

TENDER DOCUMENT

FOR

Development of Centre of Excellence in Unani Medicine (Pharmacognosy/ Pharmacology) at 3rd floor of Nano Building

**A. Misc. Civil Work, Plumbing
Wooden, Painting work etc.**

B. Acid resistant Waterproofing Work

J A M I A H A M D A R D

HAMDARD NAGAR

NEW DELHI –110062

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JAMIA HAMDARD
(DEEMED TO BE UNIVERSITY)
HAMDARD NAGAR, NEW DELHI-110062

NOTICE INVITING TENDER

Ref No. JH/Civil/Nano(AYUSH)/82/2022

Date: 19-07-2022

Jamia Hamdard, New Delhi invites sealed items rates Tenders in **two bid system** (Technical & Financial Bid) from reputed contractors registered with CPWD, MES, Railway, Department of Telecommunication, Universities, Higher Education Institute and other central/State Govt. Departments for the below mentioned work. Tender Documents are attached herewith. Last date of submission of the Tender is 01-08-2022 **up to 3.00 PM**. The bidders also advised to visit the site to satisfy themselves before submitting the Bids. Bidders not fulfilling the Eligibility Criteria will be rejected. Eligibility Criteria is mentioned in Tender clause 1.2 & 1.3.

Note: Vendors may apply for both A & B jointly and they may also quote separately for only A or B.

NAME OF WORK: **Development of Centre of Excellence in Unani Medicine
(Pharmacognosy/ Pharmacology) at 3rd floor of Nano Building**

A. Misc. Civil, Plumbing, Wooden, Painting work etc.	Rs. 49,68,293.00
B. Acid Resistant Waterproofing Work	Rs. 2,42,048.00

EARNEST MONEY:	Rs. 1,00,000.00	For - (A)
	Rs. 5,000.00	For - (B)

TENDER COST:	Rs. 2000 only	For - (A) (Non Refundable)
	Rs. 500 Only	For - (B) (Non Refundable)

TIME PERIOD:	45 Days for -	(A)
	15 Days for -	(B)

The Tender duly filled should be dropped in the Tender Box kept in Purchase Section, Admin Block on or before 01-08-2022 up to **3.00 PM** along with demand draft of earnest money & Tender fee in sealed envelope clearly specifying the name of work. The D.Ds shall be in favor of Jamia Hamdard payable at New Delhi. The technical bid shall be opened on 01-08-2022 at **3.30 PM** by the tender committee in presence of available interested parties.

Date & time for opening of Financial bid will be intimated later to the technically qualified bidders. Jamia Hamdard reserves the right to reject any or all tenders or split the tenders without assigning any reason.

Registrar

Copy to:

1. PS to Vice Chancellor
2. PA to Registrar
3. PA to FO
4. Dr. Sayeed Ahmad (PI and Coordinator), Centre of Excellence in Unani Medicine
5. Executive Engineer

1. Instructions to Tenderers

1.1 Scope of Work

Name of work - Development of Centre of Excellence under Unani Medicine at 3rd floor of Nano Building, Jamia Hamdard.

1.2 Eligibility Criteria for (A) - Misc. Civil, Plumbing, Wooden & Furniture, Painting and cleaning work etc.

1. Bidders/reputed contractors must be registered with Govt. Department such as CPWD, Railway, MES and Department of Telecommunication, Universities, Higher Education Institute and other central/State Govt. Departments. Bidders have to submit the up-to-date certified copy of the valid Registration Certificate, organizational setup, credentials, list of plant, machinery & tools in his possession along with tender. The original will have to be produced when demanded for verification.
2. Bidders should have executed similar nature of work of at least one contract of value of 80% of Estimated Cost or two contracts of similar nature of work of 60% of Estimated Cost or three contacts of similar natures of works of 40% of Estimated Cost in last 3 years in prestigious institutional buildings, Universities, and produce credentials in support thereof, Certificates of satisfactory completion of works must also be provided.
3. Average annual financial turn over should be at least Rs. 30 Lakhs each during the immediate last 3 consecutive financial year with certification from practicing Chartered Accountant.
4. The firm should have valid EPFO, ESI, and GSTIN registration.
5. Bankers certificate for credit worthiness/Solvency not less than Rs 20 lakhs.
6. Net Worth of the Company should not be less than Rs. 15 Lakhs
7. The contractor should submit IT Return acknowledgement for last three years ending 31st Mar, 2022.

1.3 Eligibility Criteria for (B) - Acid resistance Waterproofing Work

1. Bidders/reputed contractors must be registered with Govt. Department such as CPWD, Railway, MES and Department of Telecommunication, Universities, Higher Education Institute and other central/State Govt. Departments. Bidders have to submit the up-to-date certified copy of the valid Registration Certificate, organizational setup, credentials, list of plant,

machinery & tools in his possession along with tender. The original will have to be produced when demanded for verification.

2. Bidders should have executed similar Acid Resistant waterproofing work in lift wells and waste water wells etc. of at least one contract of value of 80% of Estimated Cost or two contracts of similar nature of work of 60% of Estimated Cost or three contracts of similar natures of works of 40% of Estimated Cost in last 3 years in prestigious institutional buildings, Universities, and produce credentials in support thereof, Certificates of satisfactory completion of works must also be provided.
3. Bidder must be specialized agency with at least 10 years of experience in waterproofing field.
4. The firm should have valid GSTIN registration.
5. Bidders should provide guarantee of at least 5 year for waterproofing work.

Note: - Tenders shall also be liable for rejection on any of the following grounds:

- a) Tenders submitted late.
- b) Tenders containing remarks uncalled for.
- c) Conditional tenders
- d) Tenders not submitted on prescribed Performa.
- e) Telegraphic tenders.
- f) Tender submitted without E.M.D. and Cost of tender document.

1.4 Documents to be submitted along with Technical Bids

- a. Copies of valid registration Certificate.
- b. Complete list of machinery and equipment and details of Technical Manpower along with supporting staff and in house Design capability duly signed and sealed on company's letter head.
- c. Copies of completion and Performance Certificates (duly attested) for similar scope of works issued by the officer of the client/Deptt. of the rank of Executive Engineer/equivalent or the Head of the Institution will have to be furnished along with the Technical Bid. The completion certificate must clearly indicate the following:
 - The date of completion of work with cost of completed work with letters of successful completion. Nature and scope of work, Time period of completion (attach client's list).
 - Similar work means Civil, Waterproofing, Wooden & Furniture work, Painting & Plumbing works etc.
 - The firms are advised to enclose attested copies of valid PAN, EPFO, ESI, and GSTIN.
- d. Earnest Money, **Rs. 1,00,000.00** to be submitted in the form of DD in

favour of Jamia Hamdard. (To be deposited by every bidder without any exemption)

- e. Tender Cost Rs. 2000 (non-refundable) in the form of DD in favour of Jamia Hamdard.
- f. Certificate for the company in house architect for the Planning, Designing and working drawing as per the site requirement and vetted by the Engineering Department before the start of the work.
- g. Company's financial performance documents (Audited balance sheet, and profit and loss statement.
- h. Copies of work orders for similar nature of work as specified above in last 3 years.
- i. Entire tender document duly signed & stamped by the bidder.
- j. Copies of IT return acknowledgement for last three years ending 31st Mar, 2022.
- k. All documents submitted by the bidder should be self-attested along with stamp.

1.5 Submission of Bids

1. **Submission of Tender:** Tenders should be submitted in two Parts i.e. "Technical bid" (Part-A) and "Price bid" (Part-B) in two separate sealed envelopes. Both the parts should be further put in a single sealed envelope super-scribing NIT No. & name of work, due date for opening, bidder's name & address. The tender duly filled in may be sent to above mentioned address either by post or hand delivered in the tender box kept in the Purchase Section, Admin Block. It should not be handed over to any employee of the Jamia Hamdard. No tender shall be accepted later than the time schedule specified in NIT.

Any clarifications/amendments/corrigenda etc., to NIT before last date of submission of bid will only be available on our website: www.jamiahamdard.edu. Therefore bidders are advised to keep visiting our website.

- a. **Technical Bid (Part-A)** shall contain all documents as stated in clause (1.3)

- b. **Price Bid (Part-B):**

In this bid, the bidder is required to quote his item rates in the BOQ attached in accordance with the scope of work, terms & conditions & technical specifications enclosed. **The rates/price quoted by contractor should be all inclusive i.e. should include all material cost, labour, services, plant/machinery/tools & tackles, ladders & scaffolding required for work, freight, Insurance, transport/cartage of materials/labour, insurance, Octroi, Govt. duties, levies, GST, Service tax, Sale tax etc. and all other expenses not specifically mentioned but reasonably implied.**

Nothing over and above these rates shall be payable to contractor. Further nothing extra in rates will be considered for any variations in tender quantities or due to any site difficulties. It is mandatory for bidder to quote all items rate as asked for in the BOQ/ PRICE schedule. Failure in not filling some item rates will lead to rejection of tender. The bidders should quote unconditional rates, neatly written without any overwriting and all pages should be duly signed & stamped.

Jamia Hamdard reserves the rights to increase or decrease the quantum of work during the execution of work and to accept/reject full/part proposals without assigning any reason thereof.

**APPLICATION FROM TENDERER
(Forwarding letter)**

From: M/s-----

To
The Executive Engineer
Jamia Hamdard
Hamdard Nagar
New Delhi –110062.

**Subject: - Development of Centre of Excellence under Unani Medicine at 3rd floor of
Nano Building**

Dear Sir,

With reference to the tenders invited by you for the above work, I / We do hereby offer to perform, provide execute & complete the above work in conformity with the drawings, items & conditions and specifications for the amount as shown in the Schedule attached hereto.

I / We have satisfied myself / ourselves to the location and conditions of the site & read the article of agreement conditions of contract & specification etc.

I / We understand that the works are to be completed within the specified period & fully understood that the time will be the essence of this contract.

I / We enclose herewith the Earnest Money by demand draft of Rs.
(Rupees) in favour of Jamia Hamdard, Hamdard Nagar, New Delhi-62, which amount is not to bear any interest, even if this tender is accepted in whole or in part thereof.

I / We hereby agree to abide by and fulfill all the terms and conditions of the tender, N.I.T etc. as far as possible, and if found default against the said condition thereof the Registrar Jamia Hamdard have the right to forfeit the sum of money mentioned in the conditions.

I / We agree that the said Executive Engineer Jamia Hamdard or his successors in office shall without prejudice or any other right or remedy be at liberty to forfeit the said Earnest Money absolutely, if we fail to commence the work as specified above. Otherwise he will retain the said earnest money towards security deposit mentioned in general conditions of the contract.

Name of the partner (s)

- 1.
- 2
- 3

Yours faithfully,

Signature of contractor with seal

Dated
Address

Annexure

Questionnaire

PARTICULARS TO BE FURNISHED

- 1) Name and full address of the of firm or company :-
- 1) Composition of the firm or company, i.e Whether Public or Private Limited Company or a partnership concern. (A true attested Copy of the partnership deed or affidavit to be needed for contract) :-
- 2) Whether enlisted with Government Department or Government Undertaking, if so, full details of enlistment. :-
- 3) Whether any construction work has been done Previous or is being done undertaking from any Private reputed company if so, intimate :-
 - a) Name of the company or Government Undertaking with full address. :-
 - b) Value of the work :-
 - c) Type of services rendered. :-

Signature of Contractor

Dated the -----2022

APPENDIX

Name of work	Development of Centre of Excellence under Unani Medicine at 3 rd floor of Nano Building
Date of commencement	After 07 days of receiving the award letter from the university
Date of completion	45 Days from the date of start
Period of honoring payment certificate	30 days after submitting the bill by site engineer based on joint measurement on completed items.
Retention Percentage	5% of the gross value of work as per conditions of contract subject to Rs. 10.0 Lac. (maximum)
Final completion certificate	To be issued by the Office of the Executive Engineer on actual completion of the project in all respect and handing over the possession to the satisfaction of the university's engineers & users.
Defect liability period	12 months after completion of entire work during defect liability period of 12 months the contractor will depute his staff for attending to all types of contraction defects included under their scope of contract and rectify the defects free of cost.
Liquidated damages	University will have the full power to impose penalty of Rs. 2000.00 per day of delay but not exceeding to 10% of total contract amount. This will be without reference to any actual loss or damages sustained.

Period of final measurement	Three months after the completion of the building and certified issued by the Engineering Deptt.
Release of security money	As per contract condition.
Deduction of taxes	All prevailing taxes as per government rules shall be deducted on the total gross amount of the bill at source.
Secured advance	65% of the value of non-perishable nature of materials at site, which are to be incorporated in the work, may be included in running bill
Shifting of existing services	like water supply lines, water storage tanks, manholes, drainage system, and other related services will be done by the contractor and the payment will be made as per actual work done at site based on the analysis of prevailing market rates with 15% C.P.+ overheads plus GST.

