

Second Call

University Works Division
Guru Gobind Singh Indraprastha University
Sector 16 C, Dwarka

Press Notice for Publishing Newspaper

NOTICE INVITING TENDERS

The Executive Engineer, University Works Division, GGSIPU, Sector 16 C, Dwarka invites on behalf of Guru Gobind Singh Indraprastha University percentage rate tenders for following work(s):-

Name of Work: A/A GGSIP University, Dwarka Campus
Sub Head : Construction of University Facilitation Centre and Modification of Pilot Room at GGSIPU, Dwarka
NIT No: 26/EE/UWD/2013-2014

Estimated Cost : Rs. **40,48,921/-**, Time of completion : 75 days, EMD: Rs **80,978/-**

The tender forms and other details can be obtained from the O/o EE, UWD, GGSIPU on payment of Rs 500/- The last date of upto which tender documents can be obtained will be - **03/03/2014** up to **1600 Hrs** and same can also be downloaded from website www.ipu.ac.in. Other detail / information can be seen on website www.ipu.ac.in.

EE/UWD

Second Call

NOTICE INVITING TENDER

F.No.GGSIPU/UWD/2014/3683-3685

Dated: 19/02/2014

The Executive Engineer, University Works Division, on behalf of the GGSIPU invites Sealed Item rate tenders from approved and eligible contractors of CPWD in appropriate class (Civil) for the work of:-

S. No.	NIT No.	Name of work & Location	Estimated cost put to tender	Earnest money	Time of completion	Last date & Time	Time & date of submission/ & opening of tender
						Issue of tender documents/down loading tender document from website	
1	2	3	4	5	6	7	8
1	26/EE/UWD/2013-2014	Name of Work:- A/A GGSIP University, Dwarka Campus, New Delhi SH: Construction of University Facilitation Centre and Modification of Pilot room at GGSIPU Dwarka	Rs. 40,48,921/-	Rs. 80,978/-	75 days	03/03/2014 4:00 PM	04/03/2014 upto 3:00PM/ 04/03/2014 3:30 PM

The tender forms can be obtained from O/o Executive Engineer, UWD on payment of tender processing fee of Rs. 500/- in form of Demand Draft in favour of Registrar, GGSIPU. Tender can also be downloaded from website www.ipu.ac.in In case of downloaded tender, tender processing fee shall be paid alongwith the bid.

Eligibility documents i.e. Earnest Money, copy of pan card, VAT registration alongwith acknowledgement of VAT return of last quarter, copy of enlistment in appropriate class, tender cost in case tenders are downloaded should be placed in separate envelope marked "Eligibility Documents". Duly filled Tender document with financial bid shall be placed in other envelope marked "Tender Document with Financial bid". Both sealed envelopes shall be submitted together in another sealed envelope superscribed with name of work and due date of opening. The envelope marked "Tender with Financial Bid" of only those contractors shall be opened whose all eligibility documents are found to be in order.

Earnest money shall be in shape of Fixed Deposit receipt of a Scheduled Bank or Demand Draft of a scheduled Bank issued in favour of Registrar, GGSIPU. A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs.20 lacs, whichever is less, will have to be deposited in shape prescribed above, and balance in shape of Bank Guarantee.

-----Sd-----
Executive Engineer
University Works Division

Copy to:

- 1) Notice Board
- 2) Divisional Accountant
- 3) Server In charge, GGSIPU – With a request to upload on website

-----Sd-----
Executive Engineer
University Works Division



GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY

Tender Document

Name of Work: A/A GGSIP University, Dwarka Campus,
New Delhi

Sub Head: Construction of University Facilitation
Centre and Modification of Pilot Room at
GGSIPU, Dwarka

**Executive Engineer (Civil)
University Works Division
Ground Floor, Library Block,
GGSIPU, Sector- 16C, Dwarka,
New Delhi – 110078
Contact : 25302291**

Document Fee : Rs 500.00 (Non-refundable)

Volume - I

General Conditions

Special Conditions

Particular Specification

INDEX

Name of Work: A/A GGSIP University, Dwarka Campus, New Delhi

Sub Head: Construction of University Facilitation Centre and
Modification of Pilot Room at GGSIPU, Dwarka

S.No.	Description	Page Nos.
1.	Press Notice (For News paper)	1
2.	Press Notice (For Web)	2
3.	Notice Inviting Tender	6-9
4.	Integrity Pact	10-16
5.	Letter of submission	17-18
6.	General Rules and Directions	19-21
7.	Conditions of Contract	22-24
8.	Form of Performance Security and Earnest Money Deposit– Bank Guarantee Bond	25-28
9.	Proforma of Schedules A to F	29-33
10.	Special Conditions & Technical Specifications	34-43
11.	List of Approved Materials	44-46
12.	Schedule of Quantities (Bill of Quantities)	47-60

NOTICE INVITING TENDER

1. The Executive Engineer University Works Division, on behalf of the GGSIPU invites Sealed Item rate tenders from approved and eligible contractors of CPWD in appropriate class (Civil) for the work of:-

Name of Work: A/A GGSIP University, Dwarka Campus, New Delhi

Sub Head: Construction of University Facilitation Centre and Modification of Pilot Room at GGSIPU, Dwarka

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

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

In case both the last date of receipt of application and sale of tenders are extended, the enlistment of contractor should be valid on either of the two dates i.e. original date of sale of tender or on the extended date of sale of tenders.

2. The work is estimated to cost **Rs.40,48,921/-**. This estimate, however, is given merely as a rough guide.
3. Agreement shall be drawn with the successful tenderer on Form No. C.P.W.D. 7/8. Tenderer shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
4. Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the EE/UWD between hours of 11:00 AM & 4:00 PM from **19/02/2014 to 03/03/2014** everyday except on Sundays and Public Holidays. Tender is also available on website www.ipu.ac.in.
5. Desirous agencies may obtain tender document on request in writing from University Works Division, Ground Floor, Library Block, GGSIPU, Dwarka, New Delhi – 110078 on any working day between 1000 Hrs. (IST) to 1500 Hrs. (IST) up to **03/03/2014** on payment of non-refundable fee of **Rs.500/- (Rupees Five Hundred Only)** in the form of crossed Demand Draft drawn in favour of Registrar, GGSIPU payable at New Delhi. Tenders can also be downloaded from the website www.ipu.ac.in. In case of downloaded tenders, demand draft of **Rs. 500/-** shall also be enclosed with the bid toward tender document cost in form of Demand Draft in favour of Registrar, GGSIPU payable at New Delhi.

Applications for issue of forms shall be received by **03/03/2014** (3:00 PM) and tender documents shall be issued by **03/03/2014** (4:00 PM).

6. Agencies fulfilling the above criteria mentioned at Sl. 1 may submit the tender documents along with Earnest Money **Rs. 80,978/- (Rupees Eighty Thousand Nine**

Hundred Seventy Eight Only) in the shape of fixed deposit receipt of a scheduled bank or demand draft of a scheduled bank issued in favour of Registrar, GGSIPU. **50%** of earnest money or **Rs.20,00,000/-**, whichever is less, will have to be deposited in the shape prescribed above and balance amount of the earnest money can be accepted in the form of Bank Guarantee issued by scheduled bank having validity of 6 months or more from the last date of receipt of tenders.

7. Earnest Money, Copy of Pan Card, VAT Registration alongwith acknowledgement of VAT return of last quarter, copy of enlistment in appropriate class, shall be placed in separate sealed envelope marked “Eligibility Documents” Duly filled financial bid alongwith tender document shall be placed in another envelope marked “ Financial bid”. Both the envelopes shall be submitted together in another sealed envelope super scribed with the name of work and due date of opening, which will be received by the EE/UWD upto 3.00 pm on **04/03/2014** and will be opened by him or his authorized representative in his office on the same day at 3.30 pm. The envelope marked “ Eligibility Document” shall be opened first and Financial bid in other envelope marked “ Financial Bid alongwith tender document” of only those renderers shall be opened, whose validity of enlistment, earnest money and other documents are found to be in order.
8. The time allowed for carrying out the work will be 75 days from the date of start as defined in Schedule ‘F’ or from the first date of handing over of site, whichever is later, in accordance with phasing, if any, indicated in the tender documents.
9. The site of work is available.
10. Last date for submission of tender document is **04/03/2014 upto 15.00 Hrs.**
11. 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 Banker’s Cheque of any scheduled bank/Demand Draft of any scheduled bank/Pay order of any scheduled bank (in case guarantee amount is less than **Rs.1,00,000/-**) or Fixed Deposit Receipts of any Schedule Bank or in the form of an irrevocable bank guarantee bond of any scheduled nationalized bank in accordance with the form prescribed. 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. The Earnest Money deposited alongwith the tender shall be returned after receiving the above said Performance Guarantee.
12. The description of the work is as follows:

Name of work: A/A GGSIP University, Dwarka Campus, New Delhi

Sub Head: Construction of University Facilitation Centre and Modification of Pilot Room at GGSIPU, Dwarka

13. Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderers at the office of Executive Engineer, UWD. Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves the form and nature of the site, the means of access to the site, the accommodation they may require and before submitting their tenders 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 charges 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 document. Submission of a tender by tenderer implies that he has read this letter 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 GGSIPU and local conditions and other factors having a bearing on the execution of the work.
14. The competent authority on behalf of the GGSIPU 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 assigning any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
15. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
16. The competent authority on behalf of GGSIPU 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.
17. The Contractor shall not permitted to tender for works in the UWD 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 officer in the GGSIPU. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
18. The tender for the works shall remain open for acceptance for a period of (90) Ninety days from the date of opening of tenders/ninety days from the date of opening of financial bid in case tenders are invited on 2/3 envelope system. If any tenderer 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 GGSIPU, then the GGSIPU 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 re tendering process of the work.

