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Name of Work: Setting right of vacant house no 120 127 and 1002 Type I

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NIT amounting to Rs. 8,46,408.00 (Rupees Eight Lac Forty Six Thousand Four Hundred Eight Only) is approved.

[Certified that this N.I.T. contains 48 (Forty Eight) pages]

**Sr. Assistant Engineer (SG)
I.W.D. Division-I
I.I.T., Kanpur**

**Executive Engineer
I.W.D. Division-I
I.I.T., Kanpur**

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CORRECTION (C)	NIL	A. E. E.	E.E.
INSERTION (I)	NIL		
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INDIAN INSTITUTE OF TECHNOLOGY, KANPUR
INSTITUTE WORKS DEPARTMENT
CENTRAL OFFICE
Notice Inviting e-Tenders

The Superintending Engineer, IWD, IIT Kanpur invites on behalf of Board of Governors of IIT Kanpur online percentage rates tender on single bid system from the Registered contractors of CPWD, BSNL, MES & Central PSUs in appropriate category having experience of Civil works from last 7 years for the following work.

1. NIT No. 11/C/D1/2019-20/01, Name of work: **Renovation of one block of Type 1 B house no 177 IB to 184 IB**, Estimated cost **Rs. 6,92,826/-**, Earnest money **Rs. 13,857/-**, Period **3 months**, Last time and date of submission of bid 3.30 PM on **07.09.2019**.
2. NIT No. 11/C/D1/2019-20/02, Name of work: **Setting right of vacant house no 167 1026 and 1037 Type I**, Estimated cost **Rs. 7,86,105/-**, Earnest money **Rs. 15,722/-**, Period **3 months**, Last time and date of submission of bid 3.30 PM on **07.09.2019**.
3. NIT No. 11/C/D1/2019-20/03, Name of work: **Setting right of vacant house no 115 136 1032 and 1071 Type I**, Estimated cost **Rs. 8,40,899/-**, Earnest money **Rs. 16,818/-**, Period **4 months**, Last time and date of submission of bid 3.30 PM on **07.09.2019**.
4. NIT No. 11/C/D1/2019-20/04, Name of work: **Setting right of vacant house no 120 127 and 1002 Type I**, Estimated cost **Rs. 8,46,408/-**, Earnest money **Rs. 16,928/-**, Period **4 months**, Last time and date of submission of bid 3.30 PM on **07.09.2019**

The bid forms and other details are available on website www.iitk.ac.in/iwd/tenderhall.htm, <https://eprocure.gov.in/eprocure/app> & www.tenderhome.com. But the bids can only be submitted online on <https://eprocure.gov.in/eprocure/app>.

No. IWD/CO/2019-20/368 Dated: 21.08.2019

Superintending Engineer

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INFORMATION AND INSTRUCTIONS FOR CONTRACTORS FOR e-TENDERING FORMING PART OF NIT AND TO BE POSTED ON WEBSITE

The Superintending Engineer, IWD, I.I.T., Kanpur on behalf of Board of Governors of IIT Kanpur invites online percentage rate tender from approved and eligible* contractors for the following work(s):

S. No. 1	NIT NO.	Name of work and location	Estimated cost put to tender	Earnest Money	Period of Completion	Last date & time of submission of tender	Period during which EMD and other Documents shall be submitted	Time & date of opening of tender
1	<u>11/C/D1/2019-20/04</u>	Setting right of vacant house no 120 127 and 1002 Type I	Rs. 846408/-	16928.00	4 Months	Upto 3.30 PM on 07.09.2019	upto 3:30 PM on 09.09.2019	At 3:30 PM on 11.09.2019

*The eligible contractors means registered in CPWD, BSNL, MES & Central PSUs if they furnish the definite proof from the appropriate authority of having satisfactorily completed three similar works of value 50% or two similar works of value 60% or one similar work of value 80% of estimated cost during last five years.

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

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

- The intending tenderer must read the terms and conditions of CPWD-6 for e-Tendering carefully. He should only submit his tender if he considers himself eligible and he is in possession of all the documents required.