FORM OF AGREEMENT:

ARTICLES OF AGREEMENT made this ----- day of -----
Two Thousand Twenty One Between Jamia Hamdard incorporated under the Act and having its Head office at Hamdard Nagar, New Delhi (hereinafter referred to as the "Employer/Owner" which expression shall, unless excluded by or repugnant to the context, includes its successors and assigns) of the ONE PART and-----
----- of hereinafter referred to as the "Contractor", which expression shall, unless excluded by or repugnant to the context, include his successors and assign) of the OTHER PART.

WHEREAS the Employer intends to Develop of Centre of Excellence in Unani Medicine (Pharmacognosy/ Pharmacology) at 3rd floor of Nano Building, Hamdard Nagar, New Delhi (hereinafter referred to as the "project").

AND WHEREAS for the purpose of the said project, the Employer invited sealed tenders from experienced, resourceful and bonafide contractors vide his Notice Inviting Tender (No-----date-----)

WHEREAS the contractor submitted his Tender along with the Tender Documents containing General Notes, General condition of Contract, Special conditions, Technical Specifications, Schedule of Quantities etc. for the works, prepared with the assistance of the Consultants, (hereinafter collectively referred to as the "said conditions"), duly signed on each page as a token of his acceptance of the same, along with requisite Earnest Money Deposit of Rs. _____ (copy enclosed vide Annexure-I)

AND WHEREAS out of the Tenders received, the Tender of the Contractor was found to be most suitable for the project.

AND WHEREAS the Employer has accordingly issued the work order

(No. _____ dt. _____) to the Contractor subject to his furnishing the requisite Security Deposit (copy enclosed vide Annexure-II).

AND WHEREAS the Contractor has accepted the aforesaid work order vide his letter of acceptance No. _____ dt. _____ (copy enclosed vide Annexure-III) and has also deposited with the Employer as sum of Rs. _____ which with the Earnest Money of Rs. _____ previously deposited, in all Rs. _____, from the requisite Security Deposit @ 2% of the accepted Tender value of Rs. _____ AND WHEREAS the Employer has caused the specifications, schedule of quantities etc. and plans & drawings will be prepared by contractor's in-house Architect relating to the project at the work site at _____ to be vetted & issued to the Contractor by the Employer (Engineer in-charge of the Project).

Now, therefore it is hereby agreed to and between the parties as follows:

1. Contract Documents:

The following documents shall constitute the Contract Documents:

- a) This Articles of Agreement
- b) Tender submitted by the Contractor including the N.I.T. and the Tender Documents.
- c) All correspondence between Jamia Hamdard and the Contractor from the date of issue of N.I.T. and date of _____ issue of work order.
- d) Work order no. _____ dt. _____

e) Letter of Acceptance of the work order by the Contractor

2. In consideration of the payments to be made to the contractor as hereinafter provided the contractor shall upon and subject to the said conditions, execute and complete the contracted works shown upon the said Drawings etc. and such further detailed drawing as may be furnished to the contractor by the said Owner Employer described in the said Specifications and the said schedule of Quantities.

3. Notwithstanding what are stated in the N.I.T. conditions of Tendering Conditions of Contract and herein before stated the Employer reserves to itself the right of altering the drawings and nature of the work and of addition to or omitting any items of work or of having portions of the same carried out departmentally or otherwise and such alteration or variations shall be carried out without prejudice to this contract.

4. As mentioned in Article I above, the said conditions shall be read and be treated as forming part of this Agreement and be here to will respectively be bound thereby and to abide by and submit themselves to the conditions and stipulations' and perform the same on their parts to be respectively observed and preferred.

5. Any dispute arising under this Agreement shall be referred to the Arbitration in a manner specified in the General conditions of Contract and all legal disputes shall limited within the territorial jurisdiction of the High Court of New Delhi the district court thereof at New Delhi. The decision of the arbitration shall be final and binding on both the parties.

IT WITNESS WHEREOF THE PARTIES to these present have hereunto set and subscribed their hand the day, month and year first above written.

Signed and delivered for and On behalf of Jamia Hamdard by

Shri _____

Its duly authorized official
In the presence of- _____

1. (Name & Address) _____

2. (Name & Address) _____

Signed and delivered for and
On behalf of the contractor
_____ by

Sri _____
His duly authorized official _____

1. (Name & Address) _____

2. (Name & Address) _____

General Conditions of Contract:

Except where provided for in the description of the individual items in the schedule of quantities and in the specifications and the conditions laid down hereinafter and in the Drawings, the work shall be carried out as per standard specifications and under the direction of University/Employer & Architect.

1. INTERPRETATION

In construing these conditions, the specifications, the schedule of quantities, tender and Agreement, the following words shall have the meaning herein assigned to them except where the subject or context otherwise requires:

- i) University/Employer: The term University/Employer shall denote Jamia Hamdard, Hamdard Nagar, New Delhi and any of its employee (concerned Engineer-In-Charge) representative authorized on their behalf.
- ii) Contractor: The terms contractor shall mean _____ and his/their heirs, legal representatives, assigns and successors.
- iii) Site: The site shall mean the site where the works are to be executed as shown within boundary in red border on the site plan including any building and erections thereon allotted by the Employer for the contractor's use.
- iv) Drawings: The work is to be carried out in accordance with drawings, specifications, the schedule of quantities and any further drawings which may be supplied or any other instruction, which may be given by the Employer during the execution of the work. All drawing relating work with a copy of schedule of quantities are to be kept at site and University/concerned Engineer-In-Charge shall be given access to such drawings or schedule of quantities whenever necessary.

In case of any Detailed Drawings are necessary contractor shall prepare such detailed drawings and /or dimensional sketches there for and have it confirmed by the concerned Engineer-In-Charge prior to taking up such work.

The contractor shall ask in writing for all clarifications on matters occurring anywhere in drawings, specification and schedule of quantities or to additional instructions at least 10 days ahead from the time when it is required for implementation so that the University/Engineer-In-Charge may be able to give decision thereon.

- vi) The "Works" shall mean the work or works to be executed or done under this contract.

- v) “Act of Insolvency” shall mean any act as such as defined by the presidency Town Insolvency Act or in Provincial Insolvency Act or any amending status.
- vii) “The Schedule of quantities” shall mean the schedule of quantities as specified and forming part of this contract.
- viii) “Priced Schedule of Quantities” shall mean the schedule of quantities duly priced with the accepted quoted rates.
- ix) “Notice in writing” or “Written notice” shall mean a notice written, typed or in printed character sent (unless delivered personally or otherwise proved to have been received) by registered post to the last known private or business address or registered office address and shall be deemed to have been received when in the ordinary course of post it would have been delivered.

2. SCOPE

The work consists of Development of Centre of Excellence under Unani Medicine at 3rd floor of Nano Building, Jamia Hamdard, New Delhi-62 in accordance with the "drawings" and "schedule of Quantities". The Civil work, Wood work, Waterproofing work, Painting work, Sanitary & Plumbing works, etc. are within the scope of this tender. It includes furnishing all materials, labour, tools and equipment and management necessary for the incidental to the construction and completion of the work. All work, during its progress and upon completion, shall conform to the lines, elevations and grades as shown on the drawings furnished by the Contractor's in-house Architect. Should any detail essential for efficient completion of the work be omitted from the drawings and specifications it shall be the responsibility of the contractor to inform the University and to furnish and install such detail with University concurrence, so that upon completion of the proposed work the same will be acceptable and ready for use.

University may in their absolute discretion issue further drawing and /or written instructions, details, directions and explanations, which are, hereafter collectively referred to as "The "University's instruction" in regard to:

- a) The variation or modification of the design quality or quantity of works or the addition or omission or substitution of any work.
- b) Any discrepancy in the drawing or between the schedule of quantities and /or drawings and /or specification.
- c) The removal from the site of any defective material brought thereon by the contractor and the substitution of any other material thereof.

- d) The demolition removal and/or re-execution of any work executed by the contractor/s
- e) The dismissal from the work of any persons employed thereupon.
- f) The opening up for inspection of any work covered up.
- g) The rectification and making good of any defect under clauses hereinafter mentioned and those rising during the maintenance period (retention period).

The contractor shall forthwith comply with and duly execute any work comprised in such University's instructions, provided always that verbal instructions, direction and explanations given to the contractor or his representative upon the works by the University shall if involving a variation be confirmed in writing to the contractor/s within seven days. No work, for which rates are not specifically mentioned in the priced schedule of quantities, shall be taken up without verifying and vetted by the Engineer in-charge of the Project subsequently approved by the University. Rates of items not mentioned in the priced schedule of quantities shall be fixed by the University as provided in Clause "variation".

The contractor shall set up a field laboratory with necessary equipments for day to day testing of materials like grading of coarse and fine aggregates, silt content and bulkage of sand crushing strength of concrete etc.

Regarding all factory made products for which ISI marked products are available, only products bearing ISI marking with due approval of the concerned Engineer-In-Charge shall be used in the work. Other products should be supplied as per the brand name mentioned in the Technical specifications.

3. DETAILED DRAWING AND INSTRUCTIONS

The Contractor through its in-house Architect shall furnish with reasonable promptness additional instructions by means of drawings or otherwise necessary for the proper execution of the work. All such drawing and instructions shall be consistent with the Contract Documents, true developments thereof and reasonably inferable there from.

The work shall be executed in conformity therewith and the contractor shall not work without proper drawing and instructions.

Immediately after receipt of the work order of the contract the contractor shall prepare a progress schedule (Bar Chart) and submit the same to the University through the Architect for approval which shall indicate the dates for the starting and completion of the various stages of construction.

4. OWNERSHIP OF DRAWING

All drawings, specification and copies thereof furnished by the Contractor through its in-house Architect are the property of the University. They are not to be used on other work and with the exception of the signed contract set, are to be returned to the University at the completion of the work.

5. ROYALTIES & PATENTS

The contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall save the University harmless from loss on account thereof.

6. INSPECTION OF WORK

The proposed work covered under this, during its progress can also be inspected by the Competent Authority of the University/Executive Engineer.

7. SUPERINTENDENCE SUPERVISION

The Contractor shall give all necessary personal Superintendence during the execution of the work and this obligation and liability will continue until expiration of the maintenance period (Retention Period). The contractor shall also during the whole time of work when in progress employ a competent authorized representative who shall be constantly in attention at the site while his competent team is at work. Any directions, explanations, instructions or notices given by the University to such representative shall be deemed to have been given and duly served on the contractor.

8. CHANGES IN THE WORK

No alteration, omission or variation shall vitiate this contract excepting in case the University thinks proper at any time during the progress of the works to make any alteration in the kind or quality of the materials to be used there in and shall give notice thereof in writing under his hand to the contractor, the contractor shall alter, add to or omit from, as the case may require in accordance with such notice but the contractor at his own cost shall not do any work extra to or make any alterations or additions to or omission from the works or any deviations from any of the provisions of the contract, stipulation, specifications or contract drawings without the previous consent in writing of the University and the value of such alterations, additions or omissions shall, in that case be final and binding as approved by the University

9. SCHEDULE OF QUANTITIES

The schedule of Quantities/Rates unless otherwise stated shall be deemed to have been prepared in accordance with the Method of measurements of work under Clause No. 11. Any error in description or in quantity or in omission of items from the schedule of quantities/rates shall not vitiate this contract but shall be added to or deducted from the contract amount as the case may be. The contractor shall be deemed to have satisfied himself before tendering for the work and of the prices stated in the Schedule of Quantities and /or the Schedule of Rates and prices, which rate and prices shall cover all his obligations under the contract, and all matters and things necessary for the proper completion of the work.

10. MEASUREMENT OF WORKS

The Engineers of the University shall from time to time intimate to the contractor that he requires the works to be measured, and the contractor shall forthwith attend or send a Qualified representative to assist the concerned Engineer-In-Charge of the University in taking such measurement and calculations and to furnish all particulars or to give all assistance required by either of them.

Should the contractor not attend or neglect or omit to send such representative then the joint measurement taken by the concerned Engineers of the University or a representative approved by him shall be "taken to be the correct Measurement of the works, such measurement shall be net quantities for the work produced.

The contractor or his Representatives may at the time of measurement take such notes and measurements as he may require All authorized extra works, omissions and all variations made without the Architect's knowledge, if subsequently sanctioned by him in writing, with the approval of the University shall be included in such measurements. The final measurement should be done within three months from the date of completion of work jointly by the representative of the contractor, concerned Engineers of the University. If the contractor fails to comply, the measurements taken by the concerned Engineers will be final.

