

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	19-02-2026 20:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	19-02-2026 20:30:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	145 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Ministry Of Defence
विभाग का नाम/Department Name	Department Of Military Affairs
संगठन का नाम/Organisation Name	Indian Army
कार्यालय का नाम/Office Name	*****
वस्तु श्रेणी /Item Category	Custom Bid for Services - PROVISION OF CONSULTANCY FOR STRUCTURAL AUDIT FOR KENDRIYA VIDYALAYA SCHOOL BUILDING AT INS VALSURA, JAMNAGAR
समान श्रेणी/Similar Category	<ul style="list-style-type: none">Repair, Maintenance and Installation of Plant/ Systems/Equipments
अनुबंध अवधि /Contract Period	1 Month(s) 15 Day(s)
बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) /Minimum Average Annual Turnover of the bidder (For 3 Years)	20 Lakh (s)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service	3 Year (s)
इसी तरह की सेवाओं का पिछला आवश्यक अनुभव है/Past Experience of Similar Services required	Yes
वर्षों के अनुभव एवं टर्नओवर से एमएसई को छूट प्राप्त है / MSE Relaxation for Years Of Experience and Turnover	Yes Complete
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / Startup Relaxation for Years Of Experience and Turnover	Yes Complete

बिड विवरण/Bid Details	
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेजों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेन् है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	5
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	7
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	1
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	Yes
रिवर्स नीलामी योग्यता नियम/RA Qualification Rule	H1-Highest Priced Bid Elimination
बिड का प्रकार/Type of Bid	Two Packet Bid
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	3 Days
अनुमानित बिड मूल्य /Estimated Bid Value	492000
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

आवश्यकता/Required	No
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ईपीबीजी विवरण /ePBG Detail

आवश्यकता/Required	No
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बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

एमआईआई अनुपालन/MII Compliance

एमआईआई अनुपालन/MII Compliance	Yes
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एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माताओं को खरीद में प्राथमिकता, यदि उनका मूल्य L1+X% तक की सीमा में हो / Purchase Preference to MSE OEMs available upto price within L1+X%	15

1. If the bidder is a Micro or Small Enterprise as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Experience Criteria" as defined above subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.
2. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover, shall upload the supporting documents to prove his eligibility for Relaxation.
3. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Experience Criteria" as defined above subject to their meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.
4. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Bidder Turnover" as defined above subject to their meeting of quality and technical specifications. If the bidder is DPIIT Registered OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover shall upload the supporting documents to prove his eligibility for Relaxation.
5. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.
6. Years of Past Experience required: The bidder must have experience for number of years as indicated above in bid document (ending month of March prior to the bid opening) of providing similar type of services to any Central / State Govt Organization / PSU. Copies of relevant contracts / orders to be uploaded along with bid in support of having provided services during each of the Financial year.
7. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference for services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered service. If L-1 is not an MSE and MSE Service Provider (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band as defined in the relevant policy, then 100% order quantity will be awarded to such MSE bidder subject to acceptance of L1 bid price. The buyers are advised to refer to the [OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if the credentials of the service provider are validated on-line in GeM profile as well as validated and approved by the Buyer after evaluation of submitted documents.
8. If L-1 is not an MSE and MSE Service Provider (s) has/have quoted price within L-1+ 15% of margin of purchase preference /price band as defined in the relevant policy, then 100% order quantity will be awarded to such MSE bidder subject to acceptance of L1 bid price.
9. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc.

This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

10. Past Experience of Similar Services: The bidder must have successfully executed/completed similar Services over the last three years i.e. the current financial year and the last three financial years(ending month of March prior to the bid opening): -

1. Three similar completed services costing not less than the amount equal to 40% (forty percent) of the estimated cost; or
2. Two similar completed services costing not less than the amount equal to 50% (fifty percent) of the estimated cost; or
3. One similar completed service costing not less than the amount equal to 80% (eighty percent) of the estimated cost.

