



**West Bengal Housing Infrastructure Development Corporation Limited  
(A Govt. of West Bengal Undertaking)**

**HIDCO BHABAN, Premises No. - 35-1111, Biswa Bangla Sarani,  
3<sup>rd</sup> Rotary, New Town, Kolkata-700156.**

**Telephone No. (033) 2324-6037 / 38, Fax: (033) 2324-3016**

**e-mail: [info@wbhidco.in](mailto:info@wbhidco.in) / [wbhidcoltd@gmail.com](mailto:wbhidcoltd@gmail.com) website: [www.wbidcoltd.com](http://www.wbidcoltd.com)**

**e-Notice Inviting Tender**

**Memo. No. 1258/GM(E)-I/NIT-39/2022-23/50**

**Dated: 28<sup>th</sup> September, 2022**

Notice Inviting e-Tender No. **WBHIDCO/GM(E)-I/NIT-39/2022-23** of The General Manager (Engg)-I, WB HIDCO, invites e-tender for the work detailed in the table below. (Submission of Bid through **online**)

List of Schemes:

Sl. No.	Name of the work	Estimated Amount (Rs.) (2)	Earnest Money (Rs.) (3)	Price of Technical & Financial Bid documents and other annexures (Rs.) (4)	Period of Completion (5)	Name of the Concerned Officer (6)	Eligibility of Contractor (7)
1	Construction of aircraft museum at DJ block Action Area I of New Town, Kolkata.	Rs.50164604.18 (Rupees Five crores one lakhs sixty four thousand six hundred four and Paise one eight only)	Rs. 1003292.08 (Rupees Ten lakh Three thousand two hundred ninety two and Paise zero eight only)	Rs.5,000.00 (Rupees Five Thousand only) to be submitted in the form of Bank Draft / Pay Order from Nationalized Bank in favour of WB HIDCO Ltd. payable at Kolkata.	12 (Twelve) months	General Manager (Engg.)- I, West Bengal Housing Infrastructure Development Corporation Limited	Completed similar type of special Architectural Building / Museum Building along with MEP work. Work values not less than 2.5 crores.

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Similar nature of work shall mean construction of building complete with all types of HVAC, electrical, sanitary, plumbing and interior works with under ground water reservoir.

- 1) In the event of e-filling, intending bidder may download the tender documents from the website <http://etender.wb.nic.in> directly with the help of Digital Signature Certificate. Necessary Earnest Money 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 No., Amount, Beneficiary Bank Name (ICICI Bank) & IFSC Code and e-Proc Ref. No.
- 2) Both **Technical Bid** and **Financial Bid** are to be submitted concurrently duly digitally signed in the website [http:// wbtenders.gov.in](http://wbtenders.gov.in)
- 3) Tender documents may be downloaded from website and submission of Technical Bid and Financial Bid will be done as per Time Schedule stated in Sl. No. 7
- 4) The **FINANCIAL OFFER** of the prospective tenderer will be considered only if the **TECHNICAL BID** of the tenderer is found qualified by the 'Tender Evaluation Committee' formed by the authority of WB HIDCO Ltd. The decision of the 'Tender Evaluation Committee' will be final and absolute in this respect. The list of Qualified Bidders will be displayed in the website. **Rate should be quoted inclusive of all applicable taxes and G.S.T.**
- 5) **Eligibility criteria for participation in the tender.**
  - 1) As per NIT detail table (Sl. No.7) above. Income Tax Acknowledgement Receipt for the latest Assessment year, P.T. Deposit Challan for the year 2020-2021, Pan Card, GST Registration Certificate are to be accompanied with the Technical Bid Documents.

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[Non-statutory documents]

The prospective bidders or any of their constituent partner shall neither have abandoned any work nor any of their contract have been rescinded during the last 5 (*five*) years. Such abandonment or rescission will be considered as disqualification towards eligibility. (A declaration in this respect through affidavit has to be furnished by the prospective bidders without which the Technical Bid shall be treated as non-responsive.)

In case of Proprietorship, Partnership Firms and Company, Tax Audit Report in 3CD Form are to be furnished along with the Balance Sheet and Profit and Loss Account, and all the documents along with schedules forming the part of Balance Sheet and Profit & Loss Account should be in favour of applicant. No other name alongwith applicant's name in such enclosure will be entertained.

[Non-statutory documents]

The prospective bidders should own the required plant and machineries. Conclusive proof of ownership in favour of owner's of plant and machineries in working condition shall have to be submitted. (Ref. Section – B, Form – III).

[Non-statutory documents]

Registered Partnership Deed for Partnership Firm only along with Power of Attorney is to be submitted. The company shall furnish the Article of Association and Memorandum.

[Non-statutory documents]

**Joint Ventures will not be allowed.**

Engagement of sub contractors by the selected agency will be allowed at the time of execution, provided the credentials and the engagement of the sub contractor for this work will have to be pre approved by the Engineer in charge.

A prospective bidder shall be allowed to participate in a particular job either in the capacity of individual or as a partner of a firm. If found to have applied severally in a single job, all his applications will be rejected for that job, without assigning any reason thereof.

Running payment for work may be made to the executing agency as per availability of fund. The executing agency may not get a running payment unless the gross amount of running bill is 1.53 (*One point five three*) Crores or 30% of

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WB HIDCO

the tendered amount whichever is less. Provisions in Clause(s) 7, 8 & 9 contained in W.B. Form

No.2911(ii) so far as they relate to quantum and frequency of payment are to be treated as superseded.

Adjustment of price vide notification no. 23-CRC/2M-61/2008 dated: 13/03/2009 and no. 38-CRC/2M-61/2008 dated: 20/04/2009 in respect of construction materials shall not be applicable. The bidders shall quote their rate accordingly.

