

Through website

PRASAR BHARTI
(India's Public Service Broadcaster)
Directorate general of Doordarshan
Doordarshan Bhawan, Copernicus Marg
New Delhi -110001.

Dated:04/05/2022

Subject: Draft Technical Specifications for 55" UHD TV/4K QLED Receiver cum Monitor.

The Draft specification of the upcoming tender is enclosed herewith to offer comments, if any by prospective bidders/Firms/OEMs.

2. Bidders/OEMs are requested to provide information about available local content in respect of item with budgetary quote.

3. Bidders may please submit the above detail on or before due date by e-mail to ddpurchase401@yahoo.co.in or at following Address.

Assistant Engineer
Room No. 403,
Directorate General: Doordarshan,
Doordarshan Bhawan, Copernicus Marg,
New Delhi -110001 (India)
Telephone: **011- 2311 4401**

Specification For: Draft Technical Specifications for 55" UHD TV/4K QLED Receiver cum Monitor

Specification no: SD 03/2022 Dated: 26.04.2022

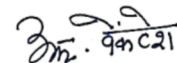
Due Date to offer Comments: 18.05.2022

Encl.: As above (07 Pages)

Signed by Narendra Kumar
Choursiya
Date: 04-05-2022 16:43:40
Reason: Approved

N.K. Chaurasia
Assistant Engineer
Doordarshan Directorate, Doordarshan

PRASAR BHARTI
BROADCASTING CORPORATION OF INDIA
DIRECTORATE GENERAL: DOORDARSHAN



Specifications for 55" UHD TV/4K QLED Receiver cum Monitor

DD Specifications No.: SD 03/2022

Dated: 26/04/2022

1. SCOPE:

The specifications aim for the procurement of the 55" UHD TV/4K receiver cum monitor, which are required for TV Studios of Doordarshan network for display of video clips and still images etc.

2. ESSENTIALLY REQUIRED FEATURES:

- a) The offered 4K/UHD receiver cum monitor should be of reputed make. The bidder should desist offering a model which is nearing obsolete/End of sale/discontinuation.
- b) The offered receiver cum monitor should incorporate high intensity & high contrast wide screen of size 55" (diagonal) and wide viewing angle QLED Panel to view stable images from various angles - both horizontally and vertically, with no reduction in picture contrast, brightness and colour saturation.
- c) The incorporated QLED panel should employ LED backlight technology to make offered receiver thinner and lighter with lower power consumption. It should have faithful colour reproduction.
- d) The QLED panel of the offered receiver should be of 16:9 aspect ratio with resolution of 3840X2160 or better pixels. The offered monitor should support 16:9 and 4:3 aspect ratio format of the video signal.
- e) The offered receiver should have a minimum response time and high refresh rate of 100Hz or better for viewing fast moving picture like sports events without motion artifacts such as blur, judder etc. It should therefore reproduce smooth, sharp and clear fast moving images.
- f) The monitor should have HDMI inputs. The offered stand alone converter 4K/HD/SD-SDI to HDMI should also include suitable AC to DC power adapter, if required.
- g) The product should have optimal reliability for continuous operation.

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Dr. V. K. C. S.

- h) It should have full function remote control unit for day to day adjustment of major parameters like picture size & aspect ratio, brightness, color & contrast control etc.
- i) The Receiver unit should be easy to mount and should be supplied with wall Mount and desk stand.
- j) The offered monitor should function with standard $230 \pm 5\%$ V AC, 50 Hz power supply.
- k) The Indicative Bill of Material required is given in **Appendix-I**. The bidder is required to provide the complete list of items & accessories etc. offered to meet the specifications requirement in the following proforma:

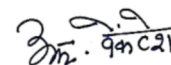
Sr. No.	Description/Name of the item	Make	Model	Part No., if any	Qty.
1.	2.	3.	4.	5.	6.

- l) The equipment are being procured for various Doordarshan centres (consignee's) as per **Appendix-II**.

