

Government of India
Department of Atomic Energy
Indira Gandhi Centre for Atomic Research
CIVIL ENGINEERING GROUP

NOTICE INVITING e-TENDER

Item rate **e-tenders** in TWO parts are invited on behalf of the President of India by the Chief Engineer, CEG, Kalpakkam 603 102, Chengalpattu District, Tamilnadu from reputed and experienced Civil Design Engineering Services or Contractors or who are on the approved list of the appropriate class of Central Public Works Department, State Public Works Department, Railways, Military Engineers Services with proven Civil Design Engineering Services with technical and financial capabilities, possessing the required Civil Design Engineering Services (or) construction services (or) construction work and who have executed similar work (#) Three similar completed works each costing not less than the amount equal to 40% of the estimated cost put to tender, [or] Two similar each completed works, each costing not less than the amount equal to 60% of the estimated cost put to tender [or] One similar completed work of aggregate cost not less than the amount equal to 80% of the estimated cost during past seven years ending last day of the month previous to the one which applications are invited. The works completed upto previous day of last date of submission of tenders shall also be considered.

Note: The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum, calculated from the date of completion to last date of submission of tender.

NIT No.: CEG/IGC/1814/2022

<i>Name of work</i>	PROVIDING ENGINEERING SERVICES FOR TECHNO-ECONOMIC STUDIES RELATED TO 1) COMMON RAFT CONCEPTS AND II) SEPARATE RAFT OF SINGLE CONTAINMENT WITH AND WITHOUT LINER AND DOUBLE CONTAINMENT FOR FBR 1 & 2 AT KALPAKKAM.
<i>Estimated Cost</i>	Rs. 298.04 Lakhs
<i>Time Allowed</i>	15 [FIFTEEN] Months
<i>Earnest Money Deposit</i>	Rs.5,96,100/- In the form of FDR only drawn in favour of PAY AND ACCOUNTS OFFICER, IGCAR, Kalpakkam payable at Kalpakkam. [OR] Alternatively, an amount of Rs. 2,98,050/- shall be in the form of FDR drawn in favour of PAY AND ACCOUNTS OFFICER, IGCAR, Kalpakkam payable at Kalpakkam and balance amount of Rs. 2,98,050/- shall be in the form of Bank guarantee issued by a scheduled bank, as per enclosed prescribed format. Cash & Cheque for Earnest Money deposit will not be accepted.
<i>Security Deposit</i>	2.5% of tendered value
<i>Performance Guarantee</i>	3% of tendered value
<i>Cost of Tender Document</i>	Nil.
<i>Tender processing fee</i>	Rs.5900/-by e-payment through electronic mode only accepted. Further details please see www.tenderwizard.com/DAE .
<i>Dates of availability of Tender Documents for view and download</i>	From 17-06-2022 (10:00 Hours) to 28-06-2022 (15:00 Hours) on website www.tenderwizard.com/DAE .

<p><i>Please note that the tender will be available for download between the dates as prescribed above. Agencies interested in participating must register in the webportal and pay the prescribed registration charges as per requirements, should pay tender processing fee online, all within the dates prescribed above. <u>Only agencies who have registered in the above mentioned webportal can participate in e-tender.</u> Detailed NIT is also available on website www.igcar.gov.in for view only.</i></p>	
Free viewing of Tender Documents in PDF format.	Click " TENDERS OF DAE " on Home page of Website www.tenderwizard.com/DAE . If interested in participating in the tender, download Technical & Financial Bids in Excel Format as under.
Purchase of tender Documents in Excel Format for participation in tendering.	Login in the Home page of the website www.tenderwizard.com/DAE with your User ID / Password & Class III Digital Signature Certificate. Click on " UNAPPLIED " button; then Click on " REQUEST " icon (blue colour); Pay TENDERPROCESSING FEE online. Click on " SUBMIT " button. Now click on " INPROGRESS " button. In status column you will find the tender is RECEIVED . You will be able to download required Tender Documents by clicking " EDIT ATTACHMENT " icon for any number of times till last date of submission. Please refer Help Manual for submission of Tender / contact Help Desk at daehelpdesk@gmail.com for any queries.
Pre-bid meeting	Contractors are requested to send their pre-bid queries by e-mail (jevaraman@igcar.gov.in (or) chk@igcar.gov.in) not later than 01-07-2022 . Pre bid meeting will be held on 05-07-2022. Pre-bid clarification will be sent to all contractors by e-mail and uploaded in website on 07-07-2022.
Last date and time of closing of online submission of tenders:	12-07-2022 (14:30 Hours)
Last date for submission of Original DD/BC/PO etc. towards EMD.	On or before 12-07-2022 (15:00 Hours) either at Liaison office (TCPAS) at Shastri Bhavan, Chennai whose address is Head, TCPAS, TC & QCD, IGCAR, Department of Atomic Energy, 6th Floor, Shastri Bhavan, No:26, Haddows road, Nungambakkam, Chennai – 600 006. (OR) at Office of Chief Engineer, Civil Engineering Group, IGCAR, Kalpakkam – 603102. [Contact Phone No: 044 – 27480500 Extn. No. 22353 / 22341]. The tenderer shall be required to submit the Earnest Money in a sealed envelope marked ' Earnest Money. ' <i>If the tenderers fail to submit original DD/BC/PO etc, within the prescribed period as mentioned above those tenders will be summarily rejected.</i>
Date and time of online opening of Technical Bid	12-07-2022 (15:00 Hours) at Office of Chief Engineer, CEG, IGCAR, Kalpakkam.
Verification of Authenticity Credentials.	13-07-2022 to 19-07-2022 (Except 16.07.2022, 17.07.2022). <i>Note: Original documents substantiating the eligibility criteria all mentioned should be produced for verification during evaluation process. If the tenderers fail to submit original credential for verification, within the prescribed period as mentioned above those tenders will be summarily rejected.</i>

Evaluation of Part-I (Technical bid)	Part-I evaluation for qualifying the bidders will be done for opening Part-II (Financial bid).based on credentials submitted.
Date of opening of Financial Bids of qualified bidders	Date Will be notified later.

The security deposit at 5% of the gross amount of the bill shall be deducted from each running bill of the contractor till the sum amount to security deposit of 2.5% of the tendered value of the work. In addition, the contractor shall be required to deposit of 3% of the tendered value of the contract as Performance Security in the prescribed form (as specified in the Annexure) within a period of fifteen days of issue of letter of intent.

TENDERS NOT ACCOMPANYING THE FOLLOWING ARE LIABLE TO BE SUMMARILY REJECTED

1. Design Engineering Service Contractors who fulfill the following requirements shall be eligible to apply. Joint ventures are not accepted.
2. Proof of registration with Government / Semi Government organizations like CPWD, MES, BSNL, Railways, State PWDs etc. in appropriate class OR having experience in execution of similar nature of works. Scanned copy shall be uploaded.
3. Experiences of having successfully completed works during the last seven years ending last day of the month previous to the one in which applications are invited as follows: Three each similar completed works costing not less than the amount equal to 40% of the estimated cost put to tender, **[or]** Two each similar completed works, costing not less than the amount equal to 60% of the estimated cost put to tender **[or]** One similar completed work of aggregate cost not less than the amount equal to 80% of the estimated cost.

Similar work for the purpose of this contract is

“Experience in Engineering Services of civil engineering analysis and design (static & seismic) of Nuclear Power Plant/ Nuclear Safety Related Facility”

OR

“Experience in Engineering Services of civil engineering analysis and design (static & seismic) of Thermal Power Plant/Chemical/Petrochemical Plant Buildings (irregular planned).”

OR

“Experience in engineering services of civil engineering analysis and design (static & seismic) with multi floor (minimum 3 storied) Irregular Planned industrial Building.”