11. Reverse Auction would be conducted amongst all the technically qualified bidders except the Highest quoting bidder. The technically qualified Highest Quoting bidder will not be allowed to participate in RA. However, H-1 will also be allowed to participate in RA in following cases:

- i. If number of technically qualified bidders are only 2 or 3.
- ii. If Buyer has chosen to split the bid amongst N sellers, and H1 bid is coming within N.
- iii. In case Primary product of only one OEM is left in contention for participation in RA on elimination of H-1.
- iv. If L-1 is non-MSE and H-1 is eligible MSE and H-1 price is coming within price band of 15% of Non-MSE L-1
- v. If L-1 is non-MII and H-1 is eligible MII and H-1 price is coming within price band of 20% of Non-MII L-1

अतिरिक्त योग्यता /आवश्यक डेटा/Additional Qualification/Data Required

Instruction To Bidder:[1768803902.pdf](#)

Scope of Work:[1768803937.pdf](#)

Payment Terms:[1768803945.pdf](#)

Any other Documents As per Specific Requirement of Buyer -1:[1768803988.pdf](#)

Undertaking of Competent Authority is mandatory to create Custom Bid for Services. Please download standard format document and upload:[1768804004.pdf](#)

GEM Availability Report (GAR):[1768804026.pdf](#)

Pre Bid Detail(s)

मूल्य भिन्नता खंड दस्तावेज़/Pre-Bid Date and Time	प्री-बिड स्थान/Pre-Bid Venue
14-02-2026 11:00:00	Pre bid meeting will be held on 14 Feb 2026 at 1100hrs at work site for visual inspection.

Custom Bid For Services - PROVISION OF CONSULTANCY FOR STRUCTURAL AUDIT FOR KENDRIYA VIDYALAYA SCHOOL BUILDING AT INS VALSURA, JAMNAGAR (1)

तकनीकी विशिष्टियाँ /Technical Specifications

विवरण/ Specification	मूल्य/ Values
कोर / Core	
Description /Nomenclature of Service Proposed for procurement using custom bid functionality	PROVISION OF CONSULTANCY FOR STRUCTURAL AUDIT FOR KENDRIYA VIDYALAYA SCHOOL BUILDING AT INS VALSURA, JAMNAGAR
Regulatory/ Statutory Compliance of Service	YES
Compliance of Service to SOW, STC, SLA etc	YES

विवरण/ Specification	मूल्य/ Values
एडऑन /Addon(s)	

क्रेता द्वारा निर्धारित न्यूनतम मूल्य/Minimum Floor Price defined by Buyer

क्रेता द्वारा निर्धारित न्यूनतम मूल्य/Minimum Floor Price defined by Buyer	No
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अतिरिक्त विशिष्टि दस्तावेज /Additional Specification Documents

परेषिती/रिपोर्टिंग अधिकारी /Consignees/Reporting Officer and Quantity

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	Quantity	अतिरिक्त आवश्यकता /Additional Requirement
1	*****	*****Jamnagar	Project / Lumpsum Based	N/A

क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions

1. Generic

OPTION CLAUSE: The buyer can increase or decrease the contract quantity or contract duration up to 25 percent at the time of issue of the contract. However, once the contract is issued, contract quantity or contract duration can only be increased up to 25 percent. Bidders are bound to accept the revised quantity or duration

2. Generic

Bidder financial standing: The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.

3. Generic

Actual delivery (and Installation & Commissioning (if covered in scope of supply)) is to be done at following address

INS
Valsura
base
Jamnagar
under GE (I) Navy Jamnagar
.

4. Forms of EMD and PBG

Bidders can also submit the EMD with Account Payee Demand Draft in favour of

Garrison Engineer (I) Navy Jamnagar
payable at
Jamnagar

Bidder has to upload scanned copy / proof of the DD along with bid and has to ensure delivery of hardcopy to the Buyer within 5 days of Bid End date / Bid Opening date.

