

Prasar Bharati
(Broadcasting Corporation of India)
Broadcasting House: All India Radio,
New Delhi- 110001

TENDER ENQUIRY FORM

T.E. No. DEL. 1(2)/NBH/Time Code/ 2009-10-E

Dated

M/s.....

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Subject: Supply of Time Code Oscillator.

Dear Sir,

Please furnish your terms quotation for the supply and delivery in good condition at the destination for the supply of stores mentioned as under.

S. No.	Description	Quantity
1	Time code SEMPTTE Generator with GPS receiver (with manual & all accessories)	01- 02 nos.

1. The quotation in a sealed ENVELOPE superscribed with the following details on the quotation should be addressed to undersigned by name so as to reach him on or before **3.00 pm on 22/02/2010**
 - i) Material for which quotations are enclosed.
 - ii) Reference of letter of enquiry
 - iii) Due date of opening of quotation.
2. Quotation received without proper sealing may be rejected.
3. The tenderers should specifically and clearly mention the following in their quotations:
 - i) Make of the material
 - ii) Delivery period.
 - iii) Forwarding and freight charges, if any
 - iv) Any other charges.
4. **VAT: the Tenderer should quote VAT separately. They should furnish their VAT number in their quotation.**
5. Excise Duty: the tenderer should mention excise duty in clear terms separately, if applicable.
6. Terms of payment: Full payment will be made after goods are received in good condition by the consignee.
7. Sample: The firms should send a sample wherever possible. Then item should be ISI marked preferably. Required technical details/catalogue reqd. as per our specification should be furnished along with tender.
8. Validity: The quotation should remain valid for a period of six month from the date of opening.
9. The quotation will be opened in this office at 3.00pm on the last date i.e. **22/02/2010** in the presence of such tenderers or their agents who may like to be present.
10. This office also reserves the right of increasing/decreasing the quantity of material depending on actual requirement.
11. The stores offered should be guaranteed for a minimum period of 1 year for satisfactory service against any manufacturing defect.
12. This office reserves the right to seek earnest money/security deposit at any stage.
13. The quotation not confirming to conditions as above may be rejected without any further reference.
14. Tolerance Clause: Upto 25% of the quantity can be covered at the time of placement of order.
15. This information is also available on AIR net. www.allindiaradio.org.
16. A Copy for pasting on Notice-Board.

Yours faithfully,

(Rajiv Gupta)
Assistant Engineer,
For Suptdg. Engineer

UTC. The module should be supplied alongwith GPS antenna, antenna mating kit and 50 metre cable. In case an amplifier is required for this, same may also be offered and quoted.

- iii. **Time Code generator Module** to generate SMPTE/EBU 30 fps (Leitch Date Encoding Format), 25 fps, 24 fps, IRIG-B, 1 KHz Amplitude Modulated and Pulse Width Coded (unmodulated) time codes. The module should provide for time code format translation and be fully configurable for time zone & DST with programmable delay offset with 1 mS resolution. The module should be supplied with time code output BNC9 adapter.
- iv. **High Stability Oscillator Module.** Internal Oven Controlled Crystal Oscillator for high stability time reference of +/- 250 Milliseconds/year drift after setting time .
- v. **10 MHz Sinewave Reference Output.**
- vi. **Rack Mounting Kit** as the master oscillator is to be mounted in a rack.

3: Other Terms and conditions:

- i. **Warranty:** One year after commissioning.
- ii. **Manual:** All operational and configuration manuals of hardware and software modules are to be supplied.
- iii. **Training:** The vendor shall have to organize a training for operation and configuring the master clock.

Specifications for Master Clock System

All India Radio, New Broadcasting House N. Delhi intends to procure a Master Clock with precision time and frequency reference system (similar to MCR 1000) for synchronising all the studio consoles, wall clocks, servers/work stations, switcher and other eqpt. installed in its studios and control room. **Master Clock should be able to generate and read Network Time Protocol (NTP) and time code information in SMPTE 30 frames Leitch format.** It should function as a high quality standalone source of precision time code and PPS. The Master Clock system should have following features/ specifications:

Features/ Specifications

1. **Main Features:**

The master clock should have following main features:

- i. High Precision master oscillator device.
- ii. Built-in Network Time Protocol (NTP) reference source for setting system time,
- iii. Temperature compensated oscillator with holdover stability < 1 Min/ Year.
- iv. Internal Battery backed real time clock (RTC)
- v. Maintenance free rechargeable battery,
- vi. Support for NTP broadcast mode of operation,
- vii. Windows Server 2003/XP/Vista based network setup software for detection, configuration and management of master clock,
- viii. Telnet network setup software,
- ix. Security features including password protection,
- x. Fully configurable local time offset support with Time Zone and DST time offset and custom time offsets
- xi. Programmable relay to schedule
- xii. Pulse Per second (PPS) output TTL level signal locked to time reference
- xiii. USB interface for manual time set,
- xiv. USB for Time/ Date data output
- xv. RS 232 serial port interface
- xvi. Front panel power and NTP activity LED status indicators.
- xvii. **Power Supply:** Nominal Input Voltages: 220V, 50 Hz

2. **Additional Features/ Modules**

Following additional features are also required to be provided:

- i. **Six digit, 3" LED Time/ Date display module** on front panel with 24 hour time and DDMMYY date display format.
- ii. **GPS receiver module** for automatic synchronization with GPS atomic clock time. The GPC module should provide accuracy of +/- 100 nsec of