F. No. O-17034/54/2015-HFA-4/FTS-13287
Government of India
Ministry of Housing and Urban Poverty Alleviation
(HFA-4)

***

Nirman Bhawan, New Delhi
Dated 2nd July, 2015

To
The Principal Secretary (Housing),
(In State Governments/Union Territories)

Sub.: Housing for All (Urban) Mission – Model Tender document and Guidelines.

Sir/Madam,

The Ministry of Housing and Urban Poverty Alleviation has launched the 'Housing for All' mission under which the Central Government would be assisting the State Governments in providing a pucca house to all eligible beneficiaries among the urban poor. Given the magnitude of the task, the Mission is giving due attention to quality, speed, durability of construction, etc. Use of fast track, environment friendly, cost-effective and sustainable alternate technologies is an imperative to meet the challenge of Housing for All.

2. During discussions with various stake-holders including State Governments, the need to develop a model tender document for selection of agencies for technology neutral construction of houses, had been emphasized. Emerging technologies use different materials and construction methodologies making it difficult to compare these technologies. Pursuant to the discussions, it was felt that the State Governments could consider prequalifying/empanelment of alternate technology providers using technical parameters in different capabilities depending upon the size of proposed project. To facilitate this exercise, the Building Materials and Technology Promotion Council (BMTPC) under the Ministry of Housing and Urban Poverty Alleviation has prepared the following two draft documents:

2. Model Expression of Interest.

3. Copies of the above two documents are enclosed. These are also available on the website of the Ministry of Housing & Urban Poverty Alleviation (www.mhupa.gov.in) and BMTPC (www.bmtpc.org).

4. It is requested that the two documents may be gone through and the views / suggestions of the State Government may be forwarded at the earliest and in any case latest by the 15th July, 2015. The suggestion may be sent to the Executive...
Director, BMTPC, Core 5A, 1st Floor, India Habitat Centre, Lodi Road, New Delhi – 110003, with a copy to the undersigned. In the light of suggestions received, these draft documents would be further revised. A workshop to discuss these documents and suggestions thereon would be held in the first fortnight of August, 2015.

Yours faithfully,

(S.K. Valiathan)
Deputy Secretary to the Government of India
Tel: 23061206

Encl.: As above

Copy to;
ED, BMTPC
Guidelines for Empanelment of Agencies for Construction of houses/buildings using Alternate Technologies on Design and Built Basis

(Not a part of EOI)

1. Inviting Expression of Interest (EOI) from reputed, experienced, technically and financially sound companies, firms, contractors / developers, JV (hereafter called Agency) for empanelment for construction of houses/buildings using alternate technologies on design and built basis through open advertisement in newspapers and website of concerned Project Authority. A model Expression of Interest is placed at Annex- I

2. EOI shall be invited in two envelope system i.e. 1. Eligibility criteria 2. Technical criteria

3. Concerned Project Authority shall scrutinize the eligibility criteria and list out eligible Agencies. Shortlisting of only those Agencies shall be done who qualify the eligibility criteria

4. A Technical Committee shall be constituted by the Project Authority including a few technical experts to evaluate the technical criteria of EOI.

5. The shortlisted Agencies shall make a presentation before the Technical committee. The evaluation of the technical criteria shall be done based on the parameters mentioned in the Table 1: If needed, visit to construction site, where technology has been used or being used, shall be arranged by the Agency

Table 1: Marking System for Evaluation of Alternate Technology

<table>
<thead>
<tr>
<th>Description</th>
<th>Marks</th>
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<td>v) Detailed executed projects reinforcing the claim about quality, time and disaster resistance property</td>
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<tr>
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</tr>
<tr>
<td>e)</td>
<td>Indigenous Source of required materials/components</td>
</tr>
</tbody>
</table>
| f) | Speed of construction viz a viz conventional system (max 10 marks) | 5  
     | Faster by 10%-20% | 8  
     | 20%-40% | 10  
     | Above -40% |  
     | (Speed will be based on completed projects in last three years, preferably in India. However, if no project is completed in India, similar projects in other countries may also be considered.) |  
| g) | Maintenance requirement | 5  
     | -No major maintenance requirement and could be done without any specialist manpower and equipment | 3  
     | - No major maintenance requirement but specialist manpower and equipment needed |  
     | Major maintenance requirement | 0  
| h) | Possibility of future flexibility/expandability of houses | 5  
| i) | Eco friendliness (use of industrial/agriculture wastes, less embodied energy, recyclable, saving of water/natural resources) | 5  

| Max. Marks | 50 |

Note: The qualifying criteria for eligibility for financial bid shall be minimum 30 marks in the technical criteria. In order to qualify, the technology needs to fulfill mandatory requirements.

