

INDIAN INSTITUTE OF CHEMICAL BIOLOGY

(Council of Scientific and Industrial Research)

4, Raja S.C Mullick Road, Jadavpur, Kolkata – 700 032

(Phone Nos.2473 3491/3493/6793/0492, Fax: 2473 0284/5197

STD Code: 033, Website: www.iicb.res.in

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Construction of New Animal House at IICB, Kolkata**

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Signature of the Architect/Consultant:

Name and Address:

Date:

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NOTICE FOR PRE-QUALIFICATION OF ARCHITECTS / CONSULTANTS

The Indian Institute of Chemical Biology, Kolkata is a National Laboratory of Council of Scientific & Industrial Research (CSIR), New Delhi, dedicated to multi – disciplinary field of Chemical and Biological Research. In order to create a world-class Animal House Facility to meet the requirement of International Standard CPCSEA compliant Animal Housing and Research Facility, it is proposed to set up a separate building in the existing campus. The built up area of proposed building will be approximately 2500 Sqm with estimated cost of construction of the building at Rs. 5.00 Crores including services and development works.

It is proposed to shortlist the Architectural/Consultancy firms registered with the Council of Architecture in the first instance. Interested Architects/Consultants who have successfully designed and carried out (Commenced and completed) at least three similar works i.e. Animal House or Animal /Chemical/Biological Research or any other R&D Laboratory, Hospital, Health Centers or Institutional Building of equal magnitude during the last 10 years for Govt. /Semi Govt./ Public Undertaking/Reputed Private Organization or CSIR and its laboratories need only apply along with the required information and supporting documents prescribed in the "Pre- qualification Document " which can be obtained on request from the office of Director, IICB, Kolkata or can be downloaded from websites of CSIR(www.csir.res.in), IICB(www.iicb.res.in) and Tender Home (www.tenderhome.com). Experience on animal house & research building is preferred.

Architectural Firms will be pre-qualified/short listed in the first instance and then a design competition will be held amongst the short listed firms based on the guidelines of Council of Architecture. It may be noted that price bids will be invited only from the short-listed firms. Therefore, presently the firms are not required to quote their fee. Applications in a sealed cover containing information as per above along with supporting documents may be sent to the Director, IICB, Kolkata so as to reach him on or before 30.11.2006 by 3.00 P.M and will be opened on the same day at 3.30 P.M in the presence of applicants. Director, IICB, Kolkata reserves the right to reject any or all the applications without assigning any reason thereof.

Head (Engineering)

SECTION – I

BRIEF PARTICULARS OF THE PROJECT

1. Indian Institute of Chemical Biology (IICB) under CSIR is situated at 4, Raja S.C.Mullick Road, Jadavpur, Kolkata-700 032 and is a premier Laboratory dedicated to the multi-disciplinary field of Chemical & Biological Research. In view of phenomenal growth in recent years in the related fields as well as stringent laboratory norms to be met in the field of animal research, this prestigious laboratory is planning to set up a new animal house (a separate multi-storied research building) in its existing campus at Jadavpur, Kolkata. The building would have basic facilities like AAALAC, CPCSEA, INSA Guided GLP compliant Animal Facilities, NUDE & Knock-out Mice Facility, Stem Cell Research & Cell line Repository Facility & Transgenic Mice Facility and to be planned according to guidelines. The building is expected to be of approximately 2500 sqm floor space & estimated cost for construction is Rupees Five Crores including services and development works.

2. General features and major components of the building are as given below:

Animal Facilities

- Experimental Animal Housing Facility
- Isotope-treated Animal Quarter
- Infectious Organism treated Animal Quarter
- Animal Breeding Colony
- Nude Mice Colony
- Knock out & Knock in mice Colony
- Stem Cell culture facility
- Transgenic Rodents Housing
- Transgenic Animal Housing Area / Production Laboratory
- Adequate space for Animal Housing considering well being for free movement, normal postural adjustments and resting place appropriate to species like mice, rat, guinea-pig, rabbit & hamster etc, maintenance of body temperature, urination, defecation and reproduction
- Sufficient area for separation of species in every floor
- Floor wise separation of animal colonies according to utility and risk factor
- Open Courtyard with Sheep Pane & Dog Kennel
- Service Rooms for animal dispatch
- Isolation Rooms for sick animals
- Quarantine and Stabilization Room for new entrants
- Animal Rooms - 50% of Total Area
- Separation of Animal Facilities & Research Facilities