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INSERTION (I)	NIL		
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2. Information and Instructions for tenderer posted on website shall form part of tender document.
3. The bid document consisting of plans, specifications the schedule of quantities of varies types of items to be executed and set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.iitk.ac.in/iwd/tenderhall.htm, www.tenderhome.com and <https://eprocure.gov.in/eprocure/app> free of cost and shall be submitted on line on website <https://eprocure.gov.in/eprocure/app>.
4. The intending tenderer has to fill all the details such as Banker's name, Demand Draft/Fixed Deposit Receipt /Pay Order/ Banker's Cheque/Bank Guarantee number, amount and date.

The amount of EMD can be paid by multiple Demand Draft / Pay Order / Banker's Cheque / Deposit at call receipt / Fixed Deposit Receipts along with multiple Bank Guarantee of any Scheduled Bank if EMD is also acceptable in the form of Bank Guarantee.

5. Those contractors not registered on the website mentioned above, are required to get registered beforehand. If needed they can be imparted training on online bidding process as per details available on the website.
6. The intending tenderer must have valid class-III digital signature to submit the tender.
7. On opening date, the contractor can login and see the tender opening process. After opening of tenders he will receive the competitor tender sheets.
8. Contractor can upload documents in the form of JPG format and PDF format.
9. Contractor must ensure to quote rate of each item. The column meant for quoting rate in figures appears in yellow colour.

In addition to this, while selecting any of the cells a warning appears that if any cell is left blank the same shall be treated as "0".

Therefore, if any cell is left blank and no rate is quoted by the tenderer, rate of such item shall be treated as "0" (ZERO).

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List of Documents to be scanned and uploaded within the period of tender submission:

- Copy of Registration with the Department.
- Required Experience / completion certificates of similar nature of works.
- Registration Certificates of EPF & ESIC
- Scan copy of E.M.D. as to be submitted in hard copy.
- GST Registration No.

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FORM -6 FOR e-Tendering

The Acting Superintending Engineer, IWD, I.I.T., Kanpur on behalf of Board of Governce of IIT Kanpur invites online percentage rate tender from approved and eligibl contractors for the work of: **Setting right of vacant house no 120 127 and 100 Type I**

1. The work is estimated to cost **Rs. 8,46,408.00**. This estimate, however, is given merely as a rough guide.

Criteria of eligibility

*The eligible contractors means registered in CPWD, BSNL, MES & Central PSUs if they furnish the definite proof from the appropriate authority of having satisfactorily completed three similar works of value **50%** or two similar works of value **60%** or one similar work of value **80%** of estimated cost during last five years.

2. Agreement shall be drawn with the successful tenderers on prescribed Form No. CPWD 7 (or other Standard Form as mentioned) which is available as a Govt. of India Publication and also available on website www.iitk.ac.in Tenderers shall quote his rates as per various terms and conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work is **4 months** from the date of start as defined in schedule „F“.
4. The site for the work is available.*
5. The bid document consisting of plans, specifications the schedule of quantities of varies types of items to be executed and set of terms and conditions of the contract to be complied with and other necessary documents can be seen and downloaded from website www.iitk.ac.in/iwd/tenderhall.htm, <https://eprocure.gov.in/eprocure/app> and www.tenderhome.com free of cost and shall be submitted on line on website <https://eprocure.gov.in/eprocure/app> other necessary documents also can be seen in the office of the Executive Engineer, IWD Division-I, IIT, Kanpur between hours of 10:00 AM to 5:00 PM from **21.08.2019 to 06.09.2019** every day accept on Saturdays, Sundays and Public Holidays free of cost.
6. After submission of the tender the contractor can re-submit revised tender any number of times but before last time and date of submission of tender as notified.
7. While submitting the revised tender, contractor can revise the rate of one or more item(s) any number of times (he need not re-enter rate of all the items) but before last time and date of submission of tender as notified.

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8. Earnest Money can be paid in the form of Treasury Challan or Demand Draft or Pay order or Banker`s Cheque or Deposit at Call Receipt or Fixed Deposit Receipt (drawn in favour of **the Director, IIT, Kanpur**) along with Bank Guarantee of any Scheduled Bank wherever applicable.

A part of earnest money is acceptable in the form of bank guarantee also. In such case, 50% of earnest money or Rs. 20 lac, whichever is less, will have to be deposited in shape prescribed above, and balance in shape of Bank Guarantee of any scheduled bank.