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

- a) Notice inviting tender, Tender document including Schedule of Quantities, Contract clauses, Special conditions, particular specifications and drawings, if any, forming part of the tender document as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
- b) Standar Contract form 7/8 of 2010.
- c) Integrity Pact.

The terms and conditions of this tender document shall have precedence over the corresponding provisions of GCC 2010.

20. The GGSIPU reserve the right to reject any or all prospective applications without assigning any reason and to restrict the list of contractors to any number deemed suitable by it.

**Executive Engineer (Civil)
University Works Division**

INTEGRITY PACT

To,

Sub: NIT No. 26/EE/UWD/2013-2014 for the work A/A GGSIP University, Dwarka Campus, New Delhi, Sub head :- Construction of University Facilitation Centre and Modification of Pilot Room at GGSIPU, Dwarka.

Dear Sir,

It is here by declared that GGSIPU is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the GGSIPU.

Yours faithfully

Executive Engineer
(University Works Division)

INTEGRITY PACT

To,

Executive Engineer,
University Works Division
GGSIU, Sector- 16C, Dwarka,
New Delhi – 110078

Sub: Submission of Tender for the work of

Name of Work: A/A GGSIP University, Dwarka Campus, New Delhi

Sub head :- Construction of University Facilitation Centre and Modification of Pilot Room at GGSIPU, Dwarka.

Dear Sir,

I/We acknowledge that GGSIPU is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed Integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that **THE MAKING OF THE BID SHALL BE REGARDED AS AN UNCONDITIONAL AND ABSOLUTE ACCEPTANCE** of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by GGSIPU. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, GGSIPU shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours Faithfully

(Duly authorized signatory of the Bidder)

INTEGRITY PACT

INTEGRITY AGREEMENT

THIS Integrity Agreement is made at _____ on this _____ day of _____ 20_____

BETWEEN

GGSIPU represented through Executive Engineer, UWD, (Hereinafter referred as the **'Principal/Owner'**, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

_____ through _____ (Hereinafter referred as the **"Bidder/Contractor"** and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS the Principal/Owner has floated the Tender (NIT No. _____) (hereinafter referred to as **"Tender/Bid"**) and intends to award, under laid down organizational procedure, contract for the work of **A/A GGSIP University, Dwarka Campus, New Delhi, Sub head :- Construction of University Facilitation Centre and Modification of Pilot Room at GGSIPU, Dwarka** hereinafter referred to as the **"Contract"**.

And WHEREAS the Principal/Owner values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Contractor(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement(hereinafter referred to as **"Integrity Pact"** or **"Pact"**), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants in this pact, the parties hereby agree as follows and this pact witnesses as under:

Article 1: Commitment of the Principal/Owner

- 1) The Principle/Owner commits itself to take all measures necessary to prevent corruption and to observe the following principles:
 - a) No employee of the Principal/Owner, personally or through any of his/her family members, will in connection with the Tender, or the execution of the

- Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.
- b) The Principal/Owner will, during the Tender process, treat all Bidder(s) with equity and reason. The Principal/Owner will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential/additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.
 - c) The Principal/Owner shall endeavour to exclude from the Tender process any person, whose conduct in the past has been of biased nature.
- 2) If the Principal/Owner obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Principal/Owner will inform the Chief Vigilance Officer and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Contractor(s)

- 1) It is required that each Bidder/Contractor (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government/Department all suspected acts of **fraud or corruption or Coercion or Collusion** of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.
- 2) The binder(s)/Contractor(s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:
 - a) The bidder(s)/Contractor(s) will not, directly or through any other person or firm, offer, promise or give to any of the Principal/Owner's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.
 - b) The Bidder(s)/Contractor(s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.
 - c) The Bidder(s)/Contractor(s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will; not use improperly;, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Principal/Owner as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

- d) The Bidder(s)/Contractor(s) of foreign origin shall disclose the names and addresses of agents/representatives in India, if any. Similarly Bidder(s)/Contractor(s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.
 - e) The Bidder(s)/Contractor(s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.
- 3) The Bidder(s)/Contractor(s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.
 - 4) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm indulge in fraudulent practice **means a willful misrepresentation or omission of facts or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of other and/or to influence the procurement process to the detriment of the Government interests.**
 - 5) The Bidder(s)/Contractor(s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Principal/Owner under law or the Contract or its established policies and laid down procedures, the Principal/Owner shall have the following rights in case of breach or this Integrity Pact by the Bidder(s)/Contractor(s) and the Bidder/Contractor accepts and undertakes to respect and uphold the Principal/Owner's absolute right:

- 1) If the Bidder(s)/Contractor(s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Principal/Owner after giving 14 days notice to the contractor shall have powers to disqualify the Bidder(s)/Contractor(s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Principal/Owner. **Such exclusion may be forever or for a limited period as decided by the Principal/Owner.**

- 2) **Forfeiture of EMD/Performance Guarantee/Security Deposit:** If the Principal/Owner has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1) the principal/owner apart from exercising any legal right that may have accrued to the Principal/Owner, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Contractor.
- 3) **Criminal Liability:** If the Principal/Owner obtains knowledge of conduct of a Bidder or Contractor, or of an employee or a representative or an associate of a Bidder or Contractor which constitutes corruption within the meaning of IPC Act, or if the Principal/Owner has substantive suspicion in this regard, the Principal/Owner will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

- 1) The bidder declares that no previous transgressions occurred in the last 5 year with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.
- 2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/holiday listing of the Bidder/Contractor as deemed fit by the Principal/Owner.
- 3) If the Bidder/Contractor can prove that he has resorted/recouped the damage caused by him and has installed a suitable corruption prevention system, the Principal/Owner may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/Contractors/Subcontractors

- 1) The Bidder(s)/Contractor(s) undertake(s) to demand from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation (s) of the principles laid down in this agreement/Pact by any of its Sub-contractor/Sub-vendors.
- 2) The Principal/Owner will enter into Pacts on identical terms as this one with all Bidders and Contractors.
- 3) The Principal/Owner will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6: Duration of the Pact

This Pact begins when both the parties have legally signed it. It expires for the Contractor/Vendor 12 months after the completion of work under the contract or till the continuation of defect liability period, whichever is more and for all other bidders, till the Contract has been awarded.

If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority, GGSIPU.

Article 7: Other Provisions

- 1) This pact is subject to Indian Law, place of performance and jurisdiction is the **Head quarters of the Division** of the Principal/Owner, who has floated the Tender.
- 2) Changes and supplements need to be made in writing. Side agreements have not been made.
- 3) If the Contractor is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
- 4) Should one or several provisions of this pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intensions.
- 5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement/Pact or any action taken by the Owner/Principal in accordance with this **Integrity agreement /pact interpretation thereof shall not be subject to arbitration.**

Article 8: Legal and Prior Rights

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contract documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHERE OF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

(For and on behalf of Principal/Owner)

(For and on behalf of Bidder/Contractor)

WITNESSES:

1. _____
2. _____

Place:

Dated:

Letter of Submission
Item Tender

(A) Tender for work of A/A GGSIP University, Dwarka Campus, New Delhi

Sub Head: Construction of University Facilitation Centre and Modification of Pilot Room at GGSIPU, Dwarka

- i) To be submitted by **15.00 HRS hours up to 04/03/2014** to Executive Engineer. UWD, Ground Floor, Library Block, GGSIPU, Sector-16C, Dwarka, New Delhi-110078
- ii) To be opened in presence of tenderers who may be present at **15.30 hours on - 04/03/2014** in the office of **Ex. Engr**, UWD, Ground Floor, Library Block, GGSIPU, Sector-16C, Dwarka, New Delhi-110078

Issued to -----
Signature of officer issuing the documents -----
Designation -----
Date of Issue -----

T E N D E R

I/ We have read and examined the Notice inviting tender, specifications applicable, Drawings & Designs, General Rules and Directions, Conditions of Contract, clauses of contract, special condition, particular Specification, Schedule of Quantities & 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 GGSIPU 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.

We agree to keep the tender open for Ninety (90) days from the due date of opening of tender/ninety days from the date of opening of financial bid in case tenders are invited on 2/3 envelop system and not to make any modifications in its terms and conditions.

The earnest money of **Rs.** _____/- has been deposited in the shape of fixed deposit receipt of a scheduled bank/ demand draft of a scheduled bank/bank guarantee of scheduled bank issued in favour of Registrar, GGSIPU. If I/we, fail to furnish the prescribed performance guarantee within prescribed period, I/We agree that the said

GGSIPIU or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said Performance Guarantee absolutely. Further, if I/we fail to commence work as specified, I/we agree that GGSIPU or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the performance guarantee absolutely. The said performance guarantee shall be guarantee 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, upto maximum of the percentage mentioned in Schedule 'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in Clause 12.2 and 12.3 of the clauses of contract. Further, I/We agree that in case of forfeiture of earnest money or both Earnest Money & Performance Guarantee as aforesaid, I/We shall be debarred for participation in the retendering 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.

