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Ref. No. 

CEC	19-20	007	VJK	EMI/EMC -	SPL
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FORM FOR INVITING QUOTATIONS  
DUE DATE:24.12.2019


Date: 03.12.2019

Dear Sirs,

1. Quotations are invited in duplicate for the **FULL COMPLIANCE EMI TEST RECEIVER** (specification attached).
2. The Quotations are to be in **TWO BID SYSTEM** as : Technical bid and Commercial bid. Two parts of the offer are to be clearly marked on the envelopes. The two parts of the offer in a separate envelop must enclosed in the one bigger envelop duly sealed and superscribed with reference number and due date and, should be addressed to the undersigned so as to reach him on or before the due date stipulated above. A blank price quote (identical to the Commercial bid with numbers removed) should be enclosed with the Technical Part.
3. The Quotations should be valid for ninety days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. Local Firms: Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.
7. Firms Outside Madras : Quotations should be for CIF/F.O.R. Madras. If CIF/F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
8. The rate of sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to non Government Educational Institutions run with no profit motive for which a concession. Sales Tax Certificate will be issued at the time of final settlement of the bill.
9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. Payment : Every attempt will be made to make payment within 30 days from the date of receipt of bill/acceptance of goods, whichever is later.

प्रोफे. वी. जगदीश कुमार  
Prof. V. JAGADEESH KUMAR  
अध्यक्ष / Head  
केन्द्रीय इलेक्ट्रॉनिक्स केंद्र  
Central Electronics Centre  
आई.आई.टी. मद्रास, चेन्नई - 600 036  
IIT Madras, Chennai - 600 036.

Yours faithfully,

  
Head of the Dept/Centre



## Technical Specification for Full Compliance EMI Test Receiver

Quantity – 1No

Full Compliance EMI Test Receiver		
SL.No	Description	Specification
1	Frequency range	10Hz to 3.6 GHz
2	Operating Modes	EMI test receiver and spectrum analyzer
3	Preselector	Inbuilt
4	Pre amplifier	Inbuilt 20dB
5	Frequency Resolution Receiver Mode	0.1Hz
6	Aging Per Year	$\pm 1 \times 10^{-6}$
7	Measurement Time	50 $\mu$ s to 100 s
8	Number of trace points in receiver Mode	Up to 4 000 000
9	Resolution bandwidths (-3 dB) Receiver Mode	10 Hz to 10 MHz in 1/2/3/5 sequence
10	EMI bandwidths (-6 dB)	10 Hz, 100 Hz, 200Hz, 1 kHz, 9KHz, 10 kHz, 100KHz, 120 kHz. 1MHz complying to IF filter bandwidth specification as applicable with ref to latest CISPR 16-1-1
11	Video bandwidths (@ analyzer mode)	1 Hz to 10 MHz in 1/2/3/5 sequence,
12	Detectors ( Receiver Mode)	max. peak, min. peak, RMS, average, quasi-peak, CISPR-average, RMS-average
13	Units of level axis	logarithmic level display dBm, dB $\mu$ V, dBmV, dB $\mu$ A, dBpW linear level display $\mu$ V, mV, $\mu$ A, mA, pW, nW
14	1 dB compression of input mixer @ RF attenuation = 0 dB, preselection and preamplifier = off	+10 dBm (nom.)
15	Input Connector	50 $\Omega$ , N female
16	Setting range of attenuator	10 dB to 75 dB, in 5 dB steps
17	Max Level Display Range	+30 dBm
18	Data Storage	hard disk $\geq$ 40 Gbyte
19	Interfaces	IEEE488.2/ LAN / USB
20	Display	Min 21 cm LC TFT color display
21	Power supply	100 V to 240 V, $\pm 10$ % (nom.) 50 Hz to 400 Hz, +10 %/-6 % (nom).
22	Calibration	ISO 17025 accredited Calibration report should be provided along with the instrument
23	Warranty	3 Yrs
24	Safety	The system shall comply with the requirement in line with IEC 610101/ EN 61010-1/UL 61010-1/ CSAC22.2 No. 61010-1 -04.
25	Electromagnetic compatibility requirements	The system shall meet the EMC requirements of the EMC Directive 2004/108/EC including: CISPR 11/EN 55011 IEC/EN 61326-2-12

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*CC Jagan*

*V Jagan*