OR

“Experience in Design Engineering Services for construction for Main Plant Buildings of Nuclear Power Plant/ Nuclear Safety Related Facility”

Note:

1. The Bidder shall have experience of project management in construction of any type of structures mentioned above.
2. Eligible similar nature of works should have been executed by in India Only.
3. Works got executed on back to back basis through another contractor will not be treated as eligible works.
4. In case of the work done under private sector, the completion certificate shall be supported with the copies of TDS certificate & 26AS forms..
5. The value of executed works shall be brought to current costing level by enhancing the actual value of work **at simple rate of 7% per annum**, calculated from the date of completion to last date of submission of tenders.
- 6.

or qualifying technical evaluation, bidder should score more than or equal to 85% marks in the technical evaluation (Annexure- II). Offer out of the responsive offers is selected on price criteria alone quoted vide Financial bid (Part II) tender without giving any additional weightage to marks/ranking of technical proposal. List of Documents mentioned in the Technical Evaluation (annexure-II) -shall be uploaded. Incomplete bids or bids not meeting the minimum technical qualification criteria shall be summarily rejected.

- A. Should have an average annual financial turnover on Engineering Services of atleast 100% of estimated cost during the immediate last 3 consecutive financial year ending **31.03.2021**. **Scanned copy of certificate from Chartered Accountant to be uploaded.** Should not have incurred any loss for more than two years during the last five years ending previous financial year (**2021**). Details shall be furnished duly supported by figures in balance sheet/profit & loss account for the last 5 years duly certified by Chartered Accountant as uploaded by the applicant to Income tax department as per proforma as specified in Form – A.

The bidding capacity of the contractor should be equal to or more than the estimated cost of the work put to tender. The bidding capacity shall be worked out by the following formula:

$$\text{Bidding Capacity} = [A \times N \times 2] - B$$

Where,

A = Maximum turnover in Engineering Services executed in any one year during the last five years taking into account the completed as well as works in progress. The value of completed works shall be brought to current costing level by enhancing at a simple rate of 7% per annum.

N = Number of years prescribed for completion of work for which bids has been invited.

B = Value of existing commitments and ongoing works to be completed during the period of completion of work for which bids have been invited.

- B. Should have a solvency of 40% of estimated cost obtained from competent authorities as per proforma specified in Form – B shall be uploaded. The solvency certificate should be valid on the day of tender opening.
- C. Applicant should upload the details of all works of similar class completed in the proforma as specified in Form – C.
- D. List of projects under execution or awarded shall be uploaded as per proforma specified in Form – D.
- E. Performance report of works referred to in Forms 'C' & 'D' shall be uploaded as per proforma specified in Form – E.

- F. Details regarding structure and organisation of the firm shall be uploaded as per proforma specified in Form – F.
- G. Details regarding manpower possessed shall be furnished as per proforma Form – G shall be uploaded. The details of trained and certified workmen proposed to be employed for this project should also be furnished.
- H. Details of Engineering Service Facilities like staffs with qualifications and , experience in relevant field, Latest version Computer Hardware and Software facilities, communication facilities, transport arrangement, office infrastructure facilities etc., are likely to be used / possessed for carrying out the Engineering Service shall be furnished as per proforma specified in Form – H.
- I. PAN Certificate in the latest approved form - Details of sales tax registration including details of commercial tax office with which they are remitting this tax.
- J. The contractor should be registered under Goods & Service Tax (GST) and GST as applicable as per the extant order on the subject on the above work shall be paid by the Contractor to concerned Department and which shall be reimbursed on production of documentary evidence. Hence the quoted rate shall not be inclusive of Goods & Service Tax (GST).
- K. Certificates (Scanned copy of original certificates to be uploaded)
- i) Performance Certificates
 - ii) TIN Registration
 - iii) Goods & Service Tax (GST) registration certificate
 - iv) PAN (Permanent Account Number) Registration
 - v) Registration certificate in CPWD / State PWD / MES
 - vi) Form A to Form H
 - vii) Registration with EPFO and ESIC
- L. UNDERTAKING as under for e-tendering mode:-
I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in DAE in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Performance Guarantee. (Scanned copy to be uploaded at the time of submission of bid).
- M. The bidder should be registered with Employees Provident Fund Organization and Employees State Insurance Corporation and furnish the certificate of Registration with EPFO and ESIC or Acknowledgement of having applied for registration with EPFO and ESIC establishing bidder's eligibility and qualification.
- N. Bidder's profile shall invariably contain (i) EPF registration number and ESI registration number or (ii) Particulars of Acknowledgement of having applied for registration with EPFO and ESIC establishing bidder's eligibility and qualification.
4. Information and Instructions for tenderers posted on website shall form of tender document for e-tendering mode.
5. The tender document consisting of plans, specifications, the schedule of quantities of various types of items to be executed and the set of terms and conditions of the contract to be complied with and other necessary documents can be seen

and downloaded from website www.tenderwizard.com/DAE free of cost for e-tendering mode.

6. The bid can only be submitted after uploading the mandatory scanned documents such as Demand Draft or Pay order or Banker`s Cheque or Deposit at call Receipt or Fixed Deposit Receipts and Bank Guarantee of any Scheduled Bank towards EMD in favour of "PAY AND ACCOUNTS OFFICER, IGCAR, Kalpakkam" and Processing Fee by e-payment as mentioned in www.tenderwizard.com/DAE.
7. **Those contractors not registered on the website www.tenderwizard.com/DAE, are required to get registered for e-tendering mode. Registered contractors only can download & submit / upload tenders.**
8. The intending bidder must have valid class-III digital signature to submit the bid for e-tendering mode.
9. On opening date, the contractor can login and see the bid opening process for e-tendering mode.
10. For e-tendering mode, contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in YELLOW colour and the moment rate is entered, it turns SKY BLUE. **If any cell is left blank the same shall be treated as "0"**. Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO).
11. The Department reserves the right to accept / reject any prospective application without assigning any reason thereof.
12. IF ANY INFORMATION FURNISHED by the applicant is found to be incorrect at a later stage, they shall be liable to be debarred from tendering / taking up works in IGCAR.
13. In case of successful tenderer, the tenderer is required to deposit an amount equal to **3%** of the tendered value of the contract as irrevocable performance guarantee in the form of bank guarantee from any of the scheduled bank or by demand draft from State bank of India or Canara Bank drawn in favour of **Pay & Accounts Officer, IGCAR, Kalpakkam** payable at Kalpakkam within a period of 15 days of issue of letter of intent. The letter of award of work will be issued only after the above said performance guarantee in any one of the prescribed forms is received and accepted failing which the Government shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the earnest money absolutely .

In addition to the above, the successful tenderer is required to remit security deposit amounting to 2.5% of the tendered value which shall be deducted at 5% of the gross amount of the bill from each running bill, till total security deposit is recovered.
14. Tenderer to note that tenders with any condition including that of conditional rebate shall be rejected forthwith. (Applicable for single part tenders only)
15. Bidders shall not be under a declaration of ineligibility for tender quoting and fraudulent practice.
16. Documentary evidence of adequate financial standing.
17. Information regarding projects in hand, current litigation, orders regarding exclusion, expulsion or block entry if any to be furnished.