**No mobilisation advance and secured advance will be allowed.**

**Security Deposit:**

Retention money towards performance Security amounting to 10% (*ten percent*) of the value of the work shall be deducted from the running account bill of the tenderer as per prevailing order. No interest will be paid on Security Deposit.

Agencies shall have to arrange land for erection of Plant & Machineries, storing of materials, labour shed, laboratory etc. at their own cost and responsibility.

All materials required for the proposed work shall be of specified grade in conformity with relevant code of practice (latest revision) accordingly and shall be procured and supplied by the agency at their own cost including all taxes. If required by the Engineer-in-Charge, further testing from any Government approved Testing Laboratory shall have to be conducted by the agency at their own cost.

Constructional Labour Welfare CESS @ 1% (*one percent*) of cost of construction will be deducted from every Bill of the selected agency.

There shall be no provision of Arbitration.

Bid shall remain valid for a period not less than 120 (*one hundred twenty*) days from the last date of submission of Financial Bid / Sealed Bid. If the bidder withdraws the bid during the validity period of bid, the earnest money as deposited will be forfeited forthwith without assigning any reason thereof.

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## 6) Date and Time Schedule:

Sl. No.	Particulars	Date & Time
1	Date of uploading of N.I.T. & other Documents (online) (Publishing Date)	28.09.2022
2	Documents download/sell start date (Online)	29.09.2022 at 10.00 AM
3	Documents download/sell end date (Online)	18.10.2022 at 18.00 PM
4	Pre-bid meeting to be held at Conference Room of HIDCO BHABAN	11.10.2022 at 12.00 PM
5	Bid submission start date (On line)	29.09.2022 at 10.00 AM
6	Bid Submission closing (On line)	19.10.2022 at 12.00 PM
7	Bid opening date for Technical Proposals (Online)	21.10.2022 at 13.00 PM
8	Date of uploading list for Technically Qualified Bidder(online)	Will be notified later on
9	Date of uploading the final list of Technically Qualified Bidder(online) after disposal of appeals, if any.	-----
10	Date for opening of Financial Proposal (Online)	Will be notified later on
11	Last Date of submission of original copies for the cost of Tender Documents and Earnest Money Deposit (Off line)	Will be notified later on

- 7) The Prospective Bidder shall have to execute the work in such a manner so that appropriate service level of the work is maintained during progress of work and a period of 1 (*one*) year from the date of successful completion of the work to the entire satisfaction of the Engineer-in-Charge. If any defect / damage is found during the period as mentioned above, the contractor shall make the same good at his own cost to the specification at par with instant project work. On failure to do so, penal action against the contractor will be imposed by the Department as deem fit. The contractor may quote his rate considering the above aspect.

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Refund of Security Deposit will only be made after successful maintaining of appropriate service level of the work as mentioned above for 1 (*one*)

year from the date of completion of the work. Provision in Clause No. 17 of Form No. 2911(ii) shall be treated as superseded.

- 8) Site of work may be handed over to the agency phase wise. No claim in this regards will be entertained.
- 9) Earnest Money 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.
- 10) The Bidder, at his own responsibility and risk is encouraged to visit and examine the site of works and its surroundings and obtain all informations that may be necessary for preparing the Bid and entering into a contract for the work as mentioned in the Notice Inviting Tender, before submitting offer with full satisfaction, the cost of visiting the site shall be at his own expense.
- 11) The intending Bidders shall clearly understand that whatever may be the out come of the present invitation of Bids, no cost of Bidding shall be reimbursable by the Department. The tender accepting authority of WBHIDCO Ltd. reserves the right to accept or reject any offer without assigning any reason whatsoever and is not liable for any cost that might have been incurred by any Tenderer at the stage of Bidding.
- 12) Refund of EMD: The Earnest Money of all the unsuccessful tender deposited online through e-procurement portal of Government of West Bengal Website <http://etender.wb.nic.in> with the tender will be refunded accordingly by the e-procurement.
- 13) Prospective applicants are advised to note carefully the minimum qualification criteria as mentioned in '**Instructions to Bidders**' stated in Section – 'A' before tendering the bids.

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- 14) Conditional / Incomplete tender will not be accepted under any circumstances.
- 15) The intending tenderers are required to quote the rate online in the BOQ section and nowhere else.
- 16) Contractor shall have to comply with the provisions of (a) the contract labour (Regulation Abolition) Act. 1970 (b) Apprentice Act. 1961 and (c) minimum wages Act. 1948 of the notification thereof or any other laws relating there to and the rules made and order issued there under from time to time.
- 17) Guiding Schedule of Rates: Rates have been taken from PWD (West Bengal) Schedule of Rates-2017 for “Building Works” and “Sanitary & Plumbing Works” Electrical Works-2017 along with upto date corrigenda & addenda and Non scheduled rates have been arrived at through rate analysis followed by approval at the appropriate level.
- 18) During scrutiny, if it comes to the notice of the tender inviting authority that the credential or any other paper found incorrect / manufactured / fabricated, that bidder would not be allowed to participate in the tender and that application will be rejected without any prejudice.
- 19) The General Manager-I, WBHIDCO reserves the right to cancel the N.I.T. due to unavoidable circumstances and no claim in this respect will be entertained.
- 20) If there be any objection regarding prequalifying the Agency that should be lodged on line to the Chairman of Tender Evaluation Committee within 2 (two) days from the date of publication of list of qualified agencies and beyond that time schedule no objection will be entertained by the Tender Evaluation Committee.
- 21) Before issuance of the WORK ORDER, the tender inviting authority may verify the credential and other documents of the lowest tenderer if found necessary. After verification if it is found that the documents submitted by the lowest tenderer is either manufactured or false in that case work order will not be issued in favour of the said Tenderer under any circumstances.