Research Facilities

- Research Laboratories

- ICCU/Diagnostic Lab / O.T / Mortuary / Cold Room / Incinerator

Other Facilities

- Restricted Entry Area Facility
- Toilet with Bath & Locker Facility
- Office / Staff Rooms
- Kitchen / Food Store / Bedding Store
- Washing, Cleaning & Sterilization of Cages
- Separate Dirty & Clean Corridor
- Winch for Removal of Dirty Cages & Waste
- Loading & Unloading Bay with Temporary Animal Store & Reception Area
- Exclusive lift for Transportation of Animal, Clean cages
- Exclusive lift for Food supply
- Transport of Dead animals, waste to Incinerator by Conveyor belt
- Incinerator
- Dedicated HVAC Plant
- Dedicated DG Set

Physical Facilities

Building Materials: Durable, Fireproof, Seamless, Soundproof, Vermin and Pest Resistant

Floors: Smooth, Continuous, Moisture proof, Nonabsorbent, Skid proof and lesser joints, Resistant to wear, acid, solvents, adverse effects of detergent and disinfectant

Doors: Rust, Dust proof, Vermin and Pest Resistant with Vision panel and Door closure

Windows: Exterior windows not desirable for animal quarters

Walls & Ceilings:

- Smooth, Free from Cracks, Unsealed utility penetrations or imperfect junctions with doors, ceilings, floors and corners.
- Capable to withstand scrubbing with detergents, disinfectants and impact of water under high pressure.
- Durable and Fire resistant
- Seamless and Soundproof

Drains:

- Not essential in rooms used exclusively for housing rodents.
- When used, sloped floor with floor traps filled with water or corrosion free mesh essential.
- Adequate slope for rapid removal of water and drying of surfaces

Utilities:

- Water lines Drain pipes and Electrical connections to be accessible through service panels or shafts in corridors outside the animal rooms.

Environmental Condition:

- Temperature & Humidity Control
 - Air Conditioning by HVAC system for allowable temperatures of 18 to 29°C (64.4 to 84.2°F)
 - Comfortable zone (18 to 37°C) to be maintained during extreme summer for larger animals.
 - Relative Humidity 30% to 70% round the year
- Ventilation
 - By means of Mechanical Ventilation through AHU of HVAC system with 10 - 12 Cycles Air Changes per Hour of 100% fresh air for Animals' Primary Enclosures.
 - Separate Ventilation for Animal Facility and Human Occupancy Areas
- Dust Control
 - Clean Room Facility by Air Filter in AHU
- Power and Lighting
 - Safe Electrical System
 - Appropriate Lighting and a sufficient number of Power Outlets.
 - Adequate Illumination but Lowered Intensity of Light (Fluorescent lights) in Animal Rooms
 - Time Controlled Lighting System for a Regular Diurnal Lighting Cycle for animal rooms
- Noise Control
 - Proper planning for Noise free environment in animal facility to be maintained.
 - Suitable dampening building material

Services Facilities

- Intelligent Building Management System
 - Control of Access to Building and Facilities & Monitoring by CCTV & Security Code
 - Monitoring & Control of total Lab Facilities (Research & Services)
- LAN
- Glow Signage
- Internal & External Paging Services
- EPABX System
- Dedicated HVAC System
- Dedicated DG Set
- Dedicated Water Tank (Laboratory Use & Fire Fighting)
- Smoke / Heat Detector & Alarm

- Portable Fire Extinguisher/ Water Sprinkler / Wet Riser System

Other Facilities

- Laboratory Furniture / Office Furniture & Equipment
- Laboratory Equipments / Safety Equipments (PPE)
- Dedicated Water Pump Motor (For Lab use & Fire Fighting)
- Incinerator / Fuel Tank / Chimney
- Kitchen Equipments / Storage Racks / Cages / Cage Washing Machines

Hygiene & Disease Control

- Barrier to control the entry of contamination into the building through men, materials and animals.
- Strict barriers to avoid the entry of rodents, birds, insects and pests.
- Visitors, service staff, foreign materials etc. to be allowed entry only after proper sanitization. On the exit side an efficient monitoring service to be established for monitoring the prevalence of any infection in the colony.