5. **Certificates**

Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

6. **Purchase Preference (Centre)**

Bid reserved for Make In India products: Procurement under this bid is reserved for purchase from Class 1 local suppliers as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a class 1 local supplier is denoted in the bid document 50%. All bidders must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which the bid is liable to be rejected. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020 . In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

7. **Service & Support**

AVAILABILITY OF OFFICE OF SERVICE PROVIDER: An office of the Service Provider must be located in the state of Consignee. DOCUMENTARY EVIDENCE TO BE SUBMITTED.

8. **Service & Support**

Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

9. **Generic**

Manufacturer Authorization:Wherever Authorised Distributors/service providers are submitting the bid, Authorisation Form /Certificate with OEM/Original Service Provider details such as name, designation, address, e-mail Id and Phone No. required to be furnished along with the bid

10. **Past Project Experience**

Proof for Past Experience and Project Experience clause: For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed.b. Execution certificate by client with contract value.c. Any other document in support of contract execution like Third Party Inspection release note, etc.**Proof for Past Experience and Project Experience clause:** For fulfilling the experience criteria any one of the following documents may be considered as valid proof for meeting the experience criteria:a. Contract copy along with Invoice(s) with self-certification by the bidder that service/supplies against the invoices have been executed.b. Execution certificate by client with contract value.c. Any other document in support of contract execution like Third Party Inspection release note, etc.

11. **Generic**

Registration / Empanelment Requirement: Contract shall be awarded to only such sellers , who are registered / empanelled / approved / enlisted with

Military Engineer Services (MES)
for the required goods / service category on the date of bid opening. Prospective bidders (if not already registered), are advised to get themselves registered with the said registration authority before bid

opening date. (It is certified that the registration is granted by the registering agency as per Rule 150 of GFR following a fair, transparent and reasonable procedure.)

12. **Generic**

1. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
2. The Seller shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer.
3. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.

13. **Buyer Added Bid Specific Scope Of Work(SOW)**

File Attachment [Click here to view the file.](#)

14. **Buyer Added Bid Specific ATC**

Buyer uploaded ATC document [Click here to view the file.](#)

15. **Buyer Added Bid Specific Scope Of Work(SOW)**

Text Clause(s)

Name of Work : JOB ORDER FOR PROVISION OF CONSULTANCY FOR STRUCTURAL AUDIT FOR K ENDRIYA VIDYALAYA SCHOOL BUILDING AT INS VALSURA, JAMNAGAR.

BRIEF DESCRIPTION OF JOB WOK - (Qty in 01 JOB)

- (a) Visual inspection and photography performing a visual survey of the building and recording/ mapping on drawing to assess extent of spalled concrete, cracked concrete, honey combing, reinforcement corrosion, delaminated concrete etc, taking photographs and videos to collect evidence of damage to structure = **(01 Nos)**.
- (b) Ultrasonic Pulse Velocity test for RCC structure in accordance with [IS:516](#) Part-5 : 2018 SECTION 1 by portable ultrasonic non destructive digital test equipment including chipping out plaster at strategic locations. = **(20 Nos)**.
- (c) Rebound Hammer Test . Rebound Hammer Test in accordance with [IS:516](#) Part-5 : 2018 SECTION-4 by portable rebound hammer equipment at strategic locations = **(20 Nos)**.
- (d) Core Test Core cutting and compression test for RCC structure in accordance with IS:516 on RCC members. 70 mm core cutting in reinforcement concrete, core filling by specialized epoxy material/ micro concrete with bond coat at strategic locations = **(06 Nos)**.
- (e) Reinforcement Mapping. Reinforcement mapping test on RCC members to assess covers, spacing of bars including approximate diameter at strategic locations. = **(06 Nos)**.
- (f) Chemical Test. Chemical Test for RCC structure in accordance with IS : 456 : 2000 using ready made kits and reagents. Sample collected will be from half cell/carbonation powder = **(15 Nos)**.
 - (i) Determination of PH Value.
 - (ii) Determination of Water soluble sulphates.
 - (iii) Determination of Water soluble chlorides contents at strategic locations.
- (g) Half Cell Potential Test . Half Cell Potential Test for RCC structure in accordance with IS : 516 Part-5 : 2018 SECTION-2 half cell potential to assess the probability of corrosion of reinforcement at strategic locations = **(15 Nos)**.
- (h) Carbonation Test. Carbonation Test for RCC structure in accordance with IS : 516 Part-5 : 2018 SECTION-3 carbonation test to measure extent of carbonation from the concrete surface at strategic locations = **(15 Nos)**.
- (j) To check & confirm present status of structure on basis on NDT results & visual inspection. = **(01 No)**.