Treasury Challan or Demand Draft or Pay Order or Banker`s Cheque or Deposit at Call Receipt or FDR or Bank Guarantee against EMD, proof of Cost of Tender Document and Cost of Tender Processing Fee shall be placed in single sealed envelope superscripted as "Earnest Money, proof of Cost of Tender Document and Cost of Tender Processing Fee" with name of work and due date of opening of the tender also mentioned thereon.

The copy of work experience wherever applicable and other documents if required and specified in this bid document shall be scanned and uploaded to the e-Tendering website within the period of tender submission and certified copy of each shall be deposited in a separate envelop marked as "Other Documents" in the divisional office upto **3.30 PM on 09.09.2019**.

Both the envelopes shall be placed in another envelope with due mention of Name of work, date & time of opening of tenders and to be submitted in the office of Executive Engineer after last date & time of submission of tender and up to 03:30 PM **on 09.09.2019**.

Online tender documents submitted by intending tenderers shall be opened only of those tenderers, whose Earnest Money Deposit, proof of cost of Tender Document and e- Tender Processing Fee and other documents placed in the envelope are found in order.

The tender submitted shall be opened at 03:30 PM on **11.09.2019**.

9. The tender submitted shall become invalid and cost of tender & e-Tender processing fee shall not be refunded if:

- (i) The tenderer is found ineligible.
- (ii) The tenderer does not upload all the documents as stipulated in the tender document.
- (iii) If any discrepancy is noticed between the documents as uploaded at the time of submission of tender and hard copies as submitted physically in the office of tender opening authority.

10. 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 Deposit at Call receipt of any scheduled bank / Banker`s cheque of any scheduled bank / Demand Draft of any scheduled bank / Pay order of any Scheduled Bank (in case the guarantee amount is less than Rs. 1,00,000.00) or Government Securities or Fixed Deposit Receipts or Guarantee Bonds of any Scheduled Bank or the State Bank of India in accordance with the form annexes hereto. **In case the contractor fails to**

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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.

11. Intending Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderers shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charge consequent on any misunderstanding or otherwise shall be allowed. The tenderers shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderers implies that he has read this notice and all other conditions of contract documents and has made himself aware of the scope and specifications of the work and local conditions and other factors having a bearing on the execution of the work.
12. The competent authority on behalf of the Board of Governors, IIT, Kanpur does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all the tenders received without the assignment of any reason. All tenders in which any of the prescribed condition is not fulfilled or any condition including that of conditional rebate is put forth by the tenderers shall be summarily rejected.
13. Canvassing whether directly or indirectly, in connection with tenderers is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
14. The competent authority on behalf of Board of Governors, IIT, Kanpur reserves to himself the right of accepting the whole or any part of the tender and the tenderers shall be bound to perform the same at the rate quoted.
15. The contractor shall not be permitted to tender for works in the IIT Kanpur responsible for award and execution of contracts, in which his near relative is posted a 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 gazetted officer in the IIT Kanpur. Any breach of this condition by the contractor would render him liable to be removed from the approved list of contractors of this Department.
16. No Engineer of Gazetted Rank or other Gazetted Officer employed in Engineering or Administrative duties in an Engineering Department of the Government of India is allowed to work as a contractor for a period of one year after his retirement from Government service, without the prior permission of the Government of India in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a

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person who had not obtained the permission of the Government of India as aforesaid before submission of the tender or engagement in the contractor's service.

17. The tender for the works shall remain open for acceptance for a period of **ninety (90) days** from the date of opening of tenders 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 department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderers shall not be allowed to participate in the retendering process of the work.
18. This Notice Inviting Tender shall form a part of the contract document. The successful tenderers/contractor, on acceptance of his tender by the Accepting Authority shall within 15 days from the stipulated date of start of the work, sign the contract consisting of:-
 - a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming part of the tender as uploaded at the time of invitation of tender and the rates quoted online at the time of submission of tender and acceptance thereof together with any correspondence leading thereto.
 - b) Standard C.P.W.D. Form 7 or other Standard C.P.W.D. Form as applicable.