Animal Ethics

- Best Possible Animal Living Condition and Maintenance of Facility
- Best Possible Care & Monitoring of Animals
- Lesser Physical Contact with Animals

3. Scope of work for Architect/Consultant's Services: -

- I. Taking client's instructions and preparation of design brief.
- II. Site evaluation, analysis and impact of existing and / or proposed development in its immediate environs.
- III. Planning, Design of building and site development.
- IV. Structural design.
- V. Sanitary, Plumbing, drainage, water supply and sewerage.
- VI. Electrical, electronic, communication, acoustics systems and design.
- VII. HVAC and other mechanical systems.
- VIII. Elevators, escalators etc.
- IX. Fire detection, fire protection and security systems etc.
- X. Landscape.
- XI. Interiors.
- XII. Graphic design and signage.
- XIII. Preparing tender documents and estimates etc.
- XIV. Getting approval from statutory authorities like KMC, Pollution Control Board or any other concerned authorities necessary for construction of building
- XV. Periodic inspection and evaluation of construction works.
- XVI. Getting approval for drainage & electricity connection
- XVII. Getting completion certificate from municipal authority.
- XVIII. Any other works related to approval of drawings from the concerned authorities, periodic supervision of work according to municipal rules, and issuance of completion certificate as deemed necessary.

SECTION-II

INFORMATION & INSTRUCTIONS FOR APPLICANTS

1. GENERAL:

- 1.1.**Letter of transmittal and forms 'A' to 'F' seeking information/documents are given in Section -III.
- 1.2.** All information called for in the enclosed forms should be furnished against the relevant columns in the forms. If for any reason, information is furnished on a separate sheet, this fact should be mentioned against the relevant column. Even if no information is to be provided in a column, a 'nil' or "no such case" entry should be made in that column. If any particulars/ query are not applicable in case of the applicant, it should be stated as "not applicable". The applicants are cautioned that not giving complete information called for in the application forms or not giving it in clear terms or making any change in the prescribed forms or deliberately suppressing the information may result in the applicant being summarily disqualified. Applications made by telegram or telex and those received late will not be entertained.
- 1.3.**The application should be type written. The applicant should sign each page of the application.
- 1.4.**Over writing should be avoided. Correction, if any should be made by neatly crossing out, initialing, dating and rewriting. Pages of the pre-qualification document are numbered. Additional sheets, if any, added by the applicant should also be numbered by him. They should be submitted as a package with signed letter of transmittal.
- 1.5.**References, information and certificates from the respective clients certifying suitability, technical know how or capability of the applicant should be signed by an officer not below the rank of Executive Engineer or equivalent.
- 1.6.**The applicant may furnish any additional information which he thinks is necessary to establish his capability to successfully complete the envisaged project. He is, however, advised not to furnish superfluous information. No information shall be entertained after submission of pre-qualification document unless it is called for by the Employer.
- 1.7.**Any information furnished by the applicant found to be incorrect either immediately or at a later date, would render him liable to be debarred from taking up the project of IICB.
- 1.8.**The pre-qualification document in prescribed form duly completed and signed should be submitted in a sealed cover. The sealed cover super scribed "Pre- qualification of Architects for the project of Construction of New Animal House at Jadavpur, IICB, Kolkata." shall be received in the office of Director, IICB, Kolkata up to 3.00 p.m. on 30.11.2006 and will be opened in the same day in presence of the applicants. Documents submitted in connection with pre-qualification will be treated as confidential and will not be returned.
- 1.9.**Prospective applicants can seek any clarification regarding project requirements and pre-qualification document from the office of Director, IICB if required.

2. DEFINITIONS:

In this document the following words and expressions have the meaning hereby assigned to them.

- 2.1.EMPLOYER** means the Director, IICB, Kolkata acting through the Administrative Officer/Controller of Administration.
- 2.2.APPLICANT** means the individual, proprietary firm, firm in partnership, limited company, private or public or corporation.
- 2.3.“Year”** means “Financial Year” unless stated otherwise.