18. The capacity of the contractor to take up a new project under consideration in addition to his present commitments must be clearly brought out. He should also furnish the details referring as to have both physically and financially capable of executing this contract in the stipulated time as per milestones projected in addition to executing the other commitments.
19. Copies of original documents detailing the constitution or legal status, place of regulation and principle place of business, written power of attorney of the regulatory of the bond to commit the bidders.
20. Qualification and experience of key site management and technical personnel proposed for the contract.
21. Evidence of adequacy of working capital for this contract. Access to lines of credit and availability of other financial resources.
22. Information regarding any litigation, current or during the last five years, in which the bidder is involved, the parties concerned and disbursed amount.
23. Proposals for sub-contracting components of the works including the qualification and experience of the identified sub-contractor in the relevant field.
24. The proposed methodology and program of executing engineering services, backed with resources planning and deployment duly supported with broad calculation and Program evaluation and review technique procedures proposed to be adopted, justifying their capability of execution and completion of the services as per technical specifications within the stipulated period of completion as per milestones.
25. The bidder shall bear all costs associated with the preparation and submission of his bid and the department will in no case be responsible and liable for these costs.
26. Each bidder shall submit only one bid. A bidder who submits or participates in more than one bid will cause the bidder's participation to be disqualified for all the proposals.
27. Provide documentary evidence from the Client, i.e., copy of Work Order, Completion Certificate etc for each of above mentioned Work. The requirement of experience shall not be considered for evaluation if such requisite support documents are not provided with the proposal. The jobs executed in all the areas mentioned in Annexure II are to be indicated. The breakup of the value of Work for analysis & design, time taken, resources engaged, etc., need to be elaborated with supporting documents. For works carried out for private parties, TDS certificates are to be invariably enclosed along with the credentials.
28. Contractor should have valid ESI & EPF registration. The employer's contribution as per extant government orders and the quoted rate shall be inclusive of ESI & EPF employers contribution.

BID VALIDITY

The bids submitted shall remain valid for acceptance for a period of 180 days from the date of opening of the bid. The bidder shall not be entitled during the period of validity, to revoke or cancel his bid or vary / modify the bid given or any item thereof.

In exceptional circumstances, prior to expiry of the original bid validity period, IGCAR may request the bidders to extend the period of validity for a specified additional period. The request and the responses thereto shall be made in writing. A bidder may refuse the request without forfeiting its bid security but his bid will not be considered. A bidder agreeing to the request will not be required or permitted to modify its bid, but will be required to

extend the validity of its bid security for the period of the extension.

1. Submission of Bids:

- a. The date and time of on-line bid submission shall remain unaltered even if the specified date for the submission of the bid is declared as holiday for the office inviting tender.
- b. The department may extend the deadline for submission of bids by issuing an amendment, in which case, all rights and obligations of the department and the bidders previously subject to the original deadline will then be subject to the new deadline.
- c. Any bid received by the department after the deadline prescribed above will be rejected.
- d. The bidders shall note the following before submission of bid.
- e. If the digital signature certificate (DSC) holder is sole proprietor of the firm, power of attorney need not be submitted.

2. Bid opening: Tender opening shall be done on-line only. If the date of opening is declared as holiday then bid will be opened on next working day. In exceptional cases opening of tenders can be done on any day or time after scheduled date and time of opening. Corrigendum issued for opening of tender shall be uploaded on website.

- a. The bids without mandatory documents as per NIT shall be summarily rejected.
- b. In two part tenders financial bid of only qualified bidder shall be opened.

3. Clarification of bids: To assist in the examination and comparison of bids, the department may, at its discretion, ask any bidder for clarification of his bid, including breakdown of unit rates. The request for clarification and the response shall be in writing or by email / fax, but no change in the price or substance of the bid shall be sought, offered, or permitted. If the bidder does not respond within the stipulated time, then the bid of the bidder will be evaluated on its own merit.

- a. Bidder shall not contact the department on any matter relating to his bid from the time of the bid opening to the time the contract is awarded.
- b. Any effort by the bidder to influence the department's bid evaluation, bid comparison or contract award decisions, may result in the rejection of his bid.

4. Examination of bids and determination of responsiveness: Prior to detailed evaluation of bids, the department will determine whether each bid(s) meets (a) the minimum requirements as per pre-qualification criteria (b) is accompanied by the required bid security declaration (c) is responsive to the requirements of the bidding documents (d) has been properly signed by authorized signatory.

- a. A responsive bid is one which conforms to all the terms, conditions and specification of the bidding documents, without material deviation or reservation. A material deviation or reservation is one (a) which affects in any substantial change in scope, quality or performance of the works; (b) which limits in any substantial way, the department's rights or the bidder's obligations under the contract; or (c) whose rectification would affect unfairly the competitive position of other bidders presenting responsive bids.

5. Evaluation and comparison of bids: The department reserves the right to accept or reject any offer. Department also reserves the right to award only part of the work.

If the bid of the successful bidder is seriously unbalanced in relation to the engineer-in-charge or his representative's estimate of the cost of work to be executed under the contract, the department may require the bidder to produce detailed rate analyses for any or all items of the bill of quantities, to demonstrate the internal consistency of those rates with the implementation methods and schedule proposed. The unbalanced bids are liable to be rejected.

6. Award criteria: The technical proposals are opened first and evaluated. Only Prequalified bids will be considered for detailed evaluation and bids which are not

pre-qualified will be rejected and shall not be evaluated. The bids are evaluated as per the tender requirements and technical scores are awarded as per the criteria given in Annexure of NIT. Evaluation break-up of the points shall not be disclosed to the Bidders. This is only for the internal process for IGCAR for evaluation and approval. Technical evaluation shall be carried out based on the evaluation of Part-1 bid as per the bid evaluation criteria given in the Annexure of the NIT. The proposal scoring less than 85% on technical evaluation shall be rejected. The department shall award the contract to the bidder whose evaluated offer / bid has been determined to be the technically suitable and having more than or equal to 85% in technical evaluation and financially lowest (L1) and is substantially responsive to the bidding document, provided further that the bidder is determined to be qualified to execute the contract satisfactorily. In case of tie between two financially lowest bidders, both the bidders shall be given a chance to offer revised bid to decide the lowest bid. If the situation still remains same draw of lots shall be adopted to decide the award.

- a. Submission of bid will be recognized and accepted as a certificate regarding authentication of all information provided in the bid and acceptance of all terms & conditions, general condition of contract, notice inviting tender etc., since such acceptance by bidder with digital signature is legally tenable.
 - b. The department reserves the right not to award the whole or part of work without assigning reason and without incurring any liability to the bidder or bidders.
7. Notification of award and signing of agreement: The bidder whose bid has been accepted will be notified of the award by the department prior to expiration of the bid validity period by issue of work order. The notification may also be made through letter of intent, wherein the work order shall follow.
- a. The work order will constitute the formation of the contract subject only to the furnishing of a performance guarantee within 15 days of issue of work order.
 - b. An agreement shall be made and signed by both the parties. The agreement will incorporate all correspondence between the department and the successful bidder, bid documents etc. The bid document as uploaded on website www.tenderwizard.com/DAE shall be forming part of agreement.
8. Corrupt or fraudulent practices: The department requires that bidders / suppliers / contractors under this contract, observe the highest standard of ethics during the procurement and execution of this contract.
- a. In pursuance of this policy, the department defines, for the purpose of these provisions, the terms set forth below as follows:
 1. "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
 2. "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the department, and includes collusive practice among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the department of the benefits of free and open competition.
 - b. Will reject a proposal for award of work if it determines that the bidder recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question.
 - c. will declare a bidder ineligible, either indefinitely or for a stated period of time, to be awarded a contract / contracts if at any time it determines that the bidder has engaged in corrupt or fraudulent practices in competing for, or in executing, the contract.

The bidder may make representation in connection with processing of tender directly and only to the Competent Authority (calling tender) as mentioned in the tender document. However, if such representation is found to be un-sustentative and/ or

frivolous and if the tender has to be closed because of the delays / disruptions caused by such representations and the job has to be re-tendered, then such bidder will not be allowed to participate in the re-invited tender.

In case, any bidder while making such representation to Competent Authority also involves other officials of department and / or solicits/ invokes external intervention other than as may be permitted under the law and if the tender has to be closed because of the delays / disruptions caused by such interventions and has to be re-tendered, then the particular bidder will not be allowed to participate in the re-invited tender.