11. Nominated sub-Contractor

All specialists, Merchants, Tradesman and others executing any work or supply and fixing any goods for which prime cost prices or provisional sums are included in the schedule of Quantities/Rates and/or specification who may be

nominated or selected by the University are hereby declared to be sub-contractors employed by the Contractor and are herein referred to as nominated sub-contractors.

No nominated sub-contractor shall be employed on or in connection with the works against whom the contractor shall make reasonable objection or save where the University and Contractor shall otherwise agree who will not enter into a contract providing:

- a) That the nominated sub-contractor shall indemnify the contractor against the same obligations in respect of the sub-contract as the contractor is under in respect of this contract.
- b) That the nominated sub-contractor shall indemnify the contractor against claims in respect of any negligence by the sub-contractor, his servants or representatives or any misuse by him or them of any scaffolding or other plants the property of the contractor or under any workmen's compensation Act in force.
- c) Payment shall be made to the nominated sub-contractor by the contractor within seven days of his receipt of the University Engineer certificate provided that before any certificate is issued the contractor shall upon request furnish to the Engineer in-charge proof that all nominated sub-contractor's accounts included in previous certification have been duly discharged, in default where of the owner may pay the same upon certificate of the Engineer in-charge and deduct the amount thereof from any sums due to the contractor. The exercise of this power shall not create privities of contract between the University and the "sub-contractor.

12. Failure by Contractors to comply with University's Engineer in-charge of the Project Instructions

If the contractor after receipt of written notice from the University and requiring compliance within ten days fails to comply with such further drawings and/or University's instructions, the University or other person, may employ other person to execute and such work whatsoever that may be necessary to give effect thereto and pay all cost incurred in connection herewith and same shall be recoverable from the contractor by the University on the certificate of the Engineer in-charge of the Project as a debt or shall have right to deduct same any moneys due or to become due to the contractor.

13. TENDERER SHALL VISIT THE SITE

Intending tenderer shall visit the site and make himself thoroughly acquainted with the local site condition, nature and requirements of the works, facilities of transport condition, effective labour and materials, access and storage for materials and removal of rubbish. The tenderer shall provide in their tender for cost of carriage, freight and other charges as also for any special difficulties and including police restriction for transport etc. for proper execution of work as indicated in the drawings. The successful tenderer will not be entitled to any claim of compensation for difficulties faced or losses incurred on account of any site condition which existed before the commencement of the work or which in the opinion of the University might be deemed to have reasonably been inferred to be so existing before commencement of work.

14. TENDERS

The entire set of tender paper issued to the tenderer should be submitted fully priced and also signed on the last page together with initials on every page. Initial/signature will indicate the acceptance of the tender paper by the tenderer.

Special care should be taken to write the rates in figures as well as in words and the amounts in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the words 'P' after the decimal figures, e.g. Rs. 2.15 "P" and in case of words the word 'Paise' should be written at the end, unless the rate is in whole rupee and followed by the words only it should invariably be up to two decimal places; while quoting the rate is in schedule of quantities, the word only should be written closely following the amount and it should not be written in the next line. The schedule of quantities shall be filled in as follows:

- i) The 'Rate' column to be legibly filled in ink in both English figures and English words.
- ii) Amount column to be filled in for each item and the amount for each sub head as detailed in the "Schedule of Quantities".
- iii) All corrections are to be initialed.
- iv) The 'Rate Column' for alternative items shall be filled up.
- v) The 'Amount' column for alternative items of which the quantities are not mentioned shall not be filled up.
- vi) In case of any errors/omissions in the quoted rates, the rates quoted in words in the tender marked 'original' shall be taken as correct rates.

No modifications, writings or corrections can be made in the tender papers

by the tenderer, but may at his option offer comments or modifications in a separate sheet of paper attached to the original tender papers.

The University reserves the right to accept or reject the lowest or any tender without assigning any reason.

The tenders should note that tender is strictly on the item rate basis and their attention is drawn to the fact that the rates for each and every item should be correct workable and self-supporting. If called upon by the detailed analysis of any or all the rates shall be submitted. The University shall not be bound to recognize the contractor's analysis.

The work will be paid for as "measured work" on the basis of actual work done and not as "lump sum" contract.

All times of work described in the schedule of quantities are to be deemed and paid as complete works in all respects and details including preparatory and finishing works involved, directly, related to and reasonably detectable from the drawings, specifications and schedule of quantities and no further extra charges will be allowed in this connection. In the case of lump sum charges in the tender in respect of any item of works, the payment of such items of work will be made for the actual work done on the basis of lump sum charges as will be assessed to be payable by the University.

The University has power to add or omit from any work as shown in drawings or described in specifications or included in schedule of quantities and intimate the same in writing but no addition, omission or variation shall be made by the contractor without authorizations from the University. No variation shall vitiate the contract.

The tenderer shall note that his tender shall remain open for consideration for a period of four months from the date of opening of the tender.

15. TIME AND PROGRESS CHART

The contractor shall submit a time and progress chart in a form approved by the University within fifteen days from the date of issue of work order. The chart shall conform to the dates of commencement and completion. The actual progress as compared to this chart will be reviewed and scrutinized periodically by the Engineers of the University. The chart shall be updated monthly based on the progress made on the work.

16. PERMITS AND LICENCES

Permits and license for release of materials which are under Government

control will be arranged by the Contractor. The University will render necessary assistance, sign any forms or applications that may be necessary.

17. QUANTITY OF WORK TO BE EXECUTED

The quantities shown in the schedule of quantities are intended to cover the entire Renovation & Modification of the existing structure indicate in the drawings but the University reserves the right to execute only a part or the whole or any excess thereof without assigning any reason therefore.

18. OTHER PERSONS ENGAGED BY THE UNIVERSITY

The University reserves the right to execute any part of the work included in this contract or any work which is not included in this contract by other Agency or persons and contractor shall allow all reasonable facilities and use of his scaffolding for the execution of such work. The main contractor shall extend all co-operations in this regard.

19. EARNEST MONEY AND SECURITY DEPOSIT

The tenderer will have to deposit an amount of **Rs. 100,000.00** in the form of Bank Draft drawn in favour of Jamia Hamdard at the time of submission of tender as an Earnest Money. The Earnest Money of the unsuccessful tenderers will be refunded without any interest soon after the decision to award the work is taken or after the expiry of the validity period of tender.

The selected Tender, to whom the contract will be awarded, will have to deposit a total amount including earnest money calculated @ 2% of the value of accepted tender as initial security deposit. The security deposit will have to be made within seven days after the acceptance of his tender. The security Deposit will be acceptable in the form of Bank Guarantee in favour of Jamia Hamdard in the suitable format which should remain valid up to the completion of the project in all respect.

Failure to deposit the Initial Security Deposit as aforesaid within the specified time, the University at his discretion may revoke the letter of acceptance and forfeit the Earnest Money deposit furnished along with the tender.

Apart from 2% initial security deposit made as above, to constitute 5% (five percent) retention Money on the value of the work, the amount over the above 2% security money already deposited shall be acceptable in the form of Bank Guarantee in favour of Jamia Hamdard in the suitable format which

should remain valid up to the period/s as necessary.

The entire security deposit (including earnest money furnished with the tender), Bank Guarantee at the time of executing agreement and Bank Guarantee subsequently deposited to constitute 5% security deposit shall be held till the work is completed in all respect to the full satisfaction of the University's Engineer in-charge of the Project: 50% of the above deposit will be released-after virtual completion of work and certification of the final bill and the balance after the expiry of the defect liability period.

The University shall not pay interest on either the Earnest Money or the security Deposit.

All compensation or other sums of money payable by the contractor to Jamia Hamdard under the terms of this contract or arising out of statutory obligation may be deducted from, or paid by the sale of a sufficient part of his security deposit or from any sums which may be due or any become due to the contractor by the Jamia Hamdard of any account whatsoever, and in the event of his security deposit, being deducted by reason of any such deduction or sale as aforesaid the contractor shall within seven days thereafter make good in Bank Draft endorsed as aforesaid any sum or sums which may have been deducted from or raised by sale of his security deposit or any part thereof.

20. CONTRACTOR TO PROVIDE EVERYTHING NECESSARY

The contractor shall provide everything necessary for the proper execution of the work according to the intent and meaning of the drawings, schedule of quantities and specification taken together whether the same may or may not be particularly shown or described therein provided that the same - can reasonably be inferred there from and if the contractor finds and discrepancies therein he shall immediately and in writing, refer the same to the University whose decision shall be final and binding. The contractor shall provide himself for ground and fresh water for carrying out of the works at his own cost. The University shall on no account be responsible for the expense incurred by the contractor for hired ground or fresh water obtained from elsewhere.

The contractor will bring a three phase suitable rated sealed Energy Meter and cable for the connection of power supply to the site/work, before start of work. The cable will be connected through nearby substation/panel. Periodic bills against the actual consumed electrical energy at site will be generated by the Electrical Engineering Deptt. of Jamia Hamdard and the same will either be deducted from

the running bill of the contractor or the contractor may deposit the billed amount in the Finance Section of Jamia Hamdard directly after receive of bill from the department.

The rates quoted against individual items will be inclusive of everything necessary to complete the said items of work within the contemplation of the contract, and beyond the unit price no extra payment will be allowed for incidental or contingent work, labour and/or material inclusive of all taxes and duties whatsoever except for specific items, if any, stipulated in the tender documents.

The contractor shall supply, fix and maintain at his own costs, for the execution of any work, all tools, tackles, machineries and equipments and all the necessary centering, shuttering, scaffolding, staging, planking, timbering, strutting, shoring, pumping, fencing, boarding, watching and lighting by night as well as by day required not only for the proper execution and protection of the public and safety of any adjacent roads, streets, walls, houses, buildings, all other erections, matters and thing and the contractor shall take down the remove any or all such centering, scaffolding, planking, timbering, structuring, shoring, etc. as occasion shall be required or when ordered so to do and shall fully reinstate and make good all matters and things disturbed during the execution of works to the satisfaction of the University.

The contractor shall also provide such temporary road on the site as may be necessary for the proper performance of the contract and for his own convenience but not otherwise. Upon completion, such roads shall be broken up and leveled where so required by the drawings unless the University shall otherwise direct.

The contractor shall at all times give access to workers employed by the University or any men employed on the building and to provide such parties with proper sufficient and if required, special scaffolding, hoists and ladders and provide them with water and lighting and leave or make any holes, grooves etc. in any work, where directed by the University as may be required to enable such workmen to lay or fix pipes, electrical wiring, special fittings etc. The quoted rates of the tenderers shall accordingly include all these above mentioned contingent works.

21. TIME OF COMPLETION/EXTENSION OF TIME & PROGRESS CHART

- i) **Time of Completion:** The entire work is to be completed in all respect within the stipulated period. The work shall deem to be commenced within seven days from the date of acceptance letter or date of handing over of site,

whichever is earlier. Time is the essence of the contract and shall be strictly observed by the contractor.

The work shall not be considered as complete until the concerned Engineers of the University have certified in writing that this has been completed and the Defects Liability period shall commence from the date of such certificate.

- ii) **Extension of Time:** If in the opinion of the concerned Engineer-In-Charge of the University the works be delayed (a) by reason of any exceptionally inclement weather/calamities, or (b) by reason of instructions from the University in consequence of proceedings taken or threatened by or disputes, with adjoining or neighboring owners or (c) by the works, or delay of other contractors or tradesmen engaged or nominated by the University and not referred to in the specification or (d) by reason of authorized extra and additions or (e) by reason of any combination of workmen or strikes or lock-down affecting any of the building or trades or (f) from other causes which the University may consider are beyond the control of the contractor, the University at the completion of the time allowed for the contract shall make fair and reasonable extension of time for completion in respect therefore. In the event of the University failing to give possession of the site upon the day specified above the time of completion shall be extended suitably.

In case of such strikes or lock-downs, as are referred to above, the contractor shall, immediately give the University, written notice thereof. Nevertheless, the contractor shall use his best endeavors to prevent delay and shall do all that may be reasonably required, to the satisfaction of the University to proceed with the works and on his doing so that it will be ground of consideration by the University for an extension of time as above provided. The decision of the University as to the period to be allowed for an extension of time for completion hereunder (which decision shall be final and binding on the contractor) shall be promulgated at the conclusion of such strike or lock-down and the University shall then, in the event of an extension being granted, determine and declare the final completion date.

