

PRASAR BHARTI  
BROADCASTING CORPORATION OF INDIA  
DIRECTORATE GENERAL:DOORDARSHAN

**SPECIFICATION FOR DIGITAL LOGO GENERATOR CUM INSERTER**

DD Specifications No.: SD 05/2010

Dated : 19.5.2010

**1. SCOPE**

The specifications lay down the performance requirement of a broadcast grade Digital Logo Generator cum inserter with built in digital keyer to be used in Doordarshan Network for static and animated colour logo generation and insertion purposes.

**2. GENERAL**

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. They should also indicate the quantity and the year of supply to such broadcasters.

**3. FEATURES REQUIRED**

- a. The offered Logo Generator cum inserter should have 10 bit digital internal processing throughout the chain. Proven logo generator cum inserter from the reputed manufactures would only be accepted.
- b. The logo generator cum inserter should be a compact and standalone unit with built in linear digital keyer (keyer should have settings like offset, gain and transparency).
- c. Logo generator should have dedicated remote control panel so as to enable/ disable the logo and also to select desired logo from a remote location as and when required. The cost of standard length of the control cable along with per meter cost for additional length should also be quoted.
- d. It should be easy/ simple to import logo graphics files through commonly used computer interfaces/ ports. It should support logos created in BMP, TIFF, TGA and other standard graphic file formats. Required software





and interface ports including necessary cables for the above facilities are to be provided.

- e. It should be possible to select/access frequently used logos with single key operation. The system should be able to handle still and animated colour logos.
- f. It should have minimum 128 MB non volatile memory to store static as well as animated logos of different sizes. The memory should be upgradeable.
- g. It should be possible to adjust the position of the logos as required in the normal transmission. The animation properties should also be adjustable.
- h. It should have a provision of by-pass mode in the event of power supply failure of the unit.
- i. The offered product should be able to simultaneously do two or more layers of keying of static and animated logos.
- j. The equipment should be able to store full bandwidth uncompressed 4:2:2 (10bit) quality logos with its own full bandwidth luminance key (Alpha/Matte) channel.
- k. The equipment should have automation control via RS 422 or GPI port.
- l. The bill of material is given in **Appendix-I**.
- m. The equipment are being procured for various Doordarshan centres as per **Appendix-II**.

#### 4. TECHNICAL SPECIFICATIONS

##### 4.1 Inputs:

(i)	Programme	:	Serial Digital video (4:2:2), 270 Mbps Automatic Equalization and re-clocking on BNC connector, 800m V±10%
(ii)	Return loss	:	≥ 15 dB

##### 4.2 Outputs:

(i)	Programme	:	Serial Digital video (4:2:2), 270 Mbps 75Ω BNC connector- (2 Nos), 800m V±10%
(ii)	Return loss	:	≥ 15 dB
(iii)	Internal Processing	:	4:2:2, Minimum 10 bits, uncompressed

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**4.3 Power Supply** : 230V± 5%, 50 Hz

**4.4 Operating temperature** : 0 to 40 deg. Celsius

**4.5 Software:**

All the necessary software required for proper working of the system is to be supplied in original and should be licensed to Doordarshan with perpetual validity.

## **5. 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.



## **6. ACCESSORIES**

All the essential accessories like remote cable, power cables, software and connector etc. required to complete the system should be offered by the firm and the firm should certify the completeness of the system. All the optional items such as video capture card, time and temperature display module that goes with the system should also be quoted separately. The firm must provide enough details about such optional items to decide its utility.

## **7. 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.

## **8. 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.

## **9. 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.

## **10. INSPECTION**

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



**11. 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>Sr. Nos.</b>	<b>Item Details</b>	<b>Qty.</b>
1.	SDI Logo Generator cum Inserter with power supply unit and rack mount kit	62 nos.
2.	Remote Control Panel	62 nos.
3.	Control cable- 25 meter with matching connectors at both ends	62 sets
4.	Operation manual/User Guide/ Technical Manual/ Installation Manual etc.	62 sets
5.	Service & Maintenance Manuals	31 sets



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

<b>Sl. No.</b>	<b>Zone</b>	<b>Location of Doordarshan Centre</b>	<b>Qty.</b>
1.	<b>North Zone (NZ)</b>	Jammu	2 sets
2.		Chandigarh	2 sets
3.		Bareilly	2 sets
4.		Shimla	2 sets
5.		Allahabad	2 sets
6.		Mau	2 sets
7.	<b>East Zone (EZ)</b>	Daltonganj	2 sets
8.		Mujjafarpur	2 sets
9.		Ranchi	2 sets
10.		PPC Guwahati	2 sets
11.		Siliguri	2 sets
12.		shillong	2 sets
13.		Tura	2 sets
14.		Kohima	2 sets
15.		Itanagar	2 sets
16.		Imphal	2 sets
17.		Silchar	2 sets
18.		Dibrughar	2 sets
19.		Aizwal	2 sets
20.		Agartala	2 sets
21.		Sambalpur	2 sets
22.	Gangtok	2 sets	
23.	<b>South Zone (SZ)</b>	Gulbarga	2 sets
24.		Pondicherry	2 sets
25.		Vijayavada	2 sets
26.		Portblair	2 sets
27.	<b>West Zone (WZ)</b>	Panaji	2 sets
28.		Raipur	2 sets
29.		Rajkot	2 sets
30.		Pune	2 sets
31.		Indore	2 sets
<b>TOTAL</b>			<b>62 sets</b>

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