



P.G.D.A.V. College (Eve.)  
(University of Delhi)  
Nehru Nagar, New Delhi-110065

**NOTICE INVITING TENDER**

Ref. No. 7/76(A)/Eve.


Dated: 15<sup>th</sup> May 2023

1. P.G.D.A.V College (Evening), University of Delhi invites OFFLINE TENDER in double covers bid systems i.e. Techno-commercial/financial bid from eligible and qualified Delhi/NCR region firms for the following services. Incomplete and partial bids shall not be accepted.
2. Name of Services: **Extension Work of P.G.D.A.V. College (Evening) in form of an Arya Samaj Yagya Shala**
3. Quantity & Specification: As per Tender Document / BOQ
4. Tender schedule is as follows:

1.	PRE BID Conference (A) Date & Time (B) Venue	N/A N/A N/A
2.	Closing date and time for submission of tender	22.05.2023 / 1600 Hrs.
3.	Tender Opening date & time (Technical Bid)	24.05.2023 / 1600 Hrs.
4.	Tender Opening date & time (Financial Bid)	26.05.2023 / 1600 Hrs.
5.	Place of Tender opening	P.G.D.A.V College (Evening) Nehru Nagar, New Delhi-110065

5. Earnest Money Deposit (EMD): Rs. 25,000/- (Rupees Twenty-Five Thousand). EMD shall be accepted from the participating firm in the form of Bank Demand Draft in favor of "The Principal, P.G.D.A.V. College (Evening), Nehru Nagar, New Delhi-110065".

6. Nonrefundable tender fee Rs. 1,000/- (Rupees One Thousand Only) shall also be accepted in the form of Bank Demand Draft in favor of "The Principal, P.G.D.A.V. College (Evening), Nehru Nagar, New Delhi-110065".
7. Original hard copies of tender fee and EMD and any other required certificate/documents must be submitted in P.G.D.A.V. College (Evening), University of Delhi, Nehru Nagar, New Delhi-110065 on or before opening of bid. EMD shall be valid for 180 days from the date of opening of the tender.
8. For any information / clarification in regard to the tender conditions, specifications & schedule etc. the tenderer can contact the office of the Architect on any working day before submission of the tender.
9. Purchaser : P.G.D.A.V. College (Evening), University of Delhi  
Nehru Nagar, New Delhi-110065
10. Consignee : P.G.D.A.V. College (Evening), University of Delhi  
Nehru Nagar, New Delhi-110065
11. Acceptance Authority: P.G.D.A.V. College (Evening), University of Delhi  
Nehru Nagar, New Delhi-110065

  
Prof. R.K. Gupta  
Principal



**EXTENSION WORK OF P.G.D.A.V.**  
**COLLEGE (EVENING) IN FORM OF**  
**AN ARYA SAMAJ YAGYA SHALA IN**  
**THE COLLEGE CAMPUS**

**ARCHITECT :**

MIGLANIS AND ASSOCIATES

86 NATIONAL PARK, LOWER GROUND FLOOR,  
LAJPAT NAGAR - IV, NEW DELHI - 110024

011-41729290

studio@miglanis.com

## APPENDIX

1. Name of Work : Extension work of PGDAV College (Evening) in form of a Arya Samaj Yagya Shala in the college campus.
1. Site : PGDAV College (Evening), Nehru Nagar, New Delhi-65
2. Earnest Money : Rs. 25,000/- (Rupees Twenty Five Thousand only) by DemandDraft.
3. Date of commencement : Within 7 days of Award of Work.
4. Date of completion : 3 calendar months from the date of commencement of work.
5. Minimum value of work done : Net value Rupees Twenty Five Lakhs for Interim Certificate.
6. Period of honoring Project Manager's certificate of R.A. payable bills : 14 days
7. Mobilization Advance/Retention Money : 10% of value of work against B.G. from Nationalized Bank, valid up to 6 months beyond date of Completion, shall form a Performance Guarantee, Retention Money; @ 5% shall be deducted from each bill.
8. Refund of Retention Money : The B.G./Retention money shall be refunded as follows:-  
i) 50% shall be refunded to the contractor on virtual completion & remaining Balance 50% shall be; refunded after six months of the virtual completion from" the date of virtual completion of the work.
9. Liquidated Damages : Rupees Twenty Five Thousand per week limited to Six weeks only.
10. Period of final Bill : 30 days for Valuation & payment.
11. Defects liability period : 6 months after virtual completion and handing over Possession of the Project as per relevant clause and Conditions of Contract.
12. Taxes : The rates shall be inclusive of all taxes & levies enforced
13. Escalation : Escalation of any kind shall not be payable on quoted rates at any stage of work.

OWNER

CONTRACTOR

### **IMPORTANT INFORMATION / DIRECTION & INSTRUCTIONS**

1. Tenderers are strongly advised to go through all the drawings & documents in connection with contract very carefully. The Contractor's should also see the existing Site and apprise themselves of all site conditions.
2. Tenders not properly filled, mutilated with incorrect calculations or generally not complying with stipulations conditions are liable to be rejected.
3. The work must be completed to the satisfaction of the Owner / Architect within the Specified time.
4. The tender form must be filled in English and all entries must be made by hand and written in ink, in words and figures. Any tender in which, there is Over-writing or erasure is liable to be rejected. Tenderers which Propose any alterations in the work specified in the said form of invitation to tender or in the time allowed for carrying out the work or which contain any other conditions of any sort, is / will be liable to be rejected,
5. All Tenderers are expected before quoting their rates to inspect the site of the proposed work, they are also advised to inspect and examine the site and its surrounding and satisfy themselves before their submitting tenders, as to the nature of the existing site conditions, the form and nature of the existing structures at site, the means of access to the site, the accommodation they may require including that required for labour and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or effect their tenders. A tenderer shall be deemed to have full knowledge of the site, whether he inspects it or not and no extra charges consequent to any misunderstanding or otherwise shall be allowed.
6. Every tenderer should inspect the source of materials, their quality and availability. The materials must strictly comply with the relevant specifications. Sample of the materials as required by the Owner / Architect in all cases shall be submitted for its approval before the Supply to the site of work begins. In absence of any specifications of any material or workmanship the same Shall have to be to the entire satisfaction of the Owner. He must go through all the drawings specifications and tender documents. Any further clarification required in the drawings and documents can be had from the office of the Architect.
7. The contractor's rate must also include the cost of all the materials, transportation of material to the site, all taxes, insurance and duties such as VAT, Excise, Octroi, Royalty or as applicable or any other taxes, etc., excluding Labour Cess and fixing or placing in position at all heights and depths in the building for which item of works is intended. The rates shall also include the cost of insurance of all types such as relating to the Project, adjoining properties and the persons involved and specially the earthquake. It should be clearly understood that claim for any extra VAT, WTC, excise duty, erection and hire of T&P sheds for materials, loss of materials / theft, claims due to fire, theft, flood, earthquake, lightening, burglary, civil commotion shall not be entertained in any case whatsoever, once the tender(s) are accepted. The successful contractor will be required to arrange for all facilities / utilities like water(recommended good for Extension), power, shelter for labor, godown for materials, watch and ward etc., at his own

cost. No increase in quoted rates once accepted by the Owner shall be entertained under any circumstances.

8. Water (recommended good for the Extension) shall be arranged by the owner at one point. The distribution and laying of pipes will be the responsibility of the contractor and at his own cost. Plumbing and distribution will be his own, and no extra shall be payable to the contractor including the cost of testing of water from laboratories.
9. Electricity connection required for Extension shall be arranged by the Owner at one point. All cabling, equipment's, installations, etc. shall comply in all respects with the latest statutory requirements and safety Provisions as per the Central / State Electricity Acts and Rules.
10. No alterations shall be made by the tenderer in the notice inviting Tenders, instructions to the contractor's contract form, conditions of contract, drawings and specifications. If any such alterations are made, the tender is liable to be rejected.
11. If tender is made by :
  - i) An individual it shall be signed with full name and complete address.
  - ii) If it is made by a firm, it shall be signed by a partner authorized by the firm. A certified copy of the registered partnership deed shall also be submitted along with the tender.
  - iii) In case the tender is made by or on behalf of a company incorporated under the Companies Act (1 of 1956) it shall be signed by its Managing Director duly authorized on that behalf and shall bear the official seal of the company.
12. Each tender shall furnish earnest money of Rs. 25,000/- (Rupees Twenty Five Thousand only) by Demand Draft made in favour of "The Principal, P.G.D.A.V. College (Evening)", payable at New Delhi / Delhi with the tender. The earnest money will be refunded to its tenderers after allotment of the work without any interest. Tenders without the earnest money will forthwith be rejected. The earnest money shall be retained in the case of the successful tenderer and shall not carry any interest, It shall be dealt with as provided for in the conditions of contract. Without prejudice to any other right or remedy available to the Owner, the earnest money deposit is liable to be forfeited in case the tenderer modifies the terms and conditions of the tender or revokes his tender during the validity period or upon acceptance of the tender or fails to start the work in accordance with the instruction of the Owner. The decision of the Owner in this regard shall be final and conclusive and is binding on the tenderer.
13. No excuse as regards for want of information of any particular point will be considered after the tender has been submitted. No advice or any change in rate or conditions after the opening of tender shall be entertained unless mutually agreed to.
14. The contract is an Item rate/Lump sum, all inclusive contract, including for Electrical & Sanitary & Plumbing BOQ's, etc and the contractor shall be paid for accordingly.
15. The Owner reserves the right to make any alteration, addition or deletion or may completely omit any item and may get any item executed from any other agency. The contractor has to co-ordinate with any agency employed by the owner and shall have no objection on this account and shall not claim the anticipated profit on such items.