Chief Engineer, CEG on behalf of President of India does not bind himself to accept the lowest or any other tender and reserves to himself the authority to reject any or all of the tenders or to allot parts of the works to different agencies without assigning any reasons there for. All tenders, in which any of the prescribed conditions is not fulfilled shall be summarily rejected.

Chief Engineer, CEG
Indira Gandhi Centre for Atomic Research

List of Documents to be scanned & uploaded within the period of bid submission for e-tendering mode: (Scanned copy of original certificates to be uploaded)

- 1 Financial Turn Over certified by CA
- 2 Profit & Loss statement certified by CA
- 3 Latest Bank Solvency Certificate
- 4 List of SIMILAR WORKS completed in last 7 years indicating: I) Agency for whom executed II) Value of Work, III) Stipulated and actual time of completion.
- 5 List of WORKS in Hand indicating: I) Agency II) Value of Work, III) Stipulated time of completion / present position.
- 6 List of Necessary Resources for Engineering Services.
- 7 List of Technical Staff
- 8 Certificates:
 - i) Registration certificates
 - ii) Certificates of Work Experience / Performance Certificates / Completion certificates.
 - iii) TIN Registration Certificate
 - iv) Goods & Service Tax (GST) registration certificate
 - v) PAN (Permanent Account Number) Registration
 - vi) Registration certificate with EPF Organization and ESI corporation (or) Acknowledgement of having applied for the same.
- 9 Undertaking A to D of Annexure I, Annexure II, Annexure III.
- 10 All forms of Annexure IV
- 11 e-payment through online electronic mode towards cost of Processing Fee.
- 12 Demand Draft/Pay order or Banker`s Cheque /Deposit at Call Receipt/FDR of any Scheduled Bank against EMD.
- 13 Bank Guarantee of any Scheduled Bank against EMD if applicable
- 14 Form of Tender.
- 15 Integrity pact

UNDERTAKINGS TO BE FURNISHED BY THE TENDERER

1. Undertaking – A

“I Son of
..... Residing at
.....hereby give an
undertaking that I have read and I am aware of all the clauses and sub clauses of tender
forms and I confirm that I will abide by all the terms and conditions available in this tender
document. My Income tax Permanent Account Number (PAN) is

(Seal of the Firm)

*(Dated Signature of Contractor or his
authorized Power of Attorney)*

2. Undertaking – B

“I Son of
..... Residing at
.....
..... hereby give an undertaking that I have give an undertaking that
none of my relative(s) as defined below is/are employed in DAE as per details given in
tender document. In case at any stage, it is found that the information given by me is false /
incorrect, IGCAR shall have the absolute right to take any action as deemed fit without any
prior intimation to me”

The near relatives for this purpose are defined as;

1. Members of a Hindu undivided family
2. They are husband and wife
3. The one is related to the other in the manner as father, mother, son(s) son’s wife (daughter-in-law), daughter(s) daughter’s husband (son-in-law), brother(s) and brother’s wife, sister(s) and sister’s husband (brother-in-law)

(Seal of the Firm)

*(Dated Signature of Contractor or his
authorized Power of Attorney)*

UNDERTAKING – C

I / We have read and examined the Notice Inviting Tender, General Rules & Directions, Form of Tender, Special conditions, Safety code for works contract, General condition of Contract, Schedule F, Specifications, Schedule of Construction, drawings & all other contents in the tender documents for the work AND ACCORDINGLY I / We, hereby tender for execution of the work specified for the President of India within the time specified in Schedule "F", viz., Schedule of Quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule 1 of General Rules & Directions and in Clause - 11 of the General Clauses of Contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

(Seal of the Firm)

*(Dated Signature of Contractor or his
authorized Power of Attorney)*

UNDERTAKING – D

I/We undertake and confirm that eligible similar works(s) has/have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for bidding in DAE in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Performance Guarantee.

(Seal of the Firm)

*(Dated Signature of Contractor or his
authorized Power of Attorney)*

Declaration by Contractor

This is to certify that;

- 1) I / We have submitted the tenders in the proforma as downloaded directly from the websites which are same as available in the website and there is no change in the format, number of pages, etc.
- 2) I / We have not made any modifications / corrections / additions etc., in the tender documents downloaded from web by me / us.
- 3) I / We have checked that no page is missing and all pages as per the index are available and that all pages of tender document submitted by us are clear and legible.
- 4) I / We have submitted the cost Tender processing fee.
- 5) I / We have submitted requisite EMD in the prescribed form.
- 6) In case at later stage, it is noticed that there is any difference in my / our tender documents with the original documents, IGCAR shall have the right to cancel the tender / work, forfeit the Performance Guarantee & Security Deposit, take appropriate action as per the prevailing rules in force and IGCAR shall not be bound to pay any damages to me / us on this account.

Dated
(Contractor)

(Signature with seal)

Declaration

I (Name of the contractor/ agency) hereby declare compliance towards all the labour codes, legislations and statutory conditions or any other acts dealing with minimum wages, bonus, industrial relations, and social security and authorise Indira Gandhi Centre for Atomic Research to recover any payment that arises due to failure to comply with any of the Labour Codes, legislations and statutory conditions or any other acts dealing with minimum wages, bonus, industrial relations and social security etc. and all other acts mentioned in the tender document.

Place;

Date:

Signature of tenderer/ Authorised signatory

Name of the Tenderer

Seal of the Tenderer

FORM 'A' : FINANCIAL INFORMATION

I. Financial Analysis - Details to be furnished duly supported by figures in balance sheet/ profit and loss account for the last five years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (copies to be attached).

Particulars	Financial Year				
	2016-17	2017-18	2018-19	2019-20	2020-21
i) Gross Annual turnover on Engineering Services work Rupees (In Lakhs)					
ii) Profit/Loss Rupees (In Lakhs)					
iii) Certified by					

Name and address of Chartered Accountant	
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II. Financial arrangements for carrying out the proposed work.

Viz. line of credit, Working Capital, Liquid Capital, Fixed Deposits etc. - Upload scanned copy of statement

III. The scanned copies of following certificates are to be uploaded.

- (a) Profit & Loss account certified by CA & as submitted to Income Tax Department.
- (b) Solvency Certificate from banker's of applicant. Banker's certificates should be on letterhead of the Bank. In case of partnership firm, certificate should include names of all partners as recorded with the Bank as said in the Form 'B'.
- (c) Value Added Tax Registration Certificate.
- (d) Permanent Account Number (PAN).

Name of authorized signatory

Note: Further details if required may be asked from the contractor after opening of the bids. There is no need to upload the entire voluminous balance sheet.

Scanned copy on Banker's letter head to be uploaded

FORM – B :FORM OF BANKER’S CERTIFICATE FROM A SCHEDULED BANK

This is to certify that to the best of our knowledge and information that M/s./Shri _____ (with address) a customer of our bank are / is respectable and can be treated as good for any engagement upto a limit of Rs _____ (Rupees _____).

This certificate is issued without any guarantee or responsibility on the bank or any of the officers.

(Signature)

For the Bank

Note:

- (1) Bankers certificates should be on letter head of the Bank.
- (2) In case of partnership firm, certificate should include names of all partners as recorded with the Bank.

