

HINDU COLLEGE, DELHI UNIVERSITY, NORTH CAMPUS, DELHI
NOTICE RE-INVITING TENDER

C/o Construction of Research Center, Hindu College, Delhi University, Delhi

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This NIT contains 1 to 61 pages including up to date correction slips and drawings 33 nos.

Principal
Hindu College

NOTICE RE-INVITING TENDERS

(NATIONAL COMPETITIVE BIDDING)

1. Online bids are Re-invited on two bid system for “Construction of Research Center, Hindu College, Delhi University, Delhi” Manual bids shall not be accepted.
2. Document Download: Tender documents may be downloaded from Hindu College web site <http://www.hinducollege.ac.in> and www.du.ac.in (for reference only) and CPPP site <https://eprocure.gov.in/eprocure/app> the schedule as given in CRITICAL DATE SHEET as under.

CRITICAL DATE SHEET

Published Date	23 June 2018 (10.00AM)
Bid Document Download / Sale Start Date	23 June 2018 (10.00AM)
Bid Submission Start Date	23 June 2018 (10.00AM)
Bid Submission End Date	13 July 2018 (02.00PM)
Bid Opening Date	14 July 2018 (02.30PM)

3. Bid Submission:

Bidders are advised to visit this website regularly to keep themselves updated as any change/ modification in the tender will be intimated through this website only.

Bids shall be submitted online only at CPPP website: <https://eprocure.gov.in/eprocure/app>.

Tenderer/Contractor are advised to follow the instructions “Instructions To Bidder for Online Bid Submission” provided of bids and NIT for other conditions.- .

Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.

4. Not more than one tender shall be submitted by one contractor or contractors having business relationship. Under no circumstance will father and his son(s) or other close relations who have business relationship with one another (i.e when one or more partner(s)/director(s) are common) be allowed to tender for the same contract as separate competitors. A breach of this condition will render the tenders of both parties liable to rejection.

5. Tenderer who has downloaded the tender from the College website <http://www.hinducollege.ac.in> Central Public Procurement Portal (CPPP) website <https://eprocure.gov.in/eprocure/app>, **shall not tamper/modify the tender form including downloaded price bid template in any manner.** In case if the same is found to be tempered/modified in any manner, tender will be completely rejected and EMD would be forfeited and tenderer is liable to be banned from doing business with Hindu College.

6. Intending tenderers are **advised to visit again** Hindu College website <http://www.hinducollege.ac.in>, www.du.ac.in and **CPPP website** <https://eprocure.gov.in/eprocure/app> **regularly till closing date of submission** of tender for any corrigendum / addendum/ amendment.

7. Applicant contractor must provide demand draft for Rs. 5000/- (Rupees Five thousand only)(to be purchased on or after publication date of this tender) **in favour of Principal Hindu College, RTGS/NEFT/DD to account no. details given below ,with their application/downloaded tenders as the cost of tender forms/ documents. The all applicable bank charges shall be borne by the applicant and he shall not have any claim what so ever on this account on Government. In case of re- tendering, the firms which has submitted the DD in earlier calls will require to submit proof of RTGS/NEFT along with their tender/application in subsequent calls. Tender not accompanied with the cost of tender documents is liable to be rejected. However, public sectors undertaking / Govt undertaking firms are exempted from the payment towards cost of tender documents.**

8. The EMD for Rs. 17,70,000.0 (Rupees Seventeen Lakhs and seventy thousand only) in the shape of RTGS/NEFT/Bank Draft or in any other forms as acceptable in CPWD manual, in favour of 'PRINCIPAL,HINDU COLLEGE' shall be deposited along with the Technical bid.

Tender Fee &EMD Payment:

Earnest Money Deposit is to be deposited electronically by RTGS/NEFT/Bank drafts in the account of Principal, Hindu College at the below

mentioned details. Bidders are required to submit the details of Tender fee and EMD payment at the time of Bid Preparation.

BANK Details for T.Fee and EMD Payment through Demand drafts:

Bank Name – State Bank of India, Hindu College University of Delhi .

IFSC Code – SBIN0010433

Account Number – 10851301244

8 The Hard Copy of original instruments **in respect of tender Fee, earnest money, must be delivered to the Principal, Hindu College** on or before bid opening date/time as mentioned in critical date sheet. **Tenderer shall likely to be liable for legal action for non-submission of original payment instrument like DD,etc., against the submitted bid. The Demand Draft attached/submitted for tender fee shall be non refundable.**

9. Bids will be opened as per date/time as mentioned in the **Tender Critical Date Sheet**. After online opening of Technical-Bid the results of their qualification as well Price-Bid opening will be intimated latter.

Submission of Tender

The tender shall be submitted online in Two part, viz., technical bid and price bid.

All the pages of bid being submitted must be signed and sequentially numbered by the bidder irrespective of nature of content of the documents before uploading.

The offers submitted by Telegram/Fax/email shall not be considered. No correspondence will be entertained in this matter.

Technical Bid

The following documents are to be furnished by the Contractor along with **Technical Bid** as per the tender document:

- i) Signed and Scanned copy of **proof for payment of Tender document Cost (T.Fee) and Earnest Money Deposit**
- ii) Signed and Scanned copy Certificates like Registration certificate, ESIC, PPF
- iii) Signed and Scanned copy of Proof of Annual Turnover, Net Profit
- iv) Signed and Scanned Copy of **Tender Acceptance Letter (Annexure IV) & Letter of authorization to submit bid** (annexure VI)
- v) Signed and scanned copies of all affidavits and undertakings as per annexure I to V.
- vi) No near relative certificate (Annexure VI)
- vii) Signed and Scanned Copy of **Technical data sheet**

PRICE BID

- (a) Schedule of price bid in the form of BOQ_XXXX.xls

CHECK LIST OF DOCUMENTS TO BE SUBMITTED.-TECHNICAL DATA SHEET

BID CHECKLIST

Bidder is required to fill-up this checklist and enclose along with the envelope containing the Earnest Money.

Sl.	Item Description	Yes/No	Bid Reference
1.	Tender Fee Enclosed		
2.	Earnest Money Enclosed		
3.	Tender Acceptance Letter (Annexure-IV)		
4.	Letter of authorization to submit bid.(Annexure-VI)		
5.	An undertaking that the agency hasn't been blacklisted (Annexure –IV)		
6.	Annexure I to VI		

HINDU COLLEGE, DELHI UNIVERSITY, NORTH CAMPUS, DELHI

NOTICE INVITING TENDER

Lump-sum unit area rate tenders are invited on behalf of the Principal HINDU COLLEGE from approved and eligible contractors of C.P.W.D. (and those of appropriate list of Department of Telecommunication, M.E.S., Railway, D.D.A., N.D.M.C., M.C.D., I and F Deptt. (Delhi), DJB & Delhi State P.W.D.) and Central /State Govt Departments/Corporations /Undertakings /Development Authorities etc for the work of:

Name of work : Construction of Research Center, Hindu College, Delhi University, Delhi

The enlistment of the contractors should be valid on the last date of submission of tenders.

In case the last date of submission of tender is extended, the enlistment of contractor should be valid on the original date of submission of tenders.

- 1.1 The work is estimated to cost **Rs. 6.0 Crores+GST =Rs. 7.08 Crores** this estimate, however, is given merely as a rough guide.
- 1.2 Intending tenderer is eligible to submit the tender provided he has definite proof from the appropriate authority, which shall be to satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:-

Criteria of eligibility for submission of tender documents

1. One similar works each costing not less than **Rs. 4.8 Crores** in last 5 years ending 28.02.2018.
2. Proof of having completed at least one building of covered area more than 25,000 sq.ft. with exposed brick and exposed RCC finish.

In case of Works done for agencies other than C.P.W.D. (and those of appropriate list of Department of Telecommunication, M.E.S., Railway, D.D.A., N.D.M.C., M.C.D., I and F Deptt. (Delhi), DJB & Delhi State P.W.D.) and Central /State Govt Departments/Corporations /Undertakings /Development Authorities , the contractor shall submit TDS for specific works as additional proof .

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

Since the proposed project shall be in exposed brick and exposed RCC finish contractor has to be submit credible proof of having executed high quality exposed brick and RCC work in the form of Photographs related to works for which completion certificate is submitted.

For the purpose of this clause 'Similar work' means Educational Building Construction work.

- 1.3 To become eligible for tender, the tenderer shall have to furnish affidavit as Annexure III for not getting the work done through other agencies on back to back basis.
- 1.3.1 Necessary EMD as defined at SI. No. 1.6 shall be deposited. The receipt shall be scanned and

uploaded.

- 1.3.2 The Cost of tender Rs. 5000.00 shall be deposited and the receipt shall be scanned and uploaded
- 1.4** Presentation of GST Registration valid as on date along with a certificate of the contractor that upto date returns have been filed along with the copies of such returns submitted to the department of Trade and Taxes. Affidavit as per Annexure –IV is required for this purpose..
- 1.5 Verification of the documents in the office of PRINCIPAL in respect of lowest tenderer” L-I” shall be carried out after opening of financial tender i.e. The agency L-I shall bring all his originals and photocopies of the documents scanned and uploaded for tender in the office of PRINCIPAL on date and time intimated to him.
- 1.6 **The EMD for Rs. 17,70,000.0 (Rupees Seventeen lakhs and seventy thousand only) in the shape of Bank Draft or in any other forms as acceptable in CPWD manual, in favour of ‘PRINCIPAL,HINDU COLLEGE’ shall be deposited along with the Technical bid.**
- 1.7 The financial bid shall be opened in respect of agencies who are otherwise found eligible as per documents submitted by bidders in technical stage and EMD is submitted.
- 1.8 If any discrepancy or any short coming is found at later stage or L-I agency does not turn up for verification of originals and which renders tender of L-I Agency as invalid, the 50% of EMD amount shall be forfeited and the tenderer shall be debarred for re-tendering for period of 2 years at HINDU COLLEGE.
- 1.9 Contractor is required to fulfill the provisions of PF (under EPF Scheme) and other labour laws as applicable time to time. Contractor should be registered with the Provident Fund Commissioner and should submit copy of the registration along with the technical bid.
- 1.10 Hindu College reserves the right to supply Cement and steel at the rates specified in Schedule-B. The cost shall be recovered from the succeeding bill of the contractor.**
2. Agreement shall be drawn with the successful tenderer on prescribed standard form of HINDU COLLEGE, which is available with HINDU COLLEGE office. Tenderer shall quote his rates as per various terms and conditions of the said form & general specification and special condition, which will form part of the agreement.
3. The time allowed for carrying out the work will be 6 months from the date of start as defined in schedule ‘F’ or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
4. The site for the work is available.
5. Tender documents consisting of plans, specifications, the schedule of qualities of the various classes of work to be done and the set of terms & conditions of contract to be complied and other necessary documents can be downloaded from the College website .

