



NATIONAL INVESTIGATION AGENCY  
GOVERNMENT OF INDIA  
MINISTRY OF HOME AFFAIRS

**Invitation of Bids for Public Address System (PA System)**  
**at NIA HQ New Delhi**

**Tender No.01/2017 Dated 18<sup>th</sup> Dec 2017**

1. Seal Bids are invited on behalf of the President of India by Director General, NIA, New Delhi from the specialized agencies/vendors engaged in the business for supply, installation, testing and commissioning of Public Address System (PA System) at NIA HQ New Delhi as per detailed technical specifications mentioned in Part-II of this Tender. Please super scribe the above mentioned Title, Tender number and date of opening of the Bids on the sealed cover to avoid the Bid being declared invalid. The Tender Processing Fee is Rs.500/- (non-refundable).
2. The address and contact numbers for sending Bids or seeking clarifications regarding this Tender are given below -
  - a. Bids/queries to be addressed to: The SP (Admin)
  - b. Postal address for sending the Bids: NIA HQ, 1st Floor,  
Opposite CGO Complex  
Lodhi Road, New Delhi-110003
  - c. Name/designation of the contact person : Shri S N Pandey,  
SP (Admin)
  - d. Telephone numbers of the contact personnel: 011-24368800
  - e. e-mail address of contact personnel: spadmin.nia@gov.in
  - f. Fax number: 011-24368801
3. This TENDER is divided into five Parts as follows:  
**Part I** – Contains General Information and Instructions for the Bidders about the Tender such as the time, place of submission and opening of tenders, Validity period of tenders, EMD etc.  
**Part II** – Contains essential details of the services required, such as the Schedule of Requirements (SOR), Eligibility Criteria, contract/ Delivery Period etc.

**Part III** – Contains Standard Conditions of RFP, which shall form part of the Contract with the successful Bidder.

**Part IV** – Contains Special Conditions applicable to this Tender and which shall also form part of the contract with the successful Bidder.

**Part V** – Contains Evaluation Criteria and Format for Price Bids.

4. This Tender is being issued with no financial commitment and the Buyer reserves the right to change or vary any part thereof at any stage. Buyer also reserves the right to withdraw this Tender, should it become necessary at any stage.

### **Part I – General information**

**1. Last date and time for depositing the Bids:**  
**9<sup>th</sup> Jan 2018 at 1400 hrs**

The sealed Bids should be submitted/reach by the due date and time. The responsibility to ensure timely submission of bids lies with the Bidder. Late tenders will not be considered. No responsibility will be taken for postal delay or non-delivery/ non-receipt of Bid documents by NIA.

**2. Depositing the Bids:** Sealed Bids should be either dropped in the Tender Box marked for the tender or sent by registered post at the address given above so as to reach by the due date and time. Bids sent by FAX or e-mail will not be considered.

**3. Time and date for opening of Bids:**

**9<sup>th</sup> Jan 2018 at 1600 hrs**

(If due to any reasons, the due date for opening of the Bids is declared a closed holiday, the Bids will be opened on the next working day at the same time or on any other day/time, as intimated by the Buyer).

**4. Location of the Tender Box:**

Reception, Ground Floor, NIA HQ, Opposite CGO Complex, Lodhi Road, New Delhi

Only those Bids that are found in the tender box will be opened. Bids dropped in the wrong Tender Box will be rendered invalid.

**5. Place of opening of the Bids:**

Conference Hall, 6<sup>th</sup> Floor, Ground Floor, NIA HQ, Opposite CGO Complex, Lodhi Road, New Delhi


2  
The Bidders may depute their representatives, duly authorized in writing, to attend the opening of Bids on the due date and time. Rates and important commercial/ technical clauses quoted by all Bidders will be read out in the presence of the representatives of the Bidders present at the schedule date and time. This event will not be postponed due to non-presence of representative (s) of any of the vendors.

**6. Two-Envelop Bid System:** In this case, only the Technical Bids to assess the eligibility would be opened at the time and date mentioned above. Date of opening of the Commercial Bid will be intimated after acceptance of the Technical Bids. Commercial Bids of only those firms will be opened, whose Technical Bids are found compliant/suitable after evaluation is done by the Buyer.

**7. Forwarding of Bids** – Bids should be forwarded by Bidders under their original memo / letter pad inter alia furnishing details like complete registered & postal address, telephone/mobile Nos. & e-mail address of their office.

**8. Clarification regarding contents of the RFP:** A prospective bidder who requires clarification regarding the contents of the bidding documents shall notify to the Buyer in writing about the clarifications sought not later than 07 days prior to the date of opening of the Bids. Copies of the query and clarification by the purchaser will be sent to all prospective bidders who have received the bidding documents. During evaluation and comparison of bids, the Buyer may, at its discretion, ask the bidder for clarification of his bid. The request for clarification will be given in writing and no change in prices or substance of the bid will be sought, offered or permitted. No post-bid clarification on the initiative of the bidder will be entertained.

**9. Modification and Withdrawal of Bids:** No bid shall be modified after the deadline for submission of bids. No bid may be withdrawn in the interval between the deadline for submission of bids and expiration of the period of bid validity specified. Withdrawal of a bid during this period will result in Bidder's forfeiture of bid security. A bidder may, however, modify or withdraw his bid after submission provided that the written notice of modification or withdrawal is received by the Buyer prior to deadline prescribed for submission of bids. A withdrawal notice may be sent by fax but it should be followed by a signed confirmation copy which may be sent by hand/post and such signed confirmation should reach the Purchaser not later than the deadline for submission of bids.