Scanned copy of certificates containing following information from the clients to be uploaded

FORM-E : PERFORMANCE REPORT OF WORKS REFERRED TO IN FORM "C"
(Separate certificate for each work/ Project)

1. Name of work/Project & Location
2. Agreement No.
3. Estimated Cost
4. Tendered Cost
5. Date of start
6. Date of completion
 - (i) Stipulated date of completion
 - (ii) Actual date of completion
 - (iii) Present position of work, if in progress.
7. Amount of compensation levied for delayed completion, if any.
8. Amount of reduced rate items, if any.
9. Performance Report.

a) Quality of work	Very Good/Good/Fair/Poor
b) Financial soundness	Very Good/Good/Fair/Poor
c) Technical Proficiency	Very Good/Good/Fair/Poor
d) Resourcefulness	Very Good/Good/Fair/Poor
e) General behaviour	Very Good/Good/Fair/Poor
f) Time Consciousness	Very Good/Good/Fair/Poor

Dated:

**Executive Engineer or equivalent
Signature with Seal**

FORM 'F' : STRUCTURE & ORGANISATION

1 Name & Postal Address of the applicant:

2 Telephone No./Telex No./Fax No.

3 Legal status of the applicant (Please tick and attach attested copies of original document defining the legal status)
(a) An individual; (b) A proprietary firm; (c) A firm in partnership
(d) A limited company or Corporation

4 Particulars of registration with various Government bodies (attach attested photocopy)

Dept./Organisation & Place of registration	Registration No.

5 Names and Titles of Director & Officers with designation proposed to be concerned with this work

6 Designation of individuals authorized to act for the organization

7 Was the applicant ever required to suspend Engineering Service contract for a period of more than six months continuously after you commenced the contract? If so, give the name of the project and reasons of suspension of work.

8 Has the applicant or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion? If so, give name of the project and reasons for abandonment.

9 Has the applicant, or any constituent partner in case of partnership firm, ever been debarred / black listed for tendering in any organization at any time? If so give details.

- 10 Has the applicant, or any constituent partner in case of partnership firm , ever been convicted by a court of law? If so, give details.

- 11 In which fields of Engineering construction services the applicant has specialization and interest?

- 12 Any other information considered necessary but not included above.

Name and address of the authorized signatory

**FORM'H' - DETAILS OF RESOURCES DEPLOYMENT AND LIKELY TO BE USED IN
CARRYING OUT THIS WORK**

Sl. No.	Name of Resources and Deployment	Nos	Model, Version, Type & make	Age	Condition	Ownership status				Details	Remarks
						Presently owned	Leased	To be purchased	Proposed to be hired		
1.	Computers										
2	Plotters										
3	Printers										
4	Scanners										
5	Xerox machine										
6	Software Package Details										
7	Anti Virus Package Details										
8	Network Facility Details										
	(a) Intranet										
	(b) Internet										
	(c) Wi-Fi										
9	Laptop										
10	External storage device										
11	Communication Arrangement										
	(a) Telephone										
	(b) Fax										
	(c) Mobile Phones										
12	Anti Virus Package Details										
13.	Video Conference Facility										
14.	Data Storage Server										
15	Data Safety, Security & Control										
16	Details of Office Facility										
	(a) Office Rooms for staffs										
	(b) Conference Rooms										
	(c) Server Room										
	(d) Alternate power supply arrangement										
	(e) Air condition Facility										
	(f) Safety and Security Arrangement										
17	Details of Transport Facility										
	(a) Four Wheeler Vehicle with AC (9 Seats)										
	(b) Four Wheeler Vehicle with AC (4 seats)										
	(c)Two Wheelers										

Name and address of authorized signatory	
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Annexure IV Technical Bid Evaluation

Points allocated to technical criteria as follows:

Table: IV. 1

Sl. No	CRITERIA	Points/Marks
IV.A	Organization setup and man power recourses	5
IV.B	Expertise of the firm related to the assignment	10
IV.C	Adequacy of the proposed methodology work plan time schedule etc	20
IV.D	Qualification and competence of the staff for the assignment	50
IV.E	Quality assurance system related to the assignment	5
IV.F	Previous experience on similar assignments	10
	Total	100.00

The technical proposals are opened first and evaluated and the offers who are qualifying as per these technical evaluation criteria will only be considered as technically responsive. For qualifying technical bid, bidder should score more than or equal to 85 % in the technical bid evaluation. Any bidder who passes these benchmarks as mentioned in Part 1 technical bid qualification criteria is declared as technically qualified for opening of their financial bids. Financial proposals are then opened for only eligible and responsive offers and ranked. Offer out of the responsive offers is selected on price criteria alone without giving any additional weightage to marks/ranking of technical proposal as mentioned above.

Detailed technical evaluation methodology is given in Annexure IV A to Annexure IV F. All required documents of FORMS mentioned in annexure IV related to the technical bid evaluation shall be submitted for evaluation, along with the technical bid. Typical Formats of some of the forms are included in the annexure IV. Wherever typical formats of FORMS are not given, bidder can provide in appropriate format.

ANNEXURE IV. A ORGANIZATION SETUP AND MAN POWER RESOURCES

Annexure – IV.A.1: Organizational set up

The items given in table below will be given marks as indicated. The maximum points are 2.5. The minimum is zero.

Table IV.A.1

S.No. of format below	Item	Maximum Points Allotted to each item (Refer table II.2)
i)	Number of years of experience as an Design Engineering Services	
	10 years and above	1.5
	5 years to 10 years	1
	< 5 years	0
ii)	Is the Company ISO certified?	
	Yes	1
	No	0

FORM- IV.A.1 : Details of Bidder (Detail to be filled as per prescribed format below and uploaded during bid submission as mandatory document)

- a) Name of Bidder :
- b) Address in full :
- c) Registered Office :
- d) Telephone No. :
- e) Fax No. :
- f) E-mail Address :
- g) Contact Person :
- h) Description of company (Individual/SD/ Partnership / Limited Co.) :
- i) No. of years of experience as Design engineering services :
- j) Name and address of associated companies those will be involved for completing this job. :
- k) Registration under Company Act, legal deed. :
- l) Date and Place of incorporation of firm :
- m) Is the Company ISO certified? :
- n) Confirm that bidding organization is an Indian firm :

Note:

- 1) Attach copy against requirements as evidence, wherever required.
- 2) Only executed in India are allowed to participate in the bidding process.

Annexure – IV.A.2: Man power resources (Detail to be filled as per prescribed format below and uploaded during bid submission as mandatory document)
The items given in table below will be given marks as indicated. The maximum points are 2.5. The minimum is zero.

Table IV.A.2

S No.	Description	Maximum Points allotted (Refer table IV.2)	Remarks
1	Organization chart with clear depiction of levels of personnel in the organization	1	
2	Key persons to be deployed in this Work identified in the organization chart	1	
3	Number of years in the organization of the Key persons (Project Manager -1 Person & Senior Engineer- 2 Persons) identified for this Work		
4	Employed for 5 years and above	0.5	Marks for each person per year in the Organization shall be 0.033

Organization Structure & History (Detail to be filled as prescribed below and uploaded during bid submission as mandatory document)

FORM IV. A.2: Indicate the organization chart showing the company structure including interface and responsibilities. Organization chart shall cover the complete hierarchy including top management, middle management and their positions along with disciplines wise team for technical works, IT Group, Internal Auditors/QA personnel, Finance Group, HR etc. The organization structure of the Specialists in Finite Element mathematical modeling, Civil structural design along with the names of personal and the number of Engineers at different levels shall be separately submitted. It shall be presented in such a manner that entire organization structure is understood including the interface. Company history for the last 7 years shall also be submitted.

ANNEXURE IV B. EXPERTISE OF THE FIRM RELATED TO THE ASSIGNMENT

Annexure –IV.B.1: Strength of Key personal and technical team

The items given in table below will be given marks as indicated. The maximum points are 7. The minimum is zero.