3. TECHNICAL SPECIFICATIONS:

Sr. No.	Specifications Parameters	Parameter Values
1.	Screen Type/ Size	: QLED/ 55" diagonal
2.	Aspect Ratio	: 16:9
3.	Number of Pixels	: 3840X2160
4.	Viewing angle (H & V)	: wide view Angle (178 & 178)
5.	Picture (display)	: 4K Quantum Dot Technology
6.	Refresh rate	: 100 Hz or better
7.	Motion Rate	: 200 Hz or Better
8.	Color	: 100 % color Volume with Quantum Dot technology
9.	Audio power	: 10 watt per speaker or more
10.	Input & Output	
(a)	HDMI (Input)	: 4 or more HDMI 2.1 or better
(b)	USB 2.0 (Input)	: 2 or more
(c)	Digital Audio Out	: 1
(d)	Ethernet (LAN)	: 1
11.	Weight without Stand	: ≤ 25 kg
12.	Power Supply	: $230 \pm 5\%$ V AC, 50 Hz
13.	Operating Temperature	: 10 to 40° C

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4. ACCESSORIES:

All the accessories such as power cables, remote control unit, AC to DC adapter etc, if 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.

5. COMPLIANCE:

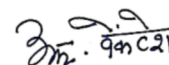
- a) **A point-by-point full compliance statement from the principal manufacturer in respect of all the points laid down in this specification is to be enclosed along with the offer in the format given below. Mere signature on the copy of DD specifications shall not be accepted as a compliance statement.**

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.
1	2	3	4	5	6	7	8

- b) In addition to above, a separate point by point compliance statement duly signed by the bidder in respect of all the points laid down in the specifications should also be submitted along with the bid by the bidder in the above mentioned proforma.

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- c) Authorization from principal manufacturer should also be necessarily submitted along with the bid.

6. DOCUMENTATION:

One set of printed technical and user manuals for the offered 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 the printed technical and user manuals of the offered equipment.

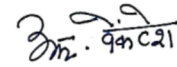
7. GUARANTEE:

- a) The complete system including all items/equipment should be guaranteed for three years of trouble-free operation from the date of receipt of final accepted consignment at respective consignee's premises. In case of failure of any item or equipment including software and hardware within this period, it shall be rectified or replaced free of cost to Doordarshan. **The OEM will be required to give undertaking to this effect along with the bid.**
- b) After sales service support for additional 2 (two) years for repairs/maintenance of the offered system after the completion of guarantee/warranty period should also be provided. **The OEM will be required to give undertaking to this effect along with the bid.**
- c) The guarantee should cover all hardware, software and modules of the complete system.
- d) The bidders are required to submit complete details of after sales service arrangements in respect of the offered equipment. After sales service arrangements should include details of infrastructural facilities available in India.

8. DEMONSTRATION:

If necessary, the bidder may be asked for demonstration of the offered system as part of the technical evaluation. In such case the bidder will have to make suitable arrangement for the demonstration of the offered system at Doordarshan Bhawan, New Delhi, on notice of 15 days.

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Accordingly, the bidder should be in readiness for demonstration on a notice of 15 days.

9. DELIVERY PERIOD:

The delivery period will be 03 months.

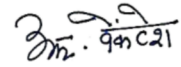
10. INSPECTION:

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 should be submitted for offered equipment/item(s) in the proforma mentioned in clause no. 5. (a). 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) A separate point by point compliance statement duly signed by the bidder in respect of all the points laid down in the specifications for the offered equipment/item(s) in the proforma mentioned in clause no.5. (b).
- c) Authorization from principal manufacturer mentioned in clause no. 5.c)).
- d) Undertaking for three years guarantee from OEM for the offered system as mentioned in Clause 7. (a).
- e) Undertaking for after sales service support for additional 2 (two) years from OEM for repairs/maintenance of the offered system after the completion of guarantee/warranty period as mentioned in Clause 7. (b).

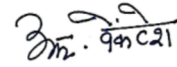


- f) Technical manuals/detailed technical literature/catalogues for the offered equipment/item(s) for substantiating the model no. and technical specifications.
- g) Any other document mentioned elsewhere in the tender document.

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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Appendix - I

BILL OF MATERIAL REQUIRED

Sr. Nos.	Description of Item	Quantity
1.	55" QLED receiver cum monitor with remote control	194 nos.
2.	Wall Mount and Desk Stand	194 nos.
3.	HDMI cable of 3 mtr. length	194 nos.
4.	4K/HD/SD-SDI to HDMI convertor with Power supply	194 nos.
5.	Any other accessories like power cords etc, if required, to make the system fully functional.	194 Sets
6.	Technical & User Manuals	194 Sets

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