16. All works shall be carried out in accordance with the CPWD Specifications, general conditions, drawings, bills of quantities and other contract documents. Specifications for works not covered in the documents shall be as per the latest Indian Standard Specifications pertaining to such item of works and in case of specifications not available in IS codes, current CPWD Specifications shall be applicable and will hold good. In case of any disputes, contradictions and ambiguities anywhere in the contract, the decision of the Owner / Architect shall be final, binding and conclusive.
17. The contractor to whom the work will be awarded will have to get an insurance policy for an amount equivalent to the contract value, without any extra charge to the Owner. The insurance policy must cover all other accidents such as earthquake, fire, untoward happening and contingencies including damages to
  - i) Labour /- any person
  - ii) Any other property at site & adjoining properties
  - iii) In connection with performance of the contract. The insurance policy shall be deposited with the Owner as the first beneficiary. The contractor shall keep the Owner indemnified against all sorts of damages / liabilities / litigations on this account. The Contractor shall not sublet any work without the permission of the Owner.
18. The contractor shall arrange all required Machinery & Equipment's, as required.
19. Tenders shall remain open / valid for acceptance for a period of 120 days from the date of opening of tenders. If any tenderer withdraws his tender before the said period or make any modifications in the terms and conditions of the tender which are not acceptable to the Owner, then the Owner shall without prejudice to any other right or remedy, be at liberty to forfeit the total earnest money absolutely.
20. Time Schedule : A Extension schedule (weekly) of execution of the work will be prepared by the Contractor and the same shall be got approved by the Architect in consultation with the Owner.

OWNER

CONTRACTOR

## SPECIFICATIONS & SPECIAL CONDITIONS

The following specifications shall be followed for execution of the work :-

1. a) As per CPWD specifications 1997 Vol. I to VII with up-to-date correction slips or latest CPWD specifications.
- b) Bye-Laws of Local Authority.
- c) Relevant ISI standard for works not covered by above.

In case building materials bearing ISI certifications marks are not available in the market, the quality of materials brought by the contractors shall be judged by the relevant Indian Standard Specifications, if available. In case of dispute as to the interpretation of the specifications, the decision of the Architect / Owner shall be final and binding on the Contractor.

### **WORK CONDITION**

2. The work condition in a running DU College is an important feature of this Contract, wherein the Contractor is Supposed to cordon off the area of work with proper and aesthetic barricading with signages so that the functioning of the College does not, in way, get affected. The contractor shall maintain good conditions in all the works executed till the completion and hand over of the entire work allotted to the contractor.

### **WORK PROGRESS**

3. The contractor shall progress on the different items of work simultaneously as far as possible so that minimum breakage and repairs are involved. The entire work shall be handed over in a Satisfactory and finished state.

### **PROCUREMENT OF SAMPLES .**

4. Except the materials proposed to be supplied by the Owner, the contractor shall have to produce samples of all building materials, finishing items and fittings sufficiently in advance and obtain approval of the Owner. All the materials and fittings used in the actual execution of the work shall strictly conform to the quality of samples approved. The sample approved shall be kept in the site office of the Owner and any work done with materials and fittings of unapproved quality will be liable to be rejected.

### **COMPRESSION STRENGTH TEST OF CONCRETE**

5. In case of concrete and reinforced concrete work the contractor; shall be required to make arrangements for carrying out compression Strength tests at his own cost. Concrete cubes shall be tested from renowned laboratory and the report shall be submitted to the Owner without any extra charges. The testing of materials and C.C. Cubes Shall be "done according, to the procedure laid down in CPWD specifications 1997 Vol. I to VII with up-to-date correction slips or latest specifications or relevant IS code. In case the results of the tested materials shall be found unsatisfactory the decision of the Architect shall be final whether to accept the same at reduced



rate or reject the work done altogether without any payment. The decision of the Architect / Owner will be binding on the contractor and he will not be absolved of the responsibility of the soundness of structure so constructed by him in any circumstances.

#### **EQUIPMENT / INSTRUMENT**

6. The contractor shall also have the full arrangement at his own cost for Theodolite, dumpy levels, mixers, weigh batchers, vibrators, hoists, tower crane etc., and engineering staff for site work.

#### **AMENDMENTS IN DRAWINGS**

7. If there are any amendments in the Architectural, structural drawings or electrical drawings the contractor shall follow the latest corrected drawings as per instructions and carry out the work as per agreement without claiming any extra charges for the change.

#### **MATERIALS SUPPLIED BY THE OWNER – RESPONSIBILITY**

8. It shall be clearly understood that the Owner takes no responsibility in the event the materials to be issued by the Owner are not available, due to reason beyond the control of the Owner, the contractor shall not be paid any compensation for the idle labour or for establishment or for any other reason of whatsoever nature.

#### **WATER AND ELECTRICITY FOR Extension**

9. Water good for Extension and electricity required for the Extension of whole project shall be arranged by the owner at one point. The contractor shall ensure that the water made available for Extension satisfies the ISI norms for water to be used for Extension.

#### **ARCHITECTS INSTRUCTIONS**

10. The contractor shall carry out and complete the said work in every respect in accordance with this contract and with the directions of and to the satisfaction of the Architects and the Owner. The Architect may from time to time issue further drawings and / or written instructions, details, directions And explanations which are hereafter collectively referred to as

‘Architects instructions’ in regard to: -

- a) The variation or modification of the design, quality or quantity of work.
- b) Any discrepancy in the Drawings or between the schedules of quantities and / or drawing and / or Specifications.
- c) The removal from the site of any materials brought there on by the contractor and the substitution of any other materials thereof.
- d) The removal and / or re-execution of any works executed by the contractor.

- e) The dismissal from the works of any persons employed thereupon.
- f) The opening up for inspection of any work covered up.
- g) The amending and making good of any defect to the Satisfaction of Architect.
- h) Provided that any substitution of item of work involving revision of rate will be intimated under the signature of the Owner.

The contractor shall forth with comply with and duly execute any work comprised in such Architects instructions provided always that verbal instructions, directions, and explanations given to the contractor or his representative upon the work by Architect /Owner shall, if involving a variation, be confirmed in writing by the contractor or his representative within seven days to Architect with a copy to the Owner and if not dissented from in writing within reasonable period by the Owners shall be deemed to be Architect's instructions within the scope of this contract. Contractor shall send to the clerk of work copies of such correspondence with the Architects / Owner.

If compliance with the Architects instructions as aforesaid involves additional work and / or loss beyond that contemplated by the contract then unless the same were issued owing to some breach of this contract by the contractor, the Owner shall pay to the contractor the price of the said work (as an extra to be valued as here in after provided) and / or expenses and / or loss if agreed upon by Owner in writing.

#### **THE CONTRACTOR TO PROVIDE EVERY THING NECESSARY**

11. 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 (BOQ) and specifications and general Instructions to the contractor whether the same may or may not be particularly shown or described therein provided that the same can reasonably be inferred there from. In case the contractor finds any discrepancy in the drawings or between the drawings and schedule of quantities, specifications and general instructions, the contractor shall immediately refer the discrepancy to the Architects in writing. The Architect will decide, in consultations, with the Owner, and then will communicate final decision in the matter.

#### **STATUTORY OBLIGATION NOTICES FEES & CHARGES**

12. The contractor shall conform to the provision of any act of the legislature relating to the works, and to the Regulations and Bye-Law of Municipality and any authority for water, electricity and other companies and / or Authorities with whose system the structure is proposed to be connected, and shall before making any variation from the drawings or specifications that may be necessitated by so conforming give to the Owner written notice specifying the variation Proposed to be made and the reason for making it and apply for instructions thereon.

In case the contractor does not receive within ten days any instructions, shall proceed with the work confirming to the provisions, regulations, or Bye-laws in question,

### **ROYALTIES**

13. The contractor shall bring to the attention of the Architects /Owner all notice required by the said acts, regulations or Bye-Laws to be given to any authority and pay to such authority, or to any public office all fees that may be properly chargeable in respect of the work and lodge the receipts with the Owner.

### **PATENT RIGHTS**

14. The contractor shall indemnify the Owner against the claims in respect of patent rights, and defend all actions arising from such claims, and shall themselves pay all royalties, license fees, damages posts not pay any such claims within ten days of its demand as envisaged in, terms of indemnity by the Owner, the Owner shall be within its right to recover the amount of any claim on this account from the claims of the contractor and pass on the same to the concerned authority and charges of all and every sort that may be legally incurred in respect thereof.