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- 22) If any discrepancy arises between two similar clauses on different notification, the clause as stated in later notification will supersede former one in following sequence:
- 1) Form No. 2911(ii)
  - 2) N.I.T.
  - 3) Special Terms & Conditions
  - 4) Technical Bid
  - 5) Financial Bid
- 23 ) Qualification criteria:

The tender inviting and Accepting Authority through a “Tender Evaluation Committee” will determine the eligibility of each bidder. The bidders shall have to meet all the minimum criteria regarding:

- a) Financial Capacity
- b) Technical Capability comprising of personnel & equipment capability
- c) Experience / Credential

The eligibility of a bidder will be ascertained on the basis of the document(s) in support of the minimum criteria as mentioned in (a), (b) & (c) above and the declaration executed through prescribed affidavit in non-judicial stamp paper of appropriate value duly notarized. If any document submitted by a bidder is either manufactured or false, in such cases the eligibility of the bidder / tenderer will be rejected at any stage without any prejudice

24. Escalation of Price on any ground and consequent cost over run shall not be entertained under any circumstances. Rates should be quoted accordingly.
25. No. price preference and other concession as per order no. 1110F dated: 10/02/2006 will be allowed.
26. Enclosure:
- a) Drawings
  - b) Indicative Location plan
  - c) Brief Scope of work
  - d) Specifications

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**Memo. No. 1258/GM(E)-I/NIT-39/2022-23/50**

**Dated: 28<sup>th</sup> September, 2022**

Copy forwarded for information to:-

- 1) The Chief Engineer, WBHIDCO Ltd.

General Manager, Engineering I, WBHIDCO Ltd.

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## SECTION - A

### INSTRUCTION TO BIDDERS

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**General guidance for e-Tendering:**

Instructions / Guidelines for electronic submission of the tenders have been annexed for assisting the contractors to participate in e-Tendering.

- i. **Registration of Contractor:**

Any contractor willing to take part in the process of e-Tendering will have to be enrolled & registered with the Government e-Procurement System, through logging on to <https://etender.wb.nic.in> (the web portal of WBHIDCO the contractor is to click on the link for e-Tendering site as given on the web portal.
- ii. **Digital Signature certificate (DSC):**

Each contractor is required to obtain a Class-II or Class-III Digital Signature Certificate (DSC) for submission of tenders from the approved service provider of the National Informatics Centre (NIC) on payment of requisite amount. Details are available at the Web Site stated in Clause A.1. above. DSC is given as a USB e-Token.
- iii. **The contractor can search & download N.I.T. & Tender Document(s)** electronically from computer once he logs on to the website mentioned in Clause A.1. using the Digital Signature Certificate. This is the only mode of collection of Tender Documents.
- iv. **Participation in more than one work:**

A prospective bidder shall be allowed to participate in the job either in the capacity of individual or as a partner of a firm. If found to have applied severally in a single job all his applications will be rejected for that job.
- v. **Submission of Tenders:**

Tenders are to be submitted through online to the website stated in Clause A.1. in two folders at a time for each work, one in Technical Proposal & the other is Financial Proposal before the prescribed date & time using the Digital Signature Certificate (DSC). The documents are to be uploaded virus scanned copy duly Digitally Signed. The documents will get encrypted (transformed into non readable formats).

**Technical Proposal:**

The Technical proposal should contain scanned copies of the following in two covers (folders).

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**(a). Statutory Cover Containing the following documents:**

- 1> **PREQUALIFICATION DOCUMENTS:**
- **Prequalification Application (Sec-B, Form – I)**
  - Demand Draft towards cost of tender documents as prescribed in the N.I.T. against each of the serial of work in favour of the WBHIDCO LTD.
  - Demand Draft towards Earnest Money (EMD) as prescribed in the N.I.T. against each of the serial of work in favour of the WBHIDCO LTD.
- 2) **HIDCO 2911**
- 3) **N.I.T.**  
*(NIT, Tender Document and 2911 downloaded properly and upload the same Digitally Signed). The rate will be quoted in the B.O.Q. Quoted rate will be encrypted in the B.O.Q. under Financial Bid. In case quoting any rate in HIDCO 2911, the tender is liable to be summarily rejected.)*
- 4) **TECHNICAL DOCUMENTS**
- Affidavit [Ref. Format]
  - Experience profile [Form No-IV] Section B.
  - Contractor's Equipment [Form No-III] Section B.

**(b). Non-statutory Cover Containing the following documents:**

- i. Professional Tax (PT) deposit receipt challan for the financial year 2018-19, Pan Card, IT, Saral for the Assessment year 2019-20, VAT Registration Certificate.
- ii. Registered Deed of partnership Firm / Article of Association & Memorandum.
- iii. Power of Attorney (For Partnership Firm / Private Limited Company, if any).
- iv. Tax Audited Report in 3 CD form along with Balance Sheet & Profit & Loss A/c. for the last 3 (three) years (year just preceding the current Financial Year will be considered as year – I)
- v. List of machineries possessed by own / arranged through lease hold agreement along with authenticated copy of invoice, challan & waybill
- vi. **List of Technical staffs along with structure & organization (Section – B, Form – III).**

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- i. N.B.: Failure of submission of any of the above mentioned documents as stated in Sl. No. A.5.(a). and Sl. No. A.5.(b). will render the tenderer liable to be rejected for both statutory & non statutory cover.

**THE ABOVE STATED NON-STATUTORY/TECHNICAL DOCUMENTS  
SHOULD BE ARRANGED IN THE FOLLOWING MANNER**

Click the check boxes beside the necessary documents in the My Document list and then click the tab “ Submit Non Statutory Documents’ to send the selected documents to Non-Statutory folder.