Date -----

Signature of Contractor
Postal Address

Witness :

Address :

Occupation :

A C C E P T A N C E

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the GGSIPU for a sum of Rs.----- (Rupees -----)

The letters referred to below shall form part of the Agreement :

- a)
- b)
- c)

**Executive Engineer (Civil),
University Works Division**

**GURU GOBIND SINGH INDRAPRASTHA UNIVERSITY
SECTOR-16C, DWARKA, NEW DELHI-110078**

1. Notice Inviting Tender will state the work to be carried out, as well as the date for submission and opening of tenders and the time allowed for carrying out the work, also the amount of earnest money to be deposited at the time of purchase of tender. The performance Guarantee to be deposited by the successful tenderer and the amount of security deposit to be deducted from bills. Copies of the specifications, designs and drawings and any other documents required in connection with the work signed for the purpose of identification by the officer inviting tender shall also be open for inspection by the contractor at the office of officer inviting tender during office hours.
2. In the event of the tender being submitted by a firm, it must be signed separately by each partner thereof or in the event of the absence of any partner, it must be signed on his behalf by a person holding a power of attorney authorizing him to do so, such power of attorney to be produced with the tender, and it must disclose that the firm is duly registered under the Indian Partnership Act, 1952.
3. Receipts for payment made on account of work, when executed by a firm, must also be signed by all the partners, except where contractors are described in their tender as a firm, in which case the receipts must be signed in the name of the firm by one of the partners, or by some other person having due authority to give effectual receipts for the firm.
4. Any person who submits a tender shall fill up the Schedule of Quantity form, stating at what rate he is willing to undertake each item of the work. Tenders, which propose any alteration in the work specified in the said form of invitation to tender, or in the time allowed for carrying out the work, or which contain any other conditions of any sort, including conditional rebates, will be summarily rejected. No single tender shall include more than one work, but contractors who wish to tender for two or more works shall submit separate tenders for each. Tender shall have the name and number of the works to which they refer, written on the envelopes.
5. The officer inviting tender or his duly authorized representatives, will open tenders in the presence of any intending contractors who may be present at the time, and will enter the amounts of the several tenders in a comparative statement in a suitable form. In the event of a tender being accepted, a receipt for the earnest money forwarded at the time of purchase of tender shall thereupon be given to the contractor who shall thereupon for the purpose of identification sign copies of the specifications and other documents mentioned in Rule-I. In the event of a tender being rejected, the earnest money of unaccepted tenders shall thereupon be returned to the contractor, without any interest.
6. The officer inviting tenders shall have the right of rejecting all or any of the tenders and will not be bound to accept the lowest or any other tender.

7. The receipt of an accountant or clerk for any money paid by the contractor will not be considered as any acknowledgement or payment to the officer inviting tender and the contractor shall be responsible for seeing that he procures a receipt signed by the officer inviting tender or a duly authorized Cashier.
8. The memorandum of work tendered for and the schedule of materials to be supplied by the department and their issue rates, shall be filled and completed in the office of the officer inviting tender before the tender form is issued. If a form is issued to an intending tenderer without having been so filled in and incomplete, he shall request the officer to have this done before he completes and delivers his tender.
9. The tenderers shall sign a declaration under the official Secret Act 1923, for maintaining secrecy of the tender documents drawings or other records connected with the work given to them. Use of correction fluid, anywhere in tender document is not permitted. Such tender is liable for rejection.
10. Only rates quoted shall be considered. Any tender containing percentage below/ above the rates quoted is liable to be rejected. Rates quoted by the contractor in Item rate tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the contractor does not work out the amount of an item or it does not correspond with the rates written either in figures or in words, then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the contractor in figures and in words tally but the amount is not worked out correctly, the rates quoted by the contractor will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s), and amount blank, it will be presumed that the contractor has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.
11. In the case of any tender where unit rate of any item/ items appear unrealistic, such tender will be considered as unbalanced and in case the tenderer is unable to provide satisfactory explanation, such a tender is liable to be disqualified and rejected.
12. All rates shall be quoted on the tender form (i.e. Schedule of Quantities). The amount for each item should be worked out and requisite totals given. Special care should be taken to write the rates in figures as well as in words and the amount in figures only, in such a way that interpolation is not possible. The total amount should be written both in figures and in words. In case of figures, the word 'Rs.' should be written before the figure of rupees and word 'P' after the decimal figures, e.g. 'Rs.2.15 P' and in case of words, the word, 'Rupees' should precede and the word 'Paise' should be written at the end. Unless the rate is in whole rupees and followed by the word 'only' it should invariably be upto two decimal places. While quoting the rate in schedule of quantities, the word 'only' should be written closely following the amount and it should not be written in the next line.

13.
 - i) The contractor whose tender is accepted shall be required to deposit an amount equal to 5% of the tendered value of the work as performance guarantee within the period as specified in schedule-'F' in the form of an irrevocable bank guarantee bond of any scheduled bank in accordance with the form prescribed, fixed deposit receipt or demand draft in favour of Registrar, GGSIPU.
 - ii) The contractor whose tender is accepted, will also be required to furnish by way of Security Deposit for the fulfillment of his contract, an amount equal to 5% of the tendered value of the work. The Security deposit will be collected by deductions from the running bills of the contractor at the rate of 5% and the earnest money deposited at the time of tenders, will be treated as a part of the Security Deposit. The Security amount will also be accepted in the shape of Fixed Deposit Receipt of a Scheduled Nationalized Bank or State Bank of India will also be accepted for this purpose provided confirmatory advice is enclosed. The security deposit as deducted above can be released against bank guarantee issued by a scheduled bank, on its accumulations to a minimum of Rs. 5 lakh subject to the condition that amount of such bank guarantee, except last one, shall not be less than Rs. 5 lakh.
14. On acceptance of the tender, the name of the accredited representative(s) of the contractor who would be responsible for taking instructions from the Engineer-in-Charge shall be communicated in writing to the Engineer-in-Charge.
15. Sales Tax/VAT (except service tax) purchase tax, turnover tax or any other tax on material in respect of this contract shall be payable by the Contractor and GGSIPU will not entertain any claim whatsoever in respect of the same.
16. The contractor shall give a list of both gazetted and non-gazetted GGSIPU employees related to him.
17. The tender for the work shall not be witnessed by a contractor or contractors who himself/themselves has/have tendered or who may and has/have tendered for the same work. Failure to observe this condition would render, tenders of the contractors tendering, as well as witnessing the tender, liable to summary rejection.
18. The tender for composite work includes, in addition to building work, all other works such sanitary and water supply installations drainage installation, electrical work, horticulture work, roads and paths etc. The tenderer apart from being a registered contractor (B&R) of appropriate class, must associate himself with agencies of appropriate class which are eligible to tender for sanitary and water supply drainage, electrical and horticulture works in the composite tender.
19. The contractor shall comply with the provisions of the Apprentices Act 1961, and the rules and orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the GGSIPU may in his discretion, without prejudice to any other right or remedy available in law, cancel the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the said Act.

CONDITIONS OF CONTRACT**Definitions**

1. The Contract means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of the GGSIPU and the Contractor, together with the documents referred to therein including these conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in-Charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.
2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:
 - i) The expression works or work shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional.
 - ii) The Site shall mean the land/ or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work, is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.
 - iii) The Agency / Contractor / Tenderer shall mean the individual, firm or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assigns of such individual, firm or company.
 - iv) The GGSIPU means the Guru Gobind Singh Indraprastha University and his successors.
 - v) The Engineer-in-Charge means the Executive Engineer, UWD.
 - vi) Accepting Authority shall mean the authority mentioned in Schedule 'F'.
 - vii) Excepted Risk are risks due to riots (other than those on account of contractor's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, any acts of Government, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the contractor has no control and accepted as such by the

Accepting Authority or causes solely due to use or occupation by Government of the part of the works in respect of which a certificate of completion has been issued or a cause solely due to Government's faulty design of works.

- viii) Market Rate shall be the rate as decided by the Engineer-in-Charge on the basis of the cost of materials and labour at the site where the work is to be executed plus the percentage mentioned in Schedule 'F' to cover, all overheads and profits.
- ix) Schedule(s) referred to in these conditions shall mean the relevant schedule(s) annexed to the tender papers or the standard Schedule of Rates of the government mentioned in Schedule 'F' hereunder, with the amendments thereto issued upto the date of receipt of the tender.
- x) Department means Guru Gobind Singh Indraprastha University or authorized by GGSIPU to work on their behalf.
- xi) District Specifications means the specifications followed by the State Government in the area where the work is to be executed.
- xii) Tendered value means the value of the entire work as stipulated in the letter of award.

Scope and Performance

- 3. Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
- 4. Headings and Marginal notes to these General Conditions of Contract shall not be deemed to form part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.
- 5. The contractor shall be furnished, free of cost one certified copy of the contract documents except standard specifications, Schedule of Rates and such other printed and published documents, together with drawings as may be forming part of the tender papers. None of these documents shall be used for any purpose other than that of this contract.

Works to be carried out

- 6. The work to be carried out under the Contract shall, except as otherwise provided in these conditions, include all labour, materials, tools, plants, equipment and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of Quantities (Schedule-A) shall, unless otherwise stated, be held to include wastage on materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire

execution and completion of the work as aforesaid in accordance with good practice and recognized principles.

Sufficiency of Tender

7. The Contractor shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the Schedule of Quantities, which rates and prices shall, except as otherwise provided, cover all his obligations under the Contract and all matters and things necessary for the proper completion and maintenance of the works.