### **SETTING OUT WORKS**

15. The contractor shall set out the works and shall be responsible for the true perfect setting out of the same and for correctness of all the positions, levels dimensions and alignments of all parts thereof. If at any time any error in this respect appears during the progress of the works the contractor shall at his own expenses rectify such error so required to the satisfaction of the Architects without charging extra cost. The Owner shall have the powers to recover the cost of issued materials which have gone waste due to such dismantling, from the amount due to the contractor. The decision of the Owner shall be final and binding.

### **MATERIALS & WORKMANSHIP TO CONFORM TO DESCRIPTION**

16. All materials shall be procured by the contractor to complete the work as per specifications and in accordance with the Architects instructions. The contractor shall upon the request of the Architects furnish them with all invoices, accounts, receipts, and other vouchers to prove that the materials comply therewith. The contractor shall at his own cost arrange for and/or carry out any test of any materials which the Architect / Owner may require.

### **CONTRACTORS SUPERINTENDENCE & REPRESENTATIVE ON THE WORK .**

17. The contractor shall give all necessary personal superintendence during the execution of the work, and as long thereafter as the Architects / Owner may consider necessary until the expiration of the Defects liability period" stated in the appendix hereto. The contractor shall also during the whole time the works are in Progress employ at least one competent qualified civil engineer as his representative who Shall be constantly in attendance at the site while the men are at work. Any directions, explanations, instructions, or notice given by the Architects / Owner to such representative shall be deemed to have been given to the contractor.

As regards qualifications of the qualified Engineer, it is hereby agreed that the person shall be either degree holder with minimum Five years experience or diploma holder with minimum eight years Experience.

In case the contractor at any time fails to employ engineer in terms of this clause the Owner shall be entitled to recover compensation of Rs. 40,000/- per month for the relevant period.

#### **DISMISSAL OF WORKMEN**

18. The contractor shall if so required either by the Architects or by Owner immediately dismiss from the works any person employed thereon by him, who may in the opinion of the Architects or of the Owner, be incompetent or misconduct himself, and such person shall not be employed again on the works without the permission of the Architects or the Owner. The contractor shall not enter into any correspondence for stating the reason for dismissal of workmen as the case may be.

#### **ACCESS FOR ARCHITECTS TO WORK**

19. The items / materials other than the standard make shall be fabricated at site only. The Owner and its representative and the Architect and its representative shall at all reasonable times have free access to the works and / or to the workshops, factories, or other places where materials are lying or from which they are being obtained and the contractor shall give every facility to the Architect / Owner and its representative for necessary inspection and examination and test of the materials and workmanship. Any other person not authorized by the Owner or by the Architects except the representatives of public authorities shall not be allowed on the works at any time. All the woodwork & steel-work etc. will be done at the site of Owner.

#### **ASSIGNMENT AND SUB-LETTING .**

20. 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 sublet the contract or any part thereof or interest there in to any other party/person without the written consent of the Owner and no undertaking what so ever will relieve the contractor from the full and entire responsibility of the Contractor from active superintendence of the works during its progress.

#### **VARIATION NOT TO VITIATE CONTRACT**

21 . Alteration, omission or variation shall not vitiate this contract. In case the Owner think proper at any time during the progress of the works to make any alteration in or additions to or omissions from the works or any alterations in the kind of quality of the materials to be used therein they shall give notice thereof in consultation of the Architect, in writing to the contractor and the contractor shall there in after, add to or omit there-from such works as the case may require in accordance with such a notice. The contractor shall not make any alterations or additions to or omission from the works or any deviation from any of the provisions of the contract, stipulations, specifications or omissions shall in all cases be determined by the Owner in accordance with the provisions of clause 15 hereof, and the same shall be added to or deducted from the contract amount accordingly.

#### **DEFECTS & DEFECTS LIABILITY PERIOD**

22. Any defect, shrinkage, settlement or other faults which may appear within the defects liability period

stated in the appendix hereto or if none stated, then within six months after the actual completion of the works arising in the opinion of the Architects / Owner from materials or workmanship not in accordance with the contract shall upon the directions in writing by the Architect / Owner and within such reasonable time as shall be specified therein be amended and made good by the contractor at his cost and in case of default the Owner may employ and pay other persons to amend and make good such defects, shrinkage, settlement or other faults and all damages, loss and expenses consequent thereon or incidental thereto shall be made good and borne by the contractor and such damage, loss and expenses shall be recoverable from them by the Owner and shall be deducted by the Owner from any money due to or that may become due to the contractor, or the Owner may in line of such amending and making good by the contractor from any money due to the contractor a sum to be determined by Architect, equivalent to the cost of such work and in the event of such amount being in-sufficient, recover The balance from the contractor, together with any expenses the Owner may have incurred in connection therewith. Should any defective work have been done or materials supplied by any sub-contractors employed on the works whole have been nominated or approved by the Owner or The Architects as provided in relevant clause the contractor shall be liable to make good in the same manner as if such work or material had been done or supplied by the contractor had been subject to provisions of this clause , the contractor shall remain liable under the provisions of this clause not with-standing the signing by the Architects of any certificates or the passing of any accounts.

#### **CERTIFICATE OF VIRTUAL COMPLETION**

23. The Works shall not be considered as completed until the Architect with a written consent of the owner. have certified so in writing, and defects liability period shall commence from the date of such certificate of completion.

#### **OTHER PERSONS ENGAGED BY OWNER**

24. The Owner reserves the right to use the premises and any portions of the site for the execution of any work not included in this contract which they may desire to have carried out by other persons, and the contractor shall allow all reasonable facilities for the execution of such work but may not be required to provide any plant or materials for the execution of such work except by special arrangement with the Owner. Such work shall be carried out in such manner as not to impede the progress of the works included in the contract and the contractor is not to be responsible for any damage or delay which may happen to or be occasioned by such work.

#### **INSURANCE IN RESPECT OF DAMAGE OF PERSONS AND PROPERTY**

25. The contractor shall be responsible for all injury to any persons, animals or things and for all Structural and decorative damage to Property which may arise from the operation or neglect or default of himself or his employees or agents or any nominated sub-contractors employees or agent whether such injury or damage arises from carelessness, accident, earthquake or any other cause whatever in any way connected with the carrying out this contract. This clause shall be held to include, inter-alia, any damage to buildings, whether immediately adjacent or otherwise and any damage to roads, streets, footpaths, bridges or ways as well as all damage caused to the buildings, and works forming the subject of this contract, by frost or other inclemency of weather. The contractor shall indemnify the Owner and hold it harmless in respect of all and any expenses arising

from any such injury or damage to persons or property as aforesaid and also in respect of any claim made in respect of injury or damage under any act of Government or otherwise and also in respect of any award or compensation or damages consequent upon such claim. The contractor shall reinstate all damage of every sort mentioned in this clause, so as to deliver up the whole of the contract works complete and perfect in every respect and so as to make good or otherwise, satisfy all claims for damage to the property of third parties.

The contractor shall indemnify the Owner against all claims which maybe made against the Owner by its employees or by any member of the public or other third party in respect of anything which may arise in respect of the works or in consequence thereof and shall at their own expenses arrange to effect and maintain until the virtual completion of the contract, with an approved office a policy of insurance in joint names of the Owner and the contractor against such risks and deposit such policy or policies with the Owner from time to time during the currency of this contract. The contractor shall Similarly indemnify the Owner against all claims which may be made upon the Owner whether under the workmen 's compensation act or any other stature in force during the currency of this contract or at common law in respect of any employees of the contractor or any sub-contractors and shall at his own expense effect and maintain, until completion of the contract a policy of insurance in the joint names of the Owner and the contractor against such risks and deposit such policy or policies with the Owner from time to time during the currency of this contract.

The contractor shall be responsible for any thing which may be excluded from the insurance policies above referred to and also for all other damages to any Property arising out of an incident to the negligent or defective Carrying out of this contract. They shall also indemnify the Owner in respect of any costs Charges or expenses arising out of any claim or proceeding and also in respect of any award of or compensation of damage arising there from. The Owner shall be at liberty and is hereby empowered to deduct the amount of any damage, compensation, costs, charges and expenses arising or accruing from or in respect of any such claims or damage from any sum or sums due or to become due to the contractor.

#### **DATE OF COMMENCEMENT AND COMPLETION**

26. The contractor shall be allowed admittance to the site on the "Date of commencement" stated in the appendix and they shall there upon and forthwith begin the works and shall regularly proceed with to complete the same (except such painting or other decorative work as the Architects / Owner may desire to delay) on or before the date of completion stated in the appendix subject nevertheless to the Provisions for extension of time herein after contained. Time shall be deemed to be essence of this contract.