6. The contractor whose tender is accepted will be required to furnish performance guarantee of 5% (Five Percent) of the tendered amount within the period specified in Schedule F. This guarantee shall be in the form of cash (in case guarantee amount is less than Rs. 10000/-) or Deposit at Call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any Scheduled Bank of any scheduled bank (in case guarantee amount is less than Rs. 1,00,000/-) or Government securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the prescribed form. In case the contractor fails to deposit the said performance guarantee within the period as indicated in Schedule 'F' including the extended period if any, the Earnest Money deposited by the contractor shall be forfeited automatically without any notice to the contractor.

7. **The description of the work is as follows:**

C/o Construction of Research Center, Hindu College, Delhi University, Delhi

Tenders are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the Government and local conditions and other factors having a bearing on the execution of the work.

8. The competent authority on behalf of the HINDU COLLEGE does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the

prescribed conditions is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer, shall be summarily rejected.

9. Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
10. The competent authority on behalf of **PRINCIPAL, HINDU COLLEGE** reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
11. The contractor shall not be permitted to tender for works in the HINDU COLLEGE (responsible for award and execution of contracts) in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Junior Engineer (both inclusive) He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any gazette officer in the HINDU COLLEGE.
Any breach of this condition by the contractor would render him debarred for further tendering in HINDU COLLEGE.
12. No Engineer of gazetted rank or other Gazetted officer employed in Engineering or Administrative duties in the Engineering Department of the HINDU COLLEGE is allowed to work as a contractor for a period of one years after his retirement from Govt. service, without previous permission of the PRINCIPAL, HINDU COLLEGE in writing. This contract is liable to be cancelled if either the contractor or any of his employee is found at any time to be such a person who had not obtained the permission of the PRINCIPAL, HINDU COLLEGE as aforesaid before submission of the tender or engagement in the contractors service.
13. The tender for the works shall remain open for acceptance for a period of ninety (90) days from the date of opening of tenders/Ninety days from the date of opening of financial tender if any tenders withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the retendering process of the work. Agency will be debarred for tendering for two years in tendering in HINDU COLLEGE.

14. This notice inviting Tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work sign the contract consisting of :

- (a). The notice inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

For & on behalf of PRINCIPAL, HINDU COLLEGE

SCHEDULES

SCHEDULE 'A'

Schedule of quantities (Enclosed) :

SCHEDULE 'B'

Schedule of materials to be issued to the contractor.(Option is reserved by the College)

S.No.	Description of Item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1.	Cement	as required		Hindu College, Delhi
2.	Reinforcement Steel –do–			Hindu College

All other materials are to be arranged by the contractor.

SCHEDULE 'C'

Tools and plants to be hired to the contractor **–to be arranged by the contractor–**

SCHEDULE 'D'

Extra schedule for specific requirements / documents for the work, if any. NIL

SCHEDULE 'E'

Schedule of component of Cement, Steel, Other Materials Labour etc. for price escalation.–No price escalation permissible

CLAUSE 10 CC

NOT APPLICABLE

SCHEDULE 'F'

Any deviations as may be ordered up to any limit as per the discretion of Principal, Hindu College. Principal, Hindu College has absolute right to reduce the scope of work and no compensation for such reduction of work in any form shall be payable to the contractor.

The Governing body of the College may stop the work at its discretion at any stage due to its own reasons. In this case Contractor shall have no claim for the works not executed.

C/o Construction of Research Center, Hindu College, Delhi University, Delhi Sub Head : Civil works

Estimated cost of : **Rs. 6.0 Crores+GST =Rs. 7.08 Crores** this estimate, however, is given merely as a rough guide.

- i. Earnest money : **Rs. 17,70,000.0**
- ii. Performance Guarantee : 5% of the tendered value
- iii. Security Deposit : 5% of tendered value

General Rules & Directions :-
Officer inviting tender **Principal , Hindu College**

Definitions :

2 (viii)	Accepting Authority	Principal , Hindu College
2 (xi)	Standard Schedule of Rates	Not applicable
2 (xii)	Department	HINDU COLLEGE

Clause- 1

- i) Time allowed for submission of performance Guarantee from the date of issue of letter of acceptance, in days: **15days.**
- ii) Maximum allowable extension beyond the period provided in (i) above in days: **7days.**

Clause 2

Authority for fixing compensation under clause 2.

Principal, Hindu College

Clause 2 A

Whether Clause 2A shall be applicable

No

Clause 5

Number of days from the date of issue of letter of acceptance for reckoning date of start.

15 days

Mile Stone(s) as per table given below:

Table of Mile Stone(s)

S. No.	Description of Milestone (Physical)	Time Allowed in days (from date of start)	Amount to be with held in case of non –achievement of mile stone
1.	1/8(of the whole work)	1/4(of the whole work)	In the event of non achieving the necessary progress as assessed from the running payments ,1% of tendered value of work will be with held for failure of each mile stone.
2.	3/8(of the whole work)	1/2(of the whole work)	
3.	3/4(of the whole work)	3/4(of the whole work)	
4.	Full	Full	

Time allowed for execution of work.

18Months

Clause 6, 6A

Clause applicable – (6 or 6 A)

6A Applicable

Clause 7

Gross work to be done together with net Payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment.

Rs. or

Mutually agreed upon

Clause 10A

List of testing equipment to provided by the contractor at site lab.

**A. For building works-
moulds**

Compressive Strength Testing Machine and sufficient Cube

Other instruments as specified in CPWD manual (As per project requirement).

Clause 10 B(ii)

Whether clause 10 B (ii) shall be applicable

No

Clause 11

Specifications to be followed for

Execution of work : *C.P.W.D. Specification 2009, Vol. I to II with upto date correction slips, Specifications for Road and Bridge works issued by Ministry of Shipping, Road Transport & Highways in respect of WMM etc.*

Clause 12

..... Not

applicable , The scope of work may deviate as per the discretion of Principal, Hindu College. The contractor shall be required to work at the quoted rates only. Any deviations as may be ordered up to any limit as per the discretion of Principal, Hindu College. Principal, Hindu College has absolute right to reduce the scope of work and no compensation for such reduction of work in any form shall be payable to the contractor.

Clause 18

List of mandatory machinery, tools & plants to be deployed by the contractor at site.

- | | |
|-----------------------------|---|
| 1. Concrete Mixer | 2. Plate/ Needle Vibrators |
| 3. Leveling machine & staff | 4. Vibratory compactor. |
| 5. Lifts | 6. Road roller/ vibratory roller 8-10 tonnes as and when required for work. |

Note: In addition to above any other equipment required at site during execution shall be brought by the contractor as per directions of the Engineer-in-charge.

**Clause 36 (i) Requirement of Technical representative (s) and recovery rate,
as per O.M. No. DGW/MAN/122 dated. 6/1/2005 issued by CPWD.**

S. No.	Minimum Qualification of Technical Representative	Discipline	Designation (Principal Technical/ Technical representative)	Minimum Experience	Number	Rate at which recovery shall be made from to contractor in the event of not fulfilling provision of clause 36 (i)	
1.	(i) Graduate Engineer	Civil	(i) Principal Technical	5 years	1Nos.	Rs. 30,000.00	Thirty thousand only (pm)
	(ii) Graduate Engineer or Diploma Engineer		(ii) Representative Technical Representative	Nil	1 Nos.	Rs.20,000.00	Twenty thousand Only(pm)

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Clause 42

- i. a. Schedules / Statement for determining theoretical quantity of cement & bitumen on the basis of Delhi schedule of rate.2007 with upto date correction slips printed by C.P.W.D.
- ii. Variations permissible on theoretical quantities.
- a) Cement for works with estimated cost put to tender not more than Rs. 5 Lacs: **3 % plus / minus.**

For works with estimated cost put to Tender more than Rs. 5 Lacs: **2% plus / minus.**
- b) Bitumen for all works: **2.5% plus only & nil on minus side.**
- c) Steel Reinforcement and structural steel sections for each diameter, Section and category. **2% plus**

d). All other materials: Nil

Clause 25 Recovery in Case of Variation Beyond Limits

In case the actual consumption of below mentioned materials is less than the permissible variation limit then recoveries at the rates given below shall be made.

- | | |
|------------------------|---------------------------------------|
| 1. Cement | Rs. 6100/- Per MT |
| 2. Steel Reinforcement | Rs. 47000/- Per MT |
| 3. Bitumen | No deviation on lower side permitted. |

APPROVED LIST OF LABORATORIES

The following Government & non-Government Laboratories for testing of samples.

A. Government Laboratories.

- I.** NTH, Ghaziabad
- II.** CRRI, Delhi
- III.** IIT, Delhi
- IV.** C.P.W.D. Lab, I.P. Estate, New Delhi.
- V.** R.T.C., Okhla
- VI.** C.B.R.I., Roorkee
- VII.** FRI, Dehradun
- VIII.** NCCBM, Ballabgarh.

B. Non Government Laboratories.

- I.** Sri Ram Test House, Delhi
- II.** Sun Beam Auto Lab, Gurgaon
- III.** Spectro Analytical Lab, Ballabgarch/Okhla.
- IV.** Delhi Test House, G. T. Karnal Road, Azadpur, Delhi.

75% tests shall be carried out from Government labs and 25% from the priGSTe.

GENERAL SPECIFICATIONS & SPECIAL CONDITIONS

The entire works shall be done as per CPWD specifications for Delhi 2009 Vol. I to II with upto date correction slips. Specifications for Road and Bridge works will be followed issued by Ministry of Shipping, Road Transport & Highways, where ever applicable. If the specifications for any item are not available in the CPWD specification referred above, relevant ISI specifications shall be followed. In case ISI specifications are also not available, the decision of the architect, given in writing shall be final.