- iii) **Progress of work:** During the period of construction the contractor shall maintain proportionate progress on the basis of a program chart submitted by the contractor immediately before commencement of work and agreed to by the University. Contractor should also include planning for procurement of scarce material well in advance and reflect the same in the program chart

so that there is no delay in completion of the project.

22. TOOLS, STORAGE OF MATERIALS, PROTECTIVE WORKS AND SITE OFFICE REQUIREMENTS

The contractor shall provide, fix up and maintain in an approved position proper office accommodation for the contractor's representative and staff which office shall be open at all reasonable hours to receive instruction notices or communications and clear away on completion of the works and make good all work disturbed.

All drawings maintained on the site are to be carefully mounted on boards of appropriate size and covered with a coat of approved varnish. They are to be protected from ravages of termites, ants, and other insects. The contractor shall provide at his own cost all artificial light required for the work and to enable other contractors and sub-contractors to complete the work within the specified time.

The contractor shall arrange for temporary latrines for the use of workers and field staff and keep the same in a clean and sanitary condition to the satisfaction of the Public Health Authorities and shall cause such latrines and soil to be cleared away whenever necessary and shall make good all the works disturbed by these conveniences. Every precaution shall be taken by the contractor to prevent the breeding of mosquitoes during the construction in all respect at construction site, cistern, water tanks etc. The contractor shall indemnify the University against any breach of rules in respect of anti-material measures.

The contractor shall not fix or place any placards or advertisement of any description or permit the same to be fixed or placed or upon any boarding gantry, building structures other than those approved by the University.

Protective Measure: The contractor from time to time of being placed in possession of the site must make suitable arrangements for watching, lighting and protecting the work, the site and surrounding property by day & night, on Sundays and other holidays.

Contractor shall indemnify the University against any possible damage to the building, roads or members of the public in course of execution of the work.

The contractor shall provide necessary temporary enclosures, gates, entrances etc for the protection of the work and materials and for altering and adopting the same as may be required and removing on completion of the works and making good all works disturbed.

Storage of Materials: The contractor shall provide and maintain proper sheds for the proper storage and adequate protection of materials etc and other

work that may be executed on the site including the tools and materials of nominated sub-contractors and remove same on completion, sheds for storage of cement are to have pucca floor raised above the ground.

Tools: Theodolite, levels, prismatic compass, chain, steel and metallic tapes and all other surveying instruments found necessary on the works shall be provided by the contractor for the due performance of this contract as instructed by the Site Engineer/concerned Engineer-In-Charge.

All measuring tapes shall be of steel and suitable scaffolding and ladders that may be required for safely taking measurement and shall be supplied by the contractor.

The masons and the supervisors on the works shall carry with them. always a one meter or two meter steel tape, a measuring tape of 30 meters, a spirit-level, a plump bob, a square and shall check the work to see that the work is being done according to the drawing and specifications. The site engineer will use any or all measurement instruments or tools belonging to the contractors as he chooses for checking the executed or being executed on the contract.

The contractor should cover in his rates for making provisions for all reasonable facilities for the use of his scaffolding, tools and plant etc by nominated sub-contractors for their work.

23. NOTICE AND PATENTS OF APPROPRIATE AUTHORITY AND UNIVERSITY

The contractor shall conform to the provisions of any Acts of the Legislature relating to the work, and to the Regulation and Bye-laws if any authorities, and/or any water, lighting and other companies, and/or authorities with whose systems the structures were proposed to have connection and shall before making any variations from the drawings or specification that may be associated to so conform, give the University written notices specifying the variations proposed to be made and the reasons for making them and apply for instruction thereon. The University on receipt of such intimation shall give a decision within a reasonable time.

The contractor shall arrange to give all notices required for by the said Acts. Regulations or Bye-laws to be given to any authority and to pay to such authority or to any public officer all fees that may be properly chargeable in respect of the work and lodge the receipts with the University.

The contractor shall indemnify the University against all claims in respect of patent rights, royalties, damages to buildings, roads or members of public in course of execution of work and shall defend all actions arising from such claims and shall

keep the University saved harmless and indemnified in all respect from such action, costs and expenses.

25. CLEARING SITE AND SETTING OUT WORKS

The site shown on the plan shall be cleared of all obstructions, loose stone, and materials rubbish of all kinds. All holes or hollows whether originally existing or produced by removal or loose stone or materials shall be carefully filled up with earth well rammed and leveled off as directed at his own cost.

The contractor shall set out the works and shall be responsible for the true and perfect setting out of the work and for the correctness of the positions, levels, dimensions and alignment of all parts thereof. If at any time, any error shall appear during the progress of any part of the work irrespective of the fact that the layout had been approved by the University; the contractor shall at his own expenses rectify such error, if called upon to the satisfaction of the University. The contractor shall further set out the works to the alternative position at the site until one is finally approved and the rates quoted in his tender should include for this and no extra charge on this account will be entertained.

25. CONTRACTOR IMMEDIATELY TO REMOVAL ALL OFFENSIVE MATTERS

All soil, filth or other matters of any offensive nature taken out of any trench, sewer, drain, cesspool or other place shall not be deposited on the surface but shall be at once carted away by the contractor to place provided by him.

The contractor shall keep the works free from water and shall provide and maintain at his own expenses electrically or other power driven pumps and other plants to the satisfaction of the University for the purpose, until the building is handed over to the University. The contractor shall arrange for the disposal of the water so accumulated to the satisfaction of the University and local authority and no claims will be entertained afterwards if he does not include in his rates for the purpose.

26. ACCESS

Any authorized representative of the University shall at all reasonable times have free access to the works and/or to the workshops, factories or other places where materials are being prepared or constructed for the work and also to any place where the materials are lying or from where they are being obtained, and the contractor shall give every facility to the University or their representatives

necessary for inspection and examination and test of the materials and workmanship. Except the representatives of the University, no person shall be allowed at any time without the written permission of the University/authorized representative of the University.

27. MATERIALS, WORKMANSHIP, SAMPLES, TESTING OF MATERIALS

All the works specified and provided in the specifications or which may be required to be done in order to perform and complete any part thereof shall be executed in the best and most workmanlike manner with materials of the best and approved quality of the respective kinds in accordance with the particulars contained in and implied by the specifications and as represented by the drawings or according to such other additional particulars and instructions as may from time be given by the University during the execution of the work, and to his entire satisfaction.

If required by the University the contractor shall have to carry out tests on materials and workmanship in approved materials testing laboratories or as prescribed by the University at his own cost to prove that the materials etc. under test conform to the relevant I.S. Standards or as specified in the specifications. The necessary charges for preparation of mould (in case of concrete cube) transporting, testing etc. shall have to be borne by the contractor. No extra payment on this account should in any case be entertained. All the materials (except where otherwise described) stores and equipment required for the full performance of the work under the contract must be provided through GST and other charges and must be the best of their kind available and the contractor must be entirely responsible for the proper and efficient carrying out of the work. The work must be done in the best workmanlike manner. Samples of all materials to be used must be submitted to the University when so directed by the University and written approval from University must be obtained prior to placement of order.

During the inclement weather the contractor shall suspend concreting and plastering for such time as the University may direct and shall protect from injury all work when in course of execution. Any damage (during constructions) to any part of the work for any reasons due to rain, storm, or neglect of contractor shall be rectified by the contractor in an approved manner at no extra cost.

Should the work be suspended by reason of rain, strike, lockouts or any other cause, the contractor shall take all precautions necessary for the protection of work and at his expenses shall make good any damage arising from any of these

causes.

The contractor shall cover up and protect from damage, from any cause, all new work and supply all temporary/doors, protection to windows, and any other requisite protection for the execution of the work whether by himself or special tradesmen or nominated sub-contractor and any damage caused must be made good by the contractor at his own expenses.

28. REMOVAL OF IMPROPER WORK

The University shall during the progress of the work have power to order in writing from time to time the removal from the work within such reasonable time to times as may be specified in the order of any materials which in the opinion of the University are not in accordance with specification or instructions, the substitution or proper re-execution of any work executed with materials or workmanship, not in accordance with the drawings and specifications or instructions. In case the contractor refuses to comply with the order, the University shall have the power to employ and pay other agencies to work and all expenses consequent thereon or incidental thereto as certified by the University shall be borne by the contractor or may be deducted from any money due to or that may become due to the contractor. No certificate which may be given by the Architect shall relieve the contractor from his liability in respect of unsound work or bad materials.

29. SITE ENGINEER

The term "Site Engineer" shall mean the person appointed and paid by the University to supervise the work and taking the measurements of work done. The contractor shall afford the site Engineers' every facility and assistance for examining the works and materials and for checking work and materials. The site Engineer shall have no power to revoke, alter, enlarge or relax any requirements of the contractor or to sanction any day work, additions, alternations, deviations or omissions or any extra work whatever, except in so far as such authority may be specially conferred by a written order of the University.

The Site Engineer shall have power to give notice to the contractor or his foreman, of non-approval of any work or materials and such work shall be suspended or the use of such materials shall be discontinued until the decision of the University is obtained. The work will from time to time be examined by the concerned Engineer-In-Charge from the University and the site Engineer. But such examination shall not in any way exonerate the contractor from the obligation to

remedy any defects which may be found to exist at any stage of the work or after the same is complete. Subject to the limitations of this clause the contractor shall take instructions only from the Architect concerned Engineer-In-Charge.

30. OFFICE ACCOMMODATION FOR THE SITE ENGINEER

The contractor shall provide, erect and maintain at his cost a separate simple watertight office accommodation for the site Engineers. This accommodation shall be well lighted and ventilated and provided with windows, door with a lock. The site Engineer's office shall be a minimum of 250 sq. ft. and the contractor shall provide a desk, chairs, drawers for keeping drawings, a cupboard having proper lock and a backboard for displaying drawings. The accommodation shall be demolished when directed.

31. Contractor's Employees

The contractor shall employ technically qualified and competent supervisors for the work who shall be available (by run) throughout the working hours to receive and comply with instructions of the concerned Engineer-In-Charge/University authority. The contractor shall engage at least one experienced Engineer as Site in-charge for execution of the work. The contractor shall employ in connection with the work persons having the appropriate skill or ability to perform their job efficiently.

The contractor shall employ local labour on the work as far as possible. No labour below the age of sixteen years, and who is not an Indian National, shall be employed on the work. Any labour supplied by the contractor to be engaged on the work on day work basis either wholly or partly under the direct order or control of the University or his representative shall be deemed to be a person employed by the contractor.

The contractor shall comply with the provisions of all labour legislation including the requirements of:

- a) The payment of Wages Act
- b) Employer's Liability Act
- c) Workmen's Compensation Act
- d) Contract Labour (Regulation & Abolition) Act, 1970 and Central Rules 1971.
- e) Apprentices Act 1961.
- f) Any other Act or enactment relating thereto and rules framed there from time to time.

The contractor shall keep the University saved harmless and indemnified against claims if any of the workmen and all costs and expenses as may be incurred by the University in connection with any claim that may be made by any workmen.

The contractor shall comply at his own cost with the order of requirement of any Health Officer of the state or any local authority or of the University regarding the maintenance of proper environmental sanitation of the area where the contractor's labour are housed or accommodated (if University permits for), for the prevention of small pox, cholera plague, typhoid, malaria and other contagious diseases. The contractor shall provide, maintain and keep in good sanitary condition adequate sanitary accommodation and provide facilities for pure drinking water at all times for the use of men engaged on the works and shall remove and clear away the same on completion of the works. Adequate precautions shall be taken by the contractor to prevent nuisance of any kind on the works or the land adjoining the same.

The contractor shall arrange to provide first-aid treatment to the labour engaged on the works. He shall within 24 hours of the occurrence of any accident at or about the site or in connection with execution of the works, reports such accident to the University and also to the competent authority where such report is required by law.

32. DISMISSAL OF WORKMEN

The contractor shall on the request of the University immediately dismiss from works any person employed thereon by him, who may in the opinion of the University be unsuitable or incompetent or who may misconduct himself. Such discharges shall not be the basis of any claim for compensation, or damages against the University or any of their officer or employee.

33. ASSIGNMENT

The whole of the works included in the contract shall be executed by the contractor and the contractor shall not directly or indirectly transfer, assign or underlet the contractor any part, share or interest therein nor, shall take a new partner, without written consent of the University and no subletting shall relieve the contract from the full and entire responsibility of the contract or from active superintendence of the work during their progress.

