

Government of West Bengal
Office of The Additional Director General & Inspector General of Police
Criminal Investigation Department, West Bengal
BhabaniBhawan, Alipore Kolkata – 700 027.
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Notice Inviting e-Tender CIDWB/ADG/eNIT-08/2018-19

Date:

CID, West Bengal invites e-Tenders from the bonafide manufacturers/dealers or distributors/traders & Industrial undertaking organization etc. who has tender specific authorization (desirable) for the item in the table below.

Pre-Qualification Criteria

1. Bidder's Annual Turnover should be more than 1.00 Cr. In last 3 consecutive years. (17-18, 16-17, & 15-16) – Audited Balance Sheet & Profit & Loss statement to be submitted.
2. One single order value not less than 50 Lac. From any Govt. / PSU / Large corporate within last 3 years (ending 31st March, 2018).
3. Bidder should submit one Performance/Credential Certificate to be submitted in this field.
4. Tender Specific OEM Certification will be required for this tender.

Evaluation of the tenders

QCBS method of selection will be applied to the tender as per the criteria given below.

Technical Qualification Criteria

Bidders who meet the pre-qualifications / eligibility requirements would be considered as qualified to move to the next stage of Technical and Financial evaluations.

Scoring Model

Technical Bid Evaluation

SL.No	Criteria	Basis for valuation	Max Marks	Supporting
1	RELEVANT STRENGTHS		50	
1.a	Turnover	Average annual turnover in each of the last 3 years (Turnover in INR Crores) Between 1 Cr to 2 Cr : Marks = 5 2 Cr and above : Marks = 10	10	CA Certificate
1.b	Net worth	Net worth (Net worth in INR Crores) Between 1 Cr to 1.49 Cr = 2 1.5 Cr and above : Marks = 5	5	CA Certificate
1.c	Experience - I	Experience of Bidder in executing this type of projects (Minimum Project value = Rs. 50 Lacks) - COMPLETED PROJECTS ONLY 2 projects: Marks = 7 More than 2 projects: Marks = 10	10	Credential / Performance Certificate to be submitted
1.d	Experience - II	Experience of Bidder in executing the similar project in India - COMPLETED PROJECTS ONLY 1 projects Marks = 5 More than 1 projects : Marks = 10	10	Work Order along with Completion / performance certificate
1.e	Maintainance	Presently maintaining at least 1 similar project	15	Work Order

SL. No	Criteria	Basis for valuation	Max Marks	Supporting
2	Solution/Product Proposed		50	
2.a	Technical Compliance as per Technical Specification Sheet	<p>Compliance without any deviation for all products : 40 Marks</p> <p>Maximum 2 Deviation in totality for all products : 35 Marks</p> <p>Maximum 4 Deviation in totality for all products : 30 Marks</p> <p>Maximum 6 Deviation in totality for all products : 25 Marks</p> <p>Maximum 8 Deviation in totality for all products : 20 Marks</p> <p>Maximum 10 Deviation in totality for all products : 15 Marks</p> <p>Maximum 12 Deviation in totality for all products : 10 Marks</p> <p>Maximum 14 Deviation in totality for all products : 05 Marks</p> <p>Bid will be rejected if more than 15 deviation found in totality against technical compliance / spec mentioned in Technical Compliance Document</p>	40	Bidder should fill up the compliance sheet completely and submitted the datasheet / specification sheet of all offered products as per Technical Specification Sheet along With tender document.
2.b	Live Demonstration	<p>Demonstration, Proof of Concept, Presentation, Discussion.</p> <p>Bidder should submit System Architecture write-up and schematic diagram.</p>	10	Live Demo in front of Technical committee
Total Marks			100	

Acceptance of Technical Bid

- i. Bidders, whose bids are responsive, based on minimum qualification criteria / documents as in Pre-Qualification Criteria and score at least 60% in the (given) defined scoring mechanism would be considered technically qualified.
- ii. The Technical bid evaluation shall be held in presence of Technical Evaluation Committee.