Discrepancies and Adjustment of Errors

8. The several documents forming the Contract are to be taken as mutually explanatory of one another, detailed drawings being followed in preference to small scale drawing and figured dimensions in preference to scale and special conditions in preference to General Conditions.
 - 8.1 In the case of discrepancy between the schedule of Quantities, the Specifications and/or the Drawings, the following order of preference shall be observed:
 - i) Description of items given in Schedule of Quantities.
 - ii) Technical Specification and Special Conditions.
 - iii) Drawings.
 - iv) C.P.W.D. Specifications.
 - v) Indian Standard Specifications of B.I.S.
 - vi) Decision of Engineer-in-Charge.
 - 8.2 If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the document and his decision shall be final and binding on the contractor.
 - 8.3 Any error in description, quantity or rate in Schedule of Quantities or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.

Form of Performance Security (Guarantee) Bank Guarantee Bond

1. In consideration of the Guru Gobind Singh Indraprastha University (hereinafter called “The University”) having offered to accept the terms and conditions of the proposed agreement between ----- and ----- (hereinafter called “the said Contractor(s)”) for the work ----- (hereinafter called “the said agreement”) having agreed to production of a irrevocable Bank Guarantee for Rs.----- (Rupees ----- only) as a security/guarantee from the contractor(s) for compliance of his obligations in accordance with the terms and condition in the said agreement.

We, ----- (hereinafter referred as “the Bank”) hereby undertake to
(indicate the name of the Bank)
pay to the University an amount not exceeding Rs.----- (Rupees -----
----- only) on demand by the University.

2. We, ----- do hereby undertake to pay the amounts due and
(indicate the name of the Bank)
payable under this guarantee without any demure, merely on a demand from the University 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 regards 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 the University any money so demanded notwithstanding any dispute or disputes raised by the contractor(s) in any suit or proceeding pending before any court or Tribunal relating thereto, our liability under this present being absolute and unequivocal.

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

4. We, ----- further agree that the guarantee herein contained shall
(indicate the name of the Bank)
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 University 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 University certified that the terms and conditions of the said agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

5. We, ----- further agree with the University that the University
(indicate the name of the Bank)
shall have the fullest liberty without our consent and without affecting in any manner our obligation hereunder to vary any of the terms and conditions of the said agreement or 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 University against the said contractor(s) and to forbear 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, or extension being granted to the said Contractor(s) or for any forbearance, act of omission on

the part of the University or any indulgence by the University 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.

6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).
7. We, ----- lastly undertake not to revoke this guarantee except
(indicate the name of the Bank)
with the previous consent of the University in writing.
8. This guarantee shall be valid upto ----- unless extended on demand by the University. 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 the ----- day of ----- for ----- (indicate the name of the Bank)

Signature & Seal of Bank

FORM OF EARNEST MONEY (BANK GUARANTEE)

WHEREAS, contractor (Name of contractor) hereinafter called “the contractor”) has submitted his tender dated.....(date) for the construction of (name of work) (hereinafter called “ the Tender”)

KNOW ALL PEOPLE by these presents that we (name of bank) having our registered office at (hereinafter called “the Bank”) are bound unto (Name and sub division of Executive Engineer) (hereinafter called “the Engineer-in-Charge”) in the sum of Rs..... (Rs. In words.....) for which payment well and truly to be made to the said Engineer-in-Charge the Bank binds itself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this..... day of20...

THE CONDITIONS of this obligation are:

- (1) If after tender opening the Contractor withdraws his tender during the period of validity of tender (including extended validity of tender) specified in the Form of tender;
- (2) If the contractor having been notified of the acceptance of his tender by the Engineer-in-Charge:
 - a) fails or refuses to execute the Form of agreement in accordance with the instructions to contractor, if required; OR
 - b) fails or refuses to furnish the Performance Guarantee, in accordance with the provisions of tender document and instructions to contractor, OR
 - c) fails or refuses to start the work, in accordance with the provisions of the contract and instructions to contractor, OR
 - d) fails or refuses to submit fresh Bank Guarantee of an equal amount of this Bank Guarantee, against Security Deposit after award of contract.

We undertake to pay to the Engineer-in-Charge up to the above amount upon receipt of his first written demand, without the Engineer-in-Charge having to substantiate his demand, provided that in his demand the Engineer-in-Charge will note that the amount claimed by him is due to him owing to the occurrence of one or any of the above conditions, specifying the occurred condition or conditions.

The Guarantee will remain in force up to and including the date*..... after the deadline for submission of tender as such deadline is stated in the instructions to contractor or as it may be extended by the Engineer-in-Charge, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE.....

SIGNATURE OF THE

SEAL

BANK

WITNESS.....

(SIGNATURE, NAME AND ADDRESS

* Date to be worked out on the basis of validity period of 6 months from last date of receipt of tender.

PROFORMA OF SCHEDULES

(Operative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of quantities - As per (Page 47 TO 60)

SCHEDULE 'B'

Schedule of materials to be issued to the contractor. NIL

SCHEDULE 'C'

Tools and plants to be hired to the contractor : NIL

SCHEDULE 'D'

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

SCHEDULE 'E'

Reference to General Conditions of contract.

Name of Work: A/A GGSIP University, Dwarka Campus, New Delhi

Sub Head: Construction of University Facilitation Centre and Modification of Pilot Room at GGSIPU, Dwarka

Estimated cost of work : **Rs. 40,48,921/-**

- i) Earnest money : **Rs. 80,978/- (to be returned after submission of performance guarantee)**
- ii) Performance Guarantee : **5% of tendered value**
- iii) Security Deposit : **2.5% of tendered value**

SCHEDULE 'F'

General Rules & Directions:

Officer Inviting Tender : Ex. Engr, UWD, GGSIPU

Definitions:

2(v) Engineer-in-Charge Ex. Engr, UWD, GGSIPU

2(viii) Accepting Authority Ex. Engr, UWD, GGSIPU

2(x) Percentage on cost of materials and labour to cover all overheads and profits 15%

2(xi) Standard Schedule of Rates DSR 2013

2(xii) Department GGSIPU

9(ii) Contract Form Form 7/8

Clause 1

- i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance, in days **4 days**
- ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above **3 days**

Clause 2

Authority for levy compensation
Under clause 2.

**Superintending Engr/ Administrative
Head, GGSIPU**

Clause 2A

Whether Clause 2A shall be applicable

Not Applicable

Clause 5

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

7 days

Table of mile stones

S.no	Description of milestone (Physical)	Time allowed in days from date of start	Amount to be withheld in case of non achievement of mile stone
1	a) Facilitation Centre Brick work upto plinth level – complete. b) Pilot Room 50% rebar and shuttering complete	20 days	1% of tendered amount
2	a) Facilitation Centre Brick work upto roof level and filling & compaction of earth/sand upto plinth level- complete b) Pilot Room 100% rebar and reinforcement complete	35 days	1% of tendered amount
3	a) Facilitation Centre Erection of roofing truss, purlin and roof sheeting- complete b) Pilot Room All RCC work complete	45 days	1% of tendered amount
4	a) Facilitation Centre All works complete	60 days	1% of tendered amount

	b) Pilot Room All brick work complete		
5	a) Pilot Room All Work Complete	75 days	1% of tendered amount

Time allowed for execution of work.

75 days

Authority to decide

- a. Extension of time
- b. Rescheduling of milestones
- c. Shifting of date of start in case of delay in handing over of site

Executive Engineer
Superintending Engineer
Superintending Engineer

Authority to give fair and reasonable extension of time for completion of work

Executive Engineer

Clause 6 or 6 A
Clause Applicable

6A

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. 5 lakh

Clause 10 A
List of testing equipment to be provided at site

Nil

Clause 10 B(ii)
Whether clause 10B(ii) is applicable

No

Clause 10 C
Component of labour expressed as percent
of value of work

Not Applicable

Clause 10 CA

Not Applicable

Clause 10 CC
Clause 10CC to be applicable in contracts with
Stipulated period of completion exceeding the
Period shown in next column

12 months

Schedule of component of other materials, labour, POL etc for price escalation

Component of Civil (except for materials covered under clause 10CA) / Electrical construction materials expressed as percent of total value of work

Component of labour expressed as percent

of total value of work

Component of POL expressed as percent
Of total value of work

Clause 11

Specifications to be followed
for execution of work

CPWD specification 2009 with upto
date correction slip/manufacturer specification

Clause 12

Type of Work

Original

12.2 & 12.3

Deviation limit beyond which clauses
12.2 & 12.3

30%

12.5

i) Deviation limit beyond which clauses
12.2 & 12.3 shall apply for foundation
Work (except earth work)

30%

ii) Deviation limit for items in earth work
sub head of DSR or related items

100%

Clause 16

Competent Authority for
deciding reduced rates

**Superintending Engr/ Admn. head
GGSIPU**

Clause 18

List of mandatory machinery tools& plants
To be deployed by the contractor at site

**As required for completion
within time period**

Clause 25

Constitution of Dispute Redressal committee

Chairman- Registrar, GGSIPU
Member-I, SE, UWD
Member-II, Technical Expert appointed
by Hon'ble VC

Clause 36(i)

Requirement of Technical representative(s)
and recovery rate

S.No	Requirement	Qualification	Rate of Recovery
1	Engineer (Civil)	Graduate in Civil Engg. or Diploma in Civil Engg. with 5 years experience.	Rs.25,000/- per month

Clause 42

(i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen of the basis of Delhi Schedule of Rates2012 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 Lakhs. 3% plus/minus

For works with estimated cost put to tender not more than Rs. 5 Lakhs. 2% plus/minus

(b) Bitumen 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/minus

(d) All other materials Nil

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

S.No.	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1.	Cement	NIL	Rs. 5,020/- per MT.
2.	Steel Reinforcement		
	i) Primary Manufacture	NIL	Rs.45,387/- per MT.
	ii) Secondary Manufacture or ISPs	NIL	Rs.41,000/- per MT.