3. METHOD OF APPLICATION:

- 3.1.If** the applicant is an individual, the application shall be signed by him above his full typewritten name and current address.
- 3.2.If** the applicant is a proprietary firm, the application shall be signed by the proprietor above his full typewritten name and the full name of his firm with its current address.
- 3.3.If** the applicant is a firm in partnership, the application shall be signed by all the partners of the firm above their full typewritten names and current addresses or alternatively by a partner holding power of the attorney for the firm. In the latter case a certified copy of the power of attorney should accompany the application. In both cases a certified copy of the partnership deed and addresses of all the partners of the firm should accompany the application.
- 3.4.If** the applicant is a limited company or a corporation, the application shall be signed by duly authorized person holding power of attorney for signing the application accompanied by a copy of the power of attorney. The applicant should also furnish a copy of the Memorandum of Articles of Association duly attested by a Public Notary.

4. FINAL DECISION MAKING AUTHORITY:

Director, IICB reserves the right to accept or reject any application and to annul the pre-qualification process and reject all applications at any time without assigning any reason or incurring any liability to the applicants.

5. PARTICULARS PROVISIONAL:

The particulars of the project given in Section-I are provisional. They are liable to change and must be considered only as advance information to assist the applicant.

6. SITE VISIT:

The applicant is advised to visit the site of project at his own cost, and examine it and its surroundings to him, collect all information that he considers necessary for proper assessment of the prospective assignment.

7. INITIAL CRITERIA OF ELIGILITY FOR PRE-QUALIFICATION:

The term 'Architect' will mean person who at the time of submitting the application is registered with the Council of Architecture, India under the Architects' Act 1972. If an application is submitted by a team, its leader shall be an 'Architect' and where the application is submitted by a firm, at least one of its partners/ directors, but not any employee, shall be an 'Architect'.

7.1.EXPERIENCE OF SIMILAR PROJECTS:

The applicant should have satisfactorily completed minimum three similar projects of Rs.5.0 Crores during the last ten years ending 31.12.05 for Govt. / Semi- Govt. /Public Undertakings/ Reputed Private Organization or CSIR and its laboratories. The "similar work" means Planning/designing of Animal House/Chemical/Biological/Animal Research or any other R&D Laboratory, Hospital, Health Centres or Institutional Building or laboratory complexes within large institutions like universities, Pharmaceutical complexes, Hospitals etc. For this purpose, "cost of project "shall mean gross value of the completed project. This should be certified by an officer not below the rank of Executive Engineer/Project Manager or equivalent.

7.2.ORGANIZATIONAL STRUCTURE:

The applicant should have sufficient number of Technical and Administrative employees for the proper execution of the project. The applicant should submit a list of employees stating clearly how they would be involved in this project. The in-house capability of the firm should be brought out clearly indicating the disciplines for which the firm will need to appoint sub-consultants.

7.3.OVERALL EXPERIENCE

The overall experience of the firm should not be less than 10 years. This means that the firms should be in practice & providing consultancy services for a minimum period of last 10 years. A list of the major and important work designed by the firm since inception may be given in Form 'C'.

8. EVALUATION CRITERIA FOR PRE-QUALIFICATION

8.1.For the purpose of pre-qualification, applicants will be evaluated in the following manner:-

8.1.1. The initial criteria prescribed in Para 7.1 to 7.3 above in respect of experience of similar type of projects completed, organizational structure and overall experience will be scrutinized for determining the applicant's eligibility for pre- qualification.

8.1.2. The applicants qualifying the initial criteria as set out in para 7.1 to 7.3 above will be evaluated by scoring method on the basis of details furnished by them as below :-

8.1.2.1. Experience of Similar Projects

(Refer Forms 'A', 'C' & 'D')

For three similar projects of Rs.5 crores each completed during the last 10 years-30 marks will be given. For each additional similar project of Rs. 5 crores designed by the firm during its life time, 10 marks will be given subject to maximum of 20 marks for 2 additional works.	50 marks (maximum)
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8.1.2.2. Organizational Structure

(Refer Forms 'E' & 'F')