Financial Bid Evaluation

- i). The Financial Bids of technically qualified bidders will be opened on the prescribed date in the presence of bidders' representatives.
- ii). Canvassing in connection with bids is strictly prohibited and the Bids submitted by the Bidders who resort to canvassing will be liable to rejection.
- iii). All prices should be inclusive of all type of taxes, Cess, fees or any other levies payable to Central Government, State Government or any statutory authority and Tender Authority will not entertain any such taxes, Cess, GST etc.

Financial evaluation shall be done through the following formula:

A composite score shall be calculated for technically qualified bids only. The weightage for the composite evaluation is as described below:-

- a. Technical – 70%
- b. Financial – 30%

Bidder with the highest final composite score derived as under

Final Composite Score of a particular bidder = $(TS*0.7 + CS*0.3)*100$,

Where $TS = T/T_{High}$ and $CS = C_{low}/C$; T= Technical Score of that particular bidder,

T_{High} = Highest Technical Score Obtained among all the bidders,

C= Total quoted amount of that particular bidder,

C_{low} = Lowest Total quoted amount among all the bidders

Will be called for negotiating the contract

Combined and Final Evaluation

In the event the bid composite bid scores are tied, the bidder securing the highest technical score will be adjudicated as the Best Value Bidder for award of the Project.

THE DECISION OF TENDER SELECTION COMMITTEE WILL BE FINAL AND BINDING IN THIS MATTER.

**BROAD BASED TECHNICAL SPECIFICATIONS OF SOFTWARE & HARDWARE TOOLS FOR
ESTABLISHMENT OF AUDI VIDEO ANALYSIS LABORATORY FACILITY AT CFSLs with Forensic Audio
Examination Hardware and Software System**

a. Capture of Audio

- Facility for minimum 4- Channels input or above to collect audio signals simultaneously from various devices.
- Facility for minimum 4- Channels output or above, line and speaker, hand phone output.
- Frequency response for both AC and DC mode-20 Hz - 50,000 Hz.
- Dynamic range should be greater than 90db.
- Support the sampling rates 8,000 – 50,000 Hz or better for analysis of higher frequency signals for research and case analysis purpose.
- In built features for accurate voice signal capture such as use of low latency ASIO drivers, high gain pre amplification and anti-alias filtering.
- Facility of Software Interface card with Audio Stream input and Output (ASIO) and Multimedia Extensions (MME).
- Facility for segregation of Audio from different formats.

b. Noise reduction of Audio

- Facility of Digital Interface Card with AES/EBU or S/PDIF connectors and support various audio formats.
- Ability of offers signal – to – noise.
- Facility for signal Normalization.
- Facility for AC coupling to removes low frequency components.

c. Audio features extraction, analysis and display

- Facility for wave form, FFT, LPC Spectrograms/ spectrums & power spectrum
- Facility for pitch, formant extraction and Cestrum analysis.
- Facility for energy and power Spectrum.
- Support the windows XP or better operating system .
- Statistical analysis and display of features.

d. Audio enhancement and authentication on Hardware/ Software

- Capture Uncompressed/ compressed audio data from a variety of sources.
- Capability to support major audio formats.
- Audio stabilization.
- Facility for pre-processing and enhancement of Audio signal using different filters such as adopting filtering, filter averaging, filter compression and equalization etc.
- Facility to determine authenticity of audio.
- Facility to determine / search tempered and edits areas /zones in audio-recordings
- Facility to identify the source of recording (camera or records)

e. Audio evidence verification :