#### **TIME DELAY AND EXTENSION OF TIME**

27. Time is the essence of the contract and is specified in the contract documents or in such individual works order. As soon as possible after the contract is let, or any substantial works order is placed and before work under it is begun, the Owner and contractor in consultation with the Architects, shall agree upon a time and progress Chart. The chart shall be Prepared in direct relation to the time stated in the contract document or the work order for all completion of the individual items thereof and/or the contract or work order as a whole. It shall indicate the forecast of the dates for commencement and

completion of the various trade Progress or sections of the work, and shall be amended as may be required by agreement between the Owner and the contractor within the limitation of time imposed in the contract documents or work order, If the works be delayed :

a) By force majeure, or

b) By reason of loss or damage by fire, or

c) By reasons of civil commotion, local combination of workmen, Strike or lockout, affecting any of the trades employed on the works or,

d) By reasons of any other cause; which in the absolute discretion-of Owner is beyond contractor's control then in any such case the Owner herein after 'mentioned may make fair and reasonable extension in the completion date of work for which separate period of completion are mentioned in the contract documents or work order, as applicable, Upon the happening of any such event causing delay, the contractor shall immediately give notice thereof in writing to the Architects with a copy to Owner but shall nevertheless use constantly his best endeavor to Prevent or make good the delay and shall do all that may reasonably be required to the satisfaction of the Architects / Owner proceed with the works, however, extension of time shall be granted as deemed fit in the matter, without increase in costs.

The said contract shall be completed within Ten months including the monsoon period, from 7th day after receiving letter of award of work /date of sanction.

### **LIQUIDATED DAMAGES**

30. If the contractor fails to complete the works by the date of completion stated in the appendix or within any extended time vide this clause the contractor shall be liable to pay damage @ Rupees Twenty Five thousand per week limited to six weeks only.

### **EMPLOYMENT OF LABOUR**

31. a) The Contractor shall apply for and obtain the necessary permission from Govt. Authorities for employment of labour at site. The Owner will sign all forms required to be signed before submission.

b) The contractor shall observe all labour laws applicable including payment of Wages Act, Minimum Wages Act, Workman's Compensation Act etc., and keep the Owner free and absolve him from any action by any Govt, authority by the contractor violating any applicable labour laws.

### **TESTING OF MATERIALS**

32. The Architect and the Owner shall be entitled to have tests carried out as specified by ISI for any materials supplied by the Owner or the Contractor, at the cost of the contractor and the contractor shall provide at his own expenses all facilities which the Architect and the Owner may require for this purpose. The cost of the material consumed as well as the cost of testing from approved laboratory shall be born by the contractor. Copy of the test reports shall be submitted to the Architects / Owner.

### **REJECTION OF MATERIALS**

33. The Architects & Owner shall have absolute powers to reject or order removal of any or all the materials if brought to the site by the contractor which is not in accordance with the contract specifications or does not conform in character or quality to sample approved. In case of default on the part of the contractor in removing rejected materials, the Architect & Owner shall be at liberty to have these materials removed by other means at the cost and risk of the contractor. The contractor shall bring material conforming to quality and specifications as per approval to substitute the rejected materials.

### **TERMINATION OF CONTRACT BY THE OWNER**

34. If the contractor being a firm commits any 'act of insolvency' or shall be adjudged an insolvent or being an incorporated company shall have an order for compulsory winding up made against it or pass an effective resolution for winding up voluntarily subject to the Supervision of the court or if the official assignee of the contractor shall repudiate, or if the official assignee or the liquidator in any such acts of insolvency or winding up shall be unable within 7 days after notice to him requiring him to do So, to show to the reasonable satisfaction of the Owner that he is able to Carry out and fulfill the contract and to give security thereof if so required by the Owner.

or, If the contractors (whether firm or incorporated company) shall suffer execution to be issued,

or, Shall suffer any payment under this contract to be attached by or on behalf of any of the creditors of the contractors.

or, Shall assign or sublet this contract without the consent in writing of the Owner first obtained.

or, Shall charge or encumber this contract or any payments due or which may become due to the contractor thereunder :

or, if the Owner is satisfied that the contractor,

a) has abandoned the contract.

b) has failed to commence the works or have without any lawful excuse under these conditions suspended the progress of the works for 14 days after receiving from the Architects / Owner written notice to Proceed, or

c) has failed to proceed with the works, with such due diligence and failed to make due progress as would enable the works to be completed within the time agreed upon, or

d) has failed to remove materials from the site or to pull down replace work for seven days after receiving written notice from the Architects / Owner that the said materials or work were condemned and rejected by the Architects / Owner under these conditions, or



e) has neglected or failed persistently to observe and perform all or any of the acts, matters or things by contract to be observed and performed by the contractor for seven days after written notice shall

have been given to be contractor to observe or perform the same, or

f) has to be detriment of good workmanship or defiance of the Architect's instructions to the contrary sublet any part of the contract or if the Owner / Architects is of the Opinion, which opinion shall be

final and binding on the contractors that the contractor is not proceeding with the work with due diligence or in proper and workman like manner-and that the contractor fails to commence the work and Suspends the progress of works for 14 days after receiving from the Owner / Architects written notice to proceed.

Then and in any of the said cases the Owner may not with Standing any previous waiver, after giving seven days, notice in writing to the contractor, determine the contract but hereby without as aforesaid (of which termination or recession notice in writing to the contractor under the hand of Owners shall be conclusive evidence) upon such determination or recession the Security Deposit of the contractor shall

stand forfeited and shall be absolutely at the disposal of the Owner,

After determination / termination of the contract, the Owners shall be at liberty to get the work executed in any manner at the risk and cost of the outgoing contractor.

## **ARBITRATION**

35. Any other decision, opinion, direction, certificate of valuation given by the Architects not relating to any of the excepted matters or any refusal of the Architects to give any of the same, and all disputes and differences of any kind arising out of or in connection with the contract or the carrying out of the works (whether during the progress of the works or after their completion and whether before or after the determination, abandonment, or breach of the contract) shall be referred to a single sole Arbitrator appointed by the Owner in accordance with the provision of the Indian Arbitration and Reconciliation Act. 1996, or any Statutory modifications thereof for the time being in force. Provided always that Owner shall not generally withhold the payment of an interim certificates nor the contractor in any way delay the carrying out of the works by reasons of any such matters, question or dispute to be referred to arbitration, but shall proceed with the works with all due diligence and shall until abide by the decision of the Architects or the Owner as the case may be, and no award of the arbitrator or the arbitrators or the umpire shall relieve the contractor of his obligations to adhere Strictly to the Architects /Owner's instructions with regard to the actual carrying out of the work. The arbitrators at their first sitting shall nominate an umpire to whom the dispute would be referred to in case of disagreement between them. The umpire, on reference to him by the arbitrator, will give his award without the necessity to examine any additional evidence. But | the decision of the umpire shall be final and explanatory with reasons and binding upon both parties, and no extra cost shall be payable to the contractor.

### **SCAFFOLDING, SHUTTERING ETC.**

36. The contractor shall supply, fix and maintain at his own cost during the execution of any work, all the necessary centering, scaffolding, staging, planking, timbering, strutting, shorting, pumping, fencing, hoarding, watching and lighting by night as well as by day, required not only for the execution and protection of the said works, but also for the protection of the public and safety of any adjacent, roads, streets, clears, vaults, pavements, wall, houses, buildings and all other erection matter, or things, and contractor shall take down and remove any or all such centering, scaffolding, staging, planking and the timbering, strutting Shoring etc., as occasion shall require or when ordered to do so, and shall fully reinstate and make good all the matters and things disturbed during the execution of the works to the Satisfaction of the Architects/ Owner.

### **MUNICIPAL BYE-LAWS**

37. All soil, filth or other matter of an offensive nature out of any trench, sewer, drawing cesspool, or other place shall not be deposited. on the surface but shall at once be carted away by the contractor to some pit or place arranged by him. Contractor shall meet all requirements of Municipality by paying them all required charges at their cost and strictly act according to municipal regulations and regulation of other authorities, including amendment thereto. The contractor shall coordinate all local permissions etc relevant authorities, to ensure smooth functioning of the Work.

### **DIRECT PAYMENT**

38. All works for which provisional sums of money are provided may be selected or ordered from any manufacturers or firms at the discretion of the Owner and Owner reserves to itself the right of paying direct for any such work. The contractor shall not be entitled to any profit for provisional items(Refer schedule Item).

### **PROCUREMENT OF MATERIALS**

39. That the responsibility of procuring various items of materials which will be required to be incorporated in the works will be that of the contractor. However, if the Owner desires he may at its discretion arrange to get some items and issue the same to the contractor for use in this project. In such a case the market rate of such material will be deducted from the contractors bill. It shall also be the responsibility of the contractor to make his own arrangements for procurement of these materials for which necessary permits / certificates have been obtained by the Owner.

Provision of fore-going sub-clause shall apply mutatis-mutandis in the case of steel reinforcement or Structural steel sections (each diameters, section of category shall be considered Separately) except that the theoretical quantity of steel shall be taken as the quantity as per design or as authorized by the Architects / Owner, plus three percent wastage, due to cutting into pieces shall be allowed as variation. The cost of such variation or wastage beyond permissible limit shall be recovered from the amount payable or security deposit to the contractor, if not returned by the contractor, at the rate mentioned under schedule of materials to be issued to the Contractor.