**Superintending Engineer
For & on behalf of the Board of Governors, IIT, Kanpur**

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INSERTION (I)	NIL		
DELETION (D)	NIL		

PERCENTAGE RATE TENDER AND CONTRACT FOR WORKS

(A) Tender for the work of:	Setting right of vacant house no 120 127 and 1002 Type I
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TENDER

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

I/We hereby tender for the execution of the work specified for the Board of Governors, IIT, Kanpur 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 (90) ninety days from the date of opening of tender** and not to make any modifications in its terms and conditions.

A sum of Rs. **16,928/-** is hereby forwarded in Cash/Receipt Treasury Challan/Deposit at call Receipt of a Scheduled Bank/Fixed deposit receipt of scheduled bank/demand draft of a scheduled bank/bank guarantee issued by scheduled bank as earnest money. If I/we, fail to furnish the prescribed performance guarantee or fail to commence the work within prescribed period I/we agree that the said Board of Governors, IIT, Kanpur or his successors in office shall without prejudice to any other right or remedy be at liberty to forfeit the said earnest money absolutely. Further, if I/we fail of commence work as specified, I/we agree that Board of Governors, IIT, Kanpur or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, up to 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 tender form.

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DELETION (D)	NIL	

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 re-tendering process of the work.

I/We undertake and confirm that eligible similar work(s) has/ have not been got executed through another contractor on back to back basis. Further that, if such a violation comes to the notice of Department, then I/we shall be debarred for tendering in IIT, Kanpur in future forever. Also, if such a violation comes to the notice of Department before date of start of work, the Engineer-in-Charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.

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 therefrom to any person other than a person to whom I/we am/are authorized to communicate the same or use the information in any manner prejudicial to the safety of the State.

**

Dated _____**_____

Signature of contractor
Postal Address **

Witness: **
Address: **
Occupation: **

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Operative schedules shall be supplied separately to each intending tenderer)

SCHEDULE 'A'

Schedule of Quantities: Uploaded separately

SCHEDULE 'B'

Schedule of materials to be issued to the contractor:

S. No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5
NIL				

SCHEDULE 'C'

Schedule of Tools and Plants to be hired to the contractor

S. No.	Description	Hire charges per day	Place of issue
1	2	3	4
-----NIL-----			

SCHEDULE 'D'

Extra schedule for specific requirements/document for ***As attached in tender form.***
the work, if any:

SCHEDULE 'E'

Schedule of component of other Materials, Labour, POL etc. for price escalation : **N.A.**

SCHEDULE 'F'

Reference to General Conditions of contract.

Name of Work:	Setting right of vacant house no 120 127 and 1002 Type I		
Estimated cost of the work:			Rs. 846408.00
Earnest money			Rs. 16928.00
Performance Guarantee	5% of the tendered value of the work		
Security Deposit	5% of the tendered value of the work		

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DELETION (D)	NIL		

General rules and direction :

Officer inviting tender	Superintending Engineer, IWD, IIT, Kanpur
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Definitions:

2(v)	Engineer-in-Charge For Civil items of work	Executive Engineer, IWD, IIT, Kanpur	
2(vi)	Accepting Authority	Superintending Engineer, IWD, IIT, Kanpur	
2(vii)	Percentage on cost of materials and labour to cover all overheads and profits		10%
2(viii)	Standard Schedule of Rates: Civil Items of Work:		D.S.R. 2018 – GST with up to date correction Slips
2(ix)	Department:		Central Public Works Department
2(x)	Standard CPWD contract Form:		GCC 2014, CPWD form-7 as modified & corrected up to 31.07.2018 (Whether correction vide latest circulars are in corporate or not in this document.
Clause 1	i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance ii) Maximum allowable extension with late fee @0.1% per day of performance guarantee amount beyond the period as provided in i) above		15 Days 1 to 15 Days
Clause 2	Authority for fixing Compensation under Clause 2	Superintending Engineer, IWD, IIT, Kanpur. Or successor thereof	
Clause 2 A	Whether Clause 2A shall be applicable		No

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Clause 5

- i) Number of days from the date of issue of letter of acceptance for reckoning date of start **22 Days**
- ii) Time allowed for execution of work **4 Months**

Authority to decide

Extension of time

**Superintending Engineer,
IWD, IIT, Kanpur**

Clause 6/ 6A

Only clause 6 applicable.