34. Damage to persons and Property Insurance etc.

The contractor shall be responsible for all injury to the work or workmen to

persons, animals or things and for all damages to the structural and/or decorative part of the property which may arise from the operations or neglect of himself of any sub-contractor or of any of his or a subcontractor's employees, whether such injury or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this contract. The clause shall be held to include inter-alia, any damage to buildings whether immediately adjacent or otherwise, and any damage to roads, streets, foot paths or ways as well as damages' caused to the building and the works forming the subject of this contract by rain, wind or other inclemency of the weather. The contractor shall indemnify the University and hold harmless in respect of all and any expenses arising from any such injury or damages to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any acts of compensation or damages consequent upon such claim. The contractor shall reinstate all damage of every sort mentioned in this clause, so as deliver the whole of the contract works complete and perfect in every respect and so as to make good or otherwise satisfy all claims for damages to the property or third parties.

The contractor shall effect the insurance necessary and indemnify the University entirely from all responsibility in this respect. The insurance must be placed with a company approved by the University and must be effected jointly in the name of the contractor and the University (the name of the latter being placed first in the policy i. e. Jamia Hamdard.

A/C _____

Contractor's Name

and the policy pledged with the latter. The scope of insurance is to include damage or loss to the contract itself till this is made over in a complete state. Insurance is compulsory and must be effected from the very initial stage. The contractor shall also be responsible for anything which may be excluded from damage to any property arising out of incidents, negligence or defective carrying out of this contract i.e. the contractors. All risk Insurance shall have an extension for covering cross liability arising, if any, during execution of work relating to Air Conditioning, Electrification, Erection of Lift, Space Platform etc.

The University shall be at liberty and is hereby empowered to deduct the amount of any damages, compensations, costs, charges and expenses arising or accruing from or in respect of any such claim or damages from any sums due or to become due to the contractor.

35. INSURANCE

Unless otherwise instructed the contractor shall insure the works and keep them insured until the virtual completion of the contract against loss or damage by fire and/or earthquake, flood. The insurance must be placed with a company approved by the University in the joint names of the University and the contractor for such amount and for any further sum if called to do so by the University, the premium of such further sum being allowed to the contractor as an authorized extra.

The contractor shall deposit the policy and receipt for premium paid with the University within 21 (twenty one) days from the date of issue of work order unless otherwise instructed. In default of the contractor insuring as provided above, the University on his behalf may so insure and may deduct the premiums paid from any money due, or which may become due to the claim under the policy is settled or the work reinstated by the Insurance Company should they elect to do so, proceed with due diligence with the completion of the works in the same manner as though the fire has not occurred and in all respects under the conditions of the contract. The contractor in case of rebinding or reinstatement after fire shall be entitled to extension of time for completion as the University may deem fit.

36. ACCOUNTS RECEIPTS & VOUCHERS

The contractor shall, upon the request of the University furnish them with all the invoices, accounts, receipts and other vouchers that they may require in connection with the works under this contract. If the contractor shall use materials less than what he is required under the contract, the value of the difference in the quantity of the materials he was required to use and that he actually used shall be deducted from his dues. The decision of the University shall be final and binding on the contractor as to the amount of materials the contractor is required to use for any work under this contract.

37. Payments

All R/A bills shall be prepared by the contractor in the form prescribed by the University. The bills in proper forms must be duly accompanied by detailed measurements in support of the quantities of work done and must show deductions for all previous payments, retention money, etc.

The concerned Engineer-In-Charge of the University shall verify and certify after scrutiny of the contractor's bill stating the amount due to the contractor from the University and the contractor shall be entitled to payment thereof.

The amount stated in the R/A bill shall be the total value of work properly

executed and 65% of invoiced value of material brought to site for permanent incorporation into the work up to the date of the bill less the amount to be retained by the University as retention money vide clause 19 of these condition and less installments previously paid under these conditions provided that such certificates shall only include the value of said material and goods as and from such time as they are reasonably, properly and not prematurely brought to or placed adjacent to the work and then only if adequately protected against weather or other casualties.

The University will deduct retention money as described in Clause 20 of these conditions. The refund of retention money will be made as specified in the said clause.

If the University has supplied any materials or goods to the contractor, the cost of any such materials or goods will be progressively deducted from the amount due to the contractor in accordance with the quantities consumed in the work.

All the R/A bills' payments shall be regarded payments by way of advance against the final payment only and not as payments for work actually done and completed and shall not preclude the requiring of bad, unsound, and imperfect or unskilled work to be removed and taken away and reconstructed, or re-erected or be considered as an admission of the due performance of the contract, or any part thereof in any respect or the accruing of any claim, nor shall, it conclude determine or affect in anyway the power of the University under these conditions or any of them as to the final settlement and adjustment of the account or otherwise or in any other way vary or effect the contract. The final bill shall be submitted by the contractor within one month of the date fixed for completion of the work or of the date of certificate of completion furnished by the site Engineers/concerned Engineer-In-Charge and payment shall be made within three months.

38. FINAL PAYMENT

The final bill shall be accompanied by a certificate of completion from the University. Payments of final bill shall be made after deduction of Retention Money as specified in clause 19 of these conditions, which sum shall be refunded after the completion of the Defect Liability Period after receiving the University's certificate that the contractor has rectified all defects to the satisfaction of the University. The acceptance of payment of the final bill by the contractor would indicate that he will have no further claim in respect of the work executed. Defect liability period shall extend for a period of one year after the day of virtual completion.

39. VARIATION/DEVIATION

The price of all such additional items/non-tendered items will be worked out on the basis of rates quoted for similar items in the contract wherever existing or on engineering rate analysis based on prevalent fair price of labour, material and other components as required as per the details hereinafter. The tender rates shall hold good for any increase or decrease in the tendered quantities up to variation of 25%. For variation beyond 25%, the rate for the respective item may be reviewed by the University.

No claim for an extra shall be allowed unless it shall have been executed by the authority of the University as herein mentioned. Any such extra is herein referred to as an authorised extra. No variations, i.e. additions, omissions or substitutions shall vitiate the contract.

The rates of items not included in the schedule of quantities shall be settled by the Engineer in-charge of the Project in accordance with the following rules:

a) If the rates for the additional, altered or substituted works are specified in the contract for the work, the contractor is bound to carry out the additional, altered and substituted works at the same rates as are specified in the contract for the work.

b) If the rates for the additional, altered or substituted works are not specifically provided in the contract for the work, the rates will be derived from the rates for a similar class of work as are specified in the contract for the work.

c) If the rates for the additional, altered or substituted work cannot be specified in the sub-clause (a) (b) above, the rates shall be derived on the basis of cost of materials and labour (rates for materials and labour will be as per the prevalent market rates for the same) plus 15% to cover overheads, supervision and profit etc.

40. SUBSTITUTION

Should the contractor desire to substitute any materials and workmanship, he/they must obtain the approval of the University through Architect in writing for any such substitution well in advance. Materials designated in this specification indefinitely by such term as a "Equal" or "Other approved" etc. specific approval of the University has been obtained in writing.

41. PREPARATION OF BUILDING WORKS FOR OCCUPATION AND USE IN COMPLETION

The whole of the work will be thoroughly inspected by the contractor along-with the Site Engineers and deficiencies and defects put right. On completion of

such inspection the contractor shall inform the University that he has completed the work and it is ready for inspection.

On completion the contractor shall clean all windows and doors including the cleaning and oiling if necessary, of all hardware, inside and outside, all floors, staircases, and every part of the building. He will leave the entire building neat and clean and ready for immediate occupation and to the satisfaction of the University.

42. CLEARING SITE ON COMPLETION

On completion of the works, the contractor shall clear away and remove from the site all constructional plant, surplus materials, rubbish and temporary works of every kind and leave the whole of the site and the works clean and in a workmanlike condition to the satisfaction of the University.

43. DEFECT AFTER COMPLETION

The contractor shall make good at his own cost and to the satisfaction of the University all defects, shrinkage, settlements or other faults which may appear within 12 months after completion of the work. In default, the University may employ and pay other persons to amend and make good such damages, losses and expenses consequent thereon or incidental, thereto shall be made good and borne by the contractor and such damages, loss and expenses shall be recoverable from him by the University or may be deducted by the University, in lieu of such amending and making good by the contractor, deduct from any money due to the contractor a sum equivalent to the cost of amending such work and in the event of the amount retained being insufficient, recover that balance from the contractor from the amount retained under Clause No. 20 together with any expenses the University may have incurred in connection therewith.

44. CONCEALED WORK

The contractor shall give not less than 5 days notice to the University whenever any work is to be buried in the earth, concrete or in the bodies of walls or otherwise becoming inaccessible later on, in order that the work may be inspected and correct dimensions taken before such burial, in default whereof the same shall, at the opinion of the University be either opened up for measurement the contractor's expenses or no payment may be made for such materials. Should any dispute or differences arise after the execution of any work as to measurements etc or other matters which cannot be conveniently tested or checked, the notes of the University shall be accepted as correct and binding on the contractor.

45. ESCALATION

The rate quoted shall be the final and firm throughout the tenure of the contract (including extension of time, if any, granted) and will not be subject to any fluctuation due to increase in cost of materials, labour, GST, etc.

46. IDLE LABOUR

Whatever the reasons may be, no claim for idle labour, additional establishment cost of hire and labour charges of tools and plants would be entertained under any circumstances.

47. SUSPENSION

If the contractor except on account of any legal restraint upon the University preventing the continuance of the work or in the opinion of the University shall neglect or fail to proceed with due diligence in the performance of his part of the contract if he shall more than once make default, the University shall have the power to give notice in writing to the contractor requiring the work be proceeded within a reasonable manner and with reasonable despatch, such notice purport to be a notice under this clause.

After such notice shall have been given the contractor shall not be at liberty to remove from the site of the works or from any ground contiguous thereto any plant or materials to subsist from the date of such notice being given until the notice shall have been complied with. If the contractor shall fail for 7 (seven) days after such notice has been given to proceed with the works as therein prescribed, the University may proceed as provided as provided in clause 49 (Termination of contractor by University).

48. TERMINATION OF CONTRACT BY UNIVERSITY

If the contractor being a company go into liquidation whether voluntary or compulsory or being a firm shall be dissolved or being an individual shall be adjudicated insolvent or shall make an assignment or a composition for the benefit of the greater part, in number of amount of his creditors or shall enter into a Deed or arrangement with his creditors, or if the Official Assignee in insolvency, or the Receiver of the contractor in insolvency, shall repudiate the contractor if a Receiver of the contractor's firm appointed by the court shall be unable within seven days after notice to him requiring him to do so, to show to the reasonable satisfaction of the University that he is able to carry out and fulfill the contract, and

if so required by the University to give reasonable security therefore or if the contractor shall suffer execution to be issued, or shall suffer assign charge or encumber this contract or any payments due or shall neglect or fail to observe and perform all or any of the acts matters of things by this contract, to be observed and performed by the contractor within three clear days after the notice shall have been given to the contractor in manner hereinafter mentioned requiring the contractor to observe or workmanship in carrying on the works, or shall in the opinion of the University not exercise such diligence and make such due progress as would enable the work to be completed within due time agreed upon and shall fail to proceed to the satisfaction of the University after three clear days notice requiring the contractor so to do shall have been given to the contractor as herein after mentioned, or shall abandon the contract, then and in any of the said cases, the University may notice in writing to the effect as herein after mentioned, but without thereby affecting the powers of the University of the obligations and liabilities of the contractor the whole of which shall continue in force as fully as if the contract, had not been so determined and as if the works subsequently executed had been executed by or on behalf of the contractor (without thereby creating any trust in favour of the contractor) further the University or his representatives, or servants, any enter upon and take possession of the work and all plants, tools, scaffoldings, sheds, machinery, steam and other power, utensils and materials lying upon premises or the adjoining lands or roads and sell the same as his own property ~r may employ the same by means of this own servants and workman in carrying on and completing the work or by employing any other contractors or other persons or person to complete the works, and the contractor shall not in any way interrupt or do any act, matter or things to prevent or hinder such other contractors or other persons or person employed from completing and finishing or using the materials and plants for the works when the works shall be completed, or as soon thereafter as conveniently may be, the University shall give notice in writing to the contractor to remove his surplus materials and plants and should the contractor fail to do so within a period of 14 days after receipt by him the University may sell the same by public Auction and shall give credit to the contractor for the amount so realised. Any expenses or losses incurred by the University in getting the works carried out by other contractors shall be adjusted against the amount payable to the contractor by way of selling his tools and plants or due on account of work carried out by the contractor prior to engaging other contractors or against the security Deposit.

49. VALIDITY OF PRICE

The contractor shall have no right to ask for alteration of the rates, terms and conditions quoted by the contractor and shall be final and to be subsisting and valid for execution of the work.

