

PRASAR BHARTI  
BROADCASTING CORPORATION OF INDIA  
DIRECTORATE GENERAL:DOORDARSHAN

**Specifications for 8.4"/9" LCD /TFT Colour monitor.**

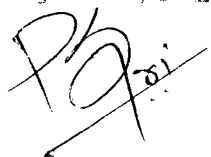
DD Specifications No. :SD 2005/ 017(M)  
Dated: 20.05.10

**1. SCOPE:**

The specification aims at the procurement of 8.4"/9" LCD/Active matrix TFT LCD professional colour monitor for broadcast applications in TV Studios/OB vans in Doordarshan network.

**2. ESSENTIAL FEATURES:**

1. The firm should offer 8.4"/9" LCD/TFT colour monitors. The monitor should accept both SD SDI as well as analog composite video inputs. The firm has to quote the product accordingly.
2. The product should be a broadcast quality monitor with front panel controls. The monitor should be light weight, robust, compact and rack mountable
3. It should be possible for the user to select the industry standard colour temperature through menu for matching colours and gradation of the monitor.
4. 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.
5. The offered product should have a high brightness, high-resolution and high contrast active LCD panel.
6. The offered monitor should support 4:3 aspect ratio format of the video signal.
7. The offered product should have the facility to control the display parameters like brightness, contrast, colour saturation, sharpness etc
8. The offered product should have Tally lamp fitted over the front panel which can be lit up via a parallel Tally signal.



9. The offered system should have a wide viewing angle both in horizontal and vertical direction with no reduction in brightness, picture contrast and colour saturation.
10. The LCD monitor offered should have a minimum response time for facilitating viewing of fast moving picture like sports events without any delay.
11. 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 suitable cable as suggested by the OEM of the LCD monitor.
12. The offered product should be rack mountable and hence necessary 19" dual mounting brackets for stacking two monitors horizontally, should be supplied.
13. The offered product should be of internationally reputed make, meeting the specifications. Only the proven product in the broadcasting media will be acceptable. The firm should enclose the user list of the broadcasters to whom the offered product has been supplied.
14. **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.**
15. The Bill of Material required is given in **Appendix-I**.
16. The equipment are being procured for various Doordarshan centres as per **Appendix-II**.

### **3. Technical Specifications**

1. Display size : 8.4" to 9" diagonally
2. Resolution : 1024 x 768 pixels
3. Colour reproduction : 16 millions or better
4. Contrast ratio : 300 : 1 or better.
5. Viewing Angle : 170 degrees in Horizontal  
170 degrees in Vertical
6. Brightness : 300 cd/sq.m or better
7. Tally : On Air Tally lamp mounted in the front panel of the monitor.
8. Aspect ratio : 4:3

9. Video Inputs

(a) **SDI I/P** : 1 or more SDI in BNC, 270 Mb/s, 0.8V pp across 75 ohms

(b) **Analog I/P** : 1 or more Composite (PAL) in BNC, 1 V pp across 75 ohms.

10. Power supply : 230± 5% V AC, 50 Hz (If operates in DC, necessary AC to DC power supply adaptor should be offered).

11. Power Consumption : ≤ 30 Watts.

12. Weight : ≤ 3 Kg.

**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	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 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.
- (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**

<b>Sl. No.</b>	<b>Description of Item</b>	<b>Quantity</b>
1	8.4"/9" LCD/TFT LCD colour Monitor with SDI & analog Composite (PAL) video inputs and suitable power supply	93 Nos.
2	Desk Stand for monitors	93 Nos.
3	19" rack mounting bracket for dual monitor	<b>NIL</b>
4	Operation manual/User Guide/ Technical Manual/ Installation Manual etc.	93 Sets
5	Service & Maintenance Manuals	31 Sets
6	Any other accessories like power cords etc. if required to make the system fully functional.	93 Sets

*Pd*

*Qph*

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

<b>S. No.</b>	<b>Zone</b>	<b>Location of Doordarshan Centre</b>	<b>Qty.</b>
1.	<b>North Zone (NZ)</b>	Jammu	3 Sets
2.		Chandigarh	3 Sets
3.		Bareilly	3 Sets
4.		Shimla	3 Sets
5.		Allahabad	3 Sets
6.		Mau	3 Sets
7.	<b>East Zone (EZ)</b>	Daltonganj	3 Sets
8.		Mujjafarpur	3 Sets
9.		Ranchi	3 Sets
10.		PPC Guwahati	3 Sets
11.		Siliguri	3 Sets
12.		shillong	3 Sets
13.		Tura	3 Sets
14.		Kohima	3 Sets
15.		Itanagar	3 Sets
16.		Imphal	3 Sets
17.		Silchar	3 Sets
18.		Dibrughar	3 Sets
19.		Aizwal	3 Sets
20.		Agartala	3 Sets
21.		Sambalpur	3 Sets
22.	Gangtok	3 Sets	
23.	<b>South Zone (SZ)</b>	Gulbarga	3 Sets
24.		Pudhucherry	3 Sets
25.		Vijayavada	3 Sets
26.		Portblair	3 Sets
27.	<b>West Zone (WZ)</b>	Panaji	3 Sets
28.		Raipur	3 Sets
29.		Rajkot	3 Sets
30.		Pune	3 Sets
31.		Indore	3 Sets
<b>TOTAL</b>			<b>93 Sets</b>

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