Before commencement of the work, the contractor shall correlate nomenclature of the items with all the relevant Architectural and structural drawings to satisfy himself that the information available there from is complete and unambiguous. The figures and written dimensions on the drawing shall supersede the measurement by scale. The contractor will submit for approval of architect his workshop drawings and the sample of work to be performed under the specified items of work before actually commencing the mass execution of work under the item. Nothing extra shall be payable on this account.

- a) The nomenclature of the item shall take precedence overall and anything stated elsewhere.
- b) The conditions and specifications attached to tender documents shall take precedence over the provisions of CPWD specifications 2009 (Vol. I to II) and revised CPWD specification 2002 for cement mortar, cement concrete and RCC work in pursuance to IS : 456-2000 as corrected upto the due date of submission of tender and relevant I.S. Codes.
- c) The CPWD specification 2009 Vol. I to II and revised CPWD specification 2002 for cement mortar, cement concrete and RCC work in pursuance to IS : 456-2000 as corrected upto the due date of submission tender shall take precedence over provisions of relevant I.S. Codes.
- d) In case it is not possible to resolve the dispute with the help of tender documents and CPWD specification 2009 Vol. I to II and revised CPWD specification 2002 for cement mortar, cement concrete and RCC work in pursuance to IS : 456-2000 as corrected upto the due date of submission of tender the provisions of relevant I.S. Codes shall be relied upon.

- e) In case, it is not possible to resolve dispute with the help of any of the above stated documents, the decisions and directions of the Engineer-in-charge shall be followed for execution and completion of any item of work.
1. Whenever any reference to any Indian standard specifications occurs in the document relating to this contract the same shall be inclusive of all the amendments issued there to or revisions thereof, if any, upto the date of receipt of tenders.
 2. The work shall be carried out in the manner complying in all respects with requirement of relevant bye-laws or the local bodies under the jurisdiction of which the entire work is to be executed or as directed by the Engineer-in-charge and nothing extra will be paid on this account.
 3. The contractor shall be responsible to arrange at his own cost all necessary T&P required for the execution of work.
 4. The contractor shall make his own arrangement for water and temporary electric connections, if required, and make necessary payment for it direct to the department concerned.
 5. The contractor shall be deemed to have fully acquainted himself with the nature and extent of the work and working conditions at site before submitting the tender. The work shall be executed as per preference of items approved by Engineer-in-charge. If the materials, drawing, designs etc. are not available due to any conditions the programme of the contractors shall be modified accordingly and no compensations/damages shall be payable.
 6. The contractor shall take all safety measures precautions by exhibiting necessary caution boards, red flags, red lights, and barriers to avoid any accident during execution of work. The contractor shall be responsible for all damages and accident due to negligence on his part. The contractor shall also provide helmets, safety belts etc. required for labours.
 7. No payment will be made to the contractor for damages caused by rains or other natural calamities or riots during execution of the work and no claims on this account will be entertained.
 8. The rates of all items of work shall, unless clearly specified otherwise are including cost of all labour, material and other inputs involved in the execution of the item.

9. The samples for testing which shall be sent to the outside lab the contractor shall have to bear all the cost like cartage/transportation etc. including the cost of sample & Testing charges.
10. 90% of the mandatory test shall be conducted in the field lab setup at site by the contractor and 10 % from outside approved labs by the HINDU COLLEGE.
11. Contractor has to engage expert technical staff in the lab to conduct all tests precisely and all results shall be filled in the test registers by the staff of the contractor on the basis of day to day progress of work at site. Nothing shall be paid extra on his account.
12. The contractor shall make all efforts to mechanise the construction work to maximum possible extent by using the latest T & P / machinery and equipment etc. He shall use steel scaffolding and shuttering. Whenever, this is not possible the other type of shuttering used shall be of proper size and shape. Similarly scaffolding other than steel shall be as per site requirement and prior approval of Engineer-in-charge shall have to be obtained in writing. The contractor with relation to site requirement shall arrange adequate quality of shuttering and scaffolding. No time lag on this account shall be allowed. All safety arrangements is to be taken care of by the contractor to avoid any accident in the use of shuttering and scaffolding etc.
13. The time of completion shall be essence of the contract and to be strictly adhered to by the contractor. He shall provide a PERT chart showing all the activity and events for timely completion of the project.
14. The contractor shall make his own arrangement for water at his own cost which should be fit for construction purposes. Water should be got tested from approved Lab. Nothing extra shall be paid on this account.
15. The various items of the work shall be taken up simultaneously wherever possible to speed up the work. Nothing extra shall be paid on this account.
16. The contractor shall maintain in good condition all work during execution till completion of entire work allotted to him.
17. Tenders with any conditions including that of conditional rebate shall be rejected forthwith.
18. The contractor should make necessary arrangement for round the clock working including working on Sundays and holidays except National holidays the planning should be done accordingly.

19. The contractor shall provide at his own cost all the instruments including surveying instruments etc. required for the purpose of checking at the site of work. Complete layout including setting up Benchmarks, taking and fixing levels for all works required to be executed under the project shall be done by the contractor.
21. The contractor shall make arrangement for sufficient quantity of all the materials required for construction of work conforming to specifications.
22. Proper labour hutments with all the required civic amenities as per CPWD Norms shall be constructed by the contractor at site of work. He has to remove all the hutments at completion.
23. The Contractor shall make necessary arrangements for medical aid to all his workers including availability of first aid box all the time at the site of work.
24. Development work i.e. electrification, horticulture, roads, water supply etc. and internal and external services may also be carried out simultaneously by other agency with the work being tendered for against the enclosed contract documents. The contractor shall afford necessary facilities for the same. No claim in the matter shall be entertained.
25. Payment of 1% cess to the labour department as per "Building & other construction workers welfare cess Act 1996" shall be borne by the contractor.
26. The design and drawing may be revised any time during execution of work by competent authority. No claim shall be entertained on this account except in increase of the area.
27. Even ISI marked material may be subjected to the quality test at the discretion of the Engineer-in-charge. Whenever ISI marked materials are brought to the site of work the contractor shall, if required by the engineer-in-charge, furnish manufacturers test certificate or test certificates confirm to the relevant IS Codes. However cement /steel will be necessarily tested before start of work and will not be used till test certificates are obtained and approved by Engineer-in-charge.
28. Any material/excavated Material of the site shall not be disposed off without the prior written permission of the Engineer-in-charge. The disposed material should be dumped at the place authorized by Engineer-in-charge.
29. The work may be inspected by central Vigilance Commission or any other agency on behalf of HINDU COLLEGE. Any deduction/ compensation proposed by CVC or HINDU COLLEGE in regard to defective work or work not confirming to specifications, loss of time, amount shall be deducted from bills. No claim of the contractor whatsoever shall be entertained on this account.

30. The department will be responsible only to the contractor and his authorized representative and none else, with whom contractor may be in liasion or associated in any manner.
31. The contractor shall also make necessary agreement at his own cost for diesel generator sets required for the work, so that the same can be used by him during failure/none availability of electricity. Necessary permission etc. if required shall be taken by him from the concerned authorities. Nothing extra shall be paid on this account
32. Nothing extra, what so ever shall be payable to the contractor for executing the work as per general specifications and special conditions in all the above paras.
33. Service Tax, if applicable as per law shall be paid by the contractor. It will be reimbursed to him later upon production of the documentary proof of deposit of service tax to HINDU COLLEGE.
34. The contractor has to execute the work carefully so that the work already executed may not be damaged due to his operation of machines and manpower. If any work is damaged due to negligence compensation has to be paid / recovered, no claim shall be entertain of this account.
35. The Contractor shall submit a detailed construction programme in the shape of bar chart within 15 days from the award of work.
36. The contractor shall have to use plate vibrators for casting of RCC slab in addition to needle vibrators of required needle size, and these should be stand by.
37. All tools, plant and machinery provided by the contractor, shall, when brought to the site, be deemed to be exclusively intended for construction and completion of this work and the contractor shall not remove the same or any part thereof without the consent of the Engineer-in-charge.
38. The tenderer shall acquaint himself with the proposed site of works, its sub-soil strata, underground water table land for stacking / storage of building material and its approach roads before quotating his rates. The construction of new approach road or repair of the existing approach and its maintenance during the execution of the work shall be carried out by the tenderer and nothing extra shall be payable over his quoted rates.
39. The contractor shall submit sample of all fitting and fixtures proposed to be used to the Engineer-in-charge for his approval. The approved samples shall remain with the Engineer-in-charge till the completion of work. The contractor shall construct samples of the finishing items like stone and tile work, flooring work, toilets etc. complete in all respects as per the directions of the

Engineer-in-charge. These samples shall be got approved from the Engineer-in-charge and the consultant before commencing the mass work.

40. The contractor shall take care of the safety precautions pertaining to the construction of works, such as excavation, trenching, demolition, provisions of scaffolding, ladder, working platforms, gangways, mixing asphalt materials, electric arc/gas welding, use of hoisting and construction machinery. He shall be governed by relevant provisions of CPWD safety code and as directed by the Engineer-in-charge and nothing extra shall be payable in this account.
41. The contractor shall be responsible for watch and ward of the building, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures against pilferage and breakage during the period of installation and thereafter till the building is physically handed over to the department.
42. The contractor shall submit all risk policy (CAR) for the work. For which nothing extra shall be paid to the contractor.
43. The work will be carried out in the manner complying, in all respects, with the requirements of relevant bye-laws of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.
44. The work of water supply, internal sanitary installation and drainage work etc. shall be carried out as per local Municipal Corporation or such local body by-laws and the contractor shall produce necessary completion certificates, wherever required, from such authorities after completion of work.
45. Water tanks, taps, pipes, fittings and accessories shall conform to bye-laws and specifications of the Municipal body / Corporation. The contractor should engage licensed plumbers for the work and get the materials, (fixtures and fittings) tested by the Municipal Authorities, wherever required, at his own cost and nothing extra shall be payable.
46. The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fees and charges which may be liable at his own cost.
47. The contractor shall give due notices to Municipal, Police and / or other authorities that may be required under the law / rule under force in the area and obtain all requisite licenses for temporary obstructions / enclosures and pay all charges which may be leviable on account of his execution of work under the agreement. Nothing extra shall be payable on this account.

48. The Contractor has to make own arrangement of earth for all back filling where ever required at site of work without any extra cost or claim.