(k) To provide recommendation for structure repairs and technical specification. Preparing bill of quantities for the repair etc. All as specified and directed. = **(01 No)**.

(l) Vetting of report from IIT/NIT = **(01 No)**.

Notes :-

(i) The quoted rates are including of all arrangements during carrying out of structural Audit for the subject bldgs.

(ii) Submit the report in triplicate with spiral binding along with recommendation/ suggestion for enhancing building life of the above said bldgs. (Suggestions demolition if required).

16. Buyer Added Bid Specific ATC

Buyer Added text based ATC clauses

Note :- Bidders are requested to see NIT/ATC documents uploaded in pdf form.

(i) **Period of Completion** :- Job work should be completed within 45 days from the date of receipt of Job order or as per GeM Contract.

(ii) **Completion Certificate** :- The job shall be deemed completed only after AGE B/R (Navy) Jamnagar/ Engr-in-Charge verifies the various aspects of the job and then finally approved by Garrison Engineer. Completion certificate of job order shall be issued by Garrison Engineer to the Bidders/Contractor accordingly.

(iii) The department reserves the right to call the firm any time during the execution of the work for any clarification arising on the Structural Audit reports.

(iv) AGE B/R (Navy) Jamnagar will be the Nodal Officer for the interacting with this Structural Audit of the bid job on behalf of the GE (I) Navy Jamnagar. The firm will explain all work/report of Structural Audit report/details to Nodal Officer.

(v) If the report is not submitted in time frame, Job order may be subject to be cancelled or penal action.

(vi) Compensation for delay @1% of quoted amount per week shall be levied after the date stipulated upto a max of 10% of quoted amount.

(vii) The Job shall be deemed completed only after the Nodal Officers verifies the various aspects of Structural Audit of all test report and finally approved by the Garrison Engineer (I) Navy Jamnagar of this office.

(viii) Rates quoted by bidders are including of all arrangements during carrying out of structural test.

(ix) All the structural audit report to be submitted in triplicate with proper spiral binding alongwith recommendation of accepting office.

(x) Govt Security provision shall apply.

(xi). Pre-bid meeting for the subject job will be carried out for visual inspection at work site.

SPECIAL CONDITION AND STANDARD SPECIFICATION OF STRUCTURAL AUDIT OF WORK

1. Structural audit shall be carried out as a qualitative assessment in accordance with latest guidelines. Visual health inspection of buildings covering internal, external and common areas using light tapping hammer, marking in floor plans all the visible defects, deterioration and qualification.

2. To provide consultancy services for assessment of structural health and suggest remedial rehabilitation measures for mentioned in the scope of work buildings/structures.

3. Certain particulars of the buildings/structures where structural soundness/ NDT/Core tests are to be carried out as per given in scope of job work.

4. Location of the buildings/Structures. The buildings/Structures are located at INS Valsura Jamnagar.

5. The work shall be executed in the following in THREE stages:

Stage I: A structural audit of bldg typically involves a comprehensive evaluation of its structure integrity, identifying potential defect, damages or Vulnerabilities. The following clauses may be included in a structural audit report.