**10. Rejection of Bids:** Canvassing by the Bidder in any form, unsolicited letter and post-tender correction may invoke summary rejection of bid with forfeiture of EMD. Conditional tenders will be rejected.

**11. Validity of Bids:** The Bids should remain valid for 90 days from the last date of submission of the Bids.

**12. Earnest Money Deposit:**—Bidders are required to submit Earnest Money Deposit (EMD) for amount of Rs.15,000/- (Fifty thousand) along with their bids in a separate sealed envelope super scribed "BID SECURITY DEPOSIT". The EMD may be submitted in the form of an Account Payee Demand Draft, Fixed Deposit Receipt, Banker's Cheque or Bank Guarantee from any of the public sector banks or a private sector bank authorized to conduct government business in **favour of Pay & Accounts Officer, NIA, New Delhi.** EMD should remain valid for a period of sixty days beyond the final bid validity period. EMD of the unsuccessful bidders will be returned to them at the earliest after expiry of the final bid validity and latest on or before the 30th day after the award of the contract. The Bid Security of the successful bidder would be returned, without any interest whatsoever, after the receipt of Performance Security from them as called for in the contract. EMD is not required to be submitted by those Bidders who are registered with the Central Purchase Organization (e.g. DGS&D), National Small Industries Corporation (NSIC). However, they have to enclose valid a registration certificate (s) with the above organisation clearly mentioning the validity etc. along with their tender in a separate sealed envelope super scribed "BID SECURITY DEPOSIT". The EMD will be forfeited if the bidder withdraws, amends, impairs or derogates from the tender in any respect within the validity period of their tender.

**13. Misc.:** A contractor shall not be permitted to tender for works in the concerned Division of NIA responsible for award and execution of contracts in which his near relative is posted as Gazetted Officers. He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any Gazetted Officer in the NIA or in the Ministry of Home Affairs. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department. If however the contractor is registered in any other department, he shall be debarred from tendering in NIA for any breach of this condition.

**NOTE:** *"Near relatives" is meant wife, husband, parents and grand-parents, children and grand-children, brothers and sisters, uncles, aunts and cousins and their corresponding in-laws.*

 No Gazetted officer (Group-A) employed in NIA shall work as a contractor or employee of a contractor for a period of one year after his retirement/ voluntary retirement from government service without the previous permission of Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found at any time to be such a person who had not obtained the permission of Government of India as aforesaid, before submission of the tender or engagement in the contractor's service, as the case may be.



\* Tender document may be downloaded from website [www.nia.nic.in](http://www.nia.nic.in) or [www.eprocurement.gov.in](http://www.eprocurement.gov.in) or may be obtained from the office of the SP (Admn), NIA, HQ, Delhi on payment of Rs.500/- towards tender processing fee. Bidders who have downloaded the tender document from website may submit the tender processing fee by DD in favour of PAO, NIA payable at New Delhi. Tender without EMD and Tender processing fee will not be considered.

All documents should be page numbered and self-attested by the authorized signatory.

## **Part II – Essential Details of Eligibility and Supply required**

The detailed technical specifications for supply, installation, testing and commissioning of Public Address System at NIA HQ New Delhi is attached as per **Annexure-I.**

### **Eligibility Criteria:**

The Vendor must fulfil the following conditions and submit the documents:

- (i) Registration Certificate/ Certificate of incorporation of firm/participation deed.
- (ii) An ink signed authorization letter from OEM as per the format attached as per **Annexure-II** should be submitted with the tender documents.
- (iii) Compliance sheet of each points mentioned in the detailed technical specifications as per **Annexure-I.**
- (iv) **TURNOVER:** The turnover of the Bidder should be more than Rs. 20 Lacs (Twenty Lakhs) each during the last three financial years starting from FY 2014-15. Copy of Balance Sheet & Profit & Loss Statements to be submitted duly certified by CA as supporting evidence.
- (v) Copy of PAN Card of Proprietor or the firm as the case may be & ITRs for the last three financial years starting from 2014-15 to be submitted.
- (vi) Should give an undertaking or affidavit that the company/ firm has not been black listed by any Court of Law or any Govt./ Central Autonomous bodies/ PSU and in future if such a blacklisting takes place the agency shall be liable to inform the NIA forthwith.
- (vii) An undertaking on the letter head of the Firm/Company to the effect that "The Bidder has gone through all the Terms & Conditions of the Tender document & the same are acceptable to the Tenderer" should be attached.

- viii) A copy of the authorization by the Proprietor/Partners/Director(s) or by all the partners of the Agency (as the case may be) in case the Bid documents are signed & sealed by a authorized person.
- ix) Should be registered for GST.
- x) Tender Processing Fee by DD
- xi) EMD as prescribed in tender document.

### **SUBMISSION OF BIDS:**

Tender is in two parts.

- a) Technical Bid containing documents of general Nature establishing Eligibility Criteria as specified above. Each & every document in the Technical bid should be signed by the Proprietor/duly authorized partner or all the partners in case of a partnership firm or the authorized Director in case of a company; all these also need to be stamped by the seal of the agency on each page. The EMD should be kept in a separate Envelope super scribed as "EMD" and giving details of Tender Notice No., description of work and due date of opening on the cover and addressed to SP (Admin), NIA, New Delhi.
- b) Commercial Bid shall be submitted in format provided with the tender document. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. Bidders are required to complete the BoQ/Price Bid in blue colour ink with their respective financial quotes and other details (such as name of the bidder) and submit it.