The provisions made above are without prejudice to the right of the Owner to take action against the contractor under the conditions of the contract for not doing the work according to the Specifications,

which could lead to non-acceptance of the work executed and in that circumstances, the entire loss shall be borne by the contractor.

#### **STATUTORY INCREASE CLAUSE**

40. Escalation of any kind shall not be payable on rates quoted by the contractor at any stage of work,

#### **RECTIFICATION .**

41. In-all cases of faulty execution and finish of the works due to use of faulty, defective and inferior materials in the Extension works, and due to their bad workmanship contractor shall be exclusively liable for he payment of damages to the Owner as determined by him (Owner), in addition to getting rectified the said defective works at the side & cost of the contractor.

#### **WAGES**

42. The contractor shall comply with all the provisions of the minimum wages Act, 1948, contract labour (Regulation & Abolition Act 1970) and rules framed there under and other labour laws affecting contract labour that may be brought into force from time to time. The contractor shall be liable for any damages or loss caused to the Owner by violation of the provision of this clause. A violation of this clause Shall also be deemed to be a breach of contract.

The contractor shall submit, every quarter, a return in duplicate in the prescribed performa to the Owner for the labour engaged by him during the quarter.

#### **SPECIFICATIONS**

43. The whole work shall be executed strictly according to the CPWD Specifications 1997 Vol. I to VII with up-to-date correction slips and the particular specifications for certain items enclosed and as per the direction of Architects / Owner.

#### **Extension PROGRAM (BAR CHART)**

44. The contractor has to submit the detailed Extension program for the completion of the work showing various stages. The progress of the work shall be according to the concrete Extensionprogram.

#### **GATE-KEEPER AND WATCH-MAN**

45. The contractor shall Provide and pay at his own expense the wages of all watch and ward personnel for the effective protection of the works, all materials to be used upon the works and workmen till the buildings are completed & handed over to the Owner or till such time alternative arrangements are made by the Owner, The Owner reserves the right to employ additional watch & ward personnel. In case of loss of any material, the contractor will be called upon to replace / provide the Same at his own expense.

**RUNNING / FINAL BILL .**

46. The running bills will be submitted by the Contractor subject to the condition that the net value of work done is not less than Rupees One Lakhs (net value means the total value of work done minus the cost of the materials supplied by the Owner). The bills shall be Supported with the measurement books and shall be duly signed by the Contractor & Site Engineer. For any dispute as regards evaluating the final amount to be paid to the contractor in 'connection with the contractor's final bills amount and value of all authorized extra item, the final decision of the Owner will be final and binding.

**JURISDICTION**

47. The Jurisdiction of the Contract shall be only & only in Delhi.

## **RATES : TO INCLUDE**

10. The rates in the schedule shall also include but not limited to the following :-

- a) Cost of transport of Extensional: plants, equipment's machines, personal etc., to site and their withdrawal on completion of work,
- b) Storage and safety of materials at site.
- c) Supplying, transporting to site, unloading, protecting, handling and installation of materials in accordance with the contract.
- d) Accommodation of the contractor's staff and labour and their welfare.
- e) All freights, taxes, levies, duties, royalties, G.S.T., etc.
- f) Insurance of works for earthquake, fire, theft, Extensional plant, labour and material at site including the materials supplied by the Owner.
- g) Labour charges for the works to be executed at all depths & heights of the buildings unless mentioned otherwise.
- h) Expenses toward the following tests :
  - i) Cement Concrete Cube Test
  - ii) Water Tests
  - iii) Any other test, if required.
- J): DE-watering & shoring
- k) Any other expense specified in the tender.
- l) Local bodies coordination to ensure smooth functioning of the Project.
- m) Proper and Aesthetic barricading with signage.

## **PROJECT, SCOPE OF WORK FOR ITEM RATE CONTRACT**

### **PROJECT :**

- \* Extension work of P.G.D.A.V. College (Evening), Nehru Nagar, New Delhi - 110065 in form of an Arya Samaj Yagya Shala.

### **1.0 SCOPE OF WORK :**

Extension work of P.G.D.A.V. College (Evening), Nehru Nagar, New Delhi - 110065 in form of an Arya Samaj Yagya Shala, as per the drawings & details:

- a) All Civil & Finishing “ as per Specifications”
- b) Plumbing: SCI Pipes (Jindal Hissar) for soil, waste & vent pipe, GI pipe for water supply & uPVC pipes for rain water disposal, Plumbing fittings, Sanitary ware & Fixtures.
- c) Conduiting for Electrical points, Sub main Wiring, TV outlets, Telephone points, Security systems, A.V. System, for housing modular switches and distribution boxes, Main Panel, Electrical fittings & Fixtures.

### **3.0 MODE OF MEASUREMENT & VALUATION**

Item rates shall include all items mentioned in brief description of items as per detailed General specifications, drawings & detail.

All work shall be done as per latest drawings even if not mentioned in the specifications. Architect in consultation with the Owner can make minor changes in any drawing at any time and no extra shall be paid to the Contractor on that account even if some dismantling / re-building is to be done on that account.

#### **A. BUILDING WORK :**

- i) Item rates shall be quoted for Extension & Renovation of the First Floor Admin. Block, including all Civil & Finishing works, internal & external, Sanitary & Electrical works and shall include all items mentioned under scope of work, specifications and brief description of items to be provided by the Contractor.

### **4.0 RATES TO BE QUOTED BY THE CONTRACTOR**

4.01 Contractor shall quote Item Rates, except for Sanitary & Plumbing works, as per the Bill of Quantities, specifications, brief description of items, drawings & details and instructions of the Architects.

### **5.0 GENERAL**

The specifications are intended for general description of quality and workmanship of various items of work, finished work, and not intended to cover minute details and shall be the same as being described in Specifications in the Tender Documents. In the absence of any specifications in the Tender Documents, it shall be strictly as per CPWD standard specifications Volume I to VI with up to date relevant ISI standards.

Rates quoted shall include labour, materials, site clearing & grading, leveling and earth work, materials, tools, power tools, plants, applications, levies, contractor's supervision, overheads, profits, all taxes. And all that is necessary for the satisfactory completion of the project as Tender conditions, drawings, details and requirement of the Architect & Owner.

Work shall be executed Strictly as per specification, drawings and details and every item of work includes execution of items and testing & commissioning.

OWNER

CONTRACTOR

### LIST OF APPROVED MAKES / BRANDS OF VARIOUS MATERIALS

All the materials specified to be used in the work must conform to the following brands name, shall be factory made and of first quality, BIS /IS marked wherever available. Fabricated items shall be manufactured in accordance with the CPWD / ISI specifications and be of first quality. Samples of all materials to be used shall be submitted and got approved before procurement and Architect / Owner reserves the right to select any of the brand names specified herein for use. In case if there exist non availability of a particular brand amongst the listed brands an equivalent substitute brand shall be allowed on prior approval of Architect / Owner for a limited period only.

S. No.	MATERIALS	MANUFACTURER/SUPPLIER/MAKE
1	BRICKS F.P.S.	FIRST CLASS DESIGNATION 100 FROM APPROVED KILN OF LOCALLY AVAILABLE
2.	A) COARSE SAND B) FINE SAND	BADARPUR / GHAGGAR SAND/STONE DUST RIVER BED JAMUNA SAND
3.	CHLORPYROPHOS	AGRO CARE, AMVAC, DURSBAN, THIDDAN
4.	A) AGGREGATE  B) READY MIXED CONCRETE (RMC)	QUARTERZITE FROM APPROVED QUARRY BIRLA/L&T/UNITEC/HALCON
5	A) GREY CEMENT (43 GRADE) B) WHITE CEMENT JK / BIRLA	ACC / BIRLA / JK / L&T
9.	WATER PROOFING COMPOUND (LIQUID)	PIDLITE, CICO, FOSROC,SNOWCEM
10.	NON SHRINK GROUT	BAL ENDURA, PIDLITAE, FISROC BASF
11.	PIGMENT	SUDERSHAN CHEMICAL INDUSTRIES LTD. TATA PIGMENT
12.	REINFORCEMENT STEEL TOR / TMT	SAIL / TATA / TISCO
10.	T-SECTION	SUPREME / METALCRAFT
11.	WALL PUTTY	GOLDSIZE PUTTY BY SHALIMAR PAINTS LTD., J K. BIRLA
12.	POLYSUPLHIDE SEALANT	PIDLITE, TUFFSEAL, CHOSKEY ASIAN. FOSROC, BASF
13.	SILICON SEALANT	DOW CORNING, GE