49. C.P.W.D. Contractor's Labour Regulations

shall be applicable and the contractor shall make arrangements for Labour welfare as per applicable rules.

Research Centre , Hindu College

SPECIAL CONDITIONS FOR STEEL**1. CONDITIONS FOR STEEL**

- 1.1 The contractor shall procure Fe500 D grade Thermo Mechanical Treated (TMT) Steel Reinforcement bars from Main producers of steel like SAIL, Rashtriyaspat Nigam Ltd., TISCO, JSPL or as per direction of Architect. The documents in support of the purchase of steel shall be produced by the contractor along with the particulars of the manufacturer/supplier of steel for every lot of steel.

Specifications of thermo -mechanically treat bars (TMTbars Fe500 D):-

The contractor shall submit original vouchers from the manufacturer for the total quantity of steel supplied under each consignment to be incorporated in the work. All consignment received at the work site shall be inspected by the Site staff along with the relevant documents before acceptance. The contractor shall obtain Original Vouchers and Test Certificates and furnish the same to the Engineer -in-Charge in respect of all the lots of steel brought by him from approved supplier to the site of work. The original vouchers and test certificates shall be defaced by the Site staff and kept on record in the site office.

Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to BIS codes; the same shall stand rejected and shall be removed from the site of work by the contractor at his OWN cost within a week's time from written orders from the Engineer-in Charge to do so. Unless OTHERWISE specified elsewhere in the contract document, the testing (nominal mass, tensile strength, bend test. rebound test etc.) shall be done as per frequency of samples not less than as given below:-

Size of Bar	For consignment below 100 Tones	For Consignment Over 100 Tones
Under 10 mm dia	One sample for each 25 tones or part thereof.	One sample for each 40 tones or part thereof.
10mm to 16mm dia.	One sample for each 35 tones or part thereof.	One sample for each 45 tones or part thereof.
Over 16mm dia.	One sample for each 45 tones or part thereof	One sample for each 50 tones or part thereof.

- 1.2 The steel reinforcement shall be brought in bulk supply of 10 tons or more or as decided by the Engineer-in-Charge along with manufacturer test certificate for each lot.
- 1.3 The steel reinforcement shall be stored by the contractor at site of work about 30cm. to 45 cm. above ground. A coat of cement wash shall be given to steel bars when stored at site for long duration so as to prevent corrosion. Nothing extra shall be paid on these accounts. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.

- 1.4 The contractor shall supply free of charge the steel required for testing. The cost of tests shall be borne by the contractor.
- 1.5 The Actual issue and consumption of steel on work shall be regulated and proper account maintained as per provision of the contract. The theoretical consumption of steel shall be worked out as per procedure prescribed in Clause 42 of the contract and shall be governed by conditions laid therein.
- 1.6 The actual issue of steel shall be actual weight of total quantity of Steel received at the site less actual weight of balance quantity of steel lying unutilized at the work site.
- 1.7 Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-Charge.
- 1.8 In case the contractor bring surplus quantity of steel the same after completion of the work will be removed from the site by the contractor at his own cost after approval of the Engineer-in- Charge.
- 1.9 Reinforcement including authorized spacer bars and lappages shall be measured in length of different diameters as actually (not more than as specified in the drawings) used in the work nearest to a centimeter. Wastage and unauthorized overlaps shall not be measured.
- 1.10 The standard sectional weights referred to CPWD Specifications for works 2002 will be considered for conversion of length of various sizes of M.S. Bars, Tor Steel Bars and T.M.T. bars into Standard Weight.
- 1.11 Records of actual Sectional weights shall also be kept dia-wise and lot-wise. The average sectional weight for each diameter shall be arrived at from samples from each lot of steel received at site. The decision of the Engineer-in-Charge shall be final for the procedure to be followed for determining the average sectional weight of each lot. Quantity of each diameter of steel received at site of work each day will constitute one single lot for the purpose. The weight of steel by conversion of length of various sizes of bars based on the actual weighted average sectional weight shall be termed as Derived Actual Weight.
- 1.12. a) If the Derived Weight as in sub-para (2.11) above is less than the Standard Weight as in Sub-para (2.10) above then the Derived Actual Weight shall be taken for payment.
- b) If the Derived Actual Weight is found more than the Standard Weight, the Standard Weight as per in sub-para (2.10) above shall be taken for payment. In such case nothing extra shall be paid for the difference between the Derived Actual Weight and the standard Weight

- 1.13 In case, TMT steel bars from main producers as above are not available, TMT steel bars from approved secondary producers having valid BIS license, can be used after obtaining prior approval of the Engineer-In-Charge in writing. The contractor will have to produce a 'Non availability Certificate' from the main producers and a recovery of Rs. 1500/- pr M.T. will be effected in case use of TMT steel bars from approved secondary manufacture is permitted by the department.

Research Centre , Hindu College

CONDITION FOR CEMENT

1. The contractor shall procure 43 grade (confirming to IS 8112 or IS 12269) ordinary Portland cement, as required in the work from reputed manufacturers of cement of approved make and having a production capacity of one million tonnes as approved by Ministry of Industry, Govt. of India and holding license to use ISI certification mark for their product whose name shall be got approved from Engineer-In-Charge. The tenderer may also submit a list of names of cement manufacturers which they propose to use in the work. The tender accepting authority reserves right to accept or reject name(s) of cement manufacture(s) which the tenderer proposes to use in the work. No change in the tendered rates will be accepted if the tender accepting authority does not accept the list of cement manufacturers, given by the tenderer fully or partially. Supply of cement shall be taken in 50 kg. bags bearing manufacturers. name and ISI marking, along with manufacturers test certificate for each lot. Samples of cement arranged by the contractor shall be taken by the Engineer-In-Charge and got tested in accordance with provisions of relevant BIS Codes. The cement for such testing purpose shall be supplied by the contractor free of charge. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS Codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-In-charge to do so. The cost of tests shall be borne by the contractor.
2. The cement shall be brought at site in bulk supply of minimum approximately 25tonnes or as decided by the Engineer-in-charge.
3. The cement godown of the capacity to store a minimum of 1000 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made. Double lock provision shall be made to the door of the cement godown. The keys of the lock shall remain with the Engineer-in-charge or his authorized representative and the key of the other lock shall remain with the contractor shall be responsible for the watch and ward and safety of the cement godown. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-charge.
4. The contractor shall supply free of charge the cement required for testing. The cost of test inclusive of carriage/transportation shall be borne by the contractor.
5. The actual issue and consumption of cement on work shall be regulated and proper accounts maintained as provided in clause 10 of the contract. The theoretical consumption of cement shall be worked out as per procedure prescribed in clause 42

of the contract and shall be governed by conditions laid therein.

6. Cement brought to site and cement remained unused after completion of work shall not be removed from site without written permission of the Engineer-in-charge.

Research Centre , Hindu College

Form of Bank Guarantee Bond
(Format for Performance Guarantee)

In consideration of the Principal of HINDU COLLEGE (hereinafter called "The HINDU COLLEGE") having offered to accept the terms and conditions of agreement between and(hereinafter called "the said Contractor(s)") for the work (hereinafter called "the said agreement") having agreed to production of irrevocable Bank Guarantee for Rs..... (Rupeesonly) as a security / Guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and conditions in the said agreement.

1. We(hereinafter referred to as "the Bank") hereby undertake to pay to the HINDU COLLEGE an amount not exceeding Rs. (Rupees..... only) on demand by the HINDU COLLEGE.
2. We.....(indicate the name of the Bank) do hereby undertake to pay the amount due and payable under this Guarantee without any demure, merely on a demand from the HINDU COLLEGE stating that the amount claimed is required to meet the recoveries due or likely to be due from the said contractor(s). Any such demand made on the Bank shall be conclusive as regard the amount due and payable by the bank under this Guarantee. However, our liability under this Guarantee shall be restricted to an amount not exceeding Rs. (Rupees Only).
3. We the said bank further undertake to pay to the HINDU COLLEGE any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit proceeding pending before any court or tribunal related thereto, our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall have been a valid discharge or our liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment

4. We (indicate the name of the Bank) further agree that the Guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the HINDU COLLEGE under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till Engineer-in-charge on behalf of the HINDU COLLEGE certified that the terms and conditions of the said agreement have been fully and properly carried out the said Contractor(s) and accordingly discharges this Guarantee.
5. We(indicate the name of the Bank) further agree that the HINDU COLLEGE shall have the fullest liberty without our consent and without effecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or
6. to extend time of performance by the said contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the HINDU COLLEGE against the said contractor(s) and to forbearance or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, extension being granted to the said contractor(s) or for any forbearance, act of omission on the part of the SDI IDC or any indulgence by the HINDU COLLEGE to the said contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
7. The guarantee will not be discharged due to the change in the constitution of the Bank or the contractor(s).
8. We (indicate the name of the bank) lastly undertake not to revoke this guarantee except with the previous consent of the Principal Hindu College in writing.
9. This guarantee shall be valid up to unless extended on demand by Principal Hindu College Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. (Rupees..... Only) and unless a claim in writing is lodged with us within six months of the date of expiry or the extended date of expiry of this guarantee all our liabilities under this guarantee shall stand discharged.

Dated that day of for (indicate the name of the Bank).

WATER PROOFING TREATMENT WITH CEMENT BASED INTEGRAL WATER PROOFING COMPOUND AND TAPE-CRETE POLYMER COMPOUND FOR SUNKEN FLOORS AND PIPE JUNCTIONS.

The water proofing treatment to sunken floors shall be given using Tape crete polymer compound as per recommendations of the manufacturer and the specialized agency in sequence given below. The tape-crete polymer compound is a modified cementitious material being manufactured by mixing tape crete polymer and cement in proportion of 1:2 (1 tape-crete : 2 cement).

After cleaning the floor surface of all loose materials, a grey cement slurry, @ 2.2 kg/sqm, admixed with proprietary water proofing compound @ 2% by weight of cement used, shall be laid to fill the bores of the surfaces.

Thereafter a layer of 15mm thick cement plaster with cement mortar 1:4 (1 cement : 4 coarse sand) admixed with proprietary water proofing compound shall be given on the floor surface to be treated.

Before giving the treatment with tape-crete polymer compound, all the junctions shall be cleaned properly and sealed with epoxy putty.