Table IV.B.1

S.No	Discipline	Maximum Points allotted (Refer table II.2)
	Project Manager (Minimum 20 years experience) and senior engineers (Minimum 15 years experience)	Mandatory, else bid will be rejected
1	Availability of Specialists (senior engineer -1 Person – FEM based Knowledge) having domain experience in ABAQUS/ ANSYS/ NISA /SAP at least 15 years @ 0.8 mark per person	0.8
2	Availability of Specialists (senior engineer-1 Person - Project Management) having domain experience in construction and project management of mega projects at least 15 years @ 0.8 mark per person	0.8
	Engineers/Specialists capable of developing software codes in different scientific software as a part of defined Work	
1	Availability of specialists having domain knowledge of at least 5 years @ 0.25 marks per person	0.5
	Availability of Specialists in 3D modeling of buildings having experience in using advanced general purpose FE software such as ABAQUS/ANSYS/SAP/NISA	
2	Availability of Specialists having domain experience in ABAQUS/ ANSYS/ NISA /SAP at least 5 years @ 0.5 marks per person.(Total 4 Persons)	2.0
3	Availability of Specialists having domain experience in construction and project management of mega projects at least 5 years @ 0.7 marks per person (Total 2 Persons)	1.4
	Number of Draftsman - Civil (who can prepare drawings in 2D & 3D software platforms)	
1	at least 5 years @ 0.25 marks per person (Total 2 Persons)	0.5
2	2 to 5 years @ 0.25 marks per person(Total 4 Persons)	1

*All types of Specialists from the mentioned main engineering disciplines should be in employment of the Design Engineering Services.

Strength of Key Personnel & Technical Team (Detail to be filled as per prescribed format below and uploaded during bid submission as mandatory document)

The Details required for the evaluation of Annexure **IV.B.1** shall be furnished in FORM **IV.B.1**

Annexure – IV.B.2 : Knowledge in international / national standards

The items given in table below for Engineers will be given marks as indicated. The maximum points are 3.

Table IV .B.2

S.No	Description	Maximum Points allotted (Refer table IV.2)
1	Knowledge of relevant international standards such as ASCE / ACI 318/349/ and Knowledge of AERB Civil engineering design standards etc	
	@ 0.5 marks per person	2
2	Knowledge of project management packages such as MS project etc.	
	@ 0.5 marks per person	1

(list of key personal and technical team at various levels shall also be furnished)

Please note that the strength of employees indicated shall not be repeated under different heads. If so, it shall be clearly brought out.

*All types of Specialists from the mentioned main engineering disciplines should be in employment of the Design Engineering Services. The Details required for the evaluation of Annexure **IV.B.2** shall be furnished in **FORM IV.B.2**

Particulars of Key Personnel & Technical Staff (Detail to be filled as per prescribed format below and uploaded during bid submission as mandatory document)

The key professional & technical staff of the Bidder should have good knowledge of relevant BIS, international standards such as ASCE 4-16, ACI, ASME, etc. Knowledge of AERB civil engineering design standards is desirable. Knowledge and experience of developing in-house software for structural design check, input files for carrying out stress analysis and post processing of results are essential. Knowledge and experience of construction and project management of mega projects and project management packages such as MS project etc. Documentary evidence for the above shall be included

Experience of the key personnel and technical staff shall be furnished along with the technical bid in the prescribed format given below. (Uploaded during bid submission as mandatory document)

FORM IV.B.1 &2

S No.	Name	Age	Qualification	Experience		Nature of works handled	Familiarity with International Standards	Projects completed	Position or task proposed to be assigned for this job
				In the present Organization	Previous				

Bidders shall fill up the requested information as mentioned below for the following attributes.

Sr. No.	Discipline	Strength (yes/no)	Remarks
1	Availability of Specialists in 3D modeling having experience in using advanced general purpose software such as ABAQUS/ ANSYS/ NISA /SAP		Mandatory, else bid will be rejected
2	Availability of Specialists having domain experience in construction and project management of mega projects		Mandatory, else bid will be rejected
3	Project Manager		Mandatory, else bid will be rejected
4	Senior Engineer having domain experience in construction and project management of mega projects		Mandatory, else bid will be rejected
5	Senior Engineer having domain experience in ABAQUS/ ANSYS/ NISA /SAP at least 15 years		Mandatory, else bid will be rejected

**ANNEXURE-IV.C ADEQUACY OF THE PROPOSED METHODOLOGY, WORK PLAN,
TIME SCHEDULE ETC.**

The items given in table below will be given marks as indicated. The maximum points are 20. Full marks will be given for complete submissions indicating all the activities, and detailing as per technical specifications. Zero points for incomplete submissions.

Annexure-IV.C.1. Technical Approach and Methodology (Maximum – 8 points)

Table IV.C.1

S.No.	Description	Maximum marks (Refer table IV.2)
1	Understanding the complete scope of work – Submission of a note along with the bid explaining and describing the scope understood from the technical specifications	6
2	Sequencing of various activities – Submission of a note along with the bid explaining with bar charts and interrelationship of different activities	2

Annexure- IV.C.2. Work Plan (Maximum – 6 points)

Table IV.C.2

S.No.	Description	Maximum marks (Refer table IV.2)
1	Proposal of all activities chalked out and duration identified for each activity. Submission of detailed level 2 bar chart indicating main activities and duration.	4
2	Proposed work plan prepared with justifications and maintaining consistency with technical approach, methodology and expected delivery dates	2

Annexure- IV.C.3. Organization & Staffing (Maximum – 6 point)

Table IV.C.3

S.No.	Description	Maximum marks (Refer table IV.2)
1	Organization chart for the tendered work listing out personnel identified at each level for complete job execution, commensurate with the data given	3
2	Month-wise proposed deployment of key personnel and technical staffing schedule commensurate with work plan	3

Description of Approach, Methodology & Work Plan (Detail to be filled as per prescribed format below and uploaded during bid submission as mandatory document)

The following chapters shall be presented under this annexure

- (a) Technical Approach & Methodology(FORM- IV.C.1)
- (b) Work Plan (FORM- IV.C.2)
- (c) Organization & Staffing (FORM- IV.C.3)

a) Technical Approach and Methodology

In **FORM IV.C.1**, the Bidder shall explain his understanding of the complete scope of work, methodology for carrying out various activities and obtaining the expected results such as intermediate or final deliverables and the degree of detail of such results. Interface activities involved between various agencies while executing the assignment shall be brought out. Sequencing of various activities shall be explained. The Bidder shall highlight the problems which could be faced in the process of execution of the assignment addressing their importance and explaining the measure proposed to be taken to address them.

b) Work Plan

The Engineering Service Provider should propose and justify the main activities of the Assignment/job, their content and duration, phasing and interrelations/interface, milestones, and delivery dates of the outputs. The proposed work plan should be consistent with the technical approach & methodology, indicating a proper understanding of the scope of the Work. A list of the final documents, including reports, drawings and tables to be delivered as final outputs should be included. The work plan should be consistent with the expected delivery dates proposed in the Tender.

Activity wise work plan for this Work /job shall be submitted by the Bidder in the form of a bar chart indicating main activities, duration etc., as per the format given below.

c) Organization & Staffing

The Engineering Service Provider should propose and justify the structure and composition of the Team and should list the Working Groups for the Assignment/job, the key person responsible and proposed technical and support staff assigned for the Work. Month wise proposed Key Personnel and technical staffing schedule for this Work for the complete contract execution period shall be submitted.

Work Plan Format

(1st, 2nd etc. are months from the start of the Work) Month-wise program for different Working Group

FORM IV.C.2

S No	Item of Work / activities	Months							
		1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	Up to 15 months
a)									
b)									

e) Staffing Schedule Format

(1st, 2nd etc. are months from the start of the Work)Month-wise Staff Strength (Technical Staff including key personnel)

FORM IV.C.3

S No		Months							
		1 st	2 nd	3 rd	4 th	5 th	6 th	7 th	Up to 15 months
a)	Project Manager								
b)	Senior Engineers								
c)	Engineers								
d)	Draftsman								

ANNEXURE – IV.D: QUALIFICATION AND COMPETENCE OF THE STAFF FOR THE ASSIGNMENT

The items given in table below will be given marks as indicated. The maximum points are 47. The minimum is zero.