- (i) Visual inspection & conducting various Non-Destructive Testing (NDT) & Destructive Testing on RCC/ Steel/Masonry structures as per Indian Standard Codes and analysis of tests data by an expert structural Engineer having 20 years of experience.
- (ii) Scope of work . Defines the area to be audited, such as foundation, wall, roofs, floors & other structural elements.
- (iii) Audit Methodology. Outline the technique & tools used like visual inspection, non destructive testing (NDT) & materials sampling.
- (iv) Defect & Damages. Identifies cracks corrosion, settlement issues, waters damage or defect.
- (v) Load Bearing Capacity. Asses weather the structure can safety support intended load.
- (vi) Seismic Evaluation. Evaluates the buildings ability to withstand earth quakes.
- (vii) Preparation of detail inspection report and drawings, with distressed members duly marked.

Stage II:

- (i) To propose a rehabilitation scheme and retrofit requirement if the present structural/sub-soil condition of the building/structure are not complying with provisions of Indian Standard codes including preparation of draft costed schedule for tender action, Preparation of BoQ for repair/retrofitting, Analysis on estimated cost of retrofitting vs enhanced life of building/structure after retrofitting vs cost of new construction.
- (ii) Vetting of rehabilitation/ retrofit scheme by IIT/NIT with recommendation.

Stage III :

Repeating of 10% Tests (Rebound Hammer Test and Ultra-sonic pulse velocity Test) or as approved by GE and submission of vetted reports within 60 day after completion of structural work/repair work by another agency and submission of Structural stability certificate duly vetted by IIT/NIT and clearly indicating the safe life of the structure.

Submit the report in triplicate with spiral binding along with recommendation/ suggestion for enhancing building life of the above said bldgs. (Suggestions demolition if required).

6. REQUIREMENT OF STRUCTURAL ENGINEER'S AND T&P, MACHINERY & TRANSPORT

The bidders/contractor will be required to strictly ensure engagement of engineers and deployment of 'T&P Machinery & Transport' as stipulated in the contracts or as specified in General Conditions of Contract IA FW 2249. Inadequate engagement of engineers / deployment 'T&P', Machinery & Transport' as per contract conditions

shall be considered as serious lapse attracting ban / removal / downgrading/ debarment of the Firm / Company.

TEST TO BE UNDERTAKEN :-

7. Rebound Hammer Test (I.S.516 (Part 5)-2018 Section-4): Rebound Hammer Test should be carried out in accordance with IS:516 Part-5:2018 SECTION-4 by portable rebound hammer equipment at strategic locations.

7.1 For testing, smooth, clean and dry surface is selected. if loosely adhering scale is present this should be rubbed off with a grinding wheel or stone. Rough surface resulting from incomplete compaction, loss of grout, spalled or tooled surface do not give reliable results and should be avoided.

7.2 For taking a measurement, the rebound hammer is held at right angle to surface of the concrete member. The test can thus be conducted horizontally on vertical surfaces or vertically on horizontal surfaces. If the situation demands, the rebound hammer can be held at intermediate angles also, but in each case, the rebound number will be different for the same concrete.

8. Ultrasonic Pulse Velocity Test (IS 516: Part 5, Section 1: 2018): Ultrasonic Pulse Velocity test for RCC Structure should be carried out in accordance with IS:516 Part-5: 2018 SECTION 1 by portable ultrasonic non destructive digital test equipment including chipping out plaster at strategic locations.

8.1 In this method, the ultrasonic pulse is produced by the transducer which is held in contact with one surface of the concrete member under test. After traversing a known path length (L) in the concrete. The pulse of vibrations is converted into an electrical signal by the second transducer held in contact with the other surface of the concrete member and an electronic timing circuit enables the transit time (T) is the pulse

e to be measured.

The pulse velocity (V) is given by: $V = L/T$

8.2 To ensure that the ultrasonic pulses generated at the transmitting transducer pass into the concrete and are detected by receiving transducer, it is essential that there be adequate acoustical coupling between the concrete and the face of each transducer. Typical couplants are petroleum jelly, grease, liquid soap and kaolin glycerol past. If there is very rough concrete surface, it is required to smoothen and level an area of the surface where the transducer concrete surfaces formed by other means, for pulse velocity over a longer path length than would normally be used. A minimum path length of 150mm is recommended for the direct transmission method involving one un moulded surface and a minimum of 400mm for the surface probing method along an un moulded surface.

