

**PRASAR BHARATI
(Broadcasting Corporation of India)
O/o THE ADDITIONAL DIRECTOR GENERAL (E) (SOUTH ZONE)
ALL INDIA RADIO & DOORDARSHAN
Swamy Sivananda Salai, Chennai - 600 005**

No. ADG (E) (SZ)/PUR/55/AIR-IEBR/CODEC/2011-12

Date: 09.01.2012

Sub.: SITC of Digital Stereo Audio Codecs - Reg.

Dear Sir,

Sealed Limited tender are hereby invited for and on behalf of the president of India from reputed firms for SITC of 9 Nos. of Audio Codecs – reg.

1.

Sl. No.	Description	Quantity.
1	SITC of Digital Stereo Audio Codecs as per Technical Specifications enclosed.	9 Nos.

CONSIGNEE(S):

The Deputy Director General (Engg), AIR, Trichy – 2 Nos. & Dharwad – 1 No.
The Director (Engg),/ Engineering Head, AIR, Kodaikanal, Bhadravathi & Calicut – 2 Nos. to each Station. **Total Qty. – 9 Nos.**

THE TENDER WILL BE ON THE BASIS OF TWO BID SYSTEM.

a) TECHNICAL BID:

Technical bid should contain the confirmation to the enclosed technical specifications **along with EMD**. There will be no mention of price anywhere in the “Technical Bid”. This should be submitted in a separate sealed envelope super-scripted with **TECHNICAL BID** along with item description.

b) COMMERCIAL BID:

The commercial bid should contain the price bid and acceptance of the commercial terms and conditions of this tender document. The price should be quoted for free delivery of materials at respective destinations. This should be submitted in a separate sealed envelope with **“ COMMERCIAL BID”** Written on the envelope.

The above mentioned envelopes should be enclosed and submitted in another large size Envelope duly sealed and superscribed with “ Tender for **SITC of Digital Stereo Audio Codecs – 9 Nos.** The envelope will be received at this office of the Addl. Director General (E)(SZ), AIR & DD Chennai-5 up to **1200 hrs on 23.01.2012**. The technical bid and EMD will be opened on the same day **1500 hrs**. The commercial bid of technically qualified tenders will be opened on any other suitable date that may be intimated to the bidders.

In case tender opening date falls on a holiday, the bids will be received and opened at the same specified time on next working day. Bids received late or submitted after the scheduled specified time on scheduled date will not be entertained and will be returned back unopened.

2. EMD:-

Earned Money amounting **Rs.50,000/- (Rupees Fifty Thousand only)** in the form of Demand Draft on nationalized Bank drawn in favour of ADG (E)(SZ), AIR&DD, Chennai-5 should accompany along with Technical Bid. EMD by means of Bank Guarantee or any other mode of payment other than DD shall not be accepted. Tenders without EMD shall be summarily rejected and their technical cum commercial bid will not be opened at the time of tender opening. (No exemption for payment of EMD is accepted by this office).

SECURITY DEPOSIT: The successful Tenderer shall furnish the Security Deposit within 2 weeks after placement of order at the rate of **10% of the Order Value failing which, the whole EMD amount paid will be forfeited.** The security deposit shall be furnished in the form of Demand Draft / Bank Guarantee drawn in favour of the **ADG (E) (SZ), AIR&DD, Chennai-5.** The Security Deposit will be returned in full on completion of successful guarantee/warranty Period.

3. VALIDITY:

The tender shall be kept valid for three months **(90 days)** from the date of opening.

4. PRICES:

The prices quoted should be firm and for free delivery at site inclusive of transit insurance, excise duty and entry tax and other tax if any should be quoted separately. Tenderers should quote in figures as well as in words the amounts tendered by them. In the case of illiterates, the rates or the amounts tendered should be attested by a witness. Breakup of prices for individual/whole units should be specified wherever possible instead of bunching all units together.

5. DUTIES AND TAXES:

(a) EXCISE DUTY:

The prices should contain an element of Excise Duty which should be indicated separately. Any statutory variation in the Excise Duty taking place after acceptance of tender within the delivery date will be adjusted by the purchaser on production of documentary proof.

(b) SALES TAX/VAT:

The prices should be exclusive of ST/CST/VAT. The prevailing rate of ST/CST/VAT should be clearly and distinctly mentioned in the tender. The following certificates are to be submitted by the supplier along with the bills.

“Certified that the goods on which the sales tax has been charged have not been exempted under central sales tax act of the rules made thereunder. The amount charged on account of Sales Tax/VAT on these goods is not more than what is payable under provision of the relevant act or the rules made thereunder”.

“Certified that we are registered as dealers in the state under registration No. for the purpose of Sales Tax. Any Statutory variation in ST/VAT taking place after acceptance of tender within the delivery date will be adjusted by the purchase. For this purpose, Government order should be produced”.

6. PAYMENT: 100 % Payment on receipt of stores in good condition at the destination.

7. TERMS OF DELIVERY:

CONSIGNEE: The Units should be delivered to the respective AIR Stations.

8. DELIVERY PERIOD:

Tenderer may note that the entire work shall be completed within **Two Months** from the date of the supply order.

9. RETURN OF EMD:

EMD of all but the last three tenderer will be returned back within 10 days opening of tenders. EMD of the remaining two tenderer other than that of the successful tenderer will be returned after finalizing the tender.

10. AFTER SALES SERVICE:

The tenderer should give full details of after sales service capability. The locations of service centres across the country shall be indicated. If there are no service centres at/near the location of the site the tender is likely to be rejected.