Based on the above table, the constituted Technical Committee shall recommend the list of agencies and associated technology for empanelment by the Project Authority.

6. The Project Authority shall prepare a list of empaneled agencies, which shall remain valid for at least one year.

7. The Project Authority shall invite financial bid on project to project basis from the empaneled agencies.

8. In case the financial bid is invited for number of packages, the Project Authority may take into consideration various factors like number of packages and number of houses in one package, strategy to decide sequence of opening of financial bids, option to distribute work to various technologies, strategy incase lowest bid varies significantly in different packages etc.

9. The following additional provisions shall be included while preparing the financial bid.

a) Specifications of the shortlisted technology will be spelt out (could be based on the minimum requirements of the various parameters) by the Project Authority at the time of inviting financial bid. This is essential in case more than one vendor are there for similar technology.

b) The bid must be based on the plans prepared by the Project Authority.
c) The financial bid shall be a lump sum bid on Turnkey basis for houses/buildings with all specifications and basic architectural and structural drawings.

d) The empaneled agencies shall be able to arrange necessary training for the use and maintenance of the system, if needed.

e) To ensure sustainability after the houses are constructed, the empanelled agency shall ensure that an effective maintenance team is in place for five years and may provide training to beneficiary also, if needed. The empanelled agency shall be required to submit a maintenance plan for 5 years. The cost of maintenance of houses & internal services work shall be borne by the empanelled agency.

f) The Defect Liability Period for the project shall be of 5 years after the completion of the project. The security deposit / performance guarantee shall be released in the following manner.

I. After 2 years of completion of project. 2 %
II. After 4 years of completion of project 2 %
III. After 5 years of completion of project provided that there is no defect detected within the said period. 1 %

g) Structural performance guarantee, against the designed forces and environment including earthquakes, floods, cyclone etc., as applicable, of the said building to be constructed using proposed technology for at least 20 years is required to be furnished.

h) Details of soil investigation of site by the Project Authority.

10. The Financial Bid shall be opened by the Committee constituted by the Project Authority.

11. After scrutiny and evaluation of financial bids, the work shall be awarded to lowest Bidder.
INVITATION OF EXPRESSION OF INTEREST

Project Authority (Name) invites Expression of Interest (EOI) from reputed, experienced, technically and financially sound companies, firms, contractors / developers, JV (hereafter called agencies) for empanelment for construction of houses/buildings ranging from single storey to multi storey using alternate technologies on design and built basis in two envelopes system i.e. (i) Envelope-1 Eligibility criteria (ii) Envelope-2-Technical Criteria. Financial bid shall be invited only from empanelled agencies from project to project basis as decided by the Executing agency. Interested agencies having experience of design and construction using proposed alternate technology (ies) may send their Expression of Interest comprising Eligibility Criteria & Technical Criteria in separate sealed envelopes. The Eligibility Criteria of EOI shall be opened by the Project Authority in the presence of interested agencies. The shortlisted agencies shall make a presentation before the Technical Committee. The date and time of the presentation by the eligible agencies will be intimated separately.

The details of eligibility criteria, technical criteria, and criteria for selection of technology along with instruction to the agencies are enclosed herewith. This can also be downloaded from the website (Address of website).

The Project Authority reserves the right to accept or reject any or all the EOI without assigning any reason thereof.