Special Conditions

Special Conditions

- 1.0 “CPWD Specifications” wherever appearing in this document would mean Latest edition of CPWD specifications with correction slips issued upto the last date of receipt of tender.
- 2.0 GCC 2010 referred in this document is Govt of India Publication and is available in the market.
 - a) Form 7/8, forming part of ‘GCC 2010’ shall be superceeded by this document.
 - b) Wherever “President of India” is appearing in the GCC 2010 same shall be read as GGSIPU.
 - c) Wherever Superintending Engineer or Chief Engineer is appearing in GCC 2010, it may be read as Superintending Engineer/Administrative Head GGSIPU or Chief Engineer/Administrative Head GGSIPU.
 - d) Wherever CPWD or PWD is appearing in GCC 2010, it may be read as GGSIPU.
- 3.0 Unless otherwise provided in the schedule of quantities the rates tendered by the contractor shall be all-inclusive and shall apply to all heights, levels, depths, leads, lifts including shafts, machine room & stair cases. The rates for all items of work, unless clearly specified otherwise, shall include the cost of all labour, materials, and other inputs involved in the execution of the items.
- 4.0 No foreign exchange shall be made available by the department for the purpose of procurement of equipment, plants, machinery, materials of any kind or any other items required to be carried out in execution of work.
- 5.0 The contractor or his authorized representative should always be available at the site of work to take instructions from Engineer in charge, and ensure proper execution of work.
- 6.0 No work shall commence in the absence of contractor’s engineers and they shall certify in writing about the correctness of layout alignment and shall ensure stability of all structural work such as partition panel and other related items.
- 7.0 All work and materials brought and left upon the ground by the contractor or by his orders for the purpose of forming part of the works, are to be considered to be the property of the GGSIPU and the same are not to be removed or taken away by the contractor or any other person without consent in writing of the Engineer-in-charge but the GGSIPU is not to be in any way responsible for any loss or damage which may happen to or in respect of any such work or materials either by the same being lost or damaged by weather or otherwise.
- 8.0 The contractor shall execute the different items simultaneously, as far as possible, so that minimum breakage and repairs are involved.

- 9.0 The contractor shall take all necessary precautions to prevent any nuisance or inconvenience to the owners, tenants of adjacent properties and to the public in general and to prevent any damage to such properties and any pollution of environment and waterways. He shall make good at his own cost and to the satisfaction of the Engineer-in-Charge, any damage to public or private property whatsoever caused by the execution of the work or by traffic brought thereon by the contractor. Utmost care shall be taken to keep the noise level to the barest minimum so that no disturbance as far as possible is caused to the occupants/users of adjoining buildings.
- 10.0 All associated activities required for obtaining necessary clearances, permissions, approvals, all licenses etc. as required from all concerned authorities in respect of installation and commissioning shall be the responsibility of the contractor, the cost for which shall be deemed to be included in the rates for various items of work of Schedule of Quantities. However, actual statutory fee paid to the concerned authorities for obtaining approvals if any, shall be reimbursed by the University on production of proof of payment made by the Contractor.
- 11.0 The contractor shall be responsible for watch and ward of all the works, equipment and various materials till complete handing over of works.
- 12.0 Wherever any reference to any Indian Standards Specification occurs in the documents relating to this contract the same shall be inclusive of all amendments issued their to or revisions there of if any, upto the date of receipt of tenders.
- 13.0 The site of work may be at one or more places within the campus and at any floor upto six levels for which nothing extra shall be paid.
- 14.0 Cess @ 1% of gross value of work done shall be deducted from the payment as per Delhi Building & other Construction Workers Welfare Cess Act 1996 besides other statutory deduction like income tax, VAT etc.
- 15.0 The contractor shall be fully responsible for rectifying the defect, which may happen during the use up to 12 months from the date of completion of the work. The decision of Engineer-in-Charge in this regard shall be final & binding. In case the contractor fails to carry out the said repairs, rectifications, replacement within the specified time, the department shall get the repairs / rectifications / replacement as considered necessary at the cost of the contractor by recovering the cost from the security deposit. In case additional expenditure is incurred by the department on this account, the same shall be borne by the contractor.
- 16.0 The rates quoted by the contractor shall be all inclusive keeping in mind the specifications, special conditions and technical specifications and nothing extra shall be payable whatsoever, unless otherwise specified.
- 17.0 If the work is carried out in more than one shifts or during night to meet the time period of completion, nothing extra shall be paid on this account.
- 18.0 Contractor shall have to make own arrangement for water & electricity, otherwise 1% of gross amount shall be deducted from the dues of the contractor.

19.0 The contractor shall follow the instruction and restrictions imposed by the Administration / Police authorities on the working and movement of labour / material / vehicles etc and nothing extra shall be paid on this account.

20.0 All the materials are to be got approved from the Engineer-in-Charge before using the same in the work.

21.0 Special conditions for cement

21.1 The contractor shall procure 43 grade ordinary Portland cement conforming to IS 8112/Portland Pozzolana Cement conforming to IS:1489 (Part-I) as required in the work, from reputed manufacturers of cement such as ACC, Ultratech, Vikram, Shree Cement, Ambuja, Jaypee Cement, Century Cement & J.K. Cement or from any other reputed cement Manufacturer having a production capacity not less than one million tonnes per annum as approved by ADG for that sub region.

The tenderers may also submit a list of names of cement manufacturers which they propose to use in the works. The tender accepting authority reserves right to accept or reject name(s) of cement manufacturer(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. The supply of cement shall be taken in 50 kg. bags bearing manufacturer's name and ISI marking. 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. In case the test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected, and it 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.

21.2 The cement shall be brought at site in bulk supply of approximately 10 tonnes or as decided by the Engineer- in- charge. The cement godown of the capacity to store a minimum of 500 bags of cement shall be constructed by the contractor at site of work for which no extra payment shall be made.

21.3 Double lock provision shall be made to the door of the cement godown. The keys of one lock shall remain with the Engineer-in-Charge or his authorized representative and the keys of the other lock shall remain with the contractor. 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 at any time.

21.4 The cement shall be got tested by the Engineer-in-charge and shall be used on the work only after satisfactory test results have been received. The contractor shall supply free of charge the cement required for testing including its transportation cost to testing laboratories. The cost of tests shall be borne by the contractor/Department in the manner indicated below:

(a) By the contractor, if the results show that the cement does not conform to relevant BIS codes.

(b) By the Department, if the results show that the cement conforms to relevant BIS codes.

21.5 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. In case the cement consumption is less than theoretical consumption including permissible variation, recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to made.

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

21.7 The damaged cement shall be removed from the site immediately by the contractor on receipt of a notice in writing from the Engineer-in-charge. If he does not do so within 3 days of receipt of such notice, the Engineer-in-charge shall get it removed at the cost of the contractor.

22.0 Special conditions for steel

22.1 "The contractor shall procure TMT bars of Fe500 grade from primary steel producers such as SAIL, Tata Steel Ltd., RINL, Jindal Steel & Power Ltd. and JSW Steel Ltd. or any other producer as approved by CPWD who are using iron ore as the basic raw material/input and having crude steel capacity of 2.0 Million tonnes per annum and above.

In case of non-availability of steel from primary producers TMT reinforcement bars can be procured from steel producers having Integrated Steel Plants (ISPs) using iron ore as the basic raw material for production of crude steel which is further rolled into finished shapes in-house having crude steel capacity of 0.5 Million tonne per annum and more. The TMT bars procured from Primary Producers and ISPs shall conform to manufacture's specifications. The TMT bars procured from secondary producers shall conform to the specifications as laid by Tempcore, Thermex, Evcon Turbo & Turbo Quench as the case may be. TMT bars procured either from Primary Producers, ISPs or secondary producers, the specifications shall meet the provisions of IS 1786:2008.

In case of non-availability of steel from Primary Producers as well as ISPs TMT reinforcement bars can be procured from secondary producers. The secondary producers must have valid BIS licence to produce HSD bars conforming to IS 1786 : 2008. In addition to BIS licence, the secondary producer must have valid licence from either of the firms Tempcore, Thermex, Evcon Turbo & Turbo Quench to produce TMT Bars.

22.2 The contractor shall have to obtain and furnish test certificates to the Engineer-in-charge in respect of all supplies of steel brought by him to the site of work. 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 not be defaced by the Site staff and kept on record in the site office.

- 22.3 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 the specifications as defined under para 22.1 4above, the same shall stand rejected, and it shall be removed from the site of work by the contractor at his cost within a week time or written orders from the Engineer-in-Charge to do so.
- 22.4 The steel reinforcement bars shall be brought to the site in complete as per design or as decided by the Engineer-in-charge.
- 22.5 The steel reinforcement bars shall be stored by the contractor at site of work in such a way as to prevent their distortion and corrosion, and nothing extra shall be paid on this account. Bars of different sizes and lengths shall be stored separately to facilitate easy counting and checking.
- 22.6 For checking nominal mass, tensile strength, bend test, re-bend test etc. specimens of sufficient length shall be cut from each size of the bar at random, and at frequency not less than that specified below:

SIZE OF BAR	FOR CONSIGNMENT BELOW 100 TONNES	FOR CONSIGNMENT OVER 100 TONNES
Under 10 mm dia	One sample for each 25 tonnes or part thereof.	One sample for each 40 tonnes or part thereof
10 mm to 16 mm dia	One sample for each 35 tonnes or part thereof.	One sample for each 45 tonnes or part thereof
Over 16 mm dia	One sample for each 45 tonnes or part thereof	One sample for each 50 tonnes or part thereof

- 22.7 The contractor shall supply free of charge the steel required for testing including its transportation to testing laboratories. The cost of tests shall be borne by the contractor.
- 22.8 The actual issue and consumption of steel on work shall be regulated and proper accounts maintained as provided in clause 10 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. In case the consumption is less than theoretical consumption including permissible variations recovery at the rate so prescribed shall be made. In case of excess consumption no adjustment need to be made.