Table IV.D.1

Category	Experience	Qualification (Minimum)	Responsibility
Project Manager (1)	Minimum 20 years	B.E/M.E	Planning, monitoring and controlling the project in totality. Reviewing the resources required from time to time based on the tasks to be performed by his entire team and mobilizing accordingly. Integrating the inter- disciplinary engineering activities assigned under this contract.
Senior Engineer (1)	15 years & above	M.E/ B.E	(a) Understanding the jobs/activities to be performed and deliverables required by IGCAR. (b) Planning of the scheduled / prioritized activities and monitoring and controlling same with requisite resources for delivering on schedule. (c) Giving guidance and directions on the Assignments to be performed by his team. Review/Approval of drawings, sign documents and calculations etc. (d) Expertise in FE analysis of structures, dynamic analysis, and design of buildings & structures and in the use of ABAQUS/ANSYS/SAP/NISA.
Senior Engineer(1)	15 years & above	M.E/ B.E	(a) Understanding the jobs/activities to be performed and deliverables required by IGCAR. (b) Planning of the scheduled / prioritized activities and monitoring and controlling same with requisite resources for delivering on schedule. (c) Giving guidance and directions on the Assignments to be performed by his team. Review/Approval of drawings, sign documents and calculations etc. (d) Expertise and experience in project management of mega projects
Engineers (4)	5 Years & above	B.E/ ME	(a) Experience is use of 3D FE software and software used in analysis & design especially of ABAQUS/ANSYS/SAP/NISA FE; (b) FE modelling & analysis, development of 3D mathematical model, checking structural design & detailed engineering and preparation of reports related to analysis & design, related documents / drawings etc. (c) capable of developing software codes in different scientific software as a part of defined Work

Engineers (2)	5 Years & above	B.E/ ME	a) Understanding the jobs/activities to be performed and deliverables required by IGCAR. (b) Detailed engineering and preparation of reports related to construction. (c) Expertise and experience project management of mega projects
Draftsman Civil (2)	5 Years & above	Diploma/ITI	Understanding Civil Engineering drawings, preparation & revision of AutoCAD drawings etc.
Draftsman Civil (4)	2- 5 Years	Diploma/IT I	Understanding Civil Engineering drawings, preparation & revision of AutoCAD drawings etc.

Annexure – IV.D.1 Competence of the staff for the assignment

Necessary documentary evidence (CV along with copy of supporting documents in **FORM IV.D.1**) shall be submitted by the Bidder to show that all the above criteria are met. The Details required for the evaluation of Annexure **IV.D.1** & **IV.D.2** shall be furnished.

Table IV.D.2

Sl.No	Description	Maximum marks (Refer table IV.2)	Remarks
Project Manager (1 person)	Experience in the given responsibility in at least two project full mark @ 3.5 marks per Project/Person	7	Maximum marks should not be exceeded 7
	If experience in Senior engineer grade, 1.5 mark per project Project/Person	4.5	
Senior Engineer (2 person)	Experience in the all given responsibility in at least two project full mark @ 2 marks per Project/Person	8	Maximum marks for each person should not be exceeded 4
	If experience in engineer grade, 0.5 mark per project/Person	4	
Engineers (6)	Experience in all the given responsibility in at least two project full mark @ 2 marks per person /Project	24	Maximum marks for each person should not be exceeded 4
Draftsman – Civil (2)	5 years & above full mark @ 0.5 marks per person/year experience.	5	Maximum marks for each person should not be exceeded 2.5
Draftsman – Civil (4)	2- 5 years full mark @ 0.25 marks per person /year Experience.	3	Maximum marks for each person should not be exceeded 0.75

Team Composition (Detail to be filled as per prescribed format below and uploaded during bid submission as mandatory document) Team composition (including number of technical team) for the jobs to be executed under the scope of work of this tender shall also be submitted as a part of this annexure in the form of organization chart. Indicate the name of persons who are going to play lead role.

Annexure – IV.D.2 : Qualification Of The Staff For The Assignment

The items given in table below will be given marks as indicated. The maximum points are 2.5. The minimum is zero.

Table IV.D.3

S.No.	Description	Maximum marks (Refer table IV.2)
	Education qualification of Engineers	
1	M.Tech in civil engineering @ 0.5 per person	2.5
2	B.Tech in civil engineering @ 0.3 per person	1.5

Necessary documentary evidence shall be submitted by the Bidder for the above criteria in **Form IV.D.2**

Annexure – IV.D.3 : Participation for approval by Regulatory bodies:

The items given in table below will be given marks as indicated. The maximum points are 0.5 .The minimum is zero.

Table IV.D.4

S.No.	Description	Points allotted (Refer table IV.2)
1.	Association in the approval process by AERB/ BARC regulatory bodies	0.25 per project Maximum 0.5

Detail to be filled In **Form IV.D.3** and uploaded during bid submission as mandatory document.

Documentary proof for the above qualifications shall be provided along with the bid. Documentary proof for the License for FE software shall be provided

Curriculum Vitae (CV) for Key Personnel & Technical Staff (Detail to be filled as per prescribed format below and uploaded during bid submission as mandatory document)

CV of Team Leaders, Project Management Team and Senior Engineers, Engineers and Draftsman shall be given as per the format given below. Team leaders shall be for each Working Group. All the Team Leaders, Senior Engineers, QA and management personnel shall be under permanent employment of the organization. At key roles, those who are not permanent in the organization will not be considered.

FORM IV.D.1 : Curriculum Vitae (Typical) of Key Personnel and all Technical Staff for this Contract

1. Proposed position for the assignment as per this tender:
[For each position of key professional separate form shall be prepared & submitted]
2. Name of Staff:
3. Whether permanent employee or not:
4. Date of Birth:
5. Nationality:
6. Education:
[Indicate college/university and other specialized education of staff member, giving names of institutions, degrees obtain, and dates of obtainment]:
7. Membership of Professional Associations:
8. Other Training:
9. Total Work Experience: Including that in other Countries
10. Languages:
11. Employment Record:

[Starting with present position, list in reverse order every employment held by staff member since graduation, name of employing organization, position held, etc.] :

From (Year):

To (year):

Employer:

Positions held:

12. Detailed Tasks proposed for assignment
[List all tasks to be performed under this Assignment/job]

Work Undertaken that best illustrates capability to handle the tasks Assignment

[Among the Assignment/jobs in which the staff has been involved, indicate the following information for those Assignment/jobs that best illustrate staff capability to handle the tasks listed under point 12.]

13. Name of Assignment/job or project: Year:

Location:

Employer:

Main Project Features:

14. Positions Held:

15. Activities Performed:

16. Certification:

I, the undersigned, certify to the best of my knowledge and belief that this CV is true and qualifications & experience given above are correct. I understand that any willful misstatement described herein may lead to my disengagement from the Contract.

Date:

[Signature of Individual]

Place:

Form IV.D.2 : Qualification of the staff for the assignment

Sl. No	Name of the employ	Designation	Qualification

Form IV.D.3 : Association in the approval process by AERB/ BARC regulatory bodies

S.No.	Description of the documents / projects/ methodology approved by AERB/ BARC regulatory bodies	Date of approval

ANNEXURE – IV.E. QUALITY ASSURANCE SYSTEM RELATED TO THE ASSIGNMENT

The items given in table below will be given marks as indicated. The maximum points are 5. Marks for QMS document will be given only if a copy of the Corporate QA document is submitted with the bid.