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>(to be filled by the Project Authority)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>EOI fee</td>
<td></td>
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<tr>
<td>2</td>
<td>EOI validity period</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Last date &amp; time for submission of EOI</td>
<td></td>
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</tbody>
</table>

Model EOI using Alternate Technology
<table>
<thead>
<tr>
<th></th>
<th>Place of submission of EOI and fee</th>
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</thead>
<tbody>
<tr>
<td>5</td>
<td>Time &amp; date of opening of Eligibility Criteria</td>
</tr>
<tr>
<td>6</td>
<td>Time, date and venue for presentation by the agencies</td>
</tr>
<tr>
<td>7</td>
<td>Contact Office</td>
</tr>
</tbody>
</table>
A) GENERAL INFORMATION TO AGENCIES

1. The agencies are required to submit the EOI containing Eligibility criteria and Technical Criteria in two separate sealed envelopes clearly marked "Eligibility Criteria for Empanelment of Agencies for Construction of Houses / buildings using Alternate Technologies" and "Technical Criteria for Empanelment of Agencies for Construction of Houses / buildings using Alternate Technologies."

2. Both the envelopes should be put in one sealed envelope marked "EOI for Empanelment of Agencies for Construction of Houses / buildings using Alternate Technologies."

3. The EOI consisting of Eligibility criteria, Technical criteria and Criteria for selection of technology along with General Information to agencies can be seen at the website (address of the website) of the Project Authority.

4. The cost of EOI document will not be refunded under any circumstances.

5. The EOI offer shall be valid for 180 days from the date of its submission.

6. EOI without requisite fees and not fulfilling all or any of the conditions or submitted incomplete in any respect are liable to be rejected.

7. The Agency or one of its authorized representatives having proper authority on letter head of the Agency will be allowed into the premises where Eligible Criteria shall be opened.

8. Labour law to be complied by the agencies. The Agency shall have a valid license under the Contract Labour (R&A) Act, 1970 and the Contract Labour (Regulation and Abolition) Central Rules 1971, before the commencement of the work, and continue to have a valid license until the completion of the work. The Agency shall also abide by the provisions of the Child Labour (Prohibition and Regulation) Act 1986.

The Agency shall also comply with the provisions of the building and other construction workers (Regulation of Employment & conditions of Service) Act, 1996 and the building and other construction workers Welfare cess Act 1996. The Agency shall ensure the registrations of all eligible (inclusive of those of sub-contractors and petty contractors) with construction workers welfare board.
9. All the pages of the EoI submitted must be numbered and signed by the authorized signatory.

10. Canvassing in connection with the EoI be strictly prohibited and such canvassed EoI submitted by the Agency are liable to be rejected.

11. The Agency shall keep necessary books of accounts and other documents for the purpose of the condition as may be necessary and shall allow inspection of the same by a duly authorized representative of the Project Authority and further shall furnish such other information/document to the Project Authority.

12. The Agency shall submit only one EoI in his name for one technology/system. If Agency is applying for more than one technology/system, EOI shall be submitted for each technology/system separately. Submission of any additional EoI for the same technology in the name of their partner/Associates/group/company etc. shall disqualify them.

13. The Project Authority reserves the right to reject or accept any or all EoI at any stage without assigning any reason whatsoever.

14. EoI which do not fulfil all or any of conditions or are submitted incomplete in any respect are liable to be rejected. Conditional EoI shall not be accepted and will be rejected outright.

15. In case of any dispute or clarification in EoI, decision of Project Authority shall be final.

16. The Agencies are required to submit all the necessary documents as mentioned in EOI along with Eligibility Criteria & Technical Criteria.

17. The technology/system shall be evaluated and shortlisted by the Technical Committee constituted by the Project Authority for the purpose. Any technology/system proposed by the Agency must fulfil the requirement as mentioned in Appendix-I. The Agencies shall have to make presentation on the technology before the Technical Committee.

18. Technical Criteria of only those agencies will be opened who qualify in Eligibility Criteria i.e. Envelope-1.

19. The Financial Bids will be invited only from those empanelled agencies who qualify in technical criteria i.e. Envelope-2.

20. The bidding capacity of the empanelled agencies should be equal to or more than the estimated cost of the work for which the tender may be invited in future. The bidding capacity shall be worked out by the following formula:

\[
\text{Bidding Capacity} = (A \times N \times 2) - B \text{ Where}
\]
A = Maximum value of construction works executed in any one year during the last five years taking into account the completed as well as works in progress.
N = Number of years prescribed for completion of work for which criteria has been invited.
B = Value of existing commitments and on-going works and LOI issued to be completed during the period of completion of work for which criteria have been invited.