- Detailed file structure and file format check;
- HEX Data representation; Automatic search and interpretation options;
- Audio/video file frame allocation map, Detection extraction;
- Unmasking software application traces; Detection of code used to create the audio;
- GPS, images or any other metadata extraction and representation;
- Grid tool for periodical acoustic events analysis (and GSM framing) Histogram of samples analysis; Samples distribution asymmetry and smoothing calculation;
- Histogram of samples auto correlation analysis; Levelogram signal representation;
- Automatic DC offset extractor; Broken sessions, repeating samples automatic search;
- Identical signal fragments automatic detection ("copy past" search);
- Matching energy patterns detector; Delicate resampling;
- Intuitive data representation attenuation without signal correction (spectrogram view normalization); Auto detector of MP3 coder: Number of zeros in spectrum graph and Frame shift graph;
- Auto detector of WMA coder: Number of zeros in spectrum graph and Frame shift graph;
- Auto detector of OGG coder: Number of zeros in spectrum graph and Frame shift graph;
- Automatic detection of traces of re-sampling by codec or by signal properties.

f. Forensic speaker voice identification (expert approach) :

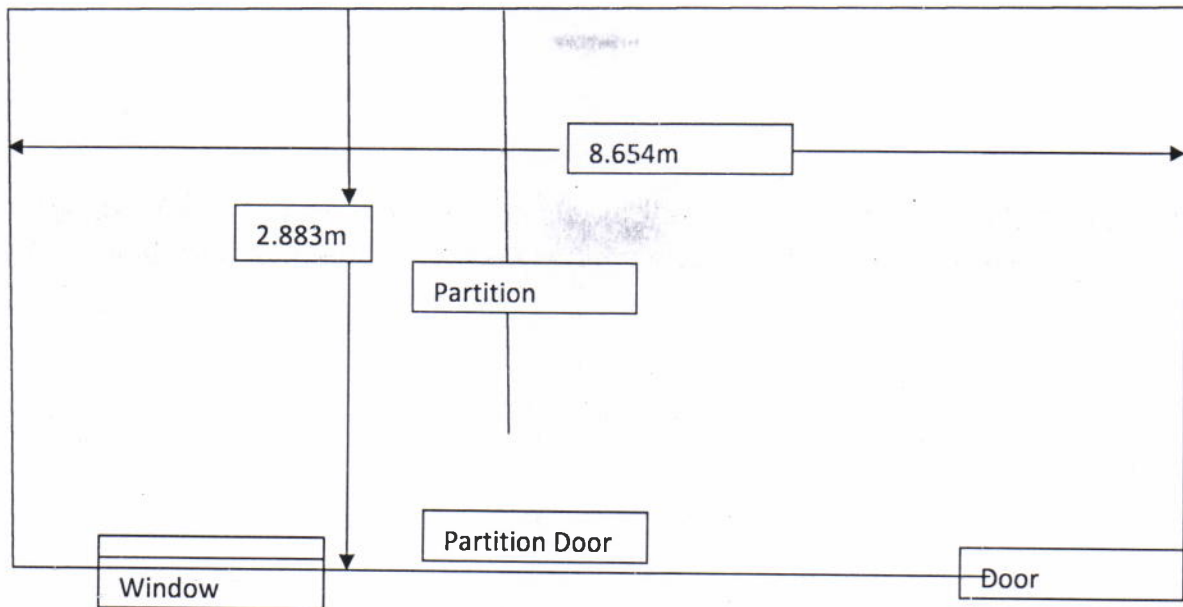
- Speaker utterances extraction, creation of speaker file;
- Speech quality assessment; Speech range comparison;
- Pitch extractor and pitch distribution comparison; Prosodic patterns comparison; (Automatic and Manual)
- Search for matching text (words/sounds), Formant tracks extractor;
- Tracks represented over spectrogram; matching articulations automated search
- Speaker phonetic profile creation and phoneme statistic comparison
- Speaker segmentation
- Language identification
- Gender Identification
- Likelyhood Ratio Estimation

g. Accessories like Speakers, laptops, Microphone (2), Head phones (3), connecting cables, portable voice Recorders, Colour Printers(2) etc. are to be supplied

h. Laboratory preparation like Ac. Machines in sufficient numbers, Sound proof walls with anti reverberatory coatings, False ceilings if required etc.

- i. 3 years of warranty from the date installation along with free technical training with regard to handling and operation of the instrument up to a satisfactory level.