NOTE: The contractor shall clearly indicate their legal constitution and the person signing the bid shall state his capacity and also source of his ability to bind the Contractor. The power of attorney or authorization, or any other document consisting of adequate proof of the ability of the signatory to bind the contractor, shall also be submitted alongwith the tender. NIA may reject outright any bid not supported by adequate proof of the signatory's authority.

The items to be prepared, delivered and installed by the vendor within 45 days after placing the firm order.

The interested bidders are advised to visit and acquaint himself with the areas where the items are to be delivered and installed. The costs of visiting shall be borne by the bidder. It shall be deemed that the contractor/supplier has undertaken a visit to facilities and is aware of the all conditions prior to the submission of the tender documents.

The contractor may visit the site during all working days between 10.00 am to 17.00 pm with prior appointment for assessment of work. Visitor should have a valid identity card.

### **Part III – Standard Conditions of RFP**

The Bidder is required to give confirmation of their acceptance of the Standard Conditions of the Request for Proposal mentioned below which shall be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract).

**1. Law:** The Contract shall be considered and made in accordance with the laws of the Republic of India. The contract shall be governed by and interpreted in accordance with the laws of the Republic of India.

**2. Effective Date of the Contract:** The contract shall come into effect on the date of signatures of both the parties on the contract (Effective Date) or as mentioned in the contract document and shall remain valid until the completion of the obligations of the parties under the contract. The performance of the services shall commence from the effective date of the contract.


**3. Arbitration:** All disputes or differences arising out of or in connection with the Contract shall be settled by bilateral discussions. Any dispute, disagreement or question arising out of or relating to the Contract or relating to execution or performance, which cannot be settled amicably, may be resolved through arbitration. The arbitration shall be conducted in accordance with the provisions of the **Arbitration and Conciliation Act, 1996 (26 of 1996)** or any statutory modifications or re-enactment thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceeding under this clause.

**4. Penalty for use of Undue influence:** The Seller undertakes that he has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person in service of the Buyer or otherwise in procuring the Contracts or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the present Contract or any other Contract with the Government of India for showing or forbearing to show favour or dis-favour to any person in relation to the present Contract or any other Contract with the Government of India. Any breach of the aforesaid undertaking by the Seller or any one employed by him or acting on his behalf (whether with or without the knowledge of the Seller) or the commission of any offers by the Seller or anyone employed by him or acting on his behalf, as defined in Chapter IX of the Indian Penal Code, 1860 or the Prevention of Corruption Act, 1986 or any other Act enacted for the prevention of corruption shall entitle the Buyer to cancel the contract and all or any other contracts with the Seller and recover from the Seller the amount of any loss arising from such cancellation. A decision of the Buyer or his nominee to the effect that a breach of the undertaking had been committed shall be final and binding on the Seller. Giving or offering of any gift, bribe or inducement or any attempt at any such

act on behalf of the Seller towards any officer/employee of the Buyer or to any other person in a position to influence any officer/employee of the Buyer for showing any favour in relation to this or any other contract, shall render the Seller to such liability/ penalty as the Buyer may deem proper, including but not limited to termination of the contract, imposition of penal damages, forfeiture of the Bank Guarantee and refund of the amounts paid by the Buyer.

**5. Agents / Agency Commission:** The Seller confirms and declares to the Buyer that the Seller has not engaged any individual or firm, whether Indian or foreign whatsoever, to intercede, facilitate or in any way to recommend to the Government of India or any of its functionaries, whether officially or unofficially, for the award of the contract to the Seller; nor has any amount been paid, promised or intended to be paid to any such individual or firm in respect of any such intercession, facilitation or recommendation. The Seller agrees that if it is established at any time to the satisfaction of the Buyer that the present declaration is in any way incorrect or if at a later stage it is discovered by the Buyer that the Seller has engaged any such individual/firm, and paid or intended to pay any amount, gift, reward, fees, commission or consideration to such person, party, firm or institution, whether before or after the signing of this contract, the Seller will be liable to refund that amount to the Buyer. The Seller will also be debarred from entering into any Contract with the Government of India for a minimum period of five years. The Buyer will also have a right to consider cancellation of the Contract either wholly or in part, without any entitlement or compensation to the Seller who shall in such an event be liable to refund all payments made by the Buyer in terms of the Contract along with interest at the rate of 2% per annum above LIBOR rate. The Buyer will also have the right to recover any such amount from any contracts concluded earlier with the Government of India.

In case it is found to the satisfaction of the Buyer that the Seller has engaged an Agent or paid commission or influenced any person to obtain the contract as described in clauses relating to Agents/Agency Commission and penalty for use of undue influence, the Seller, on a specific request of the Buyer, shall provide necessary information/ inspection of the relevant financial documents/information.

 **6. Non-disclosure of Contract documents:** Except with the written consent of the Buyer/ Seller, other party shall not disclose the contract or any provision, specification, plan, design, pattern, sample or information thereof to any third party.

**7. Liquidated Damages:** In the event of the Seller's failure to submit the Bonds, Guarantees and Documents etc. as specified in this contract, the Buyer may, at his discretion, withhold any payment or part of payment until the completion of the contract. In case of delay in completion of work, penalty @ 0.5% of the contract value per week or part thereof will be deducted from



\* the bill. Such penalty should, however, will not be exceeding 10% of the total contract value.