21. The developer connected with housing activity satisfying all eligibility criteria except registration certificate can also apply, provided the successful agencies shall apply / produce its registration certificate before empanelment. Further, agencies having experience of construction of Building work from Developer / Client as a Builder or Contractor are also eligible.

22. Only one type of JV is allowed for any Agency, which is between the Technology provider and the Agency himself. In this case, the Agency shall submit all the documents regarding the technical & financial eligibility (Form A to F), whereas the technology provider shall submit all the certificates related to the construction technology and vice-versa.

23. In case the Agency is JV, the members of the JV shall furnish a Power of Attorney designating one of the members, as per the JV agreement, as their Lead Member. The lead member shall be fully responsible for the satisfactory performance of the JV.

24. A copy of the JV Agreement registered should be submitted at the time of financial bid. The JV agreement entered into the members of the JV should be specific to the project only.

25. The companies, firms, contractors / developers, JV must be legally entitled for carrying out construction of building works.

26. All aforesaid form must bear the signature of authorised persons of the firm / company/contractor / developer.

B) ELIGIBILITY CRITERIA

1. Reputed, experienced technically and financially sound companies, firms, contractors / developers, JV for Construction of Houses / Buildings who will be able to meet the following eligibility criteria, shall be eligible to apply.
i) Registered Agency having valid statutory VAT registration, PAN No., WCT No, Service Tax No., PF, Labour etc.

ii) Agency should be Financially Sound to execute a project

iii) Agency should be well experienced having successfully completed building works as a prime contractor.

iv) The proposed alternate technology/system must have been used at least once in India. The Agency shall have to submit completion certificate of at least one building in India given by client. In case there is no completed work in India, work awarded by Government department which is in progress and partially completed, and certified by the concerned department may be considered.

v) Technology / system proposed to be used in construction shall be certified for performance criteria (as per Appendix-I) by any of the following: (The certificate must have approval for number of storeys for which it is suitable)
   a) BMTPC (under its Performance Appraisal Certification)
   b) CBRI, Roorkee
   c) SERC, Chennai
   d) Any IIT's
   e) Any NIT's
   f) Any reputed National / International technical institutions.

2. The EOI of agencies who have been debarred from undertaking any work or also blacklisted by any organization / agency in India or abroad as on the date of submission of EOI shall be summarily rejected.

3. The agencies will be evaluated under eligible criteria on the basis of details furnished by them.

4. If any information furnished by the Agency is found incorrect at a later stage, he shall be liable to be debarred from further bidding and taking works in Project Authority. The Project Authority reserves the right to verify the contents / particulars furnished by the Agency independently including inspection of work completed by them.

5. Even though any Agency may satisfy the above requirements, he would be liable to disqualification if the Agency has:
i) Made misleading or false representation or deliberately suppressed the information in the forms, statement and enclosures required in
the eligibility criteria document.

ii) Record of poor performance such as abandoning work, not properly completing the contract, or financial failures / weaknesses etc.

LIST OF DOCUMENTS REQUIRED TO BE SUBMITTED ALONG WITH
ELIGIBILITY CRITERIA (Envelope-1)

1. The Demand Draft of EOI fee of Approved Bank in original.
2. Audited balance sheet of last five financial years
3. Audited certificate showing net worth of last five financial years
4. Income tax return of last 5 financial years.
5. Copy the Bank Solvency certificate (not older than six months) (Form A)
6. Certificate of work experience as mentioned in Eligibility Criteria (B-i, B-ii & B-iii)
7. Performance certificate for the proposed technology as mentioned in Eligibility Criteria point 1 (v) above.
8. Performance Report (Form C)
9. Detailed organizational structure including technical manpower. (Form D)
10. Details of construction Plants, equipment etc. available with the Agency. (Form E)
11. Litigation Details (Form F)
13. Details of registration/empanelment with Central/State agencies/PSUs
15. PF registration certificate.
17. Any other relevant documents as desired by the Agency.

C) TECHNICAL CRITERIA

1. The Technical Criteria to be submitted by Agency in a separate sealed envelope.
2. The Technical Criteria of those agencies will be opened who qualify in Eligible Criteria.
3. The Technical Criteria shall be evaluated based on the documents submitted and criteria for evaluation of technology given at Appendix – I.