8.3 Once the ultrasonic pulse impinges on the surface of the material, the maximum energy is propagated at right angles to the face of the transmitting transducer and best results are, therefore obtained when the receiving transducer is placed on the opposite face of the concrete member (direct transmission or cross probing). However in many situations two opposite faces of structural member may not be accessible for measurements. In such cases, the receiving transducer is also placed on the same face of the concrete member (surface probing). Surface probing is not so efficient as cross probing because the signal produced at the receiving transducer has an amplitude of only 2 to 3 percent of that produced by cross probing and test results are greatly influenced by the surface layers of concrete which may have different properties from that of concrete inside the structural member. The indirect velocity is invariably lower than the direct velocity on the same concrete element. The difference may vary from 5 to 20 percent depending largely on the quality of the concrete under test. For good quality concrete, a difference of the concrete under test. For good quality concrete, a difference of about 0.5km/sec may generally be encountered.

8.4 Surface probing in general gives lower pulse velocity than in case of cross probing and depending on number of parameters; difference could be of the order of about 1km/sec.

9. Half Cell Potential Test. Half Cell Potential Test for RCC structure should be carried out in accordance with IS:516 Part-5 : 2018 SECTION-2 half cell potential to assess the probability of corrosion of reinforcement at strategic locations.

9.1 A direct electrical connection is made to the reinforcing steel with a compression clamp or by brazing or welding a protruding rod. To get a low electrical resistance connection, the rod should be scraped or brushed before connecting it to the reinforcing bar. If necessary drilling of concrete is done to expose a reinforcing bar. The bar is connected to the positive terminal of the voltmeter. One end of the lead wire is connected to the half -cell and the other end to the negative terminal of the voltmeter. Under some circumstances the concrete surface has to be pre-wetted with a wetting agent. This is necessary if the half -cell reading fluctuates with time when it is placed in contact with the concrete. If fluctuation occurs either the whole concrete surface is made wet with the wetting agent or only the spots where the half- cell is to be placed. The electrical half-cell potentials °C.

10. Carbonation Test. Carbonation Test for RCC structure should be carried out in accordance with IS : 516 Part-5 : 2018 SECTION-3 carbonation test to measure extent of carbonation from the concrete surface at strategic locations.

10.1 The method of testing consists of determining the depth of the carbonated layer on the surface of hardened concrete by means of an indicator. Carbonation of concrete occurs when the carbon dioxide in the atmosphere in the presence of moisture, reacts with hydrated cement minerals to produce carbonates. e.g calcium carbonate. The carbonation process is also called depassivation. Carbonation penetrates below the exposed surface of concrete extremely slowly. The significance of carbonation is that the usual protection of the reinforcing steel generally present in the concrete due to the alkaline conditions caused by the hydrated cement past is neutralised by carbonation. Thus, if the entire concrete covering the reinforcing steel is carbonated, corrosion of the steel would occur if moisture and oxygen could reach the steel. The time required for carbonation can be estimated knowing the concrete grade and using the equation.

11. Core Test. Core cutting and compression test for RCC structure in accordance with IS:516 on RCC members. 70mm core cutting in reinforcement concrete, core filling by specialized epoxy material/ micro concrete with bond coat at strategic locations.

11.1 In most structural investigation, diagnosis extraction of core samples is unavoidable and often essential. Cores are usually extracted by drilling using a diamond tipped core cutter cooled with water. Broken samples, for example, due to popping, spalling and delamination, are also commonly retrieved for further analysis as these samples may provide additional evidence as to the cause of distress. The selection of the I

ocations for extraction of core samples is made after non-destructive testing which can give guidance on t he most suitable sampling areas.

11.2 For instance, a cover meter can be used to ensure there are no reinforcing bars where the core is t o be taken, or the ultrasonic pulse velocity test can be used to establish the areas of maximum and minim um pulse velocity that could indicate the highest and lowest compressive strength areas in the structure.