Clause 7 Gross work to be done together with net payment/Adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment. **Rs. 3.50 Lacs**

Clause 10B (ii), (iii) Whether clause 10-B (ii) and 10-B (iii) shall be applicable. **Not Applicable**

Clause 10 C Component of labour expressed as percentage of value of work **(25%)** **Not Applicable**

Clause 10 CA **Not Applicable**
Clause 10CC **Not Applicable**

Clause 11 Specification to be followed for execution of work:
For Civil items of work

CPWD Specifications 2009 Vol. 1 and Vol. 2 with up to date correction slips.(Hereinafter called CPWD specifications also)

Clause 16 Competent Authority for Deciding reduced rates:

For Civil items of work **Acting SE,
IWD, IIT, Kanpur**

For supervision of civil as well as electrical items of work, technical representatives (Diploma holder) of the respective disciplines will be required to be deployed.

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ADDITIONAL TERMS & CONDITIONS

The tenderer is advised to read and examine the tender documents for the work and the set of drawings available with Engineer-in-charge. He should inspect and examine the site and its surroundings by himself before submitting his tender.

1. Unless otherwise provided in the Schedule of Quantities/Specifications, the rates tendered by the contractor shall be all inclusive and shall apply to all heights, lifts, leads and depths of the work and nothing extra shall be payable to him on account of the same. Extra payment for centering/shuttering, if required to be done for heights greater than 3.5 m shall however be admissible at the rates arrived at in accordance with clause 12 of the agreement, if not already specified.
2. Other agencies doing works related with this project may also simultaneously execute their works and the contractor shall afford necessary facilities for the same. The contractor shall leave such necessary holes, openings etc. for laying/burying in the work, pipes cables, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for the other agencies. Nothing extra over the Agreement rates shall be paid for doing these.
3. The rates for all items of work shall unless clearly specialized otherwise include cost of all labour, material tools and plants and other inputs involved in the execution of the item. The contractor (s) shall quote all inclusive rates against the items in the schedule of quantities and nothing extra shall be payable for any of the conditions and specifications mentioned. In the tender documents unless specifically specified otherwise.
4. The building work shall be carried out in the manner complying in all respects with the requirements of the relevant bylaws and regulations of the local body under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-charge and nothing extra shall be paid on this account.
5. Huts for labour are not to be erected at the site of work, the contractor shall be required to provide such accommodation at a place as is acceptable to the local body and nothing extra shall be paid on this account.
6. The structural and architectural drawings shall at all times be properly co-related before executing any work. However, in case of any discrepancy in the item given in the schedule of quantities appended with the tender and Architectural drawings relating to the relevant item, the former shall prevail unless otherwise given in writing by the Engineer-in-charge.

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7. The contractor shall take instructions from the Engineer-in-charge for stacking of materials. No excavated earth or building materials etc. shall be stacked / collected in areas where other buildings, roads, services, compound walls etc. are to be constructed.
8. Any trenching and digging for laying sewer lines/water lines/cables etc. shall be commenced by the contractor only when all men, machinery's and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.
9. It shall be ensured by the contractor that no electric live wire is left exposed or unattended to avoid any accidents in this regard.
10. In case the supply of timber/steel frames/shutters for doors, windows etc. is made by some other agency, the contractor shall make necessary arrangements for their safe custody on the direction of the Engineer-in-charge till the same are fixed in position by him & nothing extra shall be paid on this account.
11. The contractor shall maintain in perfect condition, all portions executed till completion of the entire work allotted to him. Where however phased delivery of work is contemplated these provisions shall apply separately to each phase.
12. The entire royalty at the prevalent rates shall have to be paid by the contractor on all the boulders, metals, shingle sand etc. collected by him for execution of the work, directly to the Revenue authority or authorized agents of the State Government concerned or the Central Government, as the case may be.
13. The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by the departments and shall construct suitable godowns, yards at the site of work for storing all materials as to be safe against damage by sun, rain, dampness, fire, theft etc. at his own cost and also employ necessary watch and ward establishment for the purpose, at his own cost. Materials to be charged directly to work and stipulated for issue free of cost shall also be issued to the contractor as soon as those are received at site or at the stipulated place of issue. The provision of this para shall apply equally and fully to those as well.
14. Registers for the materials to be issued by the department shall be maintained as required by the Engineer-in-charge and these shall be signed by the contractor or his authorized agent and representative of Engineer-in-charge on each day of transactions.
15. Temporary Electric connection shall be issued as per request and the water charges shall be recovered as per rule