**8. Termination of Contract:** NIA shall have the right to terminate this Contract in part or in full in any of the following cases:-

- (a) The delivery of stores is delayed due to causes of Force Majeure by more than 30 days provided Force Majeure clause is included in contract.
- (b) The delivery of the stores is delayed for causes not attributable to Force Majeure for more than 15 days after the schedule date of start.
- (c) The Seller is declared bankrupt or becomes insolvent.
- (d) The Buyer has noticed that the Seller has utilized the services of any Indian/Foreign agent in getting this contract and paid any commission to such individual/company etc.
- (e) As per decision of the Arbitration Tribunal.

**9. Notices:** Any notice required or permitted by the contract shall be written in the English language and may be delivered personally or may be sent by FAX or registered pre-paid mail/airmail, addressed to the last known address of the party to whom it is sent.

**10. Transfer and Sub-letting:** The Seller has no right to give, bargain, sell, assign or sublet or otherwise dispose of the Contract or any part thereof, as well as to give or to let a third party take benefit or advantage of the present Contract or any part thereof.

**11. Amendments:** No provision of present Contract shall be changed or modified in any way (including this provision) either in whole or in part except by an instrument in writing made after the date of this Contract and signed on behalf of both the parties and which expressly states to amend the present Contract.

**12. Taxes and Duties:**

1. Price quoted should be excluding the taxes/duties. The applicable taxes should be mentioned in the relevant column provided for the purpose. In case space provided for the Tax remain blank, it will be presumed that either no tax is payable or prices are inclusive of all taxes.

2. If a Bidder is exempted from payment of any duty/tax upto any value of services from them, he should clearly state that no such duty/tax will be charged by him up to the limit of exemption which he may have. If any concession is available in regard to rate/quantum of any Duty/ tax, it should be brought out clearly. Stipulations like, the said duty/tax was presently not applicable but the same will be charged if it becomes

leviable later on, will not be accepted unless in such cases it is clearly stated by a Bidder that such duty/tax will not be charged by him even if the same becomes applicable later on. In respect of the Bidders, who fail to comply with this requirement, their quoted prices shall be loaded with the quantum of such duty/tax which is normally applicable on the item in question for the purpose of comparing their prices with other Bidders.

3. Any change in any duty/tax upward/downward as a result of any statutory variation taking place within contract terms shall be allowed to the extent of actual quantum of such duty/tax paid by the vendor. Similarly, in case of downward revision in any duty/tax, the actual quantum of reduction of such duty/tax shall be extended to the Buyer by the Seller. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the Seller.
4. In case any new tax or levy or cess is imposed by Statute, after the last date stipulated for the receipt of tender including extensions (if any), the seller shall inform the buyer in writing within 15 days of imposition/Notification of said tax and thereupon necessarily and properly pays such taxes/ levies/ cess, The seller shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of the competent authority (whose decision shall be final and binding on the contractor) attributable to delay in execution of work within the control of the seller. The seller shall keep necessary books of accounts and other documents for the purpose of this condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the Government and shall also furnish such other information/ document as may require from time to time.

#### **Part IV – Special Conditions**

The Bidder is required to give confirmation of their acceptance of Special Conditions of the Tender mentioned below which will automatically be considered as part of the Contract concluded with the successful Bidder (i.e. Seller in the Contract) as selected by the Buyer. Failure to do so may result in rejection of Bid submitted by the Bidder.

##### **1. Performance Guarantee:**

The Bidder will be required to furnish a Performance Guarantee by way of Bank Guarantee through a public sector bank or a private sector bank authorized to conduct government business (ICICI Bank Ltd., Axis Bank Ltd or HDFC Bank Ltd.) for a sum equal to 10% of the contract value within 15 days of receipt of the confirmed order. Performance Bank Guarantee should be valid up to 60 days beyond the date of completion of contract period.

*27*

2. **Payment Terms**— The payment shall be made in the bank account of the contractor directly through e-payment mode. It is mandatory for the Bidders to provide their bank account numbers and other relevant details for *payment* so that payments could be made through ECS/NEFT/RTGS mechanism instead of payment through Cheque. No advance payment shall be made under any circumstances.

The Supplier shall submit the bills to the office of SP (Admn), NIA HQ, New Delhi with the following documents for verification and payment:

- (i) Receipt / certificate from the authorised officer in the location for having received the material with quantity of each item in good condition or work have been completed successfully as the case may be.
- (ii) Bills in triplicate should be sent later and the payment shall be released only after it is ensured that the items / quality of the items supplied are to the entire satisfaction of the department. If any item is found to be defective, or not of the desired quality etc., the same shall be replaced by the firm(s) immediately at their own cost for which no extra payment shall be made. All statutory deductions (IT/GST etc.) shall be made at source at the time of payment to the contractor as per the provisions of the relevant Tax Act as applicable.

### 3. Risk & Expense clause:

- a) Should the services or any part thereof not be delivered within the time or times specified in the contract documents, or if poor / substandard items are provided, the Buyer shall after granting the Seller 05 days to cure the breach, be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as cancelled either wholly or to the extent of such default.
- b) Should the item not delivered in accordance with the specifications / parameters provided by the SELLER during the contract period the BUYER shall be at liberty, without prejudice to the right to recover liquidated damages as a remedy for breach of contract, to declare the contract as wholly cancelled for breach of contract, or to the extent of such default.
- c) In case of a material breach that was not remedied within 05 days after the date of notice given for that material breach, the BUYER shall, having given the right of first refusal to the SELLER be at liberty to procure from any other source as he thinks fit, other items of the same or similar description to make good:-

- I. Such default.
- II. In the event of the contract being wholly determined the balance of the remaining items to be delivered there under.

- d) Any excess of the contract price, services procured from any other service provider as the case may be, over and above the contract price, price appropriate to such default or balance/ difference shall be recoverable from the SELLER. Such recoveries shall however, not exceed 10% of the value of the total contract."