11. TECHNICAL SPECIFICATION:

a) Technical specification for the equipment is enclosed in the Annexure. The tenderer should submit necessary pamphlets, description of items being offered along with technical bid and also firms to which similar items were supplied in the near past and completion report.

b) PERFORMANCE MEASUREMENTS:

One copy of performance measurements taken at the factory before dispatch should be sent to the consignee.

c) TECHNICAL MANUAL:

Supplier shall furnish comprehensive technical manuals for use by the operation staff. Such manuals shall contain instructions for the preventive as well as routine maintenance of the equipment.

12. INSPECTION:

Detailed inspection will be carried out before acceptance of the Equipment.

13. GUARANTEE:

The tenderer shall quote a period of guarantee during which the equipment failing due to faulty manufacturer shall be replaced free of charge. A minimum guarantee of one year should be given.

14. ACCEPTANCE/REJECTION OF TENDER:

The acceptance of a tender will rest with the Addl. Director General (Engg) (South Zone), AIR & Doordarshan, Chennai-5 who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received without assigning any reason.

15. GENERAL:

Canvassing in connection with tender is strictly prohibited and the tenders submitted by tenderers who resort to canvassing will be rejected.

Web Site: <http://www.cesairdd.org.in/tenders.html>
<http://www.allindiaradio.org/tender.html>
<http://tenders.gov.in>

(R.VASUMATHI)
ASSISTANT ENGINEER
FOR Addl. Director General (E) (SZ)

TECHNICAL SPECIFICATIONS / REQUIREMENTS

1) HIGH AUDIO QUALITY LEASED LINE CODEC:

The Codec should be Rack mountable (19 inch standard rack) for operation over BRI – ISDN lines. The codec should also have **V.35 interface option**. The Codec should have front panel control and should be supplied complete with cable, connectors and accessories. It should be compatible with the reputed make codecs all over the world. The Codec should have following features and specifications:

Features	
1.	High quality, bi-directional ,Digital Stereo Audio Codec
2.	Built-in V.35 interface option and ISDN terminal adapter, with Euro ISDN S/T interface.
3.	Capability for 64 and 128 Kbps communication over both ISDN and V.35 interface Link.
4.	Capability of independent operation over both B channels.
5.	Over ISDN Link, Codec should have the feature of Automatically Receiving the audio after detecting the configuration and parameters of incoming audio.
6.	Codec should have the capability of sending audio using one coding algorithm and receiving audio in different coding algorithm.
7.	Autoswitching between V.35 interface link and ISDN link in case of failure of either of the link.
8.	Multiplexing between two ISDN "B" channels for 128 kbps operation.
9.	Headphone monitoring.
10.	Monitoring of Send and Receive Audio through VU Meter or LED Bar graph etc.
11.	Codec should be software upgradable and software upgradation must be free of cost.
12.	Memory for storing phonebook entries.

Technical Specifications		
1.	Analog Inputs / Outputs	Two independent electronically balanced channels
2.	Connectors for Analog Audio	XLR
3.	Input Level (nominal)	0 dBu
4.	Input Level (Max.)	10 dB above nominal level
5.	Output Level (nominal)	0 dBu
6.	Output Level (Max.)	10 dB above nominal level
7.	Digital Audio interface	AES / EBU
8.	Output impedance	Less than 100 Ω
9.	ISDN Interface	ETSI ISDN S/T interface
10.	ISDN Connector	RJ 45
11.	PSTN connector (Optional)	RJ 11
12.	Other Interface option:	V.35
13.	Coding Algorithm	G711, G722, (64 kbps) MPEG 1 Layer II & Layer III (128 kbps) MPEG 4 AAC-LD
14.	Analogue to Digital Conversion	Upto 24 bits .
15.	Sampling Frequency	16, 32 , 48 KHz selectable
16.	Freq. Response (± 0.2 dB)	50 Hz to 15 KHz for MPEG 1 L II 20 Hz to 20 KHz for MPEG 1 Layer III and MPEG 4 AAC-LD 50 Hz to 7 KHz for G722 50 Hz to 3 KHz for G711
17.	Distortion at maximum level	Less than 0.2%
18.	Dynamic range	> 95 dB
19.	Cross talk	< -70 dB
20.	Data rate	64 /128 kbps
21.	Mode	Mono, Dual Mono, Joint Stereo
22.	Display	Back lit LCD Screen

SCHEDULE OF SUPPLY/REQUIREMENT FOR SUPPLY:

The following schedule of requirement is to be complied without price details in Technical bid and with price details in Commercial bid.

Sl. No.	Description	Quantity	Unit Price
1	Audio Codec.	9 nos	
2	Any other item offered by the firm for the completeness of equipment.(Details to be given)	1 set as per requirement	
3	Cable Connectors and accessories	As per requirement	
4	Installation, Testing and Commissioning of the above equipment at respective consignee	For 9 Codecs (At the destination as per the list attached)	

SCHEDULE OF MATERIAL/REQUIREMENT FOR OPTIONAL ITEM :

(OPTIONAL INCLUDING ESSENTIAL AND RECOMMENDED SPARES)
_(UNPRICED-For One number of Audio Codec- FOR TECHNICAL BID)

PRICED-FOR COMMERCIAL BID:

Sl. No.	Description	Quantity	Unit Price
	(OPTIONAL) :		
1	ESSENTIAL AND RECOMMENDED SPARES:		
2	Modules	1 Set	
3	PCBs	1 Set	
4	Any other item offered by the firm for the completeness of equipment	1 lot	

List of Consignees are as detailed below:

Sl.No	Consignee	Qty. in Nos.
1	AIR, Kodaikanal	2
2	AIR, Tiruchirapalli	2
3	AIR, Bhadravati	2
4	AIR, Calicut (Kozhikode)	2
5	AIR, Dharwad	1
	Total	9

(R.VASUMATHI)
ASSISTANT ENGINEER
FOR THE ADG (E) (SZ)