The firms are expected to have in-house capability for a) Structural Design, b) Electrical works, c) plumbing & water supply works, d)Air-conditioning & HVAC Systems, Acoustics e) Fire-fighting & detection works f) landscaping, g) Interior designs, h) other services like building Automation system etc. 3 marks each for these eight disciplines will be given. In case the firms do not have in-house capability for a particular discipline and they require the services of an external sub- consultant then only 1.5 marks each for such discipline will be given	24 marks (maximum)
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8.1.2.3. Overall Experience

(Refer Forms 'C', 'D' & 'E')

A firm is expected to have an overall experience of minimum 10 years i.e. the firm should have been established & in practice for the last 10 years. 10 marks will be given to the firm if it has handled one important/ major project of Rs.5 crores & above since its inception. For each additional 5 years 2 marks will be given subject to maximum of 6 marks (3 periods X 5 years) if major works of Rs.3.50 crore each & above are handled during these periods. The works considered under this sub-head will be excluding the similar works considered under sub-head (8.1.2.1)	16 marks (maximum)
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8.1.2.4. Awards

If a firm has won award in any National/International level competition for Architectural Designs/Planning, then it will be given 10 marks (Max.). A certificate from the organizing authority will have to be produced by the firm in this regard.	10 marks (maximum)
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Total 100 marks

To pre-qualify, an applicant must secure at least sixty percent marks in aggregate. The department however, reserves the right to restrict the list of pre- qualified Architects/consultants to around 10 or more as deemed suitable by it.

8.2. Even though an applicant may satisfy the above requirements, he/she would be liable to disqualification if he/she has :-

8.2.1. Made misleading or false representation or deliberately suppressed the information in the forms, statements and enclosures required in the pre- qualification document.

8.2.2. Record of poor performance such as abandoning project, not properly completing the assigned project, or financial failures/weaknesses etc.

9. INFORMATION TO BE GIVEN IN THE REQUIRED FORMATS:

9.1. Applicant should furnish the following:

a) List of similar projects successfully completed since inception

(Form – 'A')

b) List of the projects under execution or awarded (Form – 'B')

c) List of overall major/ important projects designed by the firm since inception (Form-'C').

9.2. Particulars of completed projects and performance of the applicant duly authenticated/certified by an officer not below the rank of Executive Engineer or equivalent should be furnished separately for each project completed or in progress (Form – 'D').

10.ORGANISATION INFORMATION

Applicant is required to submit the following information in respect of his organization (Form - 'E' & 'F').

a) Name & postal address, Telephone & Fax Number etc.

b) Year of establishment and commencement of practice.

c) Copies of original documents defining the legal status, place of registration and principal places of business.

d) Name & Title of Directors and Officers to be concerned with the project, with designation of individuals authorized to act for the organization.

e) Information on any litigation in which the applicant was involved during the last five years including any current litigation.

f) Authorization for employer to seek detailed references.

g) Number of Technical & Administrative Employees in parent company, subsidiary company and how these would be involved in this work (Form – 'F')

11.LETTER OF TRANSMITTAL

The applicant should submit the letter of transmittal attached with pre-qualification document.

12.DESIGN SUBMISSION

After evaluation of pre-qualification applications, a list of qualified Architects will be prepared. Thereafter, pre-qualified Architects will be invited to participate in the design competition based on the guidelines of Council of Architecture.

13.AWARD CRITERIA

13.1. The employer reserves the right, without being liable for any damages or obligation to inform the applicant to

a) Amend the scope and value of project to the applicant.

b) Reject any or all the applications without assigning any reason.

13.2. Any effort on the part of the applicant or his agent to exercise influence or to pressurize the employer would result in rejection of his application. Canvassing of any kind is prohibited.