#### **4. SPECIAL CONDITIONS FOR COMPLIANCE OF LABOUR LAWS:**

1. The Contractor shall at his own cost comply with the provision of labour laws, rules orders and notifications (whether central or state or local) as applicable to him or to this contract from time to time.

The contractor shall not engage/employ persons below the age of 18 years and shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act, 1986.

The contractor shall comply with all the provisions of the Minimum Wages Act, 1948, and Contract Labour (Regulation and Abolition) Act, 1970, amended from time to time and rules framed thereunder and other labour laws affecting contract labour that may be brought into force from time to time.

The contractor shall be responsible for payment of wages etc to its deployed personnel as per prevailing Acts/Orders as applicable under statutory laws. If any dispute arises between the contractor & the employed personnel regarding wages or any other service condition, it shall be settled by the contractor & the personnel engaged by it themselves. NIA shall not be a party in any such dispute. The contractor shall provide necessary insurance coverage to his workmen engaged in the execution of his contract so as to hold the NIA non-liaible for any act of contractor's workmen in case of any accident / mishap including death.

#### **Part V – Evaluation of bids & Evaluation procedure**

**Evaluation Criteria** - The broad guidelines for evaluation of Bids will be as follows:

- 27
- (a) Only those Bids will be evaluated which are found to be received by the stipulated date and time and fulfilling all the eligibility and qualifying requirements as mentioned in the tender document, both technically and commercially.
  - (b) The technical Bids forwarded by the Bidders will be evaluated first by the Buyer with reference to the parameter mentioned in the tender documents. The Price Bids of only those Bidders will be opened whose Technical Bids would found compliant after the evaluation of eligible criteria.



- (c) The Lowest Bid will be decided upon the lowest price quoted by the particular Bidder as per the Price Format given in the tender document.
- (d) Rates quoted by the seller in the price bid/format in figures and words shall be accurately filled in so that there shall not be any discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct.
- (e) If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally, but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount.
- (f) In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.
- (g) The Lowest Acceptable Bid will be considered further for placement of contract after complete clarification and price negotiations, if required, and as decided by the Buyer.
- (h) Please note that in case of cutting/overwriting and use of correction fluid is noticed, the bid will be rejected. The Tender documents submitted should be signed by the authorized signatory of the organization on each page of the documents which should also be serially numbered. Failure to do so will be treated as non-fulfillment of the tender conditions.
- (i) Any other criteria as applicable to suit a particular case.

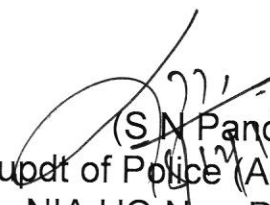


## **EVALUATION PROCEDURE**

Technical Evaluations of the Bids will be done by a duly constituted committee on the basis of Bid Documents submitted as mentioned Eligibility criteria and tender document. The committee constituted by the competent authority will examine the bids to determine whether they are complete, whether any computational errors have been made, whether the documents are genuine and have been properly signed and whether the bids are generally in order. The committee shall determine the conformity of each bid w.r.t. the bidding documents. As regard to financial evaluation of the Bids, the Gross amount quoted by the bidder as per the Price Bid format will be assessed by the committee.

A team of Officers from NIA may visit the office of the Bidders for establishing their credibility & verification of submitted documents.

Conditional Tenders/Non-compliance of any of conditions, set in tender document shall render the bid to disqualification. Any deviation from the clauses hidden/ intentional/ unintentional shall be considered as contravention of the clauses of tender document and same shall also be grounds of rejection

  
(S. N. Pandey)  
Supdt of Police (Adm)  
NIA HQ New Delhi  
Tele No.24368800  
Email- spadmin.nia@gov.in

**DETAILED TECHNICAL SPECIFICATIONS****PUBLIC ADDRESS SYSTEM (PA SYSTEM)**

The voice alarm system shall be the integrated solution for BGM(Back ground Music) and EVAC(Emergency Voice Alarm). The voice alarm system shall be designed for public address and emergency evacuation. All the essential EVAC functionality – such as system supervision, spare amplifier switching, loudspeaker line surveillance, digital message management and a fireman's panel interface – shall be combined.

A 24Vdc output shall be available to supply power to external relays, so no external power supply shall be required for that purpose. A LED VU-meter shall allow for monitoring of the master output.

The maximum/rated output power of the internal booster shall be 150 W / 300 W. max mains inrush current shall be 8A @ 230 VAC / 16A @ 115 VAC.


The frequency response shall be 60 Hz – 18 kHz (+1/-3 dB, @ -10 dB ref. rated output. The distortion shall not exceed 1% at the rated output, 1 kHz. The controller shall have tone controls to allow for adjustment of the BGM sound. It shall have separate bass and treble controls. The controller shall have two BGM source inputs and a mic/line input with configurable priority, speech filter, phantom power and selectable VOX activation.

The operating temperature range shall be -10°C to +55°C. The storage temperature range shall be -40°C to +70°C.

The system shall comply to all safety standards

**1 - GENERAL REQUIREMENT**

The design, supply, delivery, installation, testing, commissioning and maintenance of the Public Address System shall include, but not limited to the following:

- 
- Recessed mount (ceiling), surface mount, column and / or horn speakers, sound projectors, box and bi-directional box speakers c/w line matching transformers and volume controls, where applicable;
  - Termination of all cables to speakers, power amplifiers, etc.;
  - Equipment rack complete with forced air ventilation fan(s), mounting brackets blank panels, terminal boards, etc.
  - Main equipment and all associated auxiliary equipment;
  - Distribution cabling, including fire rated cables, where applicable, cable ladders, racks and Cable supporting systems (cable trunking and concealed metal conduits)
  - All other works and materials necessary for the efficient operation of the whole audio system Complete with power supply requirements and surge arrestors and filters.