Next Click the tab “ Click to Encrypt and upload” and then **click** the “Technical” Folder to upload the Technical Documents.

Sl. No.	Category Name	Sub-Category Description	Detail(s)
A.	Certificate(s)	Certificate(s)	GST Registration Certificate & Acknowledgement. PAN. P Tax (Challan) (Current). Latest IT Receipt. IT-Saral for Assessment Preceeding year.
B.	Company Detail(s)	Company Detail	Proprietorship Firm ( <i>Trade License</i> ) -Structure & Org.] Partnership Firm ( <i>Partnership Deed, Trade License</i> ) Ltd. Company ( <i>Incorporation Certificate, Trade License</i> ) Society ( <i>Society Registration Copy, Trade License</i> ) Power of Attorney, Memorandum of Association and Articles of Association of the Company.
C.	Credential	Credential -1 Credential -2	Similar nature of work done & completion certificate which is applicable for eligibility in this tender as per Form –IV Section –B.
D	Financial Info		Tax Audited Report in 3 CD form along with Balance Sheet & Profit & Loss A/c. for the last 3 (three) years (year just preceding the current Financial Year will be considered as year – I)

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E.	Man Power	Technical Personnel	List of Technical Staffs with Qualifications & Experience. Agency must have at least one graduate Engineer in Pay Roll.
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### Tender Evaluation Committee (TEC)

Evaluation Committee constituted by the Competent Authority of WBHIDCO LTD will function as Evaluation Committee for selection of technically qualified contractors.

Opening & evaluation of tender:

If any contractor is exempted from payment of EMD, copy of relevant Government Order needs to be furnished.

Opening of Technical Proposal:

Technical proposals will be opened by the Concerned Tender Inviting Authority or his authorized representative electronically from the website using their Digital Signature Certificate (DSC).

Intending tenderers may remain present if they so desire.

Cover (folder) for Statutory Documents (Ref. Sl. No. A.5.(a).) will be opened first and if found in order, cover (folder) for Non-Statutory Documents (Ref. Sl. No. A.5.(b).) will be opened. If there is any deficiency in the Statutory Documents the tender will summarily be rejected.

Decrypted (transformed into readable formats) documents of the non-statutory cover will be downloaded & handed over to the Tender Evaluation Committee.

Summary list of technically qualified tenderers will be uploaded online.

Pursuant to scrutiny & decision of the Tender Evaluation Committee the summary list of eligible tenderers & the serial number of work for which their proposal will be considered will be uploaded in the web portals.

During evaluation the committee may summon of the tenderers & seek clarification / information or additional documents or original hard copy of any of the documents already submitted & if these are not produced within the stipulated time frame, their proposals will be liable for rejection.

#### **1. Financial Proposal**

The financial proposal should contain the following documents in one cover (folder) i.e. Bill of Quantities (BOQ). The contractor is to quote the rate (Presenting Above /

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Below / At per) online through computer in the space marked for quoting rate in the BOQ.

Only downloaded copies of the above documents are to be uploaded virus scanned & Digitally Signed by the contractor.

Financial capacity of a bidder will be judged on the basis of information furnished in Section - B.

Penalty for suppression / distortion of facts:

If any tenderer fails to produce the original hard copies of the documents like Completion Certificates and any other documents on demand of the Tender Evaluation Committee within a specified time frame or if any deviation is detected in the hard copies from the uploaded soft copies, it may be treated as submission of false documents by the tenderer and action may be referred to the appropriate authority for prosecution as per relevant IT Act.

**Rejection of Bid:**

Employer reserves the right to accept or reject any Bid and to cancel the Bidding processes and reject all Bids at any time prior to the award of Contract without thereby incurring any liability to the affected Bidder or Bidders or any obligation to inform the affected Bidder or Bidders of the ground for Employer's action.

**Award of Contract**

The Bidder whose Bid has been accepted will be notified by the Tender Inviting & Accepting Authority through acceptance letter / Letter of Acceptance.

The notification of award will constitute the formation of the Contract.

The Agreement in Form No. 2911(ii) will incorporate all agreements between the Tender Accepting Authority and the successful bidder. All the tender documents including N.I.T. & B.O.Q. will be the part of the contract documents. After receipt of Letter of Acceptance, the successful bidder shall have to submit requisite copies of contract documents downloading from the website stated in Sl. No. 1 of N.I.T. along with requisite cost through Demand Draft / Pay Order issued from any nationalised bank in favour of the WB HIDCO LTD within time limit to be set in the letter of acceptance.

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SECTION – B

FORM – I

PRE-QUALIFICATION APPLICATION

To  
General Manager (Engg)-I, WB HIDCO  
HIDCO BHABAN,  
2<sup>ND</sup> FLOOR, NEW TOWN,  
KOLKATA.

Ref : Tender for .....  
(Name of work) .....

**e-N.I.T. No.: WBHIDCO/GM(E)-I/NIT-39/2022-23 of the General  
Manager (Engg.) – I, WBHIDCO Ltd.**

Dear Sir,

Having examined the Statutory, Non-statutory & N.I.T. documents, I /we hereby submit all the necessary information and relevant documents for evaluation.

The application is made by me / us on behalf of .....  
..... in the capacity .....  
..... duly authorized to submit the order.

The necessary evidence admissible by law in respect of authority assigned to us on behalf of the group of firms for Application and for completion of the contract documents is attached herewith.

We are interested in bidding for the work(s) given in Enclosure to this letter.

We understand that:

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- 1) Tender Inviting & Accepting Authority / Engineer-in-Charge can amend the scope & value of the contract bid under this project.
- 2) Tender Inviting & Accepting Authority / Engineer-in-Charge reserve the right to reject any application without assigning any reason.