4. If the Technical Committee find necessary, the agencies shall arrange visit of technical team(s) nominated by the technical committee/ Project Authority to see the production facilities and construction work in progress/completed.

5. The Technical Criteria shall be evaluated by the marking system as per following details:

<table>
<thead>
<tr>
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<tbody>
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<td>e) Indigenous Source of required materials/components</td>
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<td>(Speed will be based on completed projects in last three years, preferably in India. However, if no project is completed in India, similar projects in other countries may also be considered.)</td>
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<td>Max. Marks</td>
<td>50</td>
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</table>
Note: The qualifying criteria for eligibility for empanelment shall be minimum 30 marks in the technical criteria. In order to qualify, the technology needs to fulfill mandatory requirements.

6. After opening of Technical Criteria, if certain clarity required, it will be intimated to the Agency and it should be clarified by the Agency within a stipulated time, if not Project Authority will take appropriate decision.

LIST OF DOCUMENTS REQUIRED TO BE SUBMITTED ALONGWITH TECHNICAL CRITERIA. (Envelope 2)

7. The interested agencies shall submit following details about the technology.
   i) Description of Technology / System
   ii) Detailed technical information including specification of materials and components used.
   iii) Construction methodology
   iv) Maintenance requirements –This deals with the ease with which the regular/ periodic/ preventive maintenance can happen for the proposed technology so as to attain the maximum service life period of the constructed buildings.
   The agencies shall provide information regarding frequency of maintenance, requirements for major or routine maintenance, availability of tools and materials for maintenance including Annual maintenance cost as percentage of building cost. The agencies should be able to demonstrate that the maintenance required is practical and can be carried out with ease without specialised equipment/manpower.
   v) Details of manufacturing / procurement of materials / components including source.
   vi) Equipment / machineries to be involved in the construction.
   vii) Lead time required to initiate the work from the date of award of tender.
   viii) Certification details for the proposed technology as mentioned in the eligibility criteria point 1 (v) from any of the agencies listed (Attach Certificate and other documents, if any).
   ix) Details of construction of dwelling units in India/abroad including number of houses, carpet area, agency for which it has been done (attach Certificate from Department / Agency/Client).
x) Information regarding speed of construction viz-a-viz conventional. Time period taken from start to completion of the project(s) in last three years.

xi) Suitability of the technology for the region including vulnerability to earthquake, floods, cyclones etc.

xii) Availability of sufficient manpower required for Execution of project using alternate technology (attach details).

xiii) Photograph / Sketches of the proposed Technology / System along with houses completed using the technologies / systems.

xiv) Details on flexibility/expandability of houses in future. – It is to be seen that whether the technology/system allows future expansion of the houses /buildings under consideration. Flexibility is the ability of the system to adapt to the requirements of the habitants.

xv) Details of maintenance plan and its support system.

xvi) Details of factory made structural and non-structural building components to be used.
LETTER OF TRANSMITTAL

From – ___________________________________________
__________________________________________
__________________________________________
(Name of Agency)

To, ___________________________________________
__________________________________________
__________________________________________
(Name of Project Authority)

Subject: Submission of Expression of Interest for Empanelment

Name of Work: __________________________________

Sir,

Having examined the details given in EOI for the above work, we hereby submit the EOI and relevant documents.

1. I / we hereby certify that all the statements made and information supplied in the EOI and accompanying statements are true and correct.

2. I / we have furnished all information and details necessary for EOI and have no further pertinent information to supply.

3. I / we submit the requisite certified solvency certificate and authorize the Project Authority to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I / we also authorize Project Authority to approach individual employers, firms and corporation to verify our competency and general reputation.

4. I / we hereby certify that our company/firm has not been debarred/ blacklisted from undertaking any work by any agency/organization in India or abroad.

Name of work:

Certificate From:
Enclosures:
Date of Submission:
SEAL

Signature of applicant(s)
FORM 'A'

FORM OF BANKERS CERTIFICATE FROM A NATIONALIZED BANK
(Solvency certificate from a nationalized bank)

This is to certify that to the best of our knowledge and information, M/s./Sh. _______________________________ (having marginally noted address), a customer of our bank are / is respectable and can be treated as good for any engagements up to a limit of INR _______________________________
(INR______________________________ )

This certificate is issued without any guarantee, risk or responsibility on behalf of the bank or any of its officers.