A primer coat of impermeable chemical mixed with cement as per recommendations of the manufacturer, shall be given to the base cement plaster and thereafter a three coats treatment with tap-crete polymer compound shall be given on the surface of base plaster as per the recommendations of the manufacturer.

After completing the tape-crete treatment, a protective layer of 20mm plaster with cement mortar 1:4 (1 cement : 4 coarse sand) admixed with proprietary water proofing compound shall be done.

The treatment shall be protected from any damage and be given minimum of 7 days curing before allowing any further work over it.

The rate for the item shall include all state operations and including all materials, labour and all incidental expenditure related to the work.

APPROVED MAKES OF MATERIAL

The material of first/standard quality from the following approved make are to be used. In case it is established that the brands specified below are not available in the market, contractor shall submit alternative proposal for the approval of Engineer-in-charge.

- | | | |
|--|---|--|
| 1. Door Closer | : | Doorking, Everite, Hardwyn, Garnish, Parbhat |
| 2. Laminates | : | Formica, Decolam, Greenlam, Merino |
| 3. Synthetic Enamel Paints | : | Burger (Luxol Gold), Asian (Apolite)
ICI Dulux (Gloss), Brolac (Full gloss hard drying) |
| 4. Cement Paint | : | Super Snowcem, Asian, Nerolac |
| 5. Oil Bound Distemper | : | Asian, Berger, Nerolac |
| 6. Chequered Tiles | : | Modern, Nitco, K.K., NTC. |
| 7. Polysulphide sealant | : | Pidiliet, Fosroc, Vamiseal GP. |
| 8. Polyethylene Sealant | : | MBT, ChemrexCorchem (CICO) |
| 9. Polycarbonate sheet roofing | : | Coxwell Domes, Hindustan Alcoa Ltd.,
GE Plastic |
| 10. Multi-cell Poly carbonate sheet | : | Danpalon, Gallina, Lexan |
| 11. Sunken Portion Treatment | : | Roffee, Krytone or equivalent |
| 12. Ceramic Tiles | : | Kajaria, Bell, Johnson, Orient Ceramics |
| 13. Granamite Vitrified Tiles | : | Bell, Lotus Kaleen or equivalent |
| 14. Acid/Alkali Tiles | : | Kera, Duratoor equivalent |
| 15. Terrazzo Tiles | : | NITCO, NIMCO, Hindustan Orient
SomaniKajaria |
| 16. Flush Doors | : | DURO, Anchor, Kitply, |
| 17. Prelaminated Particle Board | : | Novapan, Kitlam, Anchor |
| 18. Chemical Water Proofing | : | STP/Cico/Dura/Phoscrok/MC Bauchem |
| 19. Aluminium | : | Jindal, Hindalco |
| 20. Door Locks | : | ACEME/Godrej/Plaza |
| 21. Clear float glass | : | Modi Guard , Saint-gobain or equivalent |
| 22. Vitreous China Sanitary Ware | : | Hindware models as specified |
| 23. Stainless steel sink | : | Prestige/Neel Kanth, Jaina |
| 24. Centrifugally cast (spun) iron pipes
and fittings | : | R.I.F., NECO, B.C. |
| 25. G.I. pipes | : | Jindal or equivalent |
| 26. G.I. fittings | : | R, Unik, K.S. |
| 27. Stoneware pipes & Gully traps | : | Prefect, Burn, Hind |

28. PVC pipes& fittings	: Polypack, Supreme
29. cPVC pipes & fittings	: Astral, Finolex
30. Valves	: Zoloto
31. MS members, Sections	: TATA,
32. Fire resistant Doors	: Navair,
33. One coat	: JK, Birla
34. Water tanks	: Sintex
35. Manhole , GT, Gulley grating Covers	: KK
36. SS Door fittings	:
37. UPVC Door window	: Fenesta, Veka, Lingle, LG, Huassey

LIST OF APPROVED MAKES OF MATERIAL FOR ELECTRICAL WORKS

Details of equipment/material	Manufacturers Name
<u>A. Internal Electrical Works</u>	
MS black enameled/galvanized ERW conduits	Polypack, Supreme
GI pipes	Tata, Jindal, Prakash
PVC Conduit and accessories	Polypack, Supreme
MS Conduit accessories	Sharma, Rama, Noble
Copper conductor PVC insulated wires	Finolex
Modular switches, socket outlets and wiring accessories with moulded cover plate	Legrande, Anchor Roma, MK
Heavy duty metal clad socket outlets with MCB in MS housing	MDS Lexic, Siemens, L&T Hager
Weather proof socket outlets with MCB	MDS Lexic, Neptune, Siemens, L&T Hager, ABB
Miniature Circuit Breaker	MDS Lexic, L&T Hager, ABB
Earth Leakage Circuit Breaker	MDS Lexic, L&T Hager, ABB
Timers	MDS Lexic, L&T Hager
MCB Distribution Boards in sheet steel housing (double door)	MDS Lexic, L &T, ABB
<u>B. Distribution</u>	
MV Contactors/Timer/Relays/Starters	Siemens, L&T, Schneider
Moulded case circuit breakers	MG Schnider , GE, L & T, Siemens, ABB
SFU/Fuses	L&T, Siemens, GE Power, Schneider
ACB	L&T, Siemens, GE Power , ABB, Schneider

Single phase preventer (current base)	L&T, Minilec
Rising Mains & Tap off (Powder coated)	Zeta, C&S, Siemens
MV Switchboards (Powder coated, Modular Construction)	Precesion System Control, Risha Control System

C. Low Tension System

Telephone wires	Delton, Skyline, Finolex, Rallison, Batra Henley
Telephone Tag Blocks	Krone, Pouyet, TVS

D. Cables and accessories

1100 Volts grade cables XLPE	Universal, FortGloster, Skytone, RPG (Asian), Nicco
Cable Lugs	Dowells
Cable compression glands	Peeco, Comet
Cable trays / Cable ladders	Slotco, Bharti, RICCO, Pilco, MM Enterprises

E. Metering & Protection

Cast resin current transformers	Gilbert Maxwell, Kappa. AE, Precise
Measuring Meters (digital)	L & T Rishab, Automatic Electric, Siemens, Enercon, Caddle
Selector switches	L & T Salzer, Kaycee
Indication lamp (LED)	L&T, Vaishno , Siemens
kWH Electronic Digital Meter	Secure, L&T, Enercon, Caddle

F. Fire Detection System

Smoke Detectors	Cooper, Edwards, System Sensor, Apollo
Heat Detectors	Cooper, Edwards, System Sensor, Apollo
Fire Panel	Cooper, Alert (Daksh Electronics), Safeway
Speaker cum Hooter	Philips, Ahuja, Alert (Daksh Electronics)
Manual Call Points	Cooper, Edwards
Response Indicator	Cooper, Ewards
Fire Exit Sign with battery back up	Systems Tek, MDS Legrand
FRLS copper conductor wires	Skyline, National, Rallison, Batra Henley, ESC,

G. EPABX/Cable TV

Exchange/console panel	Copper connection, Flash Hymax, Accord, Tata Telecom, Panasonic
CVT	Logicstat, Blue bird, Selvon, Max Power
UPS	Tata Liebert, APC, Invensys, Copper Connection

Hand set	Beetel, Tata phone, Panasonic, Siemens
Tape off	Cat vision, Shyam
Cable TV wire	Cat vision, Bhansali, Skyline, Finolex Comm-scope, Delton

NOTE:

1. If none of preferred make material is available material of the other make can be used confirming to specification with prior approval of Architect.
2. Any material not listed above but necessary for the execution of various items shall be at least conform to BIS standards or equivalent shall be used with the prior approval of Architect and approved sample shall be kept at site of work.
3. Approved makes of materials also include the makes and brands, which might have been mentioned specifically in the nomenclature of an item in the Schedule of Quantities as well as the CPWD specifications. This list will supersede the make/brand of any material stated elsewhere.

IMPORTANT INSTRUCTIONS FOR THE TENDERER

1. If any tenderer submits false information and/or documents, his earnest money deposit shall be forfeited and he shall also be black-listed /debarred by the Corporation for future tendering.
2. The Principal ,HINDU COLLEGE reserves the right to reject all/any tender without assigning any reason and can award the work to more than one tenderer.

Principal, HINDU COLLEGE

Schedule of Payment

The contractor shall be paid as per the stages of work given in schedule below

(Measurement of Covered area shall be paid 100% of quoted unit area rate. Projections upto .75 m. shall not be paid extra. Projections beyond .75 m. shall be paid at 50% of Covered area rate. Munties shall not be paid extra. Courtyard areas less than 10.0 sq.m. shall not be deducted from the covered areas.

Part A- Structure Stage

Percentage payment of rates for structural stage

1. Mobilisation advance : No mobilization advance shall be paid.
2. After completion of work upto plinth beam 10% of cost for all floors
3. After completion of Columns up to roof beam bottom level 20% cost for relevant floor
4. After completion of Roof casting 20% cost of relevant floor
5. After completion of internal and external walls 10% cost of relevant floor
6. After completion of plastering 10% cost of relevant floor
7. After completion of flooring base 10% cost of relevant floor
8. After completion of Sanitary, plumbing,
water supply works of stage A 5% cost of relevant floor
9. After terracing and parapet walls 5% cost of all floors
10. After completion of finishing work 5% cost of all floors
11. After completion of 6 months or rainy season
Whichever is later 5% cost of all floors
12. 5% Security deposit shall be deducted from all running bills. 50% of this security deposit i.e. 2.5% of cost shall be reimbursed after completion of finishing work. Balance 2.5% shall be reimbursed After completion of 6 months or rainy season whichever is later

Part II –Finishing stage

Percentage payment of rates for finishing stage

1. Fixing of Doors and windows frames 15% cost of relevant floor
2. Flooring 15% of cost of relevant floor
3. Toilet and kitchen tiles 10% cost of relevant floor
4. Shutters of doors and windows 15% cost of relevant floors

- | | |
|---|------------------------------|
| 5. Sanitary, water supply fittings | 7.5% cost of relevant floors |
| 6. Electrical wiring | 7.5% cost of relevant floor |
| 7. Internal Paint and polish | 10% cost of relevant floor |
| 8. External paint and polish | 10% cost of all floors |
| 9. After completion | 5% cost of all floors |
| 10. After completion of 6 months or rainy
Season which ever is later | 5% cost of all floors |

5% Security deposit shall be deducted from all running bills. 50% of this security deposit i.e. 2.5% of cost shall be reimbursed after completion of finishing work. Balance 2.5% shall be reimbursed After completion of 6 months or rainy season whichever is later.