**Enclosure(s): e-Filing:-**

- 1) Statutory Documents.
- 2) Non Statutory Documents.

Date: .....

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## SECTION – B

## AFFIDAVIT – “Y”

[To be furnished in Non – Judicial Stamp paper of Rs.100.00 (One Hundred only) duly notarized]

- 1) I, the under-signed do certify that all the statements made in the attached documents are true and correct. In case of any information submitted proved to be false or concealed, the application may be rejected and no objection/claim will be raised by the under-signed.
- 2) The under-signed also hereby certifies that neither our firm M/S ..... nor any of constituent partner had been debarred to participate in any tender by any Govt. Organization / Undertaking during the last 5 (*five*) years prior to the date of this N.I.T.
- 3) The under-signed would authorize and request any Bank, person, Firm or Corporation to furnish pertinent information as deemed necessary and/or as requested by the Department to verify this statement.
- 4) The under-signed understands that further qualifying information may be requested and agrees to furnish any such information at the request of the Department.
- 5) Certified that I have applied in the tender in the capacity of individual/ as a partner of a firm and I have not applied severally for the same job.

.....  
 .....  
 Signed by an authorized officer of the firm.

.....  
 Title of the officer

.....  
 Name of the Firm with Seal

Date: \_\_\_\_\_

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**SECTION – B**

**FORM – II**

**STRUCTURE AND ORGANISATION**

- 1) Name of Applicant :
- 2) Office Address :
- Telephone No. :
- Fax No. :
- 3) Name and Address of Bankers :
- 4) Attach an organization chart showing the structure of the company with names of Key personnel and technical staff with Bio-data. :

Note: Application covers Proprietary Firm, Partnership, Limited Company or Corporation.

Signature of applicant including title  
and capacity in which application is made.

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**SECTION – B**  
**FORM – III**  
**Contractor’s Equipment**

Name of the Applicant .....

Whereas it is entirely the responsibility of the Contractor to deploy sufficient plant and mechanical equipment to ensure compliance with his obligations under the Contract, the following list is an indicative list of the minimum essential basic holding of plant and mechanical equipment which the Contractor must own. **The contractor must furnish the documents in support of ownership.**

Sl. No.	Type of Equipment	Capacity	Supporting Documents

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**Signature of applicant  
including title and  
capacity in which  
application is made**

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## SECTION – B

## FORM – IV

## Experience Profile

Name of the Firm: .....

.....

List of projects completed that are similar in nature to the works having more than 40% (*forty percent*) of the project cost executed during the last 5 (*five*) years.

Name of Employer	Name, Location & nature of work	Name of Consulting Engineer responsible for supervision	Contract price in Indian Rs.	Percentage of Participation of company	Original Date of start of work	Original Date of completion of work	Actual Date of starting the work	Actual Date of completion of work	Reasons for delay in completion (if any)

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Note:

- 1) Certificate from the Employers to be attached
- 2) Non-disclosure of any information in the Schedule will result in disqualification of the firm

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Signature of applicant including title  
and capacity in which application is made.  
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## Brief Scope of Work

Execution of the following work as instructed by the EIC at the indicated location

- i) Surface Dressing of the ground including removing vegetation inequalities and disposal of the rubbish as directed by the EIC.
- ii) Earthwork for foundation and surface preparation.
- iii) Appropriate foundation and the structure as per the drawing.
- iv) Termite treatment and moisture protection treatment for foundation and structure
- v) RCC frame and slab casting for a two storied structure of given plan
- vi) Brickwork of 230 mm thickness
- vii) Construction of RCC underground reservoir for storing water from borewell supply and fitting of a moulded polyethylene Overhead Reservoir with appropriate pump and associated arrangements.
- viii) Internal and external wall finishing and flooring as per specification
- ix) Complete electrical wiring work and associated fittings.
- x) Complete supply, installation and testing including 3 years of maintenance of HVAC system for the building.
- xi) Complete plumbing and sewer lines with connectivity with the nearest point of public supply and sewerage system
- xii) External and internal wall surface finishing and painting with specified material.
- xiii) Complete supply fitting and fixing of sanitary ware, electrical fittings and fixings and MS grills of approved make and specifications as per plan and direction of the EIC
- xiv) Supply, fitting and fixing Fire prevention equipment as per the guidelines of fire and emergency services in accordance with direction of the EIC
- xv) Fitting and fixing of glass panels as per the design and to the satisfaction of the EIC.
- xvi) Completion of the entire work as per specification and to the satisfaction of the EIC.

(For more details refer to the BOQ file at the appropriate link which is an integral part of this tender document)