50. LOWEST TENDER

The University shall have the right to reject any or all the tenders and will not be bound to accept the lowest or any tender and the tenderer or tenderers shall have no right to question the acts of the University in this respect.

51. WATER SUPPLY, LATRINE ETC

The selected tender shall make his own arrangements at his own costs for the supply of approved quality water required for construction and for drinking purposes and shall provide at his own costs all tubes, tanks, fittings and temporary plumbing works required and on completion of the works, shall remove all temporary appliance and make good any work disturbed for making such arrangements to the satisfaction of the owner.

52. POWER

The contractor shall make his own arrangements for power and supply system for driving plant or machinery for the work and for lighting purpose at his own cost. The cost for running and maintenance of the plants are to be included in his tender prices. He shall pay all fees and charges legally demandable and include the same in his tendered rates and hold the University free from all such costs. Contractor will pay against the consumed Electrical energy charges as per sub-meter reading, as and when asked/raised by the University.

53. METHOD OF MEASUREMENT

a: Unless otherwise mentioned in the Schedule of Quantities measurement will be on the net quantities or work produced in accordance with upto date rules laid down by the Indian Standard Institution(as per SP 27 1987). In the event of any dispute with regard to the measurement of the work executed, the decision of the University shall be final and binding on the contractor.

b: The rates quoted by the tenderer shall include for all heights.

54. ACTION WHERE NO SPECIFICATION

In the case of any class of work for which there is no such specification in

Technical specification, such work shall be carried out in accordance with the I.S. Specification, and then in such case the work shall be carried out in all respects in accordance with the instructions and requirements of the concerned Engineer-In-Charge.

55. CONTRACTOR NOT TO DEPOSIT MATERIALS IN A MANNER THAT MAY INCONVENIENCE TO THE PUBLIC

The contractor(s) shall not deposit materials on any site which will seriously inconvenience the public. The Engineer in-charge of the Project may require the contractor to remove any materials, which are considered by him to be a danger or inconvenience to the public or cause them to be removed at the contractor's cost.

56. LIQUIDATED DAMAGES

Should the work be not completed to the satisfaction of the University's Engineer in-charge of the Project within the stipulated period, the contractor shall be bound to pay to the University's sum Calculated as given below by way of liquidated damages and not as penalty during which the work remains uncommenced or unfinished after the expiry of the completion date.

- | | |
|---|--|
| a) For contractor having time for completion 6 months and less. | 1% of the estimated amount shown in the tender per week subject to a ceiling of 10% of the accepted contracted sum. |
| b) For contractors having in the time of completion exceeding 6 months but not exceeding 2 years (24 months). | 0.50% of the estimated amount shown in the tender per week subject to a ceiling of 7.5% of the accepted contracted sum. |
| c) For contracts having time for completion in excess of 2 years. | 0.25% of the estimated amount shown in the tender per week subject to a ceiling of 5% of the of the accepted contracted sum. |

57. ACTION WHEN WHOLE OF SECURITY DEPOSIT IS FORFEITED

In any case in which under any clause or clauses of this contract, the contractor shall have rendered himself liable to pay compensation amounting to the whole of his security deposit (whether paid in one sum or deducted by installments) the University shall have power to adopt any of the following courses

as they may deem best suited to the interest of the University:

a) To rescind the contract (of which rescission notice in writing to the contractor under hand of the University through Architect shall be conclusive evidence), and in which case the security deposit of the contractor shall stand forfeited and be absolutely at the disposal of the University.

b) To employ labour paid by the University and to supply materials to carry out the work, or any part of the work, debiting the contractor with the cost of the labour and price of material (of the amount of the which cost and price of a certificate of the University shall be final and conclusive against the contractor) and crediting him with the value of the work done, in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of this contract the certificate of University as to the value of the work done, shall be final and conclusive against the contractor.

c) To measure up the work of the contractor, and to take such part thereof as shall be unexecuted, out of his hands, and to give it to another contractor to complete in which case any expenses which may be incurred in excess of the sum which would have been paid to the original contractor, if the whole work had been executed by him (of the amount of which excess the certificates in writing of the University shall be final and conclusive) shall be borne and" paid by the original contractor and may be deducted from any money due to him by the University under the contract of otherwise, or from his security deposit or the proceeds of sale thereof, or a sufficient part thereof.

In the event of any above courses being adopted by the University the contractor shall have no claim to compensation for any loss sustained by him reasons of his having purchased or procured any materials or entered into any engagements, or make any advances on account of, or with a view to the execution of the work or the performance of the contract. And in case the contract shall be rescind under the provision aforesaid, the contractor shall not be entitled to recover or be paid any sum or any work thereto for actually performed under this contract, unless, and until the University will have certified in writing the performance of such work and the value payable in respect thereof, and he shall only be entitled to be paid the value so certified.

58. NO COMPENSATION FOR ALTERATION IN OR RESTRICTION OF WORK TO BE CARRIED OUT

If at any time after the commencement of the work, the University shall for any reason whatsoever not require the whole work thereof as specified in the tender to

be carried out the University shall give notice in writing of the fact to the contractor who shall have no claim to any payment or compensation whatsoever on account of any profit or advantage with which he might have derived from the execution of the work in full, but which he did not derive in consequence of the full amount of the work not having been carried out; neither shall he have any claim for compensation by reason of any alterations having been made in the original specification, drawing, designs and instructions which shall involve any curtailment of the work as originally contemplated.

59. GUARANTEE FOR THE SPECIALISED WORKS

The contractor shall submit a Performance Guarantee from the Specialised Agency for specialized works like, Plumbing, waterproofing treatment, toilets/baths., terrace slab etc. and all inclusive items is provided in the tender for the works without giving detailed specifications. The specialised works are being executed through respective Specialised Agency by the Main Contractor after the specified Employments are duly approved by the University's Engineer in-charge of the Project. The Main contractor is bound to furnish this Guarantee to the University as the University as the main contractor is equally responsible for the performance of the Specialist Firm. Main Contractor will also provide separate Guarantee for the similar works undertaken directly by them.

60. METHOD TO QUOTE RATES

A tenderer is to quote rate in ink in both words and figures in English. In case of any variation the rates quoted in words in the original copy of the tender shall only be valid. The tender shall be clearly and legibly written and whole writing must be by the hand of the person signing the tender and with the same pen and ink. Failure to do so may invalidate the tender. Erasing or overwriting shall not be allowed. Corrections in the tender should be avoided and if this becomes unavoidable, the entire rate (and not a portion only) shall be scored out and signed (not simply initialed) by the tenderer as token of such cancellation. A fresh rate in specified manner shall then be correctly written. Wherever the rates quoted are in rupees the word only should be invariably added after amount in words, found in the copies of tenderers, the rates mentioned in words in the tender copy marked "original" will only be considered.

61. INCOME TAX/GST ON WORKS CONTRACT

Statutory deduction of Income Tax/GST shall be made from all R/A and final payments and remitted to the Central Government towards provisional Income Tax, GST of the Contract in accordance with the Government notification.

62. SAFTY REGULATION

Contractor shall abide by the Safety Regulations for factory act and other rules and regulations of related authorities.

63. AGREEMENT

The successful contractor will be required to enter into an agreement in accordance with the Draft Agreement form enclosed & the schedule of conditions within 15 days from the date of the contractor is advised by the University that his tender has been accepted and he shall pay for all stamps & legal expenses incidental thereto. However, the written acceptance by the University of a tender will constitute a binding contract between the University and the person so tendering whether such formal agreement is or is not subsequently executed.

64. ARBITRATION

All disputes or differences of any kind whatsoever which shall at any time arise between the parties hereto touching or concerning the works or the execution or maintenance thereof of this contract or the rights touching or contract or the construction remaining in operation or effect thereof or to the rights or liabilities of the parties or arising out of or in relation thereto whether during or after determination, foreclosure or breach of the contract (other than those in respect of which the decision of any person/persons is by the contract expressed to be final & binding) shall after written notice by either party to the contract to the other or them and to the Appointing Authority who shall be appointed for this purpose by the University be referred for adjudication to a sole Arbitrator to be appointed as hereinafter provided.

For the purpose of appointing the sole Arbitrator referred to above, the Appointing Authority will send within thirty days of receipt by him of the written notice aforesaid to the contractor sole arbitrator, who shall be unconnected with the organization for which the work is executed from the following categories of Arbitrators:

1. Retired High Court/Supreme Court Judges, who have experience in

handling Arbitration cases.

2. Member of the Council of Arbitrations.
3. Fellow of the Institution of Engineers.
4. Eminent Retired Chief Engineers from State/Central P.W.D./Public Sector undertakings of good reputation and integrity.
5. Fellow of the Indian Institute of Architect.

The contractor shall on receipt by him of the names as aforesaid, select anyone of the persons named to be appointed as a sole Arbitrator and communicate his name to the Appointing Authority within thirty days of receipt of the names. The Appointing Authority shall there upon without any delay appoint from the above person as a sole arbitrator. If the contractor fails to communicate such selection as provided above within the period specified the Appointing Authority shall make the selection and appoint the selected person as the Sole Arbitrator.

If the Appointing Authority fails to send to the contractor the name of the arbitrator within the stipulated period, the contractor shall send to the Appointing Authority a name of the arbitrator from the above mentioned 5 categories of Arbitrators who shall be unrelated in whatsoever manners with either of the parties. The appointment authority shall on receipt by him of the names of aforesaid select any one of the persons named and appoint him/her as the sole Arbitrator. If the Arbitrator so appointed is unable or unwilling to act or resigns from his appointment or vacates his office due to any reason whatsoever another sole Arbitrator shall be appointed as aforesaid.

The work under the Contract shall, however, continue during the arbitration proceedings and no payment due or payable to the contractor shall be withheld account of such proceedings.

The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties fixing the date of the first hearing.

The Arbitrator may from time, to time with the consent of the parties, enlarge the time for making and publishing the award.

The Arbitrator shall give a separate award in respect of each disputes or difference referred to him. The Arbitrator shall decide each dispute in accordance with the terms of the contract and give a reasoned award. The seat and venue of arbitration proceedings shall be New Delhi only. The award of the Arbitrator shall be final and binding on both parties.

It is also a term of the contract that if contractor (s) do/does not make any demand for arbitration in respect of any claim(s) within 90 days of receiving intimation from University that the bill after due verification is passed for payment of a lesser

amount, or otherwise the contractor's right under this agreement to refer to arbitration shall be deemed to have been forfeited and University shall be relieved and discharged of their liability under this agreement in respect of such claim(s). Further it is agreed that for the purpose of this clause, such notice is deemed to have been received by the contractor(s) within 2 days of posting of the letter by University or when delivered by hand immediately after receipt thereof by the contractor (s), whichever is earlier. Further a letter signed by the officials of University that the letter was so posted to the contractor(s) shall be conclusive.

Subject to aforesaid the provisions of the Arbitration Act or any statutory modification or re-enactment thereof and the rules made there under, and for the time being enforce, shall apply to the Arbitration proceeding for the purpose of this clause.

65. LICENSEES REQUIREMENTS ETC.

The contractor should ensure that all installations conform to Local/Statutory Regulations and requirements. In case of any deficiency /discrepancy or contradictions found in the Technical specifications or Schedule of Items, these shall be immediately brought to the notice of the University and the same should be got modified before execution of the work.

66. DECLARATION

I/We have inspected the site of works and have made me/us fully acquainted with the local conditions in and around/vicinity of the sites of works. I/We hereby declare that I/We have gone through the conditions laid down in the Notice Inviting Tender, General Condition of Contract, Technical specifications and understood the same and on the basis of the same I/We quoted our rates in the schedule of quantities attached with the tender documents. I/We shall also uniformly maintain such progress with the work, as may be directed by the University to ensure completion of same within the target date as mentioned in the tender documents that after completion of said work, a completion certificate will be issued by the University for the full and final works completed, remaining or in completed works (in any), and in relation to this the full and final payments made, remaining, if any. Henceforth, the parties after the issuance of completion certificate and after passing of 30 days shall have no complaints against each other, “whatsoever”.