The primary objective of the system is to provide clear announcements during public addressing and one-way voice communication during an emergency; the secondary function shall be to provide background music where required.

The system shall be capable of fulfilling the following requirements:

- Clear, un-distorted announcements to selected areas during public addressing;
- Clear, un-distorted paging to all zones; either individually or collectively. Selection of groups of zones shall be programmable from time to time; and
- Background music to selected areas when the other functions are not selected.

The loudspeakers shall be wired up in zones and with supervision; **localized volume controls** as specified shall be provided so that the desired volume adjustments may be made. Locations of localized volume controls are as indicated in the Schedules and /or drawings.

The zones shall further be grouped according to function so that it shall be possible to make an announcement by depressing just one switch on the call station.

To allow flexibility in the system, it shall be designed to be expandable with easy installation without changes in controller.

When the zones are selected for public addressing, a chime shall first be heard, followed by the announcement. The system shall have a range of tones such that it shall be possible to programme different tones for call stations.

It shall be possible for the system to function with different call stations in operation, provided there is no conflict in the zones being called by the call stations. An emergency call station shall be provided for emergency.

The Public Address System shall serve to

- a) Play the music
- b) Make general announcement
- c) Transmit fire tone under fire condition.

Different levels of priorities as per following shall be allotted to different signals for transmission through the same speaker.

- a) Emergency announcements - highest priority.
- b) Fire tone/Paging - Next
- c) Music - Least

For the purpose of PA system the zones are grouped into three groups as follows:

- a) Group One: Office areas and shall have general announcement and paging services.
- b) Group Two: Lift lobbies and other common areas and shall have music, general announcement and paging services.
- c) Group Three: Car park areas and shall have general announcement and paging services.

All control consoles shall be placed in the IBMS room.

Announcement and background music shall be played from the IBMS room.

Car calling mike shall be in the reception area.

A signal from FA panel shall initiate announcements of pre-recorded message in all the groups/zones in case of fire. This emergency announcement shall have highest priority.

The controller shall have a system of priorities such that, should a conflict situation arise, the station or user key with the top priority will override the others. This sequence of priorities shall be determined and programmed during the commissioning stage; it shall be possible to change the sequence by on-site as well as off-site re-programming, as and when the need arises.

The speakers shall be distributed in the entire building and configured in different zones.



\* The announcement shall be made in Individual mode i.e. one zone at a time or to all zones simultaneously in ALL CALL mode.

Public Address system comprising of

- a) Metal Cabinet.
- b) Ceiling ring speakers.
- c) Public Addressing Amplifiers
- d) Central Control Console.

All control and switching equipment shall be centralized and decentralized as specified and located in equipment racks in the FCC and equipment rooms. No other equipment except the volume controls and cable patch panel shall be located outside the equipment rack.

All equipment supplied shall be from the same manufacturer. Equipment supplied shall strictly be

Standard Products from Public Address Product Manufacturer. No tailor-made product shall be acceptable. The tendered shall submit catalogues of all equipment offered and upon delivery; certificate of country of origin, Certificate of Conformity and Certificate of Evacuation for the proposed PA Equipment shall be submitted.

Zoning for the passenger lifts shall be provided as provision and shall complete with the necessary wiring to be terminated in a termination box near the control panel in each lift motor room. Group zoning for the lifts shall be allowed for evacuation announcement.

## **2 - SYSTEM REQUIREMENT**

For general office and public areas, the system shall be capable of delivering a sound pressure level of 85 dB at the listening level.

For M & E areas such as plant rooms, etc where the noise level is higher (assumed to be  $\leq 80$  dB), the system shall be able to deliver 95 dB at the listening level.

The listening level shall be taken to be 1.5 m above floor level.

The reinforced sound shall be distributed evenly throughout the listening area; the total variation in each area shall not exceed  $\pm 4$  dB.

An articulation loss of consonants of less than 15% shall be maintained. (Generally, the reverberation time of the various locations shall be assumed to be not more than 1.9 seconds).

Paging announcements shall be possible from any of the microphone call stations, or from the microphone paging station to any zones within the network systems.

Call station shall be using CAT 5 cable with RJ 45 connector to transmit calls.

The microphone paging station shall have the flexibility of selecting any number of user keys (selection buttons) at any one time. It shall be able to program each user key for function.

The central controller shall have a means of monitoring, to continuously monitor the system from the microphone of the call station onwards; any faults shall be displayed on the central unit.

High quality signals shall be maintained at the output of the power amplifiers to compensate for losses in the audio distribution lines.

Each power amplifier with 30% spare capacity shall be provided to drive all loudspeakers during an emergency without overloading.

Each power amplifier shall have a built-in self-restoring protection circuit to guard against hazards of operation such as mis-loading at its input, short-circuiting of its output and connection mistakes.

The power amplifiers shall also have built-in line transformers for 100V loudspeaker matching, DC input of emergency operation. It shall have amplifier monitoring and auto-changeover over circuits & automatic volume control features built-in.

The power amplifiers shall have control inputs and audio inputs for interfacing for fire alarm signals. This control inputs shall be supervised, freely programmable for any system actions and with priorities setting.