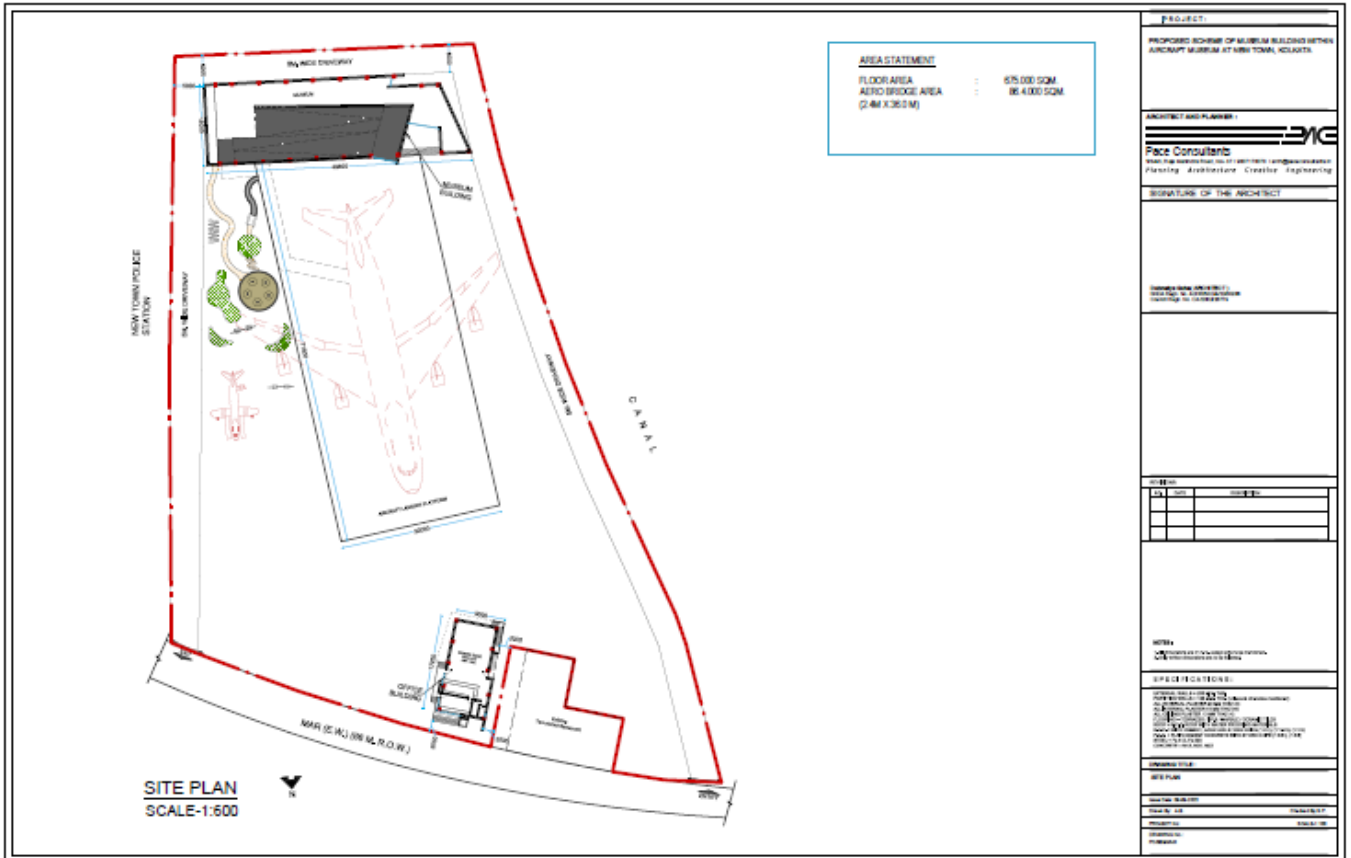
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## Indicative Location

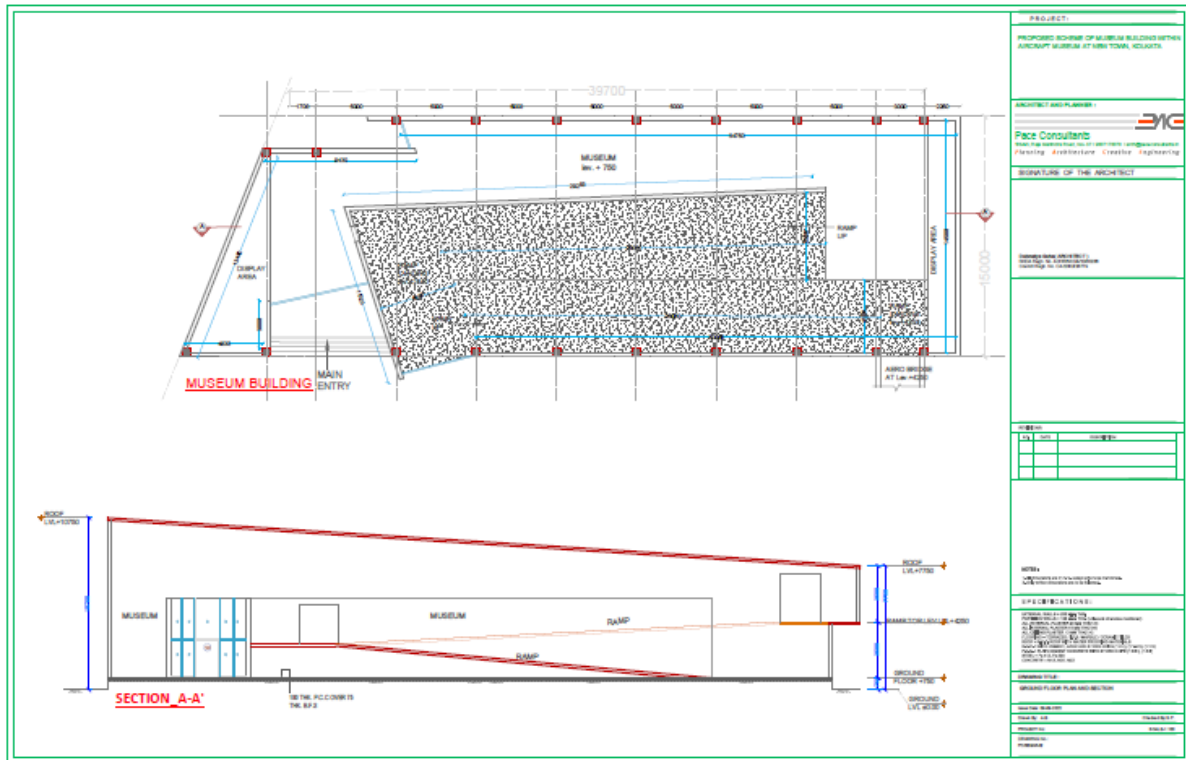
The site for proposed project Aircraft Museum is located in block DJ of Action Area-I of New Town Kolkata. The project site is situated adjacent to the New Town Police Station. The Major arterial road (Biswa Bangla Sarani) opposite to Tata Medical.