- 22.9 The steel brought to site and the steel remaining unused shall not be removed from site without the written permission of the Engineer-in-charge.
- 22.10 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. Steel brought to site and steel remaining unused shall not be removed from site without the written permission of the Engineer-in-Charge.
- 22.11 In case the contractor is permitted to use TMT reinforcement bars procured from ISPs or secondary producers then
- i) The rate of providing & laying TMT reinforcement bars as quoted by the contractor in the tender shall also be reduced by Rs 7.30 per kg.

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.

- 22.12 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.
- 22.13 The standard sectional weights referred to as in Table IV in para 5.3.3 in CPWD Specifications for works 2009 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.
- 22.14 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.
- 22.15 If the Derived Weight as in sub-para above is less than the Standard Weight then the Derived Actual Weight shall be taken for payment. If the Derived Actual Weight is found more than the Standard Weight, the Standard Weight 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.

23.0 Conditions for Structural Steel

- 23.1 The scope of work for the contractor in respect of structural steel work shall cover, but shall not be limited to the following:
- A. Preparation of complete detailed shop fabrication drawings based on the design drawings for approvals, required for all the permanent structures.

- B. Submission of revised design, with calculations and detailed fabrication drawings, in case any substitution of the designed sections is required.
- C. Submission and getting approval of shuttering, staging and scaffolding details.
- D. Procurement and testing of all raw structural steel materials in lots for fabrication taking into account wastage margin etc.
- E. Providing all materials, labour, tools & plant and equipments and all types of consumables required for fabrication.
- F. Fabrication of the steel works in accordance with the approved fabrication drawings, including all shop assembling, matching and marking. Design, manufacture/fabrication and provision of all jigs, fixings, manipulators etc. required for the fabrication are to be included in item.
- G. To submit erection plan showing a methodology & procedure for erection compatible with the details of fabrication. Also complete drawings & phase wise instructions for all the activities required to erect steel structure in final position, shall be submitted.
- H. Complete erection of the structural steelwork. The contractor shall ensure the presence of the qualified and experienced erection Engineer during complete erection work at site.
- I. All major/ minor modifications of the fabricated steel structures, as directed by the Engineer-in-charge, including but not limited to the following:
 - i) Removal of bends, kinks, twists etc. for parts damaged during transportation and handling.
 - ii) Cutting, chipping, filling, grinding etc. if required or preparation and finishing of site connections.
 - iii) Reaming of holes for use of higher size bolt if required.
 - iv) Re-fabrication of parts damaged beyond repair during transport and handling or re-fabrication of parts which are incorrectly fabricated.
 - v) Fabrication of parts omitted during fabrications by error, or subsequently found necessary.
 - vi) Drilling of holes which are either not drilled at all or are drilled in incorrect location during fabrication.
 - vii) Carry out tests in accordance with the related Specification which will be inspected by Engineer-in-charge.
 - viii) Touch up for the paints damaged during transportation / handling and final finish coat on the structure as per specification.

- ix) Details of erection equipment machinery including capacity & specifications, tools, tackles etc. to be used for erection purpose.
 - x) Necessary formwork & staging required for erection of structural steel work including design of formwork for all the anticipated loads.
 - xi) All procedures and tests on welds as per specifications and welded parts to ensure the strength requirements of joints.
- 23.2 Design drawings shall be furnished to the contractor and all such drawings shall form part of these Specifications. The availability of structural member mentioned in design drawings may be checked and if not available may be brought under notice of Engineer in charge.
- 23.3 The Engineer-in-charge reserves the right to make changes in the design drawings even after release for preparation of shop drawings to reflect addition, omission & modifications in data/details and requirements. Contractor shall consider such changes as part of these Specifications and the contract, and no extra claims shall be entertained on this account.
- 23.4 The details of connection, cuts, gusset plate shapes notches, bends shall be shown in fabrication drawings. In case of variations in design drawings and specifications, the decision of the Engineer-in-charge shall be final. Should the contractor, find any discrepancy in the information furnished to him, same shall be immediately brought to the notice of Engineer-in-charge for resolution. The contractor shall obtain clarifications on discrepancies from Engineer-in-charge before proceeding with the work.
- 23.5 No fabrication work shall be started by the contractor without approval of Engineer-in-charge on the relevant drawings. Approval by the Engineer-in-charge of any of the drawings shall not relieve the contractor of his responsibility of workmanship, fit of parts, details, materials and errors or omissions of any work.
- 23.6 The contractor shall furnish four prints of shop drawings as advance drawing (for approval) and eight prints of all approved final shop drawings along with soft copy on CD for field use and record purpose. The drawings prepared by the Contractor, and all subsequent revisions thereof shall be at the cost of the Contractor, and no separate payments shall be made for the same. Revisions shall incorporate all modifications, field changes, substitutions etc. effected. The rates/prices quoted for steel work item shall be deemed to include the cost of such drawing work.
- 23.7 All materials to be supplied by the Contractor shall conform to relevant Indian Standards as approved by the Engineer-in-charge. Steel materials required for the work shall be free from imperfections, mill scales, slag intrusions, laminations, pittings, rusts etc. that may impair strength, durability and appearance. All materials shall be of tested quality only. Test Certificates in respect of each consignment shall be submitted to Engineer-in-charge before use in work. Whenever the materials are permitted for procurement from identified stocks, a random sample shall be tested at an approved laboratory, as directed by the Engineer-in-charge.

23.8.1 Structural steel conforming to IS:2062 : Grade B- Fe 410 (yield strength=240 MPa shall be used for main members of girder structures, cross girder members, bracings, gussets plates etc. Tubes shall confirm to IS. : 1161.

LIST OF APPROVED MATERIALS

1. The Contractor shall obtain prior approval from the Engineer-in-charge before placing order for any specific material or engaging any of the specialized agencies.
2. Wherever applicable, the Engineer-in-charge may approve any material equivalent to that specified in the tender subject to proof being offered by the Contractor for equivalence to his satisfaction.

In case on non availability of the brand specified in the contract, the Contractor shall submit the documentary evidence of non availability of approved brand and suggest the alternate brand of equivalent quality for the approval of the competent authority. It will be at the discretion of the Engineer-in-Charge to approve or reject the brand suggested by the contractor and approve the name of any other equivalent brand.

3. Unless otherwise specified, the brand/make of the material as specified in the item nomenclature, in the particular specifications and in the list of approved materials attached in the tender, shall be used in the work.

	Material	Brand / Make
1.	Cement	Ultratech, ACC, Vikram 43 Grade, JP Rewa, JK, Birla, Shree Cement.
2.	White Cement	JK, Birla
3.	Water Proofing Compound (Liquid)	Pidiproof Ltd., Cico, Impermo
4.	Melamine Polish	Melamine of Asian Paint, Wudfin of pidilite Industries, Timbertone of ICI Dullex.
5.	Synthetic Enamel Paints	ICI (Dulux),Asian (Apolite),Berger (Luxol),Nerolac (NST)
6.	Primer	Asian, ICI, Berger, Nerolac
7.	Oil Bound Distemper	Asian(Tractor), ICI (Maxilite),Berger(Bison),Nerolac (NAD)
8.	Plastic /Acrylic Emulsion Paint	Asian (Royale), ICI (Velvet), Berger (Luxol Silk), Nerolac (Allscapes)
9.	Premium Acrylic Smooth exterior paint	Out stretch of NITCO, Apex Ultima of Asian, Weather shield max of ICI
10.	Wall putty	Birla, JK, Sakarni
11.	Fire Coating paint	Phoenix, Asian.
12.	Cement Paint	Snowcem Plus, Berger (Durocem Extra) Nerolac with titanium
13.	Mechanised auto claved fly ash lime bricks	Sand plast
14.	PVC/ Polypropelene Flooring	Arm Strong, LG
15.	Ceramic Tiles	Kajaria, Somany, Nitco, Orient, Bell Ceramic
16.	Vitrified /Porcelain Tile	Marbonite, Euro, Somany, diamondtile of Naveen Granamite of Bell ceramic, Granito, Kajaria
17.	Paver Blocks	Terrafirma, Unipaver.
18.	Polymer Modified quick set tile	Bal Endura, Pidilite

