select the industry standard colour temperature through menu for matching colours and gradation of the monitor.
- (d) The LCD panel should be coated with Anti-Reflection protection layer to provide high transmission rate of the internal light source and to keep the reflection from ambient light to a minimum.
- (e) The offered product should have a high brightness, high-resolution and high contrast active LCD panel.
- (f) The offered monitor should support 4:3 aspect ratio format of the video signal.
- (g) The offered product should have the facility to control the display parameters like brightness, contrast, colour saturation, sharpness etc.
- (h) The offered system should have a wide viewing angle both in horizontal and vertical directions with no reduction in brightness, picture contrast and colour saturation.

Specifications for 14" to 17" LCD/TFT Colour Monitor_ SD 07/2010 Dt.19.05.10

- (i) The LCD monitor offered should have a minimum response time for facilitating viewing of fast moving picture like sports events without any delay.
- (j) The offered monitor should function with standard AC 230 V, 50 Hz power supply. If the offered product functions on DC supply then the firm should offer the necessary standard power adapter with required cables supplied as suggested by the OEM of the LCD monitor.
- (k) The offered product should be rack mountable and hence necessary 19" mounting brackets should be supplied.
- (l) **The offered product should be of internationally reputed make, meeting the specifications. Only the proven products in the broadcasting media will be acceptable. The firm should enclose the user list of the broadcasters to whom this product has been supplied.**
- (m) **The firm has to mention the make and model of the LCD/ active matrix TFT-LCD panel used in the offered monitor and also enclose the Data sheet of the same.**
- (n) The Bill of Material required is given in **Appendix-I**.
- (o) The equipment are being procured for various Doordarshan centres as per **Appendix-II**.

3. Technical Specifications

- 1. Display size : 14" to 17" diagonally
- 2. Resolution : 1024 x 768 pixels or better
- 3. Colour reproduction : 16 millions or better
- 4. Contrast ratio : 300 : 1 or better.
- 5. Viewing Angle : 170 Deg. (H & V) or better
- 6. Brightness : 350 cd/sq.m or better
- 7. Aspect ratio : 4:3
- 8. Video Input : 1 or more SDI in BNC, 270 Mb/s, 0.8V pp across 75 ohms and 1 or more Composite in BNC, 1 V pp across 75ohms.

Specifications for 14" to 17" LCD/TFT Colour Monitor_SD 07/2010 Dt.19.05.10

9. Power supply : 230 VAC±5%, 50 Hz (If operates on DC, necessary AC to DC power supply adaptor should also be offered).
10. Power Consumption : less than 75 Watts.

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, AC to DC adopter 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

Specifications for 14" to 17" LCD/TFT Colour Monitor_SD 07/2010 Dt.19.05.10

items should be quoted separately. Firm 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.
- (b) 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.

Specifications for 14" to 17" LCD/TFT Colour Monitor_SD 07/2010 Dt.19.05.10

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- (c) Technical manuals/Detailed technical literature/catalogues for all the offered products for substantiating the model no. and technical specification.
- (d) **Model specific broadcast user list of the offered product.**
- (e) 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.

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BILL OF MATERIAL

Sr. Nos.	Description of Item	Quantity
1.	LCD/TFT Colour Video Monitor	744 Nos.
2.	19" Rack mounting bracket kit	527 Nos.
4.	Desk Stand	217 Nos.
5.	Any other accessories like power cords, AC to DC Power adapters, if required necessary to make the system fully functional.	744 Sets
6.	Operation manual/User Guide/ Technical Manual/ Installation Manual etc.	744 Sets
7.	Service & Maintenance Manuals	31 Sets

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

S. No.	Zone	Location of Doordarshan Centre	Qty.
1.	North Zone (NZ)	Jammu	24 Sets
2.		Chandigarh	24 Sets
3.		Bareilly	24 Sets
4.		Shimla	24 Sets
5.		Allahabad	24 Sets
6.		Mau	24 Sets
7.	East Zone (EZ)	Daltonganj	24 Sets
8.		Mujjafarpur	24 Sets
9.		Ranchi	24 Sets
10.		PPC Guwahati	24 Sets
11.		Siliguri	24 Sets
12.		shillong	24 Sets
13.		Tura	24 Sets
14.		Kohima	24 Sets
15.		Itanagar	24 Sets
16.		Imphal	24 Sets
17.		Silchar	24 Sets
18.		Dibrugarh	24 Sets
19.		Aizwal	24 Sets
20.		Agartala	24 Sets
21.		Sambalpur	24 Sets
22.	Gangtok	24 Sets	
23.	South Zone (SZ)	Gulbarga	24 Sets
24.		Pudhucherry	24 Sets
25.		Vijayavada	24 Sets
26.		Portblair	24 Sets
27.	West Zone (WZ)	Panaji	24 Sets
28.		Raipur	24 Sets
29.		Rajkot	24 Sets
30.		Pune	24 Sets
31.		Indore	24 Sets
TOTAL			744 Sets

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