SCOPE OF WORK AND SPECIFICATIONS

All the below mentioned items are included in the scope of work of the contractor within the cost to be quoted. No item related to material, labour, plant and machinery, tools or consumable is excluded until specified.

The specification for work shall be as per CPWD guidelines. Testing of various components as per CPWD guidelines shall be mandatory.

Part A: - Structure stage

Broad specifications

Civil Works

1. Earth work in excavation and back filling

Earth work in excavation in all types of soils, up to any lead within the campus and depth as per drawings.

2. Anti-termite

Anti termite treatment using chemical emulsion (Chlorpyrifos/ Lindaneemulsifiable concentrate of 20%) as per CPWD specifications at following stages

- A. Before PCC in foundation trenches.
- B. On the vertical edges and on each horizontal layers of earth during backfilling.
- C. Before PCC of ground floor flooring and external area flooring
- D. Before last coat of paint –throughout the building

3. Brick work in foundation

Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in Cement mortar 1:6 (1 cement : 6 coarse sand) as per drawings.

4. Plain Cement Concrete

Providing and laying 1:4:8 (1 cement:4 Coarse aggregate:8 Stone aggregate) below RCC foundations, Brick work footings , Plinth protection etc. as per drawings at all levels.

5. Plinth Protection

Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade on 75 th. PCC.

6. R.C.C. work

Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering,shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.(No extra payment for Excess cement used as per design mix is payable). At all levels.

7. Exposed R.C.C. Work

All R.C.C. works shall be done in neat exposed finish. No rendering or plastering shall be done on R.C.C. members. Any defective works shall be demolished and re-executed at cost and risk of the contractor.

8 . Shuttering and scaffolding work

Centering and shuttering including strutting, propping etc. and removal of form for all heights for all construction elements to achieve Exposed R.C.C. finish.

Double scaffolding system (cup lock type) on the exterior side of building/structure, upto total building height, above ground level, including additional rows of scaffolding in stepped manner as per requirement of site, made with 40mm dia M.S. tube, placed 1.5 metre centre to centre, horizontal & vertical tubes joint with cup & lock system with M.S. Tubes, M.S. tube chalis, M.S. clamps and staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for execution of work of cleaning and/ or pointing and/ or applying chemical and removing it thereafter. The scaffolding system shall be stiffened with bracings, runners, connecting with the building etc, wherever required, if feasible, for inspection of work at required locations with essential safety features for the workmen etc., complete as per directions and approval of Engineer-in-charge.

9. Reinforcement Work

Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level in TOR steel of TATA, Jindal Panther, SAIL or ISPAT. Drawings shall be strictly followed.

10. Brick work in Superstructure

Internal Brick work 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 in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand)

11. Half Brick Work in superstructure

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 in Cement mortar 1:4 (1 cement : 4 coarse sand) Including providing and placing in position 2 Nos 6mm dia. M.S. bars at every third course of half brick masonry.

12. Exposed brick work in superstructure (including parapet wall)

Brick work with common burnt clay machine moulded F.P.S. (non modular) bricks of class designation 12.5 in exposed brick work including making horizontal and vertical grooves 10 mm wide 12 mm deep complete in cement mortar 1:6 (1 cement : 6 coarse sand).

Brick work shall be in excellent workmanship. No cement mortar on the face of Bricks shall be acceptable. The Completed brick work shall be washed with acid.

Recessed pointing with white cement shall be done payable in finishing stage.

The work should be of the standard of Brick work completed at Girls hostel and OBC block building at Hindu College.

Above plinth level at all levels.

13. Doors, Windows and Glazing

Internal / External Door Frames :- Providing Mirandi wood **frames of doors** and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia& length. The total frame height shall be 2700.0 The Door shutter shall be 2100 high. The upper part will have fixed glass 5 mm thick.

Mumty Doors :- Door frame of Mumty doors shall be in Double angle 50x50x6 with MS flat 25x6 to form rebate, Complete with fasteners and fittings.

Fire resistant Door frames as per DSR Item No. 9.161 shall be provided in all staircases.

14. M.S. Pergola on North and East face as per drawings shall be executed within the covered area rates.

15. Plastering and Paint works

Preparation for Internal Plaster :-Providing and fixing of 18 gauge of wire mesh in 1'0" wide strips with steel nails on RCC and brickwork junctions . Proper hacking shall be done on all RCC members. 1:3 Screened in cement and Coarse sand shall be done to cover chases and other such areas. All external RCC elements shall be in Exposed form finish RCC

Internal plaster :- The ceilings of RCC shall be in exposed RCC finish without plaster. The internal walls shall be plastered with premixed formulated one coat gypsum lightweight plaster as per DSR item no. 13.78 .

External Plaster :- 15 mm thick plaster as per DSR item no. 13.2 wherever specified in the drawings.

16. Basement floor and wall water proofing

Basement raft water proofing shall be as per DSR item no. 22.1 using rough Kota stone.

Basement wall water proofing shall be as per DSR item no. 22.2 using rough kota stone.

17. Drain and sump in basement :- Drain and sump in basement both with MS gratings shall be executed as per drawings.

18. . Water proofing in sunken areas

Water proofing in sunken portions of WCs, bathrooms, pantries and toilet blocks as per DSR item no. 22.5 shall be done.

19. Water proofing in terrace areas

Brick Coba shall be done in top terrace as per DSR item no. 22.6.

20. Drip course

Drip Course shall be provided in the external edges of soffit of all projections.

21. Jali wall in courtyard

Jali wall in RCC shall be erected as per drawings.

22. Parapet walls

GRC, RCC and Brick work railings on exteriors and interior courtyards shall be constructed by the contractor as per the drawings. Parapet walls shall be included in the scope of work and no extra payment shall be done for them.

23. Elevation features

All elevation features shall be included in the scope of work of contractor.

Delhi stone/ Quartzite stone cladding on Ground floor

Delhi stone/Quartzite stone cladding in slope on exterior is required on ground floor as specified in architectural drawings.

24. OH tank covering

GRC and bk. walls with RCC beams shall be given for making enclosures for OH tanks.

25. Sun shades and Cill projections

Sun shades and cill projections upto 2'6" wd. Shall be executed without any extra charges. Boxes with RCC cill and sunshade projection with RCC wall shall be executed without any extra charge.

26. Pergola for Solar panels

Pergola at 3rd Floor roof level shall be charged at the rate quoted in financial Bid.

27. Pre Engineered Roof of Third floor hall:

Hot rolled and Built Up sections are designed in accordance with Manual of Steel Construction, 9th Edition. American Institute of Steel Construction (AISC). Cold-Formed members are designed in accordance with 1996 Edition of Cold formed Steel Design Manual American Iron and Steel Institute (AISI). Welding is applied in accordance with American Welding Society (AWS D1.1.98) Structural Welding Code Steel. All field connections shall be bolted (Unless otherwise noted). Primary bolted connections shall be furnished with high strength bolts conforming to the physical specifications of ASTM A325 (or equivalent). Secondary bolted connections shall be furnished with machine bolts conform to the physical specifications of ASTM A307 (or equivalent).

sandwich panel 80 mm thick on roofing using 0.47 mm tct bare galvalume metal arc hi-rib profile, (jsw or bhusan) on top. fasteners: mechanically galvanised hex-washer head self-drilling fasteners with integral epdm seals. complete with all accessories: flashing, trims, eave gutter, peak panel/ ridge (colour galvalume) & downspouts. all primary and secondary members shall be supplied with factory applied one coat of zinc chromate red oxide primer. Steel work finish :- Shop coat of ZINC CHROMATE Primer along with one coat of synthetic enamel paint of approved colour (Brand Dulux or ICI) at site before erection and one coat of paint after erection.

28. Aluminium fins with vertical supports in aluminium or powder coated M.S.

Sanitary and Plumbing items

1. Sewerage disposal and waste water drainage

Waste water drainage and sewerage disposal system in PVC pipes and fittings is covered in the covered area rates. The whole system from the toilets, pantries and other areas to Manhole, Gully traps at Ground level and sewer line up to the existing manhole earmarked by the College authorities shall be executed within the quoted covered area rates.

Vertical soil and waste pipes shall be 110 dia. PVC up to the first manhole or GT.

All PVC fittings shall be as approved by the architect. There shall not be any cement joint in waste water or sewerage drainage up to GT or manhole.

Sewer line shall be 250 dia. DWC HDPE.

2. Water supply

- a. Riser pipe for domestic supply to overhead water tank shall be 32 dia. cPVC . Gate valves and non-return valves shall be provided as per specifications.
- b. For Dual pipe system another riser of 32 dia. to OH tank shall be provided. Gate valves and non-return valves shall be provided as per specifications.
- c. From OH tanks 100 dia.outlet with air pipe and 100 dia. T shall be given.
- d. Drinking water supply pipes of 40 dia. cPVC for supply from terrace to toilet/ pantries at all floors shall be given which shall be reduced to 32 dia. at first floor roof level. Gate valves and non-return valves shall be provided as per specifications for tank tree and at all floors.
- e. For Dual supply 32 dia.cPVC pipe shall be provided to all toilets flush tanks from Recycled water tank.
- f. For hot water another 40 dia. cPVC for supply pipe shall be installed from Terrace solar geyser to all floors toilets / Pantries . This can be reduced to 32 dia. at first floor roof level
- g. Internal piping in the toilets and pantries shall be 25 dia. cPVC
- h. Sufficient tap points for washing and irrigation shall be provided in terraces and open areas.

3. Storm water drainage

150 dia. PVC pipes of 4 Kg pressure rating of approved make shall be used for roof drainage.

Electrical

1. 25 dia. Heavy duty conduits shall be used for slabs, 20 dia. Medium class conduits shall be used for walls. Separate Conduits shall be used for Light circuit, power circuit, data circuit, TV circuits, LAN circuits, Wi-Fi, Public address system, Smoke detector and Security network.
2. 12 way double door TP & N Distributions boards shall be fitted for each wing of each floor of research center . Each research lab shall be fitted with distribution board with separate MCBs for Power, Light , AC and other services.
3. Modular switch boxes of approved make shall be provided.
4. Fan points, light points, power points, AC points, LAN points, telephone points, exhaust fan points, external light points, Geyser points, Television points, Security points shall be provided as per drawings.