14.	FLATS, SQUARE SECTIONS FOR GRILLS (MACHINE DRAWN)	SUPREME / STANDARD
15	WATERPROOF CEMENT PAINT	SUPER SNOWCEM /JOHNSON & JOHNSON
16.	GLAZED CERAMIC TILES	Ist Quality H & R, JOHNSON, KAJARIA, NITCO, ASIAN, RESTILE, RAK
17.	VITRIFIED TILES	Ist QUALITY of KAJARIA, NITCO, SOMANY, ASIAN, RESTILE, RAK
18.	GRC PRODUCT	ADITYA BIRLA, NARMADA FIBRES & DECORATES
19.	GLASS MOSAIC TILES	MRIDUL, ACCURE
20.	ACID RESISTANCE TILE	PELICAN CERAMIC, JENICO , REFRACTORIES,
21.	INTERLOCKING PAVER BLOCKS	KK KONKRETE PRODUCT,PAVER INDIA, NITCO
22.	KERB STONE	KK KONKRETE PRODUCT, PAVER INDIA, NITCO
' 23.	ALUMINIUM HARDWARE	EARL BIHARI, ECIE, CROWN,SAVEX
24.	SS FITTINGS	JINDAL, OZONE, DROMA
25.	ANCHOR FASTNER	HILTI, FISHSER /
26.	ALUMINIUM SECTIONS	INDAL, HINDALCO, JINDAL,BHORUKA
27.	ROLLING SHUTTERS & GRILLS	STANDARD, SWASTIK, AAKASH, PRAKASH
28.	STAINLESS STEEL SCREWS :	KUNDAN, ARROW, JINDAL
29.	ALUMINIUM EXTRUSION SECTIONS	HINDALCO, INDALCO, JINDAL MAHAVIR, BHORUKA
29.	HARDWARE & BRASSWARE	SHALIMAR, INDO -BRASS, AMARBHOY DOSSAJI, EARL BIHARI, SAVEX
31	LOCKS/LATCH	GODREJ, HARRISON, GEZE
32.	DISTEMPER & PAINTS	ICI, ASIAN PAINTS, BERGER PAINTS NEROLAC
33.	TEXTURED PAINT	SPECTRUM, ASIAN, ICI
34.	FLUSH DOOR & PLYWOOD	ARCHID, KITPLY, GREEN PLY, CENTURY
35.	LAMINATES	MERINO, GREEN PLY, CENTURY (CONFORMING TO IS:710)

36.	GYPSUM BOARD	INDIA GYPSUM, BORAL, LA GYP
37,	PRELAM PARTICLE BOARD	NOVAPAN OR EQUIVALELNT (Exterior Grade only)
38.	PVC WATER STOP SEAL	MARUTI RUBBER UDYOG,JYOTI
39.	POLY CARBONATE SHEET	GE, POLYGAL,DANPALON
a)	EPDM MEMBRANE WATAERPROOFING	FIRESTONE, STP,CARLISLE
41,	GLASS	SAINT GOBAIN, MODI
42,	FALSE CEILING (GYPSUM BOARD)	INDIA GYPSUM, EVEREST, LA GYP
43.	FALSE CEILING (METAL)	ARMSTRONG, HARSONS,LUXLAON
44.	FALSE CEILING (MINERAL)	ARMSTRONG, NITTOBO
45.	NUT BOLTS	KUNDAN, PUJA, ATUL
46.	SECURITY DOOR	GODREJ, STEELAGE
47.	SHUTTERING Plywood	ANCHOR, KITPLY, SWASTIK
48,	SANITARY FIXTURES INCLUDING WALL HUNG WC	PARRYWARE, HINDWARE,CERA, JAGUAR
49.	CP&SS FITTINGS	GEM, LAURENT, JAQUAR,SAS
50.	FLUSH-VALVE	JAQUAR, HINDWARE, GEM, ORIENT
51.	TOILET ACCESSORIES	GEM, LAURET, CERAMIC
52.	CI PIPES.	JINDAL, ELECTROSTEEL, RIL, NICCO, BC
53.	SW PIPES	DEVERAJ ANAND, PERFECT, SOOD & SOOD
54.	CI PIPE FITTING	RIF,KAJECO,B.C.,SRIF, NICCO
55.	GI/MS PIPES	TAT, JINDAL, PRAKASH
56.	GI FITTINGS	ZOLOTO, UNIK,KS,R BRAND
57.	CPVC PIPES	ASTRAL,AJAY FLOW GUARD, GLYNWED
58.	PVC PIPES,SWR/UPVC PIPE	FINOLEX, KISAN, SUUPREME,

		PRINCE PRAKASH
59.	RVC STORAGE TANK	SINTEX, UNIPLAS, DURAPLAST
60.	RCC PIPES (ISI MARKED}	IHPH, AKSHAY, or as approved By EIC
61.	CI MANHOLES FRAME & COVERS	RIF, KAJECO, B.C.( Double Seal Only)
62	STAINLESS STEEL SINK	AMC, NEELKANT, ORIENTAL NIRALI
63.	WC SEAT COVER	COMMANDER, PERRYWARE, DIPLOMAT, HINDWARE
64.	COCKROACH TRAP	CHILLY (CCT), SONY
65.	BALL VALVE	ZOLOTO, CIM, TBM
66.	BUTTERFLY VALVE	AUDCO, ADVANCE, ZOLOTO, VENUS
66.	NON RETURN VALVE	ZOLOTO, ADVANCE, KIRLOSKAR, VC, LEADER, AUDCO
68.	HAND DRIER -	KOPAL OR APPROVED EQUIVALENT
69.	GEYSER	BAJAJ, RACOLD, VENUS, V GUARD
70.	CP WASTE SPREADERS	DEVELOP, ORIENT, URINAL
71.	MCB	HAGER, SIEMENS, ABB, LEGRAND
72.	DISTRIBUTION BOARDS WITH MINIATURE CIRCUIT BREAKERS ELCB	HAGER, LEGRAND, SIEMENS
73.	PVC FRLS INSULATED COPPER CONDUCTOR SINGLE CORE	RALLISON, FINOLEX, LAPP STRANDED WIRES OF 650/1100 V GRADE
74,	TELEPHONES WIRES	RALLISON, FINOLEX, LAPP
75.	MODULER TYPE LIGHT & POWER	LEGRAMD (MOAIC RANGE)
76.	ACCESSORIES (SWITCHES, SOCKET	CLIPSAL (OPAL) WIPRO, MK
77.	PVC CONDUIT & ACCESSORIES	BEC, AKG, PRECISION (ISI MARKED)
78.	M.S CONDUIT & ACCESSORIES	BEC, AKG (ISI MARKED)
79	GI CONDUIT & ACCESSORIES	BEC, AKG, (ISI MARKED)

80.	TELEPHONES TAG BLOCK	KRONE OR EQ. APPROVED
81.	CEILING FAN (1S:374-1979)	KHAITAN, USH,CROMPTON
82	EXHAUST FAN (1S:2312-1967 & 1S:3588-1987)	HAVELLS, USHA, CROMPTON
83.	LIGHT FITTING(FIXTURES)	PHILIPS, GE, THORN
84.	LAMPS	PHILIPS, OSRAM

OWNER

CONTRACTOR

## **BRIEF SPECIFICATIONS**

### **1. EARTH WORK AND ANTI-TERMITE TREATMENT**

Earth work in excavation over areas (exceeding 30cm in depth, 1.5m in width as well as 10 Sq m. on plan) in all kinds of soil including disposal of excavated Earth up to all lead & lift. disposed earth to be leveled and neatly dressed, bailing out rain water and sub-soil water to keep the excavation area dry.

Filling available excavated Earth up to all depth in trenches, plinth sides of foundations etc. in layers not exceeding 20 cm in depth consolidating each deposited layer by ramming and watering.

Filling in Jamuna sand under floors in basement & ground floor including watering ramming consolidating and dressing complete.

Providing and injecting chemical emulsion for pre-Extensional anti-termite treatment and creating a chemical barrier under and around the column pits, wall trenches basement excavation, top surface of plinth filling junction of wall and floor along the external perimeter of building expansion joints. Surroundings of Pipes and conduit etc. complete. Chloroperiphos emulsifiable concentrate (durmet 20 EC)

### **2. CONCRETE WORK**

Providing and laying cement concrete under floors in 1:5:10 (1 cement : 5 coarse sand : 10 brick aggregate 25 mm nominal size).

Providing and laying cement concrete in footing and bases for columns in 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size),

Providing and filling brick ballast 40 mm nominal size in roofs and sunk floors including light ramming.

### **3. REINFORCED CEMENT CONCRETE**

Providing and laying reinforced cement concrete machine batched, machine mixed and machine vibrated design mix of required grade (minimum M-25 or richer) as per structural drawings including the admixtures in the recommended proportion in rafts, footings, bases of columns and pile caps etc.

Providing and laying reinforced cement concrete machine batched, machine mixed and machine vibrated design mix. of required grade (minimum M-25. or richer) including the admixtures in the recommended proportion in suspended floors, roofs, chajja, shelves, landings, balconies, beams, columns, walls, stairs, etc.

Providing and fixing GI chicken mesh jaali before plastering over junction of RCC & BW in portion of columns beams, walls, etc., as per the direction of the Architect.

Providing and fixing centering & shuttering of any size and Shape including strutting, propping, bracing etc. and including its removal after specified period complete (plank shuttering will not be allowed) for Foundation, footing, bases of columns , pile Caps, Suspended floors, roofs, landings, chajjas, shelves ,balconies, Lintels, beams, girders, bressumers, cantilevers and brackets, Columns, pillars, posts and struts, Walls, Stairs (excluding landings) except spiral staircases (including landings), Arches, domes, complete for all RCC work.