A built-in amplifier monitoring circuits shall continuously monitor the functioning of the power amplifiers and shall automatically switch in a spare power amplifier in case of failure of any of the amplifiers. Upon detection, the status of the fault shall be indicated in the Central or local Monitoring.

The number of spare power amplifiers to be provided shall be ten percent of the total quantity of each range of power amplifiers.

### **Speakers**

1. Speakers shall be in metal enclosures with their line matching transformers. They shall be interconnected in the zone configurations.
2. The types of speakers to be used in various areas shall be as follows
  - a. Lift lobbies and office area 6W ceiling speakers.
  - b. External - Weather proof – 30 W
  - c. Electrical room, AHU room etc – 6 W wall mounted speaker.

All speaker lines shall be supervised for open circuit fault, short circuit fault, and short to ground fault.

Upon detection, the status of the fault shall be indicated in the Central Monitoring.

The loudspeakers shall be located such that they meet the necessary requirements. Rooms with on / off volume control units as required are indicated in the schedule of tables. Facilities shall be incorporated to override these volume control units, including those in the "off" position to enable emergency announcements to be broadcast. In general, one ceiling speaker shall be provided for every 25 square meters in each room such as offices and corridors, while a minimum of one ceiling speaker shall be provided for areas less than 25 square meters such as booths, pantry and toilets.

Horn speakers shall be provided for all generator/UPS rooms, Open areas on floors and outdoor areas with high ambient noise.

The Ceiling Speakers shall be as follows:

- a. The speaker shall be of high quality flush mount ceiling speaker.
- b. 6" dia suitable for max. of 3/6W/100V
- c. Metal grill with powder coated and attractive design.

- d. Tap selection with matching transformer – 1.5W/3W/6W

Column / wall mounted speakers shall be as follows:

- a. The speaker shall be with metal cabinet with suitable paint finish.
- b. Terminal strip at rear side for connections.
- c. 100V line matching transformer with 1.5W/3W /6W/10W/30W.

The system shall also have the means to cut-off the music sources during emergency paging and shall enable the emergency announcement to be heard in these areas. All volume controls as specified shall be overridden during emergency announcements.

There shall be background music to selected areas. It shall be possible to pre-program any of the output music to any of these zones. Sources provided shall be a continuous cassette player, MP3, an integrated compact disc player with digital tuner.

All equipment such as the central network controller and power amplifiers shall be housed in 19-inch equipment racks.

### **WIRING**

- Microphone level circuits, line level circuits, loudspeaker circuits and power circuits shall run in separate conduits. The conduits shall be medium duty PVC when run concealed and metal conduit when run exposed.
- All audio lines, including microphone, line level and loud-speaker lines shall be floating with respect to ground, neither side of the audio lines shall be grounded. No equipment employing single ended input shall be used in the system. If equipment has a single ended input, it must be provided with an input transformer to provide for floating condition.
- Cables for both internal wiring and external connections shall be of high conductivity stranded annealed copper conductor. PVC insulated, Extruded PVC inner sheathed, overall extruded PVC sheathed conforming to applicable standard.
- Voltage grade, size, no. of cores and screening shall be consistent with circuit requirements and shall be furnished by the CONTRACTOR. All outdoor cables shall be armored.
- The cables shall be run in cable trays in the communication shaft and in conduits up to the handsets/loudspeakers in each floor. The installation of the cable trays and conduits shall be in line with the requirements given in the electrical installation write-up.

### **Emergency Voice Communication System (EVC System):**

Two way communication: All staircase area shall be provided with Two way communication equipments. This equipment shall be communication between all fire escape stair routes to Main control room (IBMS room).

#### **Construction:**

The two way communication instrument shall be flush mounted type with Stainless steel finish. Suitable size base MS powder coated box shall be providing with fixing the following equipments.

Step down transformer: 230 AC/ 12-24 V DC

Microphone – 1 number

4" speaker with heavy duty magnet

Supply on Indicator

Push to talk button with LED display

Suitable cable terminal with entry provision.

4.27 EVC CONTROL PANEL

**The EVC control panel shall have the following features:**

- Continuous monitoring of the circuits and trouble indications.
- Announcements /Instructions to selected zones/areas
- Audio & visual indication when any handset station is activated
- The EVC panel shall be suitable Zone with control amplifier.

**3. POWER AMPLIFIERS:**

These amplifiers shall be designed to accept the input sources i.e., Microphone/USB/CD player/ Fire tone generator.

It shall meet the following minimum requirements:

The main function of the power amplifier is the amplification of audio signals for the loudspeakers. It shall be possible to select the output voltage between 100V, 70V or 50V by changing output. The power amplifiers are provided with compact 19", 2U & 3U high housing for table top use and rack mounting, while the maximum amplifier wattages varies from 120w to maximums 960w.

The amplifiers are protected against overload and short circuits. A temperature-controlled fan ensures high reliability at high output power and low acoustic noise at lower power output. Additionally, all booster amplifiers have an overheat protection circuit that switches off the power stage if the internal temperature reaches a critical limit due to poor ventilation or overload.

Balanced input and a loop-through connector shall be available for easy connection of multiple booster amplifiers to increase the available output power. The power amplifier shall obtain two balanced inputs with priority control, each with a loop-through facility. This allows for easy and automatic switching between e.g. a local music source and a priority announcement from a remote system.

An additional 100V line input is provided to connect the booster amplifiers to a 100V loudspeaker line, for additional output power e.g. on remote locations. Sensitivity or level control is located on the rear of the unit to avoid accidental setting change. A VU-meter with LED-bar shows the output level.