Notes

1. The basement water proofing shall be done up to finished plaza level on all sides except Girls hostel and Staff quarter face.
2. All levels shall be properly checked and precisely maintained.
3. Floor to floor height is below 3.6 m. generally.
4. The contractors may quote on the basis of 5.5 Kg / sq.ft. steel consumption. Deductions or additional payment shall be done on the basis of actual consumption. Bar bending schedule shall be the basis of this calculation.
5. Completion time for the project is 8 months after issue of LOI.

6. The contractor shall intimate any drawing deficiency/ requirement for additional detail before one month of execution of item. No extra time shall be allowed to the contractor on the non-availability of drawings. Architects decision in this regard shall be final.
7. Reconstruction/ demolition work if any shall be paid only for the items concerned as per actual rates.
8. The elevations are approved by DUAC and no changes in the same shall be done. No extra amount shall be paid for any elevation element.

Part B :-Finishing
Broad specifications

1. Red stone top

50 mm th. Red stone coping with Drip course on both sides shall be provided on all parapet walls as per drawings.

2. Flooring

Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for **kitchen platforms, vanity counters, window sills, fascias and similar locations 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.

Granite shall Adhunik Granite be as fixed at Girls Hostel entry Lobby.

Providing edge **moulding to 18 mm thick marble stone counters, Vanities etc.**, including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.
 No **Extra shall be paid for fixing marble /granite stone**, over and above corresponding basic item, in facia and drops of width upto 150 mm with epoxy resin based adhesive, including cleaning etc. complete.

Mirrorpolishing on marble work/Granite work/stone work where ever required to give high gloss finish complete.

3 . Kota stone flooring in basement internal area

In Basement halls and service areas 25 mm th. Kota stone flooring as per DSR item 11.26 shall be done.

4.Tactile tiles:-

In all ramps and corridors tactile tile of Decision and direction type shall be provided as per drawings. Conforming to DSR Item No. 16.90 .

5.Toilet walls and flooring

Toilet flooring shall be in Rectified Glazed Ceramic floor tiles conforming to DSR item 11.40.
 Toilet wall tiles shall be up to Ceiling in 1st quality ceramic glazed wall tiles as per DSR item no. 11.36
 The selection of tiles shall be done on approval of College.

6. Toilet ceiling

PVC ceiling panels in Grid sizes with suspended PVC / Vinyl Grid system.

7. Doors, Windows and Glazing

All External openings unless otherwise specified shall be in uPVC as per 9.147A Providing and fixing factory made **uPVC white colour casement/ casement cum fixed glazed windows** factory made as per

and **uPVC white colour sliding glazed door** / window as per DSR item 9.147 F shall be used in external openings as marked in the drawings.

Structural glazing as per DSR item 25.2 shall be used as marked in the drawings.

Spandrel Glass Panels as per DSR item 25.6 shall be used for areas specified in the drawings.

Internal Door Frames :- Providing Mirandi wood **frames of doors** and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia& length. The total frame height shall be 2700.0 The Door shutter shall be 2100 high. The upper part will have fixed glass 5 mm thick. Some external doors shall also have similar specifications.

Internal Door Shutters :-Providing and fixing ISI marked **flush door** shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.

Fan Lights :- The internal Door shutter shall be 2100 high. The upper part will have fixed glass 5 mm thick.

Internal Polishing of Door frames and shutters:- All internal door frames and shutters shall be polished with Melamine polish of high quality.

Fittings and Fixtures:- All internal doors shall be provided with following fittings

1. SS heavy quality aldrops inside and outside
2. SS handles inside and outside.
3. SS Double hinge heavy quality 4 nos. for each door of 2100 height
4. SS tower bolt 150 long at top and bottom.
5. SS kick down door stopper.
6. SS baseboard door stops.
7. Each room shall be provided with one SS handle with deadbolt mortise lock.

Fire resistant Door frames with Glazed fire resistant Doors shutters as per DSR Item No. 9.162 and Panic bars as per DSR Item No. 9.139

Mumty Door and lift room Shutters :- Shall be in 14 gauge MS sheet with framing of 25x25x 3 MS box all around and at middle rail. Complete with aldrops, handles and tower bolts on both sides

8. Staircase , balcony, terrace and Ramp Railings

Stainless steel (Grade 304) railing as per design shall be provided in staircases, ramps, cut-out areas and other places as per drawings.

Ramps in open areas shall be provided with SS railing as per detail.

Balconies and terraces shall be provided with SS railing as per detail.

9. External Paint:-

External RCC work and plastered surfaces shall be finished with water proofing cement paint of required shade.

Internal Mild steel / iron surfaces shall be finished with 2 coats of Enamel paint on primer . External Mild steel members shall be treated with antirust zinc chromate primer and shall be painted with superior Epoxy paint.

10. Internal wall Paints

13.48 Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturer's specifications:

13.48.1 Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr. /10 sq.m

11. **Polish :-** All the wooden external and internal members shall be polished in melamine polish.

12. Pointing on exposed brick work

After thorough washing of brickwork with acid Recessed pointing with white cement shall be done. The work should be of the standard of Brick work completed at Girls hostel and OBC block building at Hindu College.

13. SS Shutters :- Perforated SS shutters shall be provided at 2 major entries.

14. Signage boards in the building

Signage boards as per DSR item no. 16.60 shall be provided at exits, entries, staircases, lifts ,toilets , all room entries and other vantage points.

A. Sanitary and Plumbing items

Broad specifications for Sanitary fittings are as below. All the relevant fitting, fixtures etc. are included in the scope.

W.C.	White vitreous china pedestal type water closetHindware Catalogue no 20061 Star white wall mounted closet with seat and lid, with Concealed Cistern with Chrome Plate Brand Viega,Angular Stop Cock with nuts, washer with C.P. brass flange complete, including cutting and making good the walls, wherever required. Regular body with adjustable wall flange (Make :- jaguar Con-059 KN)
Wash basins	providing & fixing Oval counter top Basin with provision also of all accessories required for installation and testing (Brand- Hindware Catalogue no 10017 Oval counter top Basin Star white)with Long body Bib Cock with wall flange (Make :- jaguar Con-107 KN) all other fittings and accessories are include.
Urinals	Providing & fixing Urinal with provision also of all accessories required for installation and testing (Make :- Hindware catalogue no. 60002 FB- Large standard urinal star white) Auto flush Urinal cistern with provision also of all accessories required for installation and testing
Pantry Sinks	Minimum Size 18"x14" with flexible waste pipe etc. complete.Long body Bib Cock with wall flange (Make :- jaguar Con-107 KN) all other fittings and
Floor traps	Traps of self cleansing design with suitable cut for PVC flexible pipe from wash basin or pantry

B. Water Supply

Broad specifications for Sanitary fittings are as below. All the relevant fitting, fixtures etc. are included in the scope.

Bib cocks, angle valves and other fittings for hot and cold water supply including provision for geysers shall be provided in toilets and kitchens all of Jaquar make.

All related pipes and relevant fittings shall be supplied, fitted and tested by the contractor without any extra charge.

Polyethylene triple layer water storage tanks of approved make with all necessary fittings and pipings shall be provided as below

1. 10,000 Liters for Drinking water, 5,000 liters as Fire tank and 5,000 liters for recycled water.

C. Storm water drainage

Gratings shall be provided at Khurras to the Rain water pipes. Gully gratings at Formation levels shall be provided as per drawing.

Built up drains finished with neat cement punning and 2" th. Precast RCC covers shall be provided all around the buildings and in internal courtyards.

D. Electrical

1. 12 way double door TP & N Distributions boards complete with suitable MCBs, RCCBs and isolators should be provided for each wing of Research Centre.
2. Modular switches, power points regulators etc. of approved make shall be provided.
3. Fan regulator and switch, light switch, power socket and switch, AC Box switch, LAN sockets, telephone sockets, exhaust fan outlets and switches, external light switches, Geyser socket and switches, Television socket and switches with TATA sky connection on terrace, Wi-Fi, Public address system, Smoke detector and Security sensors in external doors and windows shall be provided as per drawings.
4. Wiring in FR PVC insulated copper conductor shall be done as per safe practices. Wiring for LAN and Wi-Fi, TVs, PA system, Security system and other data network shall be done as per industry standards.
5. Provision for air-conditioning shall be made in all rooms as per AC drawings.
6. Solar Geyser of total capacity of 1500 liters shall be provided on the terrace.

the buildings and in internal courtyards.

E. Electrical

7. 12 way double door TP & N Distributions boards complete with suitable MCBs, RCCBs and isolators should be provided for each wing of hostel and each bay of Academic block.
8. Modular switches, power points regulators etc. of approved make shall be provided.
9. Fan points, light points, power points, AC points, LAN points, telephone points, exhaust fan points, external light points, Geyser points, Television points shall be provided as per drawings.
10. Wiring in FR PVC insulated copper conductor shall be done as per safe practices.
11. Provision for air-conditioning shall be made in Warden's residence and office in Girls' hostel. In academic block staff room, office block, departments and shall have provision for air conditioning.
12. Solar Geyser of total capacity of 800 liters shall be provided on the terrace of Girls hostel.

Specifications for open areas for landscaping

1. Anti termite treatment Providing and laying PCC in foundation, erection of Toe walls, filling & ramming of available earth, Anti termite treatment in subfloor, providing and laying PCC in subfloor. Flooring in Polished Shivpuri/ Gwalior/ Dhaulpur stone.
2. Planters :Anti termite treatment Providing and laying PCC in foundation, erection of Toe walls, filling good earth, . Polished Shivpuri/ Gwalior/ Dhaulpur stone top and wall cladding.
3. Stage :Anti termite treatment Providing and laying PCC in foundation, erection of Toe walls, filling & ramming of available earth, . Polished Shivpuri/ Gwalior/ Dhaulpur stone top and wall cladding.
4. Base for Sculpture :-Plan area =12 sq.mt. Anti termite treatment Providing and laying PCC in foundation, Bed block in RCC with steel as per design, Flooring , wall cladding and tops in Polished Shivpuri/ Gwalior/ Dhaulpur stone.
5. Services :-The cost for Laying all services is included in covered areas. No extra shall be paid for making provisions for these in landscape areas.
6. General area lighting : Providing Bollards and Lamp posts if necessary for general area lighting Complete with conduits, cables, wiring and switches.
7. Stage lighting :- Sufficient provision Complete with conduits, cables, wiring and switches and power points.
8. General area drainage to be coordinated with services drawings.