	adhesive	
19.	Flush Doors	Kutty flush door, Anchor, Kitlam, Jwala.
20.	Ply Wood	Kitply, Green ply, Century, Doro
21.	Pre-laminated Particle Board	Novapan, Eco Board, Kitlam
22.	Laminate	Marino, Greenlam, Century, Formica
23.	Stainless Steel Screws	Kundan, Arrow
24.	Aluminium Extrusions/ Sections	Hindalco, Indalco, Jindal
25.	Hydraulic Floor spring	Hardwyn, Godrej, Kelwin, Doorking, Everite.
26.	Hydraulic Door Closer	Hardwyn, Godrej, Kelwin, Doorking, Everite.
27.	Acoustic/Fire check doors and accessories	Godrej, Sukri, Adhunik, Navair, Pacific.
28.	Acoustic/Fire Check door fittings	D-line, Ingersoll
29.	S.S. ball bearing hinges	Hettich, D-line.
30.	Stainless steel Frictional Hinges	Earl Behari,
31.	Stainless steel- Tower bolt, Sliding door bolt, Floor door stopper	Acme, Bolt, Hardwyn
32.	Stainless steel- Handles, Door closer	Ozone, Hardwyn, Shanu Acme
33.	Mortice latch & lock	Godrej, ACME
34.	Masking taps	Suncontrol, wonder plymer
35.	EPDM Gasket	Roop/ Anand.
36.	Structural steel section	TATA, SAIL, RINL
37.	Tubular Steel work (M. S. Pipes)	TATA, Jindal (Hisar), GSF.
38.	Steel	SAIL, TISCO, RINL
39.	Float Glass/ Mirror	Modi Float, Saint Gobain, Asahi
40.	Toughened Glass	Sant Gobain, Emirates, Asahi, Viracon.
41.	Annealed Float Glass	Saint Gobain, Modi Guard, Hindustan Pilkington
42.	Calcium silicate false ceiling tiles with Cilauttee flase ceiling grid system	Aerolite, Promat.
43.	Galvanized/Stainless Steel Anchor Fasteners	Hilti, Fischer
44.	Structural Silicon Sealant	Dow Corning, Wacker, GE, Du-pont
45.	Gypsum fire resistant boards/tiles, Fully perforated gypsum plaster board/ tiles	Gyproc (Saint Gobain India), Lafarge
46.	Pre coated galvanized steel sheet	TATA, BHUSHAN
47.	Resin bonded fibre glass wool	Llyods, UP Twiga
48.	GI Pipe	Tata, Jindal (Hissar)
49.	GI fitting	Unik, R, KS
50.	Centrifugally Cast Iron Pipe & Fittings	Neco, Kapilansh
51.	Orissa Pan	Perryware / Hindware
52.	White vitreous china wash basin, WC Pan, Cislars	Hindware, Perryware
53.	CP Brass-Waste, towel rail, soap dish	Jaquar, Crabtree
54.	Plastic Connection Pipe	Perryware/Kamal Delux
55.	CP Waste Coupling	Jaquar, Crabtree
56.	CP Bottle Trap	Perryware / Hindware / Jaquar
57.	Waste Pipe	Kamal with brass checknut/Viking

58.	Stainless steel sink with or without draining board	Nirali, Hindware, Frankee, Diamond
59.	RCC pipes	Pragati concrete udyog, usha spun pipe Co, jain spun pipe Co. (ISI marked pipe)
60.	C.I. Manhole Covers and Frames	SRIF, RIF, Kajeco
61.	PCC/SFRC Manhole covers and frames	KK Manholes and Grating Pvt. Ltd.
62.	Sand cast iron fitting	RIF, NFCO, BC
63.	SW pipes & Gully Taps :	Perfect, Burn, Hind.

Volume II

Schedule of Quantities

Schedule of Quantity

Name of Work: **A/A GGSIP University, Dwarka Campus, New Delhi**

Sub Head: **Construction of University Facilitation Centre and Modification of Pilot Room at GGSIPU, Dwarka**

S. No.	Description of work	Unit	Qty	Rate(Rs./Unit)	Amount in Rs/-
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50m.				
	All kinds of soil.	cum	90.00		
2	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level.				
	a)1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)	cum	22.00		
3	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering, lead upto 50 m and lift upto 1.5 m.				
		cum	90.00		
4	supplying and stacking of earth at site brought from out side by mechanical transport including royalty and carriage.				
		cum	65.00		
5	Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in :				
	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	62.00		
6	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per square metre on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.				
		sqm	23.00		
7	Brick work with F.P.S. bricks of class designation 75 in superstructure iabove plinth level upto floor V level in all shapes and sizes in :				
	Cement Mortar 1:6 (1 cement : 6 coarse sand)	cum	79.00		
8	Half brick masonry with FPS bricks of class designation 75 in superstructure above plinth level upto floor V level.:				
	Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	95.00		

9	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centring, shuttering, finishing and reinforcement - All work upto plinth level.				
	1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	5.00		
10	Centring and shuttering including strutting, propping etc. and removal of form for :				
	a) Foundations, footings, bases of columns etc. for mass concrete.	sqm	40.00		
	b) Suspended floors, roofs, landings, balconies and access platforms	sqm	130.00		
	c) Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	135.00		
11	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement with 1 : 2 : 4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	cum	7.00		
12	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.				
	Thermo-Mechanically Treated bars.	kg	5700.00		
13	Extra for providing and placing in position 2 Nos. 6mm dia M.S.bars at every third course of half brick masonry (with FPS bricks).	sqm	95.00		
14	Supplying and filling in plinth with local sand under floors including, watering, ramming consolidating and dressing complete.	cum	14.00		
15	12 mm cement plaster of mix :				
	1:6 (1 cement : 6 coarse sand)	sqm	430.00		
16	15 mm cement plaster on rough side of single or half brick wall of mix				
	1:6 (1 cement : 6 coarse sand)	sqm	445.00		
17	Providing and applying white cement based putty of average thickness 1 mm of approved brand and manufacturer over the plastered wall surface to prepare the surface even and smooth complete.	sqm	690.00		
18	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade:				
	New work (two or more coats) over and including priming coat with cement primer.	sqm	690.00		
19	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				

	New work (Two or more coat applied @ 1.67 ltr/10sqm. over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm.)	sqm	310.00		
20	Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level suspended on inter locking metal grid of hot dipped galvanized steel sections (galvanized @ 120 gsm/sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38mm made from 0.30mm thick (minimum) sheet, spaced at 1200mm center to center and cross "T" of size 24x25mm made of 0.30mm thick (minimum) sheet, 1200mm long spaced between main "T" at 600mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600mm and size 24x25mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600mm panel to form grids of 600x600mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, wherever, required, cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 x mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4mm GI adjustable rods with galvanised butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete at all heights as per specifications drawings and as directed by Engineer-in-charge.				
	12.5mm thick square edge PVC Laminated Gypsum Tile of size 595x595mm, made of Gypsum plasterboard; manufactured from natural gypsum as per IS 2095 part I and laminated with white 0.16mm thick fire retardant PVC film on the face side and 12micron metalized polyester on the back side with all edges sealed with the face side PVC film which goes around and wraps the edges and is bonded to the edges and the back side metalized polyester film so as to make the tile a completely sealed unit.	sqm	140.00		
21	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS: 15622 of approved make in all colours, shades, except White, Ivory, Grey, Fume Red Brown laid on 20 mm thick bed of Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc. complete.	sqm	40.00		

22	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer -in-Charge in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	170.00		
23	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption's less than 0.08% and conforming to IS : 15622 of approved make in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) including grouting the joints with white cement and matching pigments etc., complete. Size of Tile 800x800 mm	sqm	105.00		
24	Deduct for not using 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) bedding in laying of floor tiles.	sqm	275.00		
25	Fixing glazed/ Ceramic/ Vitrified floor tiles with cement based high polymer modified quick-set tile adhesive (Water based) conforming to IS: 15477, in average 3mm thickness.	sqm	275.00		
26	Kota stone slabs (Prepolished) 20 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm	10.00		
27	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer. Fixing with 15x3 mm lugs 10 cm. long embedded in cement concrete block 15x10x10 cm of C.C. 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size).	kg	260.00		
28	Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part-1) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				

	35 mm thick including ISI marked Stainless Steel but hinges with necessary screws.	sqm	42.00		
29	Providing and fixing stainless steel sliding door bolts of approved make and quality with nuts and screws etc. complete as per directions of Engineer Incharge :				
a)	250x16 mm	each	16.00		
b)	300 x 16 mm	each	3.00		
30	Providing and fixing stainless steel tower bolts of approved make and quality with necessary screws etc. complete as per directions of Engineer Incharge.				
a)	250 x 10 mm	each	22.00		
b)	100 x 10 mm	each	40.00		
31	Providing and fixing stainless steel handles of approved make and quality with necessary screws etc. complete as per directions of Engineer Incharge :125 mm				
a)	125 mm	each	32.00		
b)	75 mm	each	12.00		
32	Providing and fixing IS: 3564 marked aluminium extruded section body tubular type universal hydraulic door closer with double speed adjustment with necessary accessories and screws etc., complete.	each	10.00		
33	Providing and fixing decorative high pressure laminated sheet of plain wood grain in gloss / matt / suede finish with high density protective surface layer and reverse side of adhesive bonding quality conforming to IS: 2046 Type S including cost of adhesive of approved quality.				
	1.0 mm thhick	sqm	84.00		
34	Applying one coat of cement primer of approved brand and manufacture on wall surface :				
	Cement primer	sqm	700.00		
35	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3m and nuts & bolts complete. Providing g & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3m and nuts & bolts complete. Galvanised M.S. Wire gauze with 0.63mm dia wire and 1.4 mm aperture on both sides	sqm	9.00		
36	Steel work in built up tubular trusses including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, welded and bolted including special shaped washers etc. complete:				
	Electric resistance or induction butt welded tubes.	kg	3100.00		