Table IV.E.1

S.No.	Description	Maximum marks (Refer table IV.2)
1	Corporate level Quality Management System document	2
2	Submission of all required work procedures and detailed check lists along with description of QA programme & QC proposed to be used to complete the whole scope of work as given in technical specifications and ISO certification	3

*Quality Management System details to be filled and uploaded during bid submission as mandatory document- as **FORM IV.E.1***

Description of quality management system/programme available with the firm and how it will be implemented for the tendered Work shall be brought out.

Various work procedures /check lists available for the different type/ nature of job in the tendered Work shall also be clearly listed. Brief write up on QA in structural analysis, structural design & engineering specific to the Work including flow chart for preparation of 3D mathematical model, carrying out static & dynamic structural analysis, non-linear structural analysis, preparation of design documents, drawings, reports etc., shall be brought out. Bidders shall demonstrate the adequacy of QA system in all the analysis, design and engineering activities.

ANNEXURE– IV.F: PREVIOUS EXPERIENCE OF THE ORGANIZATION ON SIMILAR ASSIGNMENTS

The items given in table below will be given marks as indicated. The maximum points are 10. The minimum is minus two.

Table IV.F.1

Item	Worked Site	Distribution of marks	Maximum Marks(7 marks) (Refer table IV.2)
3D FEM modeling and Dynamic analysis and design of seismic resistant building	Nuclear power plants	At least one project should be completed with all the regulatory reviews	7
	Other safety related building approved AERB/ BARC regulatory bodies	@4 per project	Maximum of 6
	Thermal power plants or Industrial and more than 15 m	@1/ each project	Maximum of 3 marks
If any delay in completion of the above mentioned completed works, and reasons for the delay has been clearly attributed to the Bidder. A delay which is not certified by the Client but disclaimed by Bidder will be attributed to Bidder's account. Minus one mark for having one or more works which are delayed and delay is attributed to the Bidder, else zero marks.			(minus)2

Table IV.F.2

Item		Distribution of marks	Maximum Marks(Refer table IV.2)
Project management	Nuclear power plants or Thermal power plants or any other mega projects	At least one project should be completed	3

Details of Works executed as mentioned above (Detail to be filled as per prescribed format below and uploaded during bid submission as mandatory document)

FORM IV.F.1 (Fill in details against each completed Work)

Firm's Name:

Name of the Client	
Name of the Work	
Description of the Work	
Area of Work (Nuclear Power plant, Nuclear Installation, Thermal Power plant / Refinery /Petrochemical / Chemical / Oil & gas etc.)	
Nature of work involved and type & list of deliverables prepared and approximate quantity	
Value of the Contract (in M) : If order is in any other currency, same shall also be indicated	
Country :	

Location within Country :	
Complete Address of the client: Name of concerned person & Telephone No.	
Duration of Work (Year/Month) Indicate the contract start date and end date as per work order/contract:	
Actual Start Date (month / year) :	
Actual Completion Date (month / year) :	
If any delay in completion, state reasons	
Total No. of Staff-months of the Work : Indicate the maximum number of key personnel/technical staff mobilized for this Work and indicate the number against each levels	
Approx. Value of the Work provided by your firm under the Contract (in M)	
Indicate the % for the work similar to this tender	
Name of Senior Professional Staff of your Firm involved and functions performed	
Description of the contribution to the actual assignments /jobs provided by your staff within the Work	

Note:

Provide documentary evidence from the Client, i.e., copy of Work Order, Completion Certificate etc for each of above mentioned Work. The requirement of experience shall not be considered for evaluation if such requisite support documents are not provided with the proposal. The jobs executed in all the above mentioned areas are to be indicated. The breakup of the value of Work for analysis & design, time taken, resources engaged, etc., need to be elaborated with supporting documents. For works carried out for private parties, TDS certificates & Form 26AS are to be invariably enclosed along with the credentials.

Table IV.2: Marks will be graded as per the below table

Sl. No	Grade level	% rating*
1	Poor	40
2	Satisfactory	70
3	Good	90
4	Very good	100

Final marks will be arrived after multiplication of marks obtained by bidder for each criteria in annexure IV A to IV F of technical bid evaluation with grading/rating as given in Table IV.2. Grading/rating will be based on the adequacy for the assignment, expertise in the area and qualification.

INTEGRITY PACT

To,

Sub: NIT No. CEG/IGC/1814/2022 for the work PROVIDING ENGINEERING SERVICES FOR TECHNO-ECONOMIC STUDIES RELATED TO 1) COMMON RAFT CONCEPTS AND II) SEPARATE RAFT OF SINGLE CONTAINMENT WITH AND WITHOUT LINER AND DOUBLE CONTAINMENT FOR FBR 1 & 2 AT KALPAKKAM.

Dear Sir,

It is here by declared that IGCAR is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender / bid documents, failing which the tenderer / bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the IGCAR.

Yours faithfully,

Chief Engineer, CEG.

To,

Chief Engineer, CEG,

Sub: Submission of Tender for the work of **PROVIDING ENGINEERING SERVICES FOR TECHNO-ECONOMIC STUDIES RELATED TO 1) COMMON RAFT CONCEPTS AND II) SEPARATE RAFT OF SINGLE CONTAINMENT WITH AND WITHOUT LINER AND DOUBLE CONTAINMENT FOR FBR 1 & 2 AT KALPAKKAM.**

Dear Sir,

I / We acknowledge that IGCAR is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I / We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that **THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE** of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by IGCAR. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, IGCAR shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

Article 1 : Commitment of the Principal / Owner

- 1) The Principal/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - (a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
 - (b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - (c) The Principal / Owner shall Endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC) / Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal / Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2 : Commitment of the Bidder (s) / Contractor (s)

- 1) It is required that each Bidder / Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspended acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The Bidder(s) / Contractor(s) commit himself to take all measure necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - (a) The Bidder(s) / Contractor (s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal / Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - (b) The Bidder(s) / Contractor (s) will not enter with other Bidder (s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts,

submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

- (c) The Bidder(s) / Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s) / Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.
 - (d) The Bidder(s)/ Contractor(s) of foreign origin shall disclose the names and addresses of agents / representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
 - (e) The Bidder(s)/ Contractor(s) will, when presenting his bid, disclose (with each tender as per proforma enclosed) any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract
- 3) The Bidder(s) / Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
 - 4) The Bidder(s) / Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a wilful misrepresentation or omission of facts or submission of fake /forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.**
 - 5) The Bidder(s) / Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal / Owner shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder / Contractor accepts and undertakes to respect and uphold the Principal / Owner's absolute right:

- 1) If the Bidder (s) / Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate / determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal / Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**
- 2) **Forfeiture of EMD / Performance Guarantee / Security Deposit:**
If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Principal/Owner apart from exercising any legal rights that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder / Contractor.
- 3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of Indian Penal code (IPC)/Prevention of Corruption Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holding listing of the Bidder/Contractor as deemed fit by the Principal/ Owner.
- 3) If the Bidder/Contractor can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

- 1) The Bidder(s) / Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder / Contractor shall be

responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Sub- contractors/sub-vendors.

- 2) The Principal / Owner will enter into Pacts of identical terms as this one with all Bidders and Contractors.
- 3) The Principal / Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor / Vendor 12 Months after the completion of work under the contract **or extended period** or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, IGCAR.

Article 7- Other Provisions

- 1) This Pact is subject to Indian Law, place of performance and jurisdiction is the **Headquarters of the Division** of the Principal / Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this **Integrity Agreement/ Pact or interpretation** there of shall not be subject to arbitration.

Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid.

For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender / Contract documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

(For and on behalf of Principal/Owner)

(For and on behalf of Bidder/Contractor)

WITNESSES:

1. (Signature, name and address)
2. (Signature, name and address)

Place: -

Dated: -