The amplifiers not only provide 70V and 100V outputs for constant voltage loudspeaker systems, a low impedance output for 8 Ohm loudspeaker loads is available for different usage.

The booster amplifiers operate both on mains power and on a 24V battery power supply for emergency back-up, with automatic switchover. Amplifier front panel with LED shall show as an indicator when it operates on the battery or AC supply.

The power amplifier shall be with the following approval: -

- EMC emission acc. to EN 55103-1
- EMC immunity acc. to EN 55103-2

**PERFORMANCE**

- Frequency response 50 Hz – 20 kHz (+1/-3 dB, @ -10 dB ref. rated output)
- Distortion <1% @ rated output power, 1 kHz



## **INPUTS**

- Line input (3-pin XLR, 6.3mm phone jack, balanced)
- Sensitivity 1 V
- Impedance 20 kOhm
- CMRR >25 dB (50 Hz-20 kHz)
- Line input 1, 2 (3-pin XLR, balanced)
- CMRR >25 dB (50 Hz-20 kHz)
- 100V input (Screw, unbalanced)
- Sensitivity 100 V
- Impedance 330 kOhm

## **OUTPUTS**

- Line loop through output t (3-pin XLR, 6.3mm phone jack, balanced)
- Nominal level 1 V
- Impedance direct connection to line input
- Line loop through output 1,2 (3-pin XLR, balanced)
- Impedance direct connection to line input
- Loudspeaker outputs (Screw, floating)
- Output power @ 24 V
- Battery operation -1 dB ref. rated power

## **ENVIRONMENTAL CONDITIONS**

- Operating temperature range -10 to +55°C
- Storage temperature range -40 to +70°C
- Relative humidity <95%

## **4. POWER SUPPLY**

The contractor shall make provision for all necessary power supply units, voltage regulators, etc, to ensure that the equipment will perform satisfactorily c/w necessary surge arrestors and filters.

All necessary power supply (s/s/o's etc) required for the operation of the sound equipment shall be designed supplied and installed by the contractor.

## **5. EMERGENCY OVERRIDE UNIT**

The emergency override unit when activated from the Fire Command Center, it will override all incoming signals to allow emergency messages to pass through.

## **6 - SYSTEM TESTING**

The contractor shall test the system in the presence of the Superintending Officer to show that its performance satisfies the requirement of this specification. All test equipments shall be professional and supplied by the contractor. A sound pressure meter will be required. No claim is allowed for this test. The cost shall be deemed to be included in the schedule of rates for the equipment.



To

\_\_\_\_\_

Sub: **OEM's Authorized Partners for this Tender**

Sir,

I/We \_\_\_\_\_ (Bidder/OEM) having my/our registered office \_\_\_\_\_ (address of the OEM) am/are an established manufacturer of bidder/OEM) solely authorize \_\_\_\_\_ (Name of the bidders/OEM's) authorised partner) to supply, install and provide warranty support on our quoted product for above mentioned tender. I/We have established that above authorized partners meet all tender eligibility conditions defined for OEM's 'authorized partners. I/We also have entered in an agreement with our all authorized partners that they will supply, install and provide warranty support for this tender on behalf of us.

2. Our full support is extended in all respects for supply, onsite warranty and maintenance of our products. I/We also ensure to provide the service support for the supplied equipment for a period of \_\_\_\_\_ years from date of installation of the equipment as per tender terms & conditions.

3. I/We also undertake that in case of default in execution of this tender by the any of authorized partners viz \_\_\_\_\_ (name of the authorized partners), the \_\_\_\_\_ (Bidder/OEM) shall take all liabilities and responsibilities and necessary steps for successful execution of maintenance/service support.

For \_\_\_\_\_ (Name of )Bidder/OEM

(Authorized signatory)  
Name & Designation \_\_\_\_\_



### PRICE BID FORMAT

S/No	Description of Item	Qty.	Rate	Amount
	PA System and BGM with Zone Paging			
1	SITC of Ceiling Speaker shall be of high quality flush mount ceiling speaker. 6" dia suitable for maximum of 3/6W/100V and metal grill with powder coated and attractive design and also tap selection with matching transformer-1.5W/3W/6W and as specified in the technical specifications (Annexure-I)	45		
2	SITC of Wall mount speaker shall be with metal cabinet with suitable paint finish. And terminal strip at rear side for connection. 100V line matching transformer with 1.5W/3W/6W/10W and as specified in the technical specifications (Annexure-I).	10		
3	Supply, Installation, Testing & Commissioning of EVC system for 8 Zones expandable to 120 Zones. The System Shall have Built in 500W Class-D Amplifier and it should be capable for the EVAC, Paging, PA and BGM functions. EVC Control panel shall have continuous monitoring of the circuit and trouble indications, announcements/Instruction to selected zones/areas, audio & Visual indication when any handset station is activated and the EVC Panel shall be suitable Zone with control amplifier and as specified in the technical specifications (Annexure-I).	1		
4	Supply, Installation, Testing & Commissioning of EVC slave module for extended 8 zone and as specified in the technical specifications (Annexure-I).	1		
5	SITC of Remote Paging microphone with minimum 12 buttons . The Microphone Should be suitable for Desktop mounting and as specified in the technical specifications (Annexure-I)	1		
6	GST ____%			
	<b>Total</b>			

Amount in Words \_\_\_\_\_

Signature of the contractor  
(Name & Address)  
Seal of the firm

- (1) No cutting/overwriting is allowed. Use of eraser or white fluid for making any correction in the price bid is strictly prohibited. Tender may be rejected for this reason.