Section - III

LETTER OF TRANSMITTAL

FROM:

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Director

Indian Institute of Chemical Biology

4, Raja S.C.Mullick Road,Jadavpur, Kokata-700 032

SUBJECT: Submission of Pre-qualification application for the Construction of New Animal House at Jadavpur campus, Kolkata-700032

Sir,

Having examined the details given in Press-Notice and pre-qualification document for the above project, I/we hereby submit the pre-qualification document and other relevant information: -

- 1. I/we hereby certify that all the statements made and information supplied in the enclosed forms 'A' to 'F' and accompanying statements are true and correct.**
- 2. I/we have furnished all information and details necessary for pre-qualification and have no further pertinent information to supply.**
- 3. I/we also authorize Director, IICB to approach individuals, employers firm and Council of Architecture to verify our competence and general reputation.**
- 4. I/we submit the required documentary proof of Registration with Council of Architecture.**
- 5. I/we submit the following certificates in support of our suitability, technical know- how and capability for having successfully completed the following projects along with prescribed format.**

Name of Project

Certificate from

Enclosures

Signature(s) of Applicant(s)

Seal of Applicant

Date of submission

DETAILS OF SIMILAR PROJECTS COMPLETED DURING LAST TEN YEARS ENDING 31.12.05

Sl. No.	Name of project location	Owner & sponsoring organization	Cost of project in crores	Date of commencement as per contract.	Stipulated date of completion	Actual date of completion	Name & address/ telephone No. of Officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9

Signature of Architect/Consultant

PROJECTS UNDER EXECUTION OR AWARDED

Sl. No.	Name of project & location	Owner or sponsoring organization	Cost of project in Crores	Date of commencement as per contract.	Stipulated date of completion	Up to date progress of project	Slow progress if any reasons thereof	Name and address of Officer to whom reference may be made	No. of telephone to whom may be made	Remarks
1	2	3	4	5	6	7	8	9	10	

Signature of Architect/Consultant

LIST OF OVERALL MAJOR/ IMPORTANT PROJECTS DESIGNED BY THE FIRM SINCE INCEPTION

Sl. No.	Name of project & location	Owner sponsoring organization	or Cost project Crores	of project in comment per contract.	Date of completion as stipulated date	Up to percentage progress of project	Slow progress / if any reasons thereof	Name address/ telephone No. of Officer to whom reference may be made	Remarks
1	2	3	4	5	6	7	8	9	10

Signature of Architect/Consultant

PERFORMANCE REPORT OF PROJECTS REFERRED TO IN FORM 'A', 'B' & 'C'

1) Name of Project & Location

2) Agreement No.

3) Estimated cost

4) Tendered cost

5) Date of commencement

6) Date of completion

a) Stipulated date of completion

b) Actual date of completion

7) Amount of compensation levied for delayed Completion, if any

8) Performance Report

a) Quality of work **Excellent/ Very good/ Good/Fair**

b) Financial Soundness **Excellent/ Very good/ Good/Fair**

c) Technical proficiency **Excellent/ Very good/ Good/Fair**

d) Resourcefulness **Excellent/ Very good/ Good/Fair**

e) General behavior **Excellent/ Very good/ Good/Fair**

Dated:

Employer

ORGANISATIONAL STRUCTURE

- 1) Name & Address of the applicant with Telephone No. /Fax No.**
- 2) a) Year of Establishment**
b) Date & year of commencement of practice.
- 3) Legal status of the applicant (attach 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 photo-copies)**

Organization/Place of registration

Registration No.

- i.**
- ii.**
- iii.**
- 5) Names and Titles of Directors and officers with Designation to be concerned with this project.**
- 6) Designation of individuals authorized to act on behalf of the organization.**
- 7) Was the applicant ever required to suspend the project for a period of**

more than six months continuously

after you commenced the planning? If so, give the name of the project and reasons of suspension of project.

- 8) Has the applicant or any constituent partner in case of partnership firm, ever abandoned the awarded project 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 competing 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 field of Architecture the applicant has specialization and interest?**
- 12) Does the applicant have any specialization in the field of Planning & Design related to Animal House or Animal Research Building? If so, give details.**
- 13) Has the applicant Planned & Designed Animal House or Animal Research Building? If so, give details.**
- 14) Any other information considered necessary but not included above.**

Signature of Architect/Consultant

DETAILS OF TECHNICAL & ADMINISTRATIVE PERSONNEL TO BE DEPLOYED FOR THIS PROJECT.

Sl. No.	Designation	Total No.	No. available for this project	Name	Qualification	Professional experience and details of project carried out	How would be involved in this project	Remarks
1	2	3	4	5	6	7	8	9

Signature of Architect/Consultant