Room for Voice Spectrometer (Drawn not to scale)



Eligibility of Bidders:-

Only manufacturers/dealers or distributors/traders are eligible for participation in the Tender.

1. In the event of e-filing, intending bidder may download the Tender documents from the website:

<https://wbtenders.gov.in/nicgep/app> directly with the help of Digital Signature Certificate.

2. The process of deposit of earnest money through offline instruments like Bank Draft, Pay Order etc will be stopped for e-tender procurement of this Division wef. 01.0.2015. Necessary Earnest Money Rs. 50,000 will be deposited by the bidder electronically: online – through his net-banking enabled bank account, maintained at any bank or: offline – through any bank by generating NEFT/ RTGS challan from the e-tendering portal. Intending Bidder will get the Beneficiary details from e-tender portal with the help of Digital Signature Certificate and may transfer the EMD from their respective Bank as per the Beneficiary Name & Account , Amount, Beneficiary Bank name (ICICI Bank) & IFSC Code and e-Proc Ref Intending bidder who wants to transfer EMD through NEFT/RTGS must read the instruction of the Challan generated from E-Procurement site. Bidders are also advised to submit EMD of their bid, at least 3 working days before the bid submission closing date as it requires time for processing of Payment of EMD. Bidders eligible for exemption of EMD as per Govt. rule may avail the same and necessary documents regarding the exemption of EMD must be Uploaded in the EMD folder of Statuary bid documents. Financial Bid is to be submitted online (both words & figures) concurrently duly digitally signed in the website: <http://wbtenders.gov.in> as per Date & Time schedule stated in Clause 10. No interest would be paid on the performance Security Deposit. Payment will be made as and when fund will be available from the concerned source subject to complete supply of articles.

3. Orders for the supply of the approved products will be placed with the successful tenderers after the execution of.

- (a) Bid will remain valid for a period of 1 (one) year from the issuing of acceptance letter.
- (b) In case of branded items, only one rate is desirable according to the specification/parameters as specified in Tender Form.
- (c) Conditional/incomplete bid & joint ventures will not be considered.
- (d) Bidder may have regional office in Kolkata and Phone/Mobile, Fax /e-mail I.D. for the purpose of quick communication in the event of urgency.
- (e) Deviation Statement (if any) may also be enclosed.
- (f) There should be an onsite manufacturing guarantee/warranty as per OEM for the item with a mention of specific period.
- (g) Prices quoted shall be inclusive all taxes (including all taxes, freight, excise and GST etc.) and **should not exceed MRP.**
- (h) Selected bidders should submit 7% of total value as performance deposit physically.

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4. The selected contractors shall have to deposit 5% security deposit of the total contract value of the items in favour of the Additional Director General & Inspector General of Police CID, West Bengal in G P Notes/ Bank Guarantee Bond F.D.R. of any nationalized bank and to execute an agreement of contract within 3 (three) days from the date of issue of the work order failing which the letter of acceptance, so issued, may be treated as cancelled as well as the earnest money so deposited may be forfeited and the firm may be blacklisted. No interest would be paid on the performance Security Deposit. Payment will be made as and when fund will be available from the concerned source subject to complete supply of articles.

5. Orders for the supply of the approved products will be placed with the successful tenderers after the execution of the agreements, and such supply shall have to be made in such instalments as may be fixed or spread over the period to be specified in the supply orders to be made in pursuance of the agreements. The successful bidders will have to supply within the specified time schedule that had been assured at the time of selection as supplier.

6. **Tender Specific authorization Certificate of OEM is desirable.**

7. **It should be noted that the firm/firms will be selected purely on a "PROVISIONAL BASIS" and the forecast requirement may increase or decrease by any quantity during the period of validity of the tender.**

8. **Additional Director General & Inspector General of Police, CID, West Bengal reserves the right to reject any/or all the tendered rates without assigning any reason and not to place any orders even after selection and is not liable for any cost that might have incurred by any bidder at the stage of bidding and also reserves the right to, divide the contract amongst any number of bidders, if required so.**