Providing and fixing in position HYSD reinforcing bars for RCC works including Straightening, cutting, bending & binding with 18 gauge MS annealed binding wire, including cost of binding wire, supplying and fixing cement mortar spacer blocks etc. complete as per drawing, specifications and as directed.

Providing and laying integral cement based Tape crete treatment for waterproofing of Sunken flooring in toilets after laying CI pipes.

Providing and filling Brick coba with water proofing compound as a fillar in the sunken areas of toilets, in addition to Tape crete treatment.

#### **4, BRICK WORK**

Providing first class, brick masonry in 230 mm thickness or above in walls, pillars, railings, foundations etc. all as per drawing or as directed having crushing Strength not less than 75 kg / sq m. in cement mortar 1: 6 {1 cement: 6 coarse Sand) after immersing the bricks at least for six hours in water before use complete in all respects.

Providing first class brick masonry in superstructure in 115 mm thick walls having crushing strength not less than 75 kg / sq m in cement mortar 1: 4 {1 cement : 4 coarse sand) after immersing the bricks at least for six hours in water before use & reinforced with 2 Nos. 6 mm dia MS round bars at every forth course embedded in cement mortar complete in all respects.

#### **5. WOOD WORK**

Providing and fixing Second class Teak wood (Ivory Coast teak wood) (seasoned) door frames out of 125 x 62.5 mm size including Single / double rebate and fixed in position with necessary hold fast or dash fastner as per Specifications and as directed, in cement concrete block (300 x 230 x 150) 1:3: 6 (1 cement: 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) including applying two coats of oil based wood preservative complete (seasoning certificate to be provided) all as shown in drawings and as directed.

#### **6. STEEL WORK**

Providing & fixing railings in staircases of approved design using bright finish stainless steel balusters & hand rail including fixing in position with screws, fasteners, etc. complete as per drawing.

#### **7. FLOORING**

Providing 100 mm thick cement concrete 1: 2: 4 (1 cement: 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) at ground floor for receiving flooring complete .

Providing and Laying Kota/Italian/Granite stone flooring, as per Specifications, with coloured marble inlays/borders as/design and details, all complete.

## **8. FINISHING**

Providing 6 mm cement plaster to ceiling of mix 1:3 (1 cement : 3 sand comprising of 25% coarse sand and 75% fine sand) including making groves around in the ceiling along the walls and making drip coarse wherever required, in areas having RCC slabs.

Providing 12 / 15 mm cement plaster of mix 1: 6 (1 cement : 6 sand comprising of 25% coarse sand and 75% fine sand) for internal: work including making groves, racking joints, curing, etc.

Providing 12 / 15 mm cement plaster of mix 1: 4 (1 cement : 4 Sand comprising of 75% coarse sand and 25% fine sand) on external surfaces including making groves, racking joints, curing, etc,

Finishing walls with premium acrylic smooth exterior paint with Silicone additives 'Snowcyl-XT' of M/s. Snowcem India Ltd. Or equivalent of required shade two or more coats applied @ 1.43 ltr/10 sqm. over and including base coat of waterproofing cement paint snowcem plus or equivalent applied @ 2.2 kg/10 sqm.) on external walls wherever required.

Providing priming coat with ready mixed pink or gray primer of approved brand and manufacture on wood work,

Painting with synthetic enamel paint of approved brand to give an even shade two or more coats on new work in all shades over an under coat of ordinary paint on steel work.

## **9. SANITARY INSTALLATION**

Providing and fixing SCI pipe (Jindal Hissar) of required dia. conforming to relevant ISI including bends, tees (plain / door}, floor traps, pipe clips, terminal guards, etc. including providing Lead caulked joints as/specs, testing, cutting and making good the walls for soil, waste and vent pipes complete as per drawings & direction.

Providing and fixing stainless steel jali 75 mm dia. including , finishing with white cement at all floors & levels.

Providing and fixing GI pipe (medium class) of required dia. With fittings including cutting and threading the pipe and making long Screws etc, at terrace for tank connections complete as per drawings.

Providing and fixing GI/CPVC pipes of required dia. Complete with fittings and clamps including elbows, fixing, chase cuttings for internal and external work and making good the walls etc. complete as per drawings and providing plugs taps.

Providing and fixing gun metal gate valve with CI wheel (screwed end) of approved quality & make complete as per drawings.

Providing and fixing mirror of required size fixed over hard board with polished teak wood moulding as per design all around the mirror for common toilets.

## **10. ELECTRICAL WORK**

Providing and fixing in position uPVC conduit heavy class conforming to IIS-9537/81 including all accessories concealed or exposed as required for electrical points (light points, power points, AC points, plug points, exhaust fan points as per drawings), sub-main, TV / Telephone / Security system / Fire Alarm & Detection system including cast iron junction boxes and covered with, MS cover plate, GI pull wire, cutting brick work and making good the same complete as per drawings & direction of the Architects.

Providing and fixing GI boxes for housing electrical switches & sockets with cement mortar including cutting the brick work and making good the same complete as per drawings & direction of the Architects. .

Providing and fixing of sheet steel MCB distribution board 220 /415 V AC supply on surface recessed complete with tinned copper bus-bar, din-bar, detachable glad plate, inter connections dust & vermin proof including painting earthing etc. as required for shops, offices & common areas without MCBs

Providing and fixing GI earth strip, GI plate earthing for meter boards / panels complete as per requirements, drawings & directions.

OWNER

CONTRACTOR



## **BRIEF DESCRIPTION OF ITEMS TO BE EXECUTED UNDER THE ITEM RATE CONTRACT**

- |     |                         |  |
|-----|-------------------------|--|
| 1.  | FOUNDATION              | Normal Brick work foundations complete as per structural design and drawings.  |
|     | STRUCTURE               | 230 mm thick brick walls and 115 mm thick partition walls as per Architectural / structural design & drawings.   |
| 3.  | REINFORCEMENT           | Straightening, Cutting, Bending & Binding with 18 gauge MS annealed binding wire, including cost of supplying and fixing with cement mortar spacer blocks etc. complete as per drawing, Specifications and as directed   |
| 4.  | ANTI-TERMITE TREATMENT  | Anti-termite treatment shall be provided as per specification wherever required,   |
| 5.  | WOOD WORK               | i) Door frames : Out of Second class Teak wood (seasoned)<br><br>ii) Windows : The windows are to be fabricated out of powder coated Aluminium sections with Laminates float glass, as/specifications & design, as/approval.   |
| 6.  | STEEL WORK:             | i) Staircase Railings in SS, as/design & details.  |
| 7   | FLOORING                | i) 50 mm thick cement concrete with brick aggregate under floors as per specification.<br><br>ii) 100 mm thick cement concrete. with stone aggregate under floors as per specification at ground floor.<br><br>iii) Kota stone/marble & Italian flooring, with coloured marble infills, borders, as/designing floors & staircases. |
| 8.  | ROOFING / WATERPROOFING | i) Waterproofing arrangement for sunken floors & under toilets floors with 2 coats of Tape crete treatment, finally filled with Brick bat coba.<br><br>iv) uPVC rain water Pipes with uPVC : fittings as per requirement.  |
| 9   | FINISHING               | i) Internal walls, ceiling etc. shall be plastered with cement mortar as per specified mix.<br><br>ii) Enamel paint on all steel.  |
| 10. | OUTER FINISHING         | i) 12 / 15 mm thick cement plaster as per specifications,  |

11. SANITARY INSTALLATION

i) SCI soil, wastage & vent pipes (Jindal Hissar) including necessary fittings for internal & external pipe work,

ii) GI & CPVC pipes for internal plumbing & vertical pipe in shafts and GI pipe (medium class) for tank connections.

12. INTERNAL ELECTRICAL

i) Recessed uPVC conduit, GI switch boxes suitable for housing modular 1 switches of approved make and sub distribution boards with MCBs as per drawings & direction of the Architects.

ii) Recessed uPVC conduit for TV / Telephone / Security systems complete as per drawings.

iii) Earthing as per drawings.