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Plans



Proposed Ground Floor Plan

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## SPECIFICATIONS

### 1.1.1 Structure (RCC framed structure)

- a) **PCC:** Ordinary Cement concrete (mix 1:2:4) with graded stone chips of Pakur variety (20mm nominal size) as per relevant IS codes. (IS 456:2000)
- b) **RCC :** Ready mixed concrete of M 30 Grade with well graded stone chips of 20 mm nominal size containing designed quantity of cement per Cu.m of wet concrete produced in computerised batching plant under controlled condition using approved super plasticizer, designing concrete mix following I.S. 10262 and I.S. 456, transporting the mix with agitation in transit mixer to work site depositing the mix on a platform erected for the purpose at required levels of concreting and then placing the mix in its final location of form work, compacting and curing the same complete as per specification.
- c) **REINFORCEMENT STEEL:** Reinforcement for reinforced concrete work of Tor steel from SAIL/TATA/RINL or Equivalent make in all sorts of structures including distribution bars, stirrups, binders etc. initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16gauge black annealed wire at every intersection, complete as per drawing and direction.

### 1.1.2 Finishes

#### a) WALLS

- 200 mm. thick Brick work with Clay Bricks set in cement sand mortar (1:6)
- 100 mm. thick brick work with Clay Bricks set in cement sand mortar (1:4)

#### b) Flooring

- Double Charge Vitrified tiles
- Granite of 15 to 20 mm thick for stairs, landing and lobby.
- Kota Stone of 18 to 22 mm for pantry, Kitchen.
- Ceramic Tiles for toilets,

#### c) Interior

- Interior surface walls, Ceiling are treated with Acrylic Emulsion and acrylic primer including two coats of cleaning and smoothing and water proof wall putty.

#### d) Exterior

- Use of exterior grade acrylic primer with Decorative acrylic exterior emulsion paint.
- Aluminium glazing

### 1.1.3 MATERIAL SPECIFICATION

#### 1.1.3.1 General

- i) The construction materials shall be tested for their sound quality well in advance.
- ii) Allowable stress for materials shall be calculated in accordance with the applicable standards for materials (IS).

#### 1.1.3.2 Unit weight of materials

The self-weight of the various elements utilised in construction are computed based on the unit weight of materials as given in (IS: 875-1987 Part-I)

The self-weight of the various elements utilised in construction are computed based on the unit weight of materials as given in (IS: 875-1987 Part-I)

- Unit Weight of concrete - 25 KN/m<sup>3</sup>
- Unit Weight of Aluminium - 28 KN/m<sup>3</sup>
- Unit Weight of Aerated light weight Blocks - 10KN/m<sup>3</sup>
- Common Burnt Clay Building Bricks - 20KN/m<sup>3</sup>
- Unit Weight of Steel - 78.5 KN/m<sup>3</sup>
- Unit Weight of floor finishes - 20 KN/m<sup>3</sup>
- Landscape soil - As per actual

#### 1.1.3.3 Material Properties

- **Aggregates:** The sizes of coarse aggregates will conform to IS 383. Nominal maximum size of coarse aggregate will be 20 mm, suitably graded as per the requirement of mix design. The fine aggregates will conform to the specifications of IS: 383.
- **Water:** Water used for construction shall comply with IS 456:2000.
- **Cement:** Ordinary Portland cement of grade 43 or higher conforming to IS 8112 and IS 12269.
- **Concrete:** The grades of concrete used will be in the range M: 20 to M: 30.
- **Reinforcement:** Steel Reinforcement Fe-500D conforming to IS: 1786-2008
- **Structural Steel:**
  - **Steel beams:** Standard sections with steel of Grade Fe490, conforming to IS: 2062-2006 will be used.
  - **Hollow Sections:** Standard sections with steel of Grade YST 310
  - **Plates :** Steel of grade Fe490, conforming to IS: 2062-2006
  - **Bolts and Nuts:** All bolts and nuts shall conform to IS 1363: 2002 and IS 1364: 2002 as applicable and unless specified otherwise will be hexagonal. The nuts shall have the property class compatible to the property class of the bolt used and the same will show in the

respective drawings. All connections made at site to be bolted and all connections made at shop to be bolted welded.

#### 1.1.3.4 Nominal cover for reinforcement

From Durability requirement, exposure condition is considered as per IS Codal requirements

## 1.2 Electrical

### 1.2.1 Codes and standards:

All electrical equipments shall be designed, manufactured, tested and commissioned in compliance with the following latest codes and standards,

	NBC- 2016 - National Building Code
	IS - Indian Standards
	IEEE - Institute of Electrical & Electronics Engineers
	IEC - International Electro technical Commission
	ASHRAE - American Society of Heating Refrigerating and Air conditioning Engineers
	E - Bureau of Energy Efficiency
	BC 2017 - Energy Conservation and Building Code
	LEED - Leadership in Energy and Environmental Design
	Indian Electricity Rules
	West Bengal Electricity Regulatory Commissions

*Codes and Standards*

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**APPROVED MAKE LIST**  
(Please follow the applicable items for the relevant tender)