11.3 Moreover, using non-destructive test, the number of cores that need to be taken can be reduced o r minimized. This is often an advantage since coring is frequently viewed as being destructive. Also, the co st extracting core is quite high and the damage to the concrete is severe.

11.4 The extracted cores can be subjected to a series of tests and serve multiple functions such as :-

- (a) Confirming the findings of the non-destructive test.
- (b) Identifying the presence of deleterious matter in the concrete.
- (c) Ascertaining the strength of the concrete predicting the potential durability of the concrete.
- (d) Confirming the mix composition of the concrete for dispute resolution.
- (e) Determining specific properties of the concrete not attainable by non-destructive methods such as in trinsic permeability.

11.5 This test is used to determine the compressive strength of a concrete core, which has usually been extracted from an existing structure. The value of compressive strength can then be used in conjunction w ith other measured properties to assess the condition of the concrete.

11.6 Using a masonry saw, the core is first trimmed to the correct test length, which varies upon the sta ndard being adopted. Following trimming, the core will have its ends either ground perfectly flat or be capp ed in a material to produce a smooth bearing surface. After the prescribed curing has taken place, the spe cimen in then crushed to failure noting the maximum load achieved. From the values of load and dimensio ns, the compressive strength of the core cab be calculated.

12. Reinforcement Mapping. Reinforcement mapping test on RCC members to assess covers spacing of bars including approximate diameter at strategic locations.

13. Chemical Test. Chemical Test for RCC structure in accordance with IS : 456 : 2000 using ready made kits and reagents. Sample collected will be from half cell/ carbonation powder.

13.1 Determination of PH Value.

13.2 Determination of Water soluble sulphates.

13.3 Determination of Water soluble chlorides contents at strategic locations.

14. Visual Inspection and Photography performing a visual survey of the building and recording/ mappin g on drawing to assess extent of spelled concrete, cracked concrete, honey combing, reinforcement corros ion, delaminated concrete etc, taking photographs and videos to collect evidence of damage to Structure.

RECOVERY OF OUTSTANDING DUES :-

The department reserves the right to recover any outstanding dues from the firm from the sum available w ith it or another depart, or firm and acceptance to understanding to the aforesaid recovery.

PAYMENT INSTRUCTIONS :-

(a) 90% payment will be released after physical completion of Job work & submission of all reports speci fied in scope of work with BOQ of each buildings in hard and soft copy and 10% payment will be released a fter six month from the date of completion.

(b) Prescribed pre-stamped pre-receipted bills in triplicate will be submitted to the paying authority afte r fulfilling conditions mentioned above.

(c) Original copy /GeM Contract Sheet shall be attached alongwith the bill.

(d) Payment will be made to the bidders account by CMP Fund Transfer.

(e) Where GST is charged, the bidder will quote his GST Registration No.

(f) For Income Tax deduction, Permanent Account Number (PAN) of the firm has to be quoted by the firm.

(g) Paying Authority : Payment will be made by the GE (I) Navy Jamnagar as applicable after vetting of jo

b completion certificate/CRAC/Tax Invoice and other connected documents by respective consignee's Associated Finance i.e AO GE (I)NavyJamnagar in token of completion of service.

अस्वीकरण/Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Any ATC clause in contravention with GeM GTC Clause 4 (xiii)(h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.
16. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
17. In a category based bid, adding additional items, through buyer added additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogs or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working

Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.

For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.

The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:

- **All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- **All operative provisions of the erstwhile Labour Laws until their complete substitution.**

All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.

This Bid is governed by the [सामान्य नियम और शर्तें/General Terms and Conditions](#), conditions stipulated in Bid and [Service Level Agreement](#) specific to this Service as provided in the Marketplace. However in case if any condition specified in सामान्य नियम और शर्तें/General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement, then it will over ride the conditions in the General Terms and Conditions.

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो। बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---