13. DEVELOPMENT WORK

i} Sewerage and storm water drain line shall be RCC pipe complete with circular / rectangular: manholes and gully traps / gully gratings with SFRC covers complete in all respect as per drawings.

ii) Roads : Interlocking pavers of approved design in the open area

iii) Providing and laying RCC pipes for cable routes and making inspection chambers etc,

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**P.G.D.A.V. COLLEGE (EVENING), UNIVERSITY OF DELHI-110065**

**BILL OF QUANTITIES (BOQ)**

**Estimate of ARYA SAMAJ AYGYA SHALLA**

**Bidder Name's & Address:**

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE	Date: AMOUNT
<b>A</b>	<b>CIVIL STRUCTURAL WORK</b>				
<b>A1</b>	<b>EARTH WORK</b>				
A1.2	<b>Dismantling and Clearing of site</b> by disposal of building , earth over the plot area by mechanical means up to a lead of 10 kms. Including excavation, loading, unloading and stacking complete.	L/S			
A1.3	<b>Earth work in excavation</b> by mechanical means (Hydraulic excavator) in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kind of soil	Cum	33.7		
A1.4	<b>Backfilling/ Refilling</b> with earth brought from out side (excluding Rock ) free from vegetation in trenches, plinth, sides of foundation, under floors, all-round the retaining walls etc. in layers not exceeding 20cm in depth and rammed watered and consolidated complete in all respect. Each deposited layer to be consolidated by ramming, poking by rods, watering , surface vibrator to achieve at least 95% maximum dry density (proctor density) complete. The Item rate includes of all leads, all lifts, cost of earth, Mining approval, royalty, excavation, transportation, loading, unloading and filling in layers, breaking clods, consolidating, watering, ramming , dressing in required profile, etc. complete.	Cum	6		
A1.5	<b>Anti-termite Treatment</b>				
A1.6	Providing, diluting and injecting chemical emulsion ( Chlorpyriphos EC 20% with 1 % concentration) <b>anti termite treatment</b> as per relevant IS 6313 code and creating a continuous Chemical barrier to a depth of 300 mm from ground level along the external perimeter of the building, top surface of plinth filling , junction of wall and floor, Expansion joints, over the top surface of consolidated earth on which apron is to be laid, surrounding of pipes and conduits etc. Complete as per specification. Mode of measurement : plinth area of the building at ground floor only shall be measured for payment.	Sqm	22		
<b>A2</b>	<b>CONCRETE WORK</b>				
A2.1	PCC : 1:5:10 (1 cement : 5 fine sand derived from natural sources : 10 graded stone aggregate 40 mm nominal size derived from natural sources) for foundation, below floor etc.	Cum	1.94		
<b>A3</b>	<b>REINFORCED CEMENT CONCRETE</b>				
A3.1	Providing and laying Ready Mix and in position specified grade reinforced cement concrete. machine batched, machine mixed and machine vibrated design mix <b>M-25 cement concrete</b> of specified grade for reinforced cement concrete structural elements, excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions. (As per IS 9103) to accelerate, retard setting of concrete improves workability without impairing strength and durability as per direction of Engineer-in-charge				

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**Estimate of ARYA SAMAJ AYGYA SHALLA**

**Bidder Name's & Address:**

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE	Date: AMOUNT
	Foundation, Footing, , plinth beam etc.	Cum	15		
	Columns,lift column etc.				
	For Lintels, RCC bands etc.	Cum	12		
	For Slab Beam				
<b>A4</b>	<b>CENTERING &amp; SHUTTERING</b>				
A4.1	Providing, erecting, fixing in position and striking Plywood or Plate <b>shuttering &amp; centering</b> for form work in plane / slopes at all levels, all heights & all locations for all shapes including strutting, propping, chamfers, splays, keys, wedges, props, bracings, bolting, brackets, cuttings holes for pipes and removal of the same etc. complete. allow for forming grooves, drops, throats, arises, chamfers, cutouts, openings, MS/PVC sleeves, removing the shuttering etc. wherever called for. Providing and applying approved oil on all surfaces of form work coming in contact with concrete including close hacking of all exposed concrete work after removal of form work all materials, fixing nosing angles, switch boxes, labor etc. complete as per specifications, drawings and as directed				
	Foundation, Footing, plinth beam etc.	Sqm	37		
	Columns, Wall etc.				
	For Lintels, RCC bands etc.	Sqm	116		
	For Slab Beam				
<b>A5</b>	<b>REINFORCEMENT WORK</b>				
A5.1	All heights, all depths, all level and all shape, all lead & all lifts  Providing and laying <b>reinforcements</b> high yield strength TMT ribbed steel of various diameters grade Fe 500 conforming to IS code 1786 for reinforced concrete work including cost of storing, cutting, fabricating, bending, binding with annealed 18 gauge MS binding wire with double fold for tying the reinforcement for all sizes, placing in position according to drawings, cost of binding wire, cover blocks for main reinforcement to keep specified RCC cover in elements , including all laps, chairs & spacers etc.. Mode of measurement shall be as per approved Bar bending schedule to be measured and paid (Spacers / chairs / authorized laps shall be measured ), Complete with all respect for all lead, all lift, all heights & all levels.( base Rate - 48 per KG )	MT	2.4		

**P.G.D.A.V. COLLEGE (EVENING), UNIVERSITY OF DELHI-110065**

**BILL OF QUANTITIES (BOQ)**

**Estimate of ARYA SAMAJ AYGYA SHALLA**

**Bidder Name's & Address:**

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE	Date: AMOUNT
<b>A6</b>	<b>BRICK WORK- 230mm</b>				
A6.1	Providing and erecting brick masonry in Stair Case Steps at entrance and Hawan kund with Common burnt clay F.P.S. bricks of class designation 7.5 laid in cement mortar 1 : 4 (1 cement : 4 coarse sand) in Staircase, finishing the joint, curing, Scaffolding etc. complete as per drawing or as directed by the Engineer in charge with all respect of all leads, lifts, level & height. The rate is inclusive of cost of providing and fabrication of reinforcement steel with all leads, lifts, level & height.	Sqm	1.9		
<b>A7</b>	<b>PLASTERING AND POINTING WORKS</b>				
A7.1	<b>Internal Plastering</b> Providing and applying 12 mm thick Gyproc Plaster on brick / RCC surfaces (columns) as directed for all leads and lifts complete .	Sqm	9		
A7.2	Providing and applying 06 mm thick Gyproc Plaster in ceiling finished smooth in line and level including hacking of RCC structure, curing, groove in ceiling, the item rate complete for all leads, lifts and heights.	Sqm	334		
<b>TOTAL FOR CIVIL STRUCTURAL WORKS (A)</b>					
<b>B</b>	<b>FACADE WORK AND EXTERNAL DEVELOPMENT</b>				
<b>B1</b>	<b>PAINT WORK</b>				
B1.1	<b>Paint on interior wall and ceiling</b>				
B1.2	Providing and applying , Exterior type plain paint of Asian, Nerolac make or equivalent make of approved colour and shade on external finished walls / ceiling over a smooth base coat, Including the cost of providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer as per list of make, over the plastered wall surface to prepare the surface even and smooth, making grooves, erection and dismantling of required scaffolding etc. complete with all respect of all lead, all lift, all levels/heights.				
	On Wall and Ceiling	Sqm	334.2		
<b>B2</b>	<b>TEXTURE PAINT (EXTERIOR)</b>				
B2.1	Providing and applying Texture paint of Asian / Dulux / Berger/acro make or equivalent brand. finished with two or more coats of paint of desired shade and colour over and including water thinnable priming coat to get desired finish and shade, including the cost of preparing the surface smooth in line and level complete with all respect for all lead, all lift, all level, all height scaffolding .	Sqm	9		
<b>TOTAL FOR FACADE WORKS (B)</b>					
<b>C</b>	<b>WATERPROOFING</b>				
	Providing and laying water proofing treatment on roofs of slabs by applying cement slurry mixed with water proofing cement compound consisting of applying: (a) after surface preparation, first layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/sqm. (b) laying second layer of Fibre glass cloth when the first layer is still green. Overlaps of joints of fibre cloth should not be less than 10 cm. (c) third layer of 1.5 mm thickness consisting of slurry of cement @ 1.289 kg/sqm mixed with water proofing cement compound @ 0.670 kg/sqm and coarse sand @ 1.289 kg/sqm. This will be allowed to air cure for 4 hours followed by water curing for 48 hours. For the purpose of measurement the entire treated surface will be measured.	Sqm	31		

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**BILL OF QUANTITIES (BOQ)**

**Estimate of ARYA SAMAJ AYGYA SHALLA**

**Bidder Name's & Address:**

SR. NO.	DESCRIPTION	UNIT	QUANTITY	RATE	Date: AMOUNT
<b>C1</b>	<b>INTERNAL FINISHING WORK</b>				
	<b>FLOORING AND TILES</b>				
C1.1	Aygya interior stone				
	Marble stone flooring with 18 mm thick marble stone, as per sample of marble approved by Engineer-in-charge, over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry, including rubbing and polishing complete with : Makrana white second quality	Sqm	20		
C1.2	Column cladding				
	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for column of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.	Sqm	2		
	<b>SUB TOTAL FOR WATERPROOFING FLOORING WORKS (C)</b>				
<b>D</b>	<b>RAILING AND WINDOW/SLIDING GATES</b>				
	Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners, stainless steel bolts, hinges etc., of required size, at the entrance area with suitable arrangement as per approval of Engineer-in-charge,	Rmt	22.0		
	<b>SUB TOTAL RAILING WORKS ( D )</b>				
<b>E</b>	<b>ELECTRICAL WORKS</b>				
	Electrical works including Wires , Mcb , DB's , Conduiting , Chase Cutting without Fixtures .	Sqm	22.0		
	<b>SUB TOTAL ELECTRICAL WORKS ( E)</b>				
	Area(in sqm) approx		22.0		