Sl No.	Description of Item	Approved Make / Brand
	<b>Civil works</b>	
1	Reinforcement for concrete works	SAIL/TATA/RINL
2	Paint	Berger/ Asian Paints/ ICICI/ Nerolac
3	MS structural works	SAIL/TISCO/UTKARSH
4	Galvanized corrugated sheets	TATA/Esar/Jindal
5	Controlled cement concrete M25 Garde	
6	RMC M25/M30/M35/M40 grade	Ultratech/LnT/FTC
7	Anti-termite chemical	
8	Water proofing chemical /compound	Sika / Dr Fixit/ Fosroc
9	White cement	Ultratec/Birla/ACC
10	cement 53 grade	Ultratech/Ambuja /ACC
11	Concrete grass	NILITE Concrete / Pavers India/ NIMCO or Equivalent
12	Interlocking pavers /Concrete Kerb/RCC manhole covers	Pavestone/Calstone/GK Precast/ Advance precast/ S G Poly Concrete.
13	Outdoor vitrified Pavers	H&R Johnson/Pavit/Ultra Pavers
15	Poly carbonate sheet	Bare Galvalume / Danpalon / GWX or Equivalent
16	Stainless steel	SAIL/TATA/RINL
17	Bitumen product	IOCL/ HPCL/ Shell/ Shalimar Tar products
18	Aggregate,Stonechips,SandandRoadmaterialsforBaseand Sub-base	Asper"SPECIFICATIONSFORROADANDBRIDGEWORKS" 5th Revision April 2013, Issued by Ministry of Road Transport & Highway
19	Aluminum doors, windows & partition	Jindal/ Indian Aluminum Sections or Equivalent.
20	MS ornamental grill	As approved by EIC
21	MS structural steel	Tata/Jindal/RINL
22	Multi wall poly carbonate sheet	Tuflite/Gallina or equivalent
	<b>Flooring</b>	
23	Ceramic tiles	HR Johnson/Kajaria/welspun
24	Vitrified Tiles	HR Johnson/Kajaria/welspun
25	Glass mosaic tiles	HR Johnson/Kajaria/welspun
26	Tactile tiles	HR Johnson/Kajaria/welspun
27	Laminated wood flooring	HR Johnson/Kajaria/welspun
28	Italian marble stone	
	<b>PHE / Water supply</b>	

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29	Galvanized iron pipes	TATA/ Jindal Hissar/ JSW or equivalent
30	CPVC pipes	Supreme/Prince/Garware/Finolex/ Astral/Kissan or Equivalent.
31	UPVC pipes	Supreme/ Prince/Garware/Finolex/ Astral/KissanorEquivalent.
32	Sanitary fittings	Jaguar/ Parry ware/Hindware/Cera
33	Sanitary ware	Hindustan/Parryware/ Jaguar/Cera
	<b>Interior works</b>	
34	Plywood	Century/ Green / Globe
35	Veneer	Century/ Green / CityLam
36	Laminate	Century/ Green / CityLam
37	Glass	Modi/ ASAHI /Saint Gobain/ Hindustan
38	Fittings and accessories	Dorma/ Ozone/ Godrej
39	<b>Outdoor furniture</b>	Experio
40	<b>Play equipment</b>	Bodyline/Kompan/Experio
	<b>SIGNAGE</b>	
41	Photoluminescent Signages	Autoglo/Glo-lite/Prolite
	<b>Electrical</b>	
42	Double door Vertical TPN MCB Distribution board-Enclosure(12way)	Legrand/Schneider/Crabtree/Seimens /ABB/Havells
43	SP/FP MCB	Legrand/Schneider/Seimens/ABB/L&T/Ha vells
44	4CX16Sqmm Al. Ar. XLPE cable	Havells/Finolex/KEC/KEI
45	Exhaust fan with bird guard	CG/Havells/Almonard
46	Outdoor 4ft LED tube light,20W,230V	Philips/Bajaj/Wipro
47	9W 1'X1' LED SURFACE/RECESS MOUNTED LUMINAIRE,230V	Philips/Bajaj/Wipro
48	12W LED bathroom mirror light	Philips/Bajaj/Wipro
49	1200mm sweep Ceiling fan with its regulator	CG/Havells/Usha
50	GI pipe	TATA
51	Bulk head light fitting,8watt CFL / 100 watts GLS lamp	Havells
	<b>CCTV</b>	

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52	Supply, installation, testing and Commissioning of 24 channel upto 8 TB of HDD supported HDMI in HD 1080 network video recorder CNS NTP server, synchronization, camera I/O and remote I/O solution, multiple platform mobile support	Server make to be Dell/ HP / Lenovo
53	Supply, installation, testing and Commissioning of bullet camera 50/60 FPS, 1920X1080 to 160X90 resolution to 2 MB counter, remote zoom, remote focus, supporting micro SD card	Make to be Bosch/ Honeywell/Hikvision/Dahua/ Axis /Pelco/ Tyco/Infinoa /equivalent
54	Supply, installation, testing and Commissioning of DOME camera 25/30 FPS, 1920X1080 to 160X90 resolution to 2 MB counter, POE supporting micro SD card	Make to be Bosch/ Honeywell/ Hikvision/ Dahua/ Axis/Pelco/ Tyco/Infinoa/ equivalent.
55	Supply, installation, testing and Commissioning of accessories of POE adapter/injector/ethernet /Axis T8120, 15W, Midspan, 1port	
56	Supply, installation, testing and Commissioning of 4TB surveillance HDD	Make to be Transcend/ Sony/ Seagate/ WD/Western Digital / Toshiba
57	Supply, installation, testing and Commissioning of 16 port managed Gigabit switch	Make to be D Link/DigiLink/Netgear
58	Supply, installation, testing and Commissioning of 5 port unmanaged normal switch	Make to be D Link / DigiLink/Netgear
59	Supply, installation, testing and Commissioning of 60-inch LED screen	Make to be Delta/ Samsung/ LG / Sharp

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