Witness:

**Signature of Tenderer
Address:**

Date:

LIST OF APPROVED MAKES
CIVIL WORK

S. No.	Description	Approved Brand/Manufacturer
1.	Cement	A.C.C., L&T, Raymond Cement, Birla-Maihar.
2.	Reinforcing Steel	Tisco, Sail, BSNL or any other ISI approved manufacturer.
3.	Glazed Vitrified Tiles	Somany, Kajaria, Nitco, Orient, or equivalent approved make and approved by Engineer In-charge
4.	Ceramic Tiles-Floor & Dado	Kajaria, Orient, Somany or equivalent approved make and approved by Engineer In-charge
6.	Vitrified Tiles	Somany, Kajaria, or equivalent approved make and approved by Engineer In-charge
5.	Flush Door Shutters & Plywood.'	National Plywood Industries Ltd., Kitply Industries Ltd., Green Ply Industries Ltd., Duro, Century.
6.	Mortice Lock & Handles	Harrison, Link, Door Set or equivalent as approved by the Engineer in-charge.
7.	Water Proofing Compound	Patent Product of Snowcem India, Chemseal, Vam Organics, Cico, or equivalent make.
8.	Hardware-Aluminium	Hindalco, Jindal or equivalent make of approved design, brand, quality & Manufactured with ISI mark.
9.	Synthetic Enamel Paints, Distemper	ICI, Berger Paints (India) Ltd., Jenson & Nicholson (India) Ltd., Asian Paints Ltd., Shalimar Nerolac.
10.	Water Proof Cement Paint	Berger, Asian, Nerolac or equivalent approved quality.
11.	Glazing	St. Gobain, Modifloat, M/s Triveni Glass or equivalent of approved quality.
12.	Door Closer	Godrej, Hettich, Ebco, Ozone or equivalent approved make.
13.	Chequered Tiles and interlocking Paver Block, Kerb Stone	Hindustan, Modern, KGS, Nitco, or equivalent as approved by the Engineer in-charge.

14.	Lamination	Greenlam, Marino, Century or equivalent as approved by the Engineer in-charge.
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LIST OF APPROVED MAKES OF MATERIALS
Plumbing Work

Sl. No.	Materials No.	Brand Name
1.	Vitreous china sanitary ware	Kohler, Jaquar ,Hindware
2.	Hand drier	Kopal
3.	Sensor operated flush valve & basin mixer	AOS ,ASR
4.	Plastic WC seats	Commander, Diplomat, Bestolite
5.	Stainless steel sinks	Jayna Niikanth
6.	CP fittings	Jaquar, Kohler, Hindware, Parko
7.	CP accessories	Akoi, Essco, Jaquar, Parko
8.	Soil, waste, vent pipes &, fittings	Prince, Supreme
9.	Water Supply uPVC pipes	TATA ,Jindal, Surya
10.	Gunmetal ball valves (Full way check and globe valves)	Zoloto ,Leader ,Sant
11.	Gunmetal ball valves	RB, Audco, Leader
12.	Stoneware pipes & gully trap	Perfect, Burn
13.	RCC pipes	Any IS Marked
14.	CI double flanged sluice valves	Kirloskar, alpna
15.	CI double flanged non-return valves	Same as sluice values
16.	CI manholes	BC,Kajeco,RIF
17.	Motors	Kirloskar, ABB, Siemens, Crompton Greaves

Bill of Quantities

Name of work - Development of Centre of Excellence under Unani Medicine at 3rd floor of Nano Building, Jamia Hamdard

Part (A) - Misc. Civil, Plumbing, Wooden Work, Furniture, Painting work, Cleaning of modular work stations floor etc.

S.No	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	0.50	cum		
2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	5.00	sqm		
3	Extra for providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.	5.00	sqm		
4	Mirror polishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.	200.00	sqm		
5	Providing and fixing Ist quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	18.00	sqm		
6	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood	0.09	cum		
7	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters: 35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	4.00	sqm		

8	Providing & Fixing decorative high pressure laminated sheet of plain / wood grain in gloss / matt/ suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS : 2046 Type S, including cost of adhesive of approved quality. 1.0 mm thick	8.00	sqm		
9	25 mm wooden planking, tongued and grooved in flooring, including fixing with iron screws complete with : Second class teak wood	40.00	sqm		
10	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in colours White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement: 4 Coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.	3.50	sqm		
11	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 600x600 mm	4.00	sqm		
12	10 cm thick (average) mud phaska of damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobri leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat: With common burnt clay F.P.S.(non modular) brick tile of class designation 10 sqm	150.00	sqm		
13	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design : In 75x75 mm deep chase	100.00	metre		
14	Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50 mm hard wood plugs, screwed with M.S. screws of required length, including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the wall etc. complete. 110 mm	5.00	each		

15	<p>Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound , jointing tapes , finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :</p>				
	12.5 mm thick tapered edge gypsum moisture resistant board	25.00	Sqm		

16	Providing and Fixing 15 mm thick densified tegular edged eco friendly light weight calcium silicate false ceiling tiles of approved texture of size 595 x 595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanised steel sections (galvanising @ 120 grams per sqm including both side) consisting of main 'T' runner suitably spaced at joints to get required length and of size 24x38 mm made from 0.33 mm thick (minimum) sheet, spaced 1200 mm centre to centre, and cross "T" of size 24x28 mm made out of 0.33 mm (Minimum) sheet, 1200 mm long spaced between main 'T' at 600 mm centre to centre to form a grid of 1200x600 mm and secondary cross 'T' of length 600 mm and size 24 x28 mm made of 0.33 mm thick (Minimum) sheet to be inter locked at middle of the 1200x 600 mm panel to form grid of size 600x600 mm, resting on periphery walls /partitions on a Perimeter wall angle pre-coated steel of size(24x24X3000 mm made of 0.40 mm thick (minimum) sheet with the help of rawl plugs at 450 mm centre to centre with 25 mm long dry wall screws @ 230 mm interval and laying 15 mm thick densified edges calicum silicate ceiling tiles of approved texture in the grid, including, cutting/ making opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc., wherever required. Main 'T' runners to be suspended from ceiling using G.I. slotted cleats of size 25x35x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm G.I. adjustable rods with galvanised steel level clips of size 85 x 30 x 0.8 mm, spaced at 1200 mm centre to centre along main 'T', bottom exposed with 24 mm of all Tsections shall be pre-painted with polyster baked paint, for all heights, as per specifications, drawings and as directed by Engineer-in-Charge.	25.00	Sqm		
17	12 mm cement plaster of mix : 1:6 (1 cement: 6 fine sand)	10.00	Sqm		
18	Pointing on brick work or brick flooring with cement mortar 1:3 (1 cement : 3 fine sand): Flush / Ruled/ Struck or weathered pointing.	750.00	sqm		
19	Fixing chowkhat in existing opening in brick/ RCC wall with dash fasteners/Chemical fasteners of appropriate size (3 nos on each vertical member of door chowkhat and 2 nos on each vertical member of window chowkhats), including Cost of dash fasteners/ chemical fastener.	1.00	each		
20	Making the opening in brick masonry including dismantling in floor or walls by cutting masonry and making good the damages to walls, flooring and jambs complete, to match existing surface i/c disposal of mulba/ rubbish to the nearest municipal dumping ground, all complete as per direction of Engineer-in-	1.00	sqm		

	Charge. For door/ window/ clerestory window				
21	Renewing glass panes, with putty and nails wherever necessary including racking out the old putty: Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	10.00	sqm		
22	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 metres lead as per direction of Engineer - in - charge. Nominal concrete 1:3:6 or richer mix (i/c quivalent design mix)	1.00	cum		
23	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	1.00	cum		
24	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead. For thickness of tiles 10 mm to 25 mm	15.00	sqm		
25	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	3.00	sqm		
26	Demolishing mud phaska in terracing and disposal of material within 50 metres lead.	150.00	cum		
27	Dismantling of flushing cistern of all types (C.I./PVC/Vitrious China) including stacking of useful materials near the site and disposal of unserviceable materials within 50 metres lead.	2.00	each		
28	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	5.00	cum		
29	Providing and fixing wash basin with C.I. brackets, 15 mm dia CP Brass single hole basin mixer of approved quality and make, including painting of fittings and brackets, cutting and making good the walls wherever required:- (a) White Vitreous China Wash basin size 550x400 mm with a 15 mm CP Brass single hole basin mixer	1.00	each		
30	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings.	1.00	each		
31	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	1.00	each		

32	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Flexible pipe 32 mm dia	1.00	each		
33	Providing and fixing toilet paper holder : C.P. brass	1.00	each		
34	Providing and fixing floor mounted, white vitreous china single piece, double traps syphonic water closet of approved brand/make, shape, size and pattern including integrated white vitreous china cistern of capacity 10 litres with dual flushing system, including all fittings and fixtures with seat cover, cistern fittings, nuts, bolts and gasket etc including making connection with the existing P/S trap, complete in all respect as per directions of Engineer-in-Charge.	1.00	each		
35	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall				
36	20 mm nominal dia Pipes	10.00	metre		
37	25 mm nominal dia Pipes	60.00	metre		
38	32 mm nominal dia Pipes	30.00	metre		
39	40 mm nominal dia Pipes	30.00	metre		
40	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work, including cutting chases and making good the walls etc. 20 mm nominal dia Pipes	10.00	metre		
41	Providing and fixing uplasticised PVC connection pipe with brass unions : 45 cm length 20 mm nominal bore	5.00	each		
42	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 : 15 mm nominal bore	4.00	each		
43	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 15mm nominal bore	8.00	each		

44	Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand), finished with a floating coat of neat cement and making necessary channels for the drain etc. complete : For pipes 100 to 250 mm diameter.	1.00	each		
45	Providing and fixing the Door lock with handle of door set make complete as required.	2.00	each		
46	Providing and fixing 12 mm thick frameless toughened glass door shutter of approved brand and manufacture, including providing and fixing top & bottom pivot & double action hydraulic floor spring type fixing arrangement and making necessary holes etc. for fixing required door fittings, all complete as per direction of Engineer-incharge (Door handle, lock and stopper etc. are inclusive)	6.50	sqm		
47	Providing and fixing on PVC pipes of 6 kg including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes. 110 mm diameter	20.00	metre		
48	Providing and fixing C. P.V.C. gate valve with fittings complete.				
49	20mm	3.00	Each		
50	25mm	3.00	Each		
51	32mm	3.00	Each		
52	40mm	2.00	Each		
53	Providing and fixing C.P. brass two way bib cock of approved quality and make complete.	2.00	each		
54	Providing and fixing C.P. brass health faucet of approved quality and make complete.	2.00	each		
55	P/F wall paneling, 900mm high (or as per design), with MS hollow section (18 gauge) framework – 25 mm x 25 mm in max. 600x600 mm C/C in both direction as required. Partition shall be provided with 10 mm thick MDF board of approved quality duly screened & fixed on the faces on the MS framework. finished 4mm thick veneer of approved shade & quality of partition with necessary horizontal and vertical grooves 6/4mm(as per design) finished duly with matching colour matt melamine polish, putty etc. The skirting shall be 100 mm high & 12 mm recessed skirting as per design of MS section BWP 8mm ply finished. The skirting shall be 100 mm & 14 mm recessed skirting as per detail of MS section BWP 8mm ply finished with metallic laminate 1 mm thick of approved manufacture and shade. Edging will be done using 20 mm x 3/4 mm Rubber wood.	50.00	Sqm		