Annexure I (Clause 1.3)

Affidavit

I/We.....S/o.....R/o.....undertake and confirm that eligible similar work(s) has/have not been got executed through any other contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering for Hindu College in future forever. Also, if such a violation comes to the notice of Department before the issue of letter of acceptance whichever is earlier, the Principal shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

ii) In case of my tender is not accepted as per terms & condition of NIT and for any refund is made to me, the EMD Bank Draft, may be refunded.

A. Name of agency:-

B. Bank, Branch code, Place details etc:-

Signature of Tenderer

Annexure II (Clause 1.3)

Affidavit

I/WeS/o.....resident ofdo hereby solemnly affirm and declare as under :-

i)That I am sole proprietor/Partner/ authorized representative of the company/LLP of M/s..... at R/o.....

ii) That upto date returns of GST department have been duly filed and no dues are pending of the GSTdeptt.

iii)That this is my true and correct statement.

Signature of Tenderer

ANNEXURE III

CONFIRMATION

I/We confirm that the General Specifications and special conditions appended in the tender documents have been fully examined and full cognizance taken thereof in arriving at the item unit prices and total amount and tendered sums contained therein my/our tender. It is further certified that I/We have not been blacklisted/ debarred from tendering by any of the departments the registration of which is deemed valid in HINDU COLLEGE.

Contractor

Annexure IV -TENDER ACCEPTANCE LETTER
(To be given on Company Letter Head)

Date:

To,

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: _____

Name of Tender / Work: -

Dear Sir,

1. I / We have downloaded / obtained the tender document(s) for the above mentioned 'Tender/Work' from the web site(s) namely:

as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents from Page No. _____ to _____ (including all documents like annexure(s), schedule(s), etc .,), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I/We do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.

6. I/We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)

Annexure V

Undertaking on Letterhead of the Contractor

C/o Construction of Research Center, Hindu College, Delhi University, Delhi

Lump-sum unit area rate tender HINDU COLLEGE

(A) Technical tender for the work of: C/o Construction of Research Center, Hindu College, Delhi University, Delhi

TENDER

I/We have read and examined the notice inviting tender, schedule A,B,C,D,E & F, specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, Special conditions, Schedule of Rate & other documents and Rules referred to in the conditions of contract and all other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the PRINCIPAL, HINDU COLLEGE within the time specified in Schedule 'F', viz, schedule of quantities and in accordance in all respects with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and Directions and in Clause 11 of the conditions of contract and with such materials as are provided for, by, and in respects in accordance with, such conditions so far as applicable.

I /We have read and fully accept the special clause:-**Any deviations as may be ordered up to any limit as per the discretion of Principal, Hindu College. Principal, Hindu College has absolute right to reduce the scope of work and no compensation for such reduction of work in any form shall be payable to the contractor.**

The Governing body of the College may stop the work at its discretion at any stage due to its own reasons. In this case Contractor shall have no claim for the works not executed.

We agree to keep the tender open for ninety (90) days from the date of submission of tender thereof and not to make any modifications in its terms and conditions.

EMD for Rs. 17,70,000.0 (Rupees Seventeen lakhs and seventy thousand only) in the shape of Bank Draft of a scheduled Bank / (Mode of EMD to be specified) is being deposited as earnest money. deposited, If I/we fail to furnish the prescribed performance guarantee within prescribed period, I/we agree that the said PRINCIPAL, HINDU COLLEGE or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely, further if I/we fail to commence the work as specified, I/we agree that PRINCIPAL, HINDU COLLEGE or his successors in office shall without prejudice to

any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered up to any limit as per the discretion of Principal, Hindu College. We agree that the Principal, Hindu College has absolute right to reduce the scope of work and no compensation for such reduction of work in any form shall be payable to the contractor. Further, I/We agree that in case of forfeiture of earnest money or both earnest performance guarantee as aforesaid. I/We shall be debarred for participation in the re-tendering doing process of the work.

I/we hereby declare that I/we shall treat the tender documents, drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived there-from to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

Dated :

Signature of Contractor

Postal Address

Witness :

Address :

Occupation :

Annexure VI

Affidavit

I/WeS/o.....resident ofdo hereby solemnly affirm and declare as under :-

i) That I am sole proprietor/Partner/ authorized representative of the company/LLP of M/s..... at R/o.....

ii) That no near relative of mine is an employee at Hindu College, Delhi University, Delhi.

Signature of Tenderer

Annexure VII

Format for Financial Bid (Financial bid has to be filled online only in BoQ file)

- No** Please fill rates for Complete Scope of services as stipulated in the Technical Bid Document
te: on Firm Price basis inclusive of all taxes and levies, direct and indirect expenses, and without
 - any escalation, excluding GST which has to be added separately in the end.

C/o Construction of Research Center, Hindu College, Delhi University, Delhi

S.N.	Item	Quantity	Unit	Rate	Amount
				in Rs.	in Rs.
1	Basement Covered area Part A:- Structural stage as per scope of work defined in NIT (Nothing extra shall be paid for sunshades and cill projections upto 2'6" wd.)	8396.35	Sq.Ft.		
2	GF to Third floor Covered area Part A:- Structural stage as per scope of work defined in NIT (Nothing extra shall be paid for sunshades and cill projections upto 2'6" wd.)	29482.48	Sq.Ft.		
3	Basement Covered area Part B:- Structural stage as per scope of work defined in NIT (Nothing extra shall be paid for sunshades and cill projections upto 2'6" wd.)	8396.35	Sq.Ft.		
4	GF to Third floor Covered area Part B:- Structural stage as per scope of work defined in NIT (Nothing extra shall be paid for sunshades and cill projections upto 2'6" wd.)	29482.48	Sq.Ft.		
5	Projection areas per sq.ft. rate for both part A and part B combined together	1050.00	Sq.Ft.		
6	Solar pergola rates in per sq.ft. comprehensive rates for all items shown in relevant drawings .	5107.19	Sq.Ft.		
7	Open area rates in per sq.ft. inclusive of all items shown in relevant drawings	8133.06	Sq.Ft.		

	Total				
	GST @18%				
	Total with GST				

1. The rates shall be quoted in Indian Rupee only.
2. The rates will be inclusive of all taxes (except GST which shall be added at the end), fees, levies, etc. and any revision in the statutory taxes, fees, etc will be the responsibility of the Bidder.
3. The payment will be made to the Contractor at any Bank Account maintained in India by way of ECS/RTGS after deducting the TDS as applicable.
4. The quoted rates shall remain firm throughout the tenure of the contract and no revision is permissible for any reason.

Annexure VIII

Instructions for Online Bid Submission:

The bidders are required to submit soft copies of their bids electronically on the CPP Portal, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the CPP Portal, prepare their bids in accordance with the requirements and submitting their bids online on the CPP Portal.

More information useful for submitting online bids on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

REGISTRATION

- 1) Bidders are required to enroll on the e-Procurement module of the Central Public Procurement Portal (URL: <https://eprocure.gov.in/eprocure/app>) by clicking on the link “**Online bidder Enrollment**” on the CPP Portal which is free of charge.
- 2) As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
- 3) Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication from the CPP Portal.
- 4) Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Class II or Class III Certificates with signing key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / nCode / eMudhra etc.), with their profile.
- 5) Only one valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC's to others which may lead to misuse.
- 6) Bidder then logs in to the site through the secured log-in by entering their user ID / password and the password of the DSC / e-Token.

SEARCHING FOR TENDER DOCUMENTS

- 1) There are various search options built in the CPP Portal, to facilitate bidders to search active tenders by several parameters. These parameters could include Tender ID, Organization Name, Location, Date, Value, etc. There is also an option of advanced search for tenders, wherein the bidders may combine a number of search parameters such as Organization Name, Form of Contract, Location, Date, Other keywords etc. to search for a tender published on the CPP Portal.
- 2) Once the bidders have selected the tenders they are interested in, they may download the required documents / tender schedules. These tenders can be moved to the respective ‘My Tenders’ folder. This would enable the CPP Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.
- 3) The bidder should make a note of the unique Tender ID assigned to each tender, in case they want to obtain any clarification / help from the Helpdesk.

PREPARATION OF BIDS

- 1) Bidder should take into account any corrigendum published on the tender document before submitting their bids.

- 2) Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents - including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 3) Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF / XLS / RAR / DWF/JPG formats. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned document.
- 4) To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Space" or "Other Important Documents" area available to them to upload such documents. These documents may be directly submitted from the "My Space" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

SUBMISSION OF BIDS

- 1) Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
- 2) The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.
- 3) Bidder has to select the payment option as "offline" to pay the tender fee / EMD as applicable and enter details of the instrument.
- 4) Bidder should prepare the EMD as per the instructions specified in the tender document. The original should be posted/couriered/given in person to the concerned official, latest by the last date of bid submission or as specified in the tender documents. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 5) Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BoQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BoQ file, open it and complete the white coloured (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BoQ file is found to be modified by the bidder, the bid will be rejected.
- 6) The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 7) All the documents being submitted by the bidders would be encrypted using PKI encryption techniques to ensure the secrecy of the data. The data entered cannot be viewed by unauthorized persons until the time of bid opening. The confidentiality of the bids is maintained using the secured Socket Layer 128 bit encryption technology. Data storage encryption of sensitive fields is done. Any bid document that is uploaded to the server is subjected to symmetric encryption using a system generated symmetric key.

Further this key is subjected to asymmetric encryption using buyers/bid openers public keys. Overall, the uploaded tender documents become readable only after the tender opening by the authorized bid openers.

- 7) The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
- 8) Upon the successful and timely submission of bids (ie after Clicking "Freeze Bid Submission" in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 9) The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

ASSISTANCE TO BIDDERS

- 1) Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
- 2) Any queries relating to the process of online bid submission or queries relating to CPP Portal in general may be directed to the 24x7 CPP Portal Helpdesk.