(Signature) For the Bank

NOTE:

1. Banker's certificates should be on letter head of the Bank, sealed in cover addressed to Project Authority.
2. In case of partnership firm, certificate should include names of all partners as recorded with the Bank.
FORM B-1

DETAILS OF ALL WORKS COMPLETED DURING THE LAST FIVE YEARS ENDING LAST DAY OF THE PREVIOUS MONTH IN WHICH EoI WAS PUBLISHED

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of work/Project &amp; Location</th>
<th>Owner or sponsoring Organization</th>
<th>Cost of works in crores</th>
<th>Date of commencement as per contract</th>
<th>Stipulated date of completion</th>
<th>Actual date of completion</th>
<th>Litigation / arbitration pending / in progress with details</th>
<th>Name of address / telephone of officer to whom reference may be made</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

Sign of Applicant

* indicate gross amount claimed and amount awarded by the Arbitrator
FORM B-II

DETAILS OF ALL WORKS COMPLETED WITH ALTERNATE TECHNOLOGY DURING THE LAST FIVE CONSECUTIVE YEARS ENDING LAST DAY OF THE PREVIOUS MONTH IN WHICH EoI IS PUBLISHED

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Name of work/ Project &amp; Location including number of stories and height of building</th>
<th>Owner or sponsoring Organization</th>
<th>Cost of works in crore</th>
<th>Date of commencement as per contract</th>
<th>Stipulated date of completion</th>
<th>Actual date of completion</th>
<th>Built up area in sq. meter</th>
<th>Litigation / arbitration pending / in progress with details*</th>
<th>Name of address / telephone of officer to whom reference may be made</th>
<th>Remarks (Mention emerging technology used in construction)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
<td>8</td>
<td>9</td>
<td>10</td>
<td>11</td>
</tr>
</tbody>
</table>

Signature of applicant(s)

* indicate gross amount claimed and amount awarded by the Arbitrator
FORM 'B-III'

PROJECTS WITH ALTERNATE TECHNOLOGIES UNDER EXECUTION OR AWARDED / LOI ISSUED

<table>
<thead>
<tr>
<th>Sr. No</th>
<th>Name of work/Project &amp; Location</th>
<th>Owner or sponsoring Organization</th>
<th>Cost of works in crores</th>
<th>Date of commencement As per contract</th>
<th>Stipulated date of completion</th>
<th>Up to date amount of the work executed (INR)</th>
<th>Slow progress if any &amp; reason thereof</th>
<th>Name of address / telephone of officer to whom reference may be made</th>
<th>Remarks</th>
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Certified that above list of works are complete and no work has been left out and the information given is correct to my / our knowledge and belief.

Signature of applicant(s)
FORM 'C'

PERFORMANCE REPORT OF WORKS REFERRED TO IN FOR "B-I, B-II & B-III"

1. Sr. No.
2. Name of work / Projects and Location
3. For Building works:
   i. Nature of building
      a. Load bearing
      b. RCC Framed Structure
   ii. Height of building & numbers of floor
4. Agreement No.
5. Client name:
6. Amount of Work:
7. Date of Starting of project:
8. Stipulated date of completion:
9. Actual date of completion:
10. Completion cost:
11. Justification for Delay, if any:
12. Amount of compensation
   a. Levied for delayed completion, if any
   b. Amount of reduced rate items, if any
13. Litigation tendency:
14. Feedback from client:
   i. Quality of work Very good Good Fair Poor
      ii. Finance Very good Good Fair Poor
         Soundness
   iii. Technical Very good Good Fair Poor
      Proficiency
   iv. Resourcefulness Very good Good Fair Poor
   v. General behaviour Very good Good Fair Poor

Third party feedback, if any:

Signature of applicant Signature & Stamp of client
**FORM 'D'**

**DETAILS OF ORGANIZATIONAL STRUCTURE**

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<tr>
<td>1.</td>
<td><strong>Name &amp; address of the applicant</strong></td>
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<td>2.</td>
<td><strong>Telephone No. / Telex No. / Fax No.</strong></td>
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| 3. | **Legal Status of the applicant (attach copies of original document defining the legal status(s))**  
   (a) An individual  
   (b) A proprietary firm  
   (c) A firm in partnership  
   (d) A limited company or corporation  
   (e) Joint Venture (JV) |
| 4. | **Particulars of Registration with various Government bodies (attach attested photocopy).**  
   (a) Registration number  
   (b) Organization / place of Registration |
|   |  
| 5. | **Name and titles of Director & Officer with designation to be concerned with this work** |
| 6. | **Designation of individual authorized to act for the organization** |
| 7. | **Was the applicant ever required to suspend construction for a period of more than six months continuously after you commenced the construction? If so give the name of the project and reason of suspension of work.** |
| 8. | **Has the applicant or any constituent partner in case of partnership firm ever abandoned the warded work before its completion? If so, give name of the project and reason for abandonment.** |
| 9. | **Has the applicant or any 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 court of law? If so, give details.** |
| 11. | **In which field of Civil Engineering construction you claim specialization and interest.** |
| 12. | **Any other information considered necessary but not included above.** |
| 13. | **List of the key technical Persons with qualification & experience** |
|   |   |

Sign of the applicant(s)
FORM 'E'

DETAILS OF CONSTRUCTION PLANT & EQUIPMENT AVAILABLE WITH THE AGENCY

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<tr>
<th>Sr. No.</th>
<th>Name of equipment</th>
<th>Nos</th>
<th>Capacity of type</th>
<th>Age</th>
<th>Condition</th>
<th>Ownership status</th>
<th>To be purchased</th>
<th>Current location</th>
<th>Remarks</th>
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Signature of applicant(s)
FORM ‘F’

LITIGATION DETAILS

Name of applicant / or parties:

Applicant should provide information on any History of litigation or arbitration resulting from contracts executed in last five years or currently under execution:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Year</th>
<th>Award for / against applicant</th>
<th>Name of claim, cause of litigation &amp; matter of dispute</th>
<th>Disputed Amount in INR.</th>
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NOTE:

1. The above information shall be supported with necessary documents otherwise the same shall be treated as null & void.

2. If the information to be furnished in this schedule will not be given & come to the notice subsequently will result in disqualification of Agency.

Sign of Applicant(s)
REQUIREMENTS FOR EVALUATION OF ALTERNATE TECHNOLOGY

Alternate Housing Technologies suitable to Geoclimatic and hazard conditions of the region, having design compatibility & flexibility to suit the requirements of the structure to be built and minimum service life of 50 years and certified for its suitability by any one of the following:

a) BMTPC (under its Performance Appraisal Certification)
b) CBRI, Roorkee
c) SERC, Chennai
d) Any IIT's
e) Any NIT's
f) Any reputed National/International technical institutions.

Alternate Housing Technology here means any technology, replacing the basic structural elements without compromising with desired functional and structural performance of the building of any of the following:

i) Load bearing building i.e. walling, roof built with conventional technology of brick masonry / CC block & RCC roof.

ii) Conventional RCC beam and column frame structure with infill walling material e.g. burnt clay brick, fly ash bricks, CC blocks or Aerated Cement concrete blocks wall etc.

The technology must have been evaluated for the following broad parameters:

Mandatory Requirements – The technology shall have to fulfil the mandatory requirements. Otherwise it is liable to be rejected.

i. Structural safety (Strength & Serviceability) of the system against vertical and lateral load (wind & seismic loads as applicable) as per relevant Indian Standards, including performance of joints, as applicable.

ii. Fire safety as per National Building Code 2005
iii. Resistance against water and moisture penetration. As per any recognised international standard/practice like ASTM/Agreement South Africa.

iv. Thermal behaviour – Comparing the thermal transmission loss of the system with that of traditional construction (refer IS 3792:1978*). Thermal Performance should either be comparable or better than conventional.

v. Acoustic behaviour – Minimum sound transmission loss of 40 dB as per IS 1950:1962**

vi. Durability – to be evaluated considering following parameters
   a) Expected service life of the system compared to conventional
   b) Evidence of building(s) sustained for at least 10 years.
   c) Performance under accelerated tests like alternate wetting and drying, salt spray test etc.

vii) All the materials used shall conform to Indian/International Standards.