56	Chemical washing of existing PVC floor and counter marble top and sides with appropriate chemical which does not disturb the structure of the labotary tables floor etc., giving an even glossy finish to the floor and counter including removing of any spots etc. complete as required as per direction of Engineer-in -charge. (The payment will be made only for floor area)	300.00	Sqm		
57	Fabricating ,making and fixing the wooden cupboard of size 14'x8' and 2' depth which is made out of 17mm HDHMR board with back ply 12mm HDHMR . The cupboard having the sliding/push glass(5mm) shutter on top , shutter of 17mm thick of HDHMR board with 5mm thick plane glass with middle partitions and on bottom the shutter of 17mm thick HDHMR board with middle shelf pasted with 1mm thick laminate of approved quality and make on all exposed surface . The shutter fixed with piano hinges complete with all necessary hardware ie handle, magnetic catcher , PVC bidding etc complete as required.	250.00	Sqft		
58	Dismantling the damaged wooden cupbord under the RCC countre complete with disposed off the rubbish within the campus as directed by the Engineer Incharge,	38.00	Sqft		
59	Providing and fixing sun control/ frosted film of garware make complete as required.	150.00	Sqft		
60	Providing and fixing of Roller blind of approved make and color with all necessary fittings, fixtures and fasteners etc complete	20.00	Sqm		
61	Providing and fixing the aluminum partitions in champagne color same as existing partitions with extruded built up standard tubular sections of size 2.5"x1.5" of 16 gauge, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions i.e at top ,bottom and sides with required EPDM rubber/neoprene gasket etc .Aluminium sections shall be smooth ,rust free, straight, mitered and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing /paneling ,c.p brass/stainless steel screws,all complete as per the direction of Engineer in charge. The partition having the 5mm thick glass on top and on bottom 12 mm thick particle board of approved color complete as required/as existing.	30.00	sqft		
62	Specifications for the ducted Fume Hood (QTY 2 Nos) The approximate dimensions of the ducted fume hood is 1800 mm x 900 mm x 2400 mm (L x B x H). The dimensions should be such that the fume hood (s) fit the designated locations shown in the layout. The working bench height of the hood should be 900 mm. Fumhood should achieved optimum containment results during tests and must complying				

with European reference values set by the German BG Chemie and the French INRS with incorporation of UNE EN 14175 standards, and performance of a fumehood is expressed in qualitative terms ,such as the ability to contain and extract one or more pollutants emitted by a source in the work area of the fumehood, as well as the ability to minimise the influence of possible disturbances such as air currents, operator movements or the movement of personnel. Barrier system should be installed in laboratory furniture such that it prevent contaminants from leaving the contaminated area which save the user and at the same time, it is subtle enough so that it does not favour the turbulence that originated in the friction between the air and the bordering surface. The fume hood superstructure should be made of GI sheet with 70-80 micron epoxy based powder coating. The interior liner panels should be removable without disassembly of the frame structure and outer steel panels. Likewise the exterior steel panels should be removable without disassembly of the frame structure and inner liner panels. The ceiling enclosure should be made of minimum 1.2 mm thick GI sheet. This should be epoxy-based powder/epoxy coated on all sides. The table top should be made of 18±1 mm solid grade laminate made of composite wooden fibers with " Electron Bean Cured" surface which is free of melamine resins and reistance to Bacteria and various chemical spillage as well as fumes. SEFA 8 certified from authorized SEFA approved agency with 10 years written Product Guarantee for all properties mentioned in material property data sheet. 10 years of proven testimonials in Global and Indian reputed Government or Private Research laboratories. Fire rating certified by 3rd party for Fume hood application with minimum 60 minutes fire rating. The sash frame should be made of stainless steel (SS 316L). A combination sash made of at least 5 mm toughened glass should be provided and it should be operated by counterweight mechanism. The sash guides and the pulley system should be made of corrosion resistant material. A stable non-adjustable baffle should be provided to aid in distributing the flow into and through the hood. The baffle should be removable for cleaning. The fume hood lining on the inside should be of CRL 6mm thickness. The liner should have a proper punching and coordination with the remaining pieces of the assembled fume hood superstructure. At least two Fluorescent lights (CFL, 40 watt each) with vapour-proof industrial fitting for proper illumination (Intensity of approximately 400 lux at the worktop level), should be provided. The hood superstructure should be pre-wired and contain wire guard, connections, fixtures and wire color-coding. Six 6/16-

	<p>ampere electrical sockets and 16 A tiny MCB (Industrial type except specifically mentioned) of reputed make should be provided The wiring should terminate in a service junction box in a safe place. Remotely operated colour codes service valves SS braided flexible hose and brass fittings and spouts should be fitted in the hood. The fume hood worktop should be provided with an oval shape 100 mm x 200 mm PP cup sink. Base cabinet for chemical storage should be provided under the fume hood. The storage units should be epoxy/epoxy based powder coated and in attractive colour combinations. These units should have shutters, one adjustable shelf with FRP or PP trays. Connections are required for N2, Air and Vacuum in the hood. Service line for water should be provisioned (the water line will be supplied to the nearest possible point). The fume hood should be ducted with chemical resistant PP + FRP (3 mm + 3 mm) rigid and flexible ductwork. Total ducting should be both with horizontal and vertical members, flanges, bends, bracketed supports and gooseneck exhaust stack. Exhaust Blower</p>				
	<p>General – Direct Driven PP FRP Centrifugal Blowers of capacity (upto1500 cfm) including suitable clamp adapter, Electro galvanized stand base frame with vibration isolator, bolts & nuts, anchor fasteners, stack support with Motor(1.5HP TEFC Foot mounted 3phase 50Hz, 415Volts For outdoor application. Starter Included Testing Standard/ Certification -Fume Hoods: Fume Hoods should be manufactured as Ashrae 110:1995 (American Society of Heating, Refrigerating and Air-Conditioning Engineers) Standard norms. In case asked bidder must provide third party site testing The bidder must have valid SEFA Executive member certificate. The third party testing certificate for SEFA Standard shall be produced along with the technical bid. The bidder should possess ISO 9001:2008 Certificate.</p>	2.00	Each		
63	<p>Table 5ft with ERU and pedestal Table size shall be 1500 Width mm x 750 Depth mm x 740 Height mm (approx) .Table top shall be 25 mm thick plain particle board (BPW) Clad with 0.6 mm thick post formed laminate and 1 mm thick backing laminate (bdl) .Flat edge Duly sealed with 2 mm thick PVC beading. The modesty shall be 18 mm thick plain particle board with 1.0 mm thick decorative laminate (DL) on both sides. Edge Sealed with 2 mm thick PVC beading. ERU size shall be 1050 Width x 450 Depth x 705 Height (approx). The top of Finesse shall be 25 mm thick plain particle board (PPB) Clad with 0.6 mm thick post formed laminate and 1 mm thick Backing Laminate (BDL).</p>	1.00	Nos		

	<p>Flat Edge duly sealed with 2 mm thick PVC beading. The Modesty shall be 18 mm thick plain particle board (PPB) Clad with 1.0 mm thick Decorative Laminate (DL) on both sides. Edge sealed with 2 mm thick PVC Beading. Shall be supplied with 3 drawer pedestal of size 646H x 390W x 440D (approx).OEM should be the member of SEFA and having own in house testing facility and test reports from third party on the quality parameters</p>				
64	<p>Conference Table (4200 mm (L)X 1200mm (W) X 750mm (H) Integrate Table - Laminate Top Finish Size: 4200 L X 1200D x 750Ht mm Specification : Table tops: The table design should have options of different profiles. The top will be in PLB 25mm thick one side pre-laminate board confirming to IS-14587:1998. The density of PLB will be 680kg/m³. Surface: CPL(continuous pressure laminate) in 0.5mm thickness in melamine finish. The PLB will be confirming to E-1 Grade as per the JIS A 5905-2003 standards and approved shade confirming to IS-12823:1990. PVC edge band will be minimum 2 mm thick confirming to DIN 68861, 53388 standards. The edge band will be fixed to the work surface edges all round with hot melt Glue confirming to ISO 9001- 2008 and certified by ANSI D 4499 for viscosity and thermal stability. The edge band will be done in continuous feed edge band machines for achieving the quality of workmanship. The table top shall also be offered in 40 mm thick at the edges. The table will have joints beyond 2400/2700 mm with suitable supports. Veneer or membrane top option will be made available. Supports: The conference/meeting tables can be supported by the Legs which are built by using high pressure die casting connectors, Specially tooled & specifically designed Oval shape ERW Tube – 16g along with strong Leg bush & levellers. High pressure aluminium die cast connectors are of ADC-12 material confirming to ASTM E 1251-2011, IS 7658-1990 & IS 11035 – 1190. For chemical composition and IS 1608 – 2005 for UTS & Ys. The Integrate oval tube will also be used as cross beams connecting both ends legs. The design of cross member should be structurally strong to negate use of intermediate leg support. Cable management: Cable Management is a vital requirement in any conference table. (Both data and Power). The cables are accessed by the user by means of ‘Flip up’ boxes provided on the table. The size of the “Flip up” will be available in sizes - 300, 450 and 600 mm depending upon the number of</p>	1.00	Nos		

	<p>switch/socket required. The cables enter the flip ups through wire entry channels/vertebra from the floor junction boxes. A cable tray shall be provided below the table for the carriage of cables from one end to the other which facilitates the cable entry into the flip ups. Should have the capability to accommodate approx. 30 -40 CAT-6 cables through the wire entry channels/vertebra. The Flip Ups will be designed to access cables from all three sides. The depth of the cable tray should have options of using standard plugs and “Apple” plugs. The “Flip up” should have design to mount “back to back’ for access from either side of the table. There will be option of either powder coated or anodized finish. Avoid Nylon brush or PVC beading.</p> <p>MOC - BPW particle board 16-18 mm thickness on H frame of metal pipe of 20mmx20mm or better treated with 8 tank process of GI coating with 70 to 80 micron powder coating with POPO box (2 nos) or POP up metal box with four switch and sockets (5/16 Amp) at the center of the table. Color of frame and worktop as per the choice of Officer In charge.</p>				
65	<p>Mid Back Chairs on castors with arms SEAT/BACK ASSEMBLY: The seat is made up of hot pressed moulded reconstituted wood of 12mm average thickness and back is two part injection moulded plastic. 2) POLYURETHANE FOAM: The Polyurethane foam is moulded in Density 45 kg/m³, Hardness20. 3) ARMRESTS: The armrests are Pressure die casted in polished Aluminium with PP Arm Tops. 4) SYNCHRO MECHANISM: The synchronized mechanism is designed with the following features: 360° revolving type. Backrest tilt: Seat tilt ratio of 1:3. Side tilt tension adjustment knob can be operated while taking back support for better judgment of comfort. 5) AUTO-RETURN MECHANISM: The Conference and Board room chair has an Auto-return mechanism to allow the user free movement while being sitted and after use guides the upper structure to rotate back to its original position enabling all chairs around the table to be aligned. 6) ADJUSTABLE BACK SUPPORT: Backrest is connected to the mechanism with a drop-lift mechanism which can be adjusted for the comfortable back support to suitable individual need. 7) ALUMINUM PEDESTAL: The pedestal is Pressure Die cast polished Aluminium.</p>	40.00	Nos		

	8) GLIDES: The glides are injection moulded in Black PP and assembled to Aluminum pedestal.				
66	Lab Stools Medium Back Chair on castors, 4 bend PU Arms, Chrome Plated Pipe Frame & Base, Synchro Mechanism & Gas Lift, Seat and Back Letherite Tapestry.	30.00	Nos		
67	Shifting of lab furniture and reassembly and maintenance of lab furniture	1.00	Job		
68	Providing /supplying the fabricated teak wood Three seater sofa with cushion seats and back covered with approved color fabric complete as required.	6.00	Each		
69	Providing /supplying the fabricated teak wood Two seater sofa with cushion seats and back covered with approved color fabric complete as required.	4.00	Each		
70	Providing /supplying the teak wood center table of size 4'x2' . The center table havning the 10mm thick glass top with beveled edges complete as required including melamine polishing.	3.00	Each		
71	Providing/ supplying the teak wood side table. The side table having the 10mm thick glass on top with beveled edges complete as required including melamine polishing.	2.00	Each		
72	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water thinnable priming coat with cement primer	600.00	sqm		
73	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade: New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	200.00	sqm		
74	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	200.00	sqm		
75	French spirit polishing : Two or more coats on new works including a coat of wood filler	4.00	sqm		
76	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	1,000.00	sqm		
77	Distempering with 1st quality acrylic distember (Ready mix) having VOC content less than 50 grams/ litre of approved brand and manufacture to give an even shade : Old work (one or more coats)	700.00	sqm		

78	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	1,000.00	sqm		
79	Wall painting with plastic emulsion paint of approved brand and manufacture to give an even shade: One or more coats on old work	450.00	sqm		
80	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : One or more coats on old work	100.00	sqm		
81	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge. With cement mortar 1:4 (1 cement : 4 fine sand)	10.00	sqm		
82	Painting with Fungal paint of approved brand and make Asian Paints & make i/c coating of Dr. Fixit U.R.P and apply anti fungal primer and finishing with anti fungal paint Two or more coat	400	Sqm		
	Total A				

Part B – Acid Resistance waterproofing treatment work of waste water well & lift wells at nano building					
S.No	Description of work	Qty	Unit	Rate	Amount
1	(a) Providing and laying Crystalline cement based treatment for waterproofing on the vertical walls and base of Lift Pitt and sewage tank area by fixing specified Red stone slabs \pm 20mm thick with cement slurry mixed with Greenseal 100 and GS 701 in specified proportion with a gap of \pm 20mm between stone slab and tank wall & floor. The gap to be filled up with Non shrink grout # mix of neat cement slurry and waterproofing compound in specified proportion. The treatment is done in layers and time consumed depends on the drying temperature & climate. Dismantling of old plaster and disposal of all waste materials are included in our scope of work. (b) Providing a Cement plaster 25mm thick with CM 1:4. (c) Providing & Installation of 2 coats of GS 6000 Bituminous water based PU coat to protect the Top layer of Waterproofing & Plaster from Acidic Sewage reactions..	525.00	Sqft		
2	Cleaning of existing waste water tank and lift wells pits with necessary repair of floor and side walls	3.00	Each		
	Total B				

(Signature of the Contractor)