37	Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS:733 and IS:1285, fixed with rawl plugs and screws or with fixing clips, or with expansion hold fastners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / Neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing and panelling to be paid for separately.)				
	a) For fixed portion				
	Anodised aluminium (anodised transparent or dyed to required shade according to IS : 1868, Minimum anodic coating of grade AC 15)	kg	195.00		
	b) For shutters of doors, windows and ventilators including providing and fixing hinges/pivots and making provision for fixing of fittings wherever required including the cost of PVC/neoprene gasket required (Fittings shall be paid for separately.)				
	Anodised aluminium (anodised transparent or dyed to required shade according to IS : 1868, Minimum anodic coating of grade AC 15)	kg	170.00		
38	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC / Neoprene gasket etc. complete as per the architectural drawings and the directions of Engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item.)				
	With float glass panes of 5.50 mm thickness .	sqm	16.00		
39	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms.	Each	15.00		
40	Providing & laying vitrified tiles in different sizes (thickness to be specified by manufacturer) with water absorption less than 0.8% and conforming to I.S. 15622, of approved make, in all colors and shade, in skirting, riser of steps, over 12mm thick bed of cement mortar 1:3(1 cement:3coarse sand), including grouting the joint with white cement & matching pigments etc. complete: Size of tile 600 x 600mm	sqm	52.00		

41	Chequered precast cement concrete tiles 22mm thick in footpath & courtyard jointed with neat cement slurry mixed with pigment to match the shade of tiles including rubbing and cleaning etc., complete on 20mm thick bed of cement mortar 1:4 (1 cement : 4 coarse sand).				
	Dark shade using ordinary cement.	sqm	20.00		
42	Providing and fixing precoated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50mm +/- 5% total coated thickness (TCT) Zinc coating 120gms as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns, sheet should have protective guard film of 25 microns minimum to avoid scratches while transportation and should be supplied in single length upto 12metre or as directed by Engineer-in-charge. The sheet shall be fixed using self drilling / self tapping screws of size (5.5 x 55mm) with EPDM seal or with polymer coated J or L hooks, bolts and nuts 8mm diameter with bitumen and GI limpet washers or with GI limpet washers filled with white lead complete upto any pitch in horizontal / vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	sqm	165.00		
43	Providing and fixing precoated galvanised steel sheet roofing accessories 0.50 mm +/- 5% total coated thickness (TCT) Zinc coating 120gsm as per IS: 277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling / self tapping screws or with polymer coated / J or L hooks, bolts and nuts and or GI seam bolts and nuts, GI plain and bitumen washers complete.:				
	a) Ridges plain (500 - 600 mm)	metre	14.00		
44	Making Plinth Protection 50mm thick of cement concrete 13:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	sqm	40.00		
45	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade:				
	Two or more coats on new work	sqm	40.00		

46	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m :All kinds of soilPipes, cables etc. exceeding 80 mm dia. but not exceeding 300 mm dia.	metre	10.00		
47	Providing, laying and jointing glazed stoneware pipes class SP1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete :150 mm diameter	metre	10.00		
48	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete :250 mm dia. R.C.C. pipe	metre	5.00		
49	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) all-round S.W. pipes including bed concrete as per standard design:150 mm diameter S.W. pipe	metre	10.00		
50	Providing and laying cement concrete 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size) upto haunches of S.W. pipes including bed concrete as per standard design :250 mm diameter S.W. pipe	metre	5.00		

51	<p>Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design :0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering shuttering all complete. (Excavation, foot rests and 12mm thick cement plaster at the external surface shall be paid for separately) :With common burnt clay F.P.S. (non modular) bricks of class designation 7.5</p>	each	1.00		
52	<p>Providing & fixing square mouth S.W. gully trap class SP 1 complete with CI grating brick masonry chamber with water tight C.I. cover with frame of 300x300mm size (inside) the weight of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design: 100 x 100 mm size P type: Woith common burnt clay F.P.S (non modular) bricks of class designation 7.5</p>	each	4.00		
53	<p>Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete :For pipes 100 to 250 mm diameter</p>	each	1.00		
54	<p>Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of fine sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.</p>	sqm	100.00		

55	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :White Vitreous china Orissa pattern W.C. pan of size 580x440mm with integral type foot rests.	each	2.00		
56	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required :W.C. pan with ISI marked white solid plastic seat and lid	each	6.00		
57	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350mm and 340x410x265mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required :Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern.	each	3.00		
58	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require :White Vitreous China Wash basin size 630x450 mm with a single 15 mm C.P. brass pillar tap.	each	7.00		
59	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
	Rectangular shape 1500 x 450 mm.	each	4.00		
60	Providing and fixing G.I. pipes complete with G.I. fittings and clamps including making good the walls etc. concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall. 15 mm dia nominal bore	metre	30.00		

61	Providing and fixing G.I. pipes complete with G.I. fittings and clamps including making good the walls etc. concealed pipe including painting with anti corrosive bitumastic paint, cutting chases and making good the wall.20 mm dia nominal bore	metre	10.00		
62	Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External work :25 mm dia. nominal bore	metre	10.00		
63	Making connection of G.I. distribution branch with G.I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete :25 to 40 mm nominal bore	each	1.00		
64	Providing and fixing PTMT bib cock of approved quality and colour.15 mm nominal bore, 122mm long. Weighing not less than 99 gms.	each	8.00		
65	Providing and fixing PTMT stop cock of approved quality and colour.20mm nominal bore, 89mm long. Weighing not less than 88 gms.	each	20.00		
66	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :Kitchen sink without drain board610x510 mm bowl depth 200 mm.	each	1.00		
67	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) 15 mm nominal bore	each	4.00		
68	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) 20 mm nominal bore	each	4.00		
69	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) 25 mm nominal bore	each	4.00		
70	Providing and fixing soil, waste and vent pipes : 100 mm dia.Sand cast iron S&S pipe as per IS: 1729.	metre	20.00		
71	Providing and fixing soil, waste and vent pipes : 75 mm diameter :Sand cast iron S&S pipe as per IS: 1729.	metre	10.00		
72	Providing lead caulked joints to sand cast iron/ centrifugally cast (spun) iron pipes and fittings of diameter:100 mm	each	5.00		
73	Providing lead caulked joints to sand cast iron/ centrifugally cast (spun) iron pipes and fittings of diameter:75 mm	each	5.00		

74	Providing and fixing plain bend of required degree.100 mmSand cast iron S&S as per IS - 1729	each	4.00		
75	Providing and fixing plain bend of required degree.75 mmSand cast iron S&S as per IS -1729	each	4.00		
76	Providing and fixing trap of of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors :				
	100 mm inlet and 75 mm outlet				
	Sand cast iron S&S as per IS : 1729	Each	4.00		
77	Steel work in built up sections / framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc as required.				
	In gratings, frames, gurad bar, ladders, railings, brachets gates and similar works.	Kg	500.00		
78	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	cum	1.00		
79	Demolishing cement concrete manually / by mechanical means including disposal of material within 50 metres lead as per direction of Engineer-in-charge.:				
	1:3:6 or richer mix	cum	1.00		
80	Dismantling stone slab flooring laid in cement mortar including stacking of serviceable material and disposal of unserviceable material within 50 metres lead.	sqm	10.00		
81	Providing and Fixing Anchor fasternas of HILTI / Fisher or equivalent make to carry of specified capapcity of load, including necessary staging and finishing to make the surface good etc complete.				
	a) 8 MM Chemical anchor	each	200.00		
	b) 16 MM Chemical anchor	each	30.00		
	c) 20 MM Chemical anchor	each	30.00		
	d) 25 MM Chemical anchor	each	10.00		
82	Kota stone slab (mirror polished) flooring over 20 mm (average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab including rubbing and polishing complete with base of cement mortar 1:4 (1cement : 4 coarse sand):				
	25 mm thick.	sqm	235.00		

83	Kota stone slabs (Mirror Polished) 25 mm thick in risers of steps, skirting, dado and pillars laid on 12 mm (average) thick cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement slurry mixed with pigment to match the shade of the slabs, including rubbing and polishing complete.	sqm	10.00		
84	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade.				
	Old work (one or more coats)	sqm	200.00		
85	Extra for providing lipping with 2nd class teak wood battens 25 mm minimum depth on all edges of shutters (over all area of door shutter to be measured)..	sqm	64.00		
86	Providing and fixing bright finished brass 100 mm mortice latch and lock ISI marked with six levers and a pair of anodised (anodic coating not less than grade AC 10 as per IS : 1868) aluminium lever handles with necessary screws etc. complete (Best make of approved quality)	each	3.00		
87	Reinforced cement concrete work in beams, suspended floors, roofs having slope upto 15 degree, landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases upto floor five level excluding the cost of centring, shuttering, finishing and reinforcement. (1 Cement : 1½ Coarse Sand : 3 Graded stone aggregate 20 mm nominal size)	cum	32.00		
88	Supply, erection & fixing in position skylights/canopy fabricated at of 1200mm x 10mm thick GE Lexam, demplow. 'polygal' or approved equivalent multiwall poly carbonate clear structural sheets fixed to MS frame with anodized aluminium profiles (top & bottom) in approved colour with EPDM gasket stainless steel screws, silicon sealent etc. asper the direction water tight structure and asper the direction of Engineer in Charge (MS frame work shall be paid separately).	Sqm	25.00		
89	Dismantling steel work manually / by mechanical means in built up sections without dismembering and stacking within 50 metres lead as per direction of Engineer-in-charge.	Kg	500.00		
90	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level : 1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40 mm nominal size)	cum	10.00		
Total					

**Executive Engineer
University Works Division**