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16. The contractor shall procure all the materials in advance so that there is sufficient time to testing and approving of the materials and clearance of the same before use in work.
17. Contractor shall have to brought at least 50% quantity of total premium acrylic smooth exterior silicon additives paint and water proofing cement paint and shall deposit it in the custody of concerned site Engineer before start of work. The consumption shall be monitored by the Department. All empty drums shall have to be kept till completion of work.
18. Contractor has to make a sample of exterior painting on the surface of wall and after getting approval from the competent authority, he has to finish the rest of work accordingly as per satisfaction of Engineer-in- charge.
19. The tenderer shall see the approaches to the site. In case any approach from main road is required by the contractor, the same shall be provided, improved and maintained by the contractor at his own cost. No payment shall be made on this account.
20. The contractor shall take all precautions to avoid accidents by exhibiting necessary caution boards day and night speed limit boards red flags, red lights and providing barriers. He shall be responsible for all dangers and incidents caused to existing / new work due to negligence on his part. No hindrances shall be caused to traffic during the execution of the work.
21. The contractor shall provide at his own cost suitable weighing surveying and leveling and measuring arrangements as may be necessary at site for checking. All such equipments shall be got calibrated in advance from laboratory, approved by the Engineer-in-Charge. Nothing extra shall be payable on this account.
22. On completion of work, the contractor shall submit at his own cost four prints of "as built" drawings to the Engineer-in-Charge with in 30 days of completion of work. These drawings shall have the following information:
 - a) Run of all piping and their diameters including soil waste pipes & vertical stacks.
 - b) Ground and invert levels of all drainage pipes together with locations of all manholes and connections upto outfall.
 - c) Run of all water supply lines with diameters, location of control valves, access panels etc.

If above said drawings are not submitted by the contractor with in the above specified time then final bill will not be paid and Security Deposit shall not be released.

CORRECTION (C)	NIL	A. E. E.	E.E.
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- 23. Any cement slurry added over base surface for continuation of concreting for better bond is deemed to have been built in the items and nothing extra shall be payable for extra cement considered in consumption on this account.
- 24. The contractor shall bear all incidental charges for cartage, storage and safe custody of materials issued by department.
- 25. The works shall be carried out in accordance with the Architectural drawings and structural drawings, to be issued from time to time by the Engineer-in-Charge. Before commencement of any item of work, the contractor shall correlate all the relevant architectural and structural drawings issued for the work and satisfy himself that the information available there of is complete and unambiguous. The discrepancy, if any shall be brought to the notice of the Engineer-in-Charge before execution of the work. The contractor alone shall be responsible for any loss or damage executing by the commencement of work on the basis of any erroneous and or incomplete information.
- 26. Other agencies will also simultaneously execute and install the works of electrification, air conditioning, lifts, fire-fighting etc. for this work and the contractor shall provide necessary facilities for the same. The contractor shall leave such recesses, holes openings etc. as may be required for the electric, air-conditioning and other related works (for which inserts, sleeves, brackets, conduits base pinion, clamps etc. shall be supplied free of cost by the department unless otherwise specifically mentioned) and the contractor shall fix the same at time of casting of concrete, stone work & brick work, if required and nothing extra shall be payable on this account.
- 27. The contractor shall conduct work so as not to interfere with or hinder the progress or completion of the work being performed by other contractor(s) or by the Engineer-in-Charge and shall as far as possible arrange his work and shall place and dispose off the materials being used or removed so as not to interfere with the operations of other contractor or he shall arrange his work with that of the others in an acceptable and coordinated manner and shall perform it in proper sequence to the complete satisfaction of others.
- 28. All Architectural drawings given in the tender other than those indicated in nomenclature of items are only indicative of the nature of the work and materials/fixings involved unless and otherwise specifically mentioned. However, the work shall be executed in accordance with the drawings duly approved by the Engineer-in-Charge.
- 29. Existing drains, pipes, cables, over-head wires, sewer lines, water lines and similar services encountered in the course of the execution of work shall be protected against the damage by the contractor at his own expense. The contractor shall not store

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materials or otherwise occupy any part of the site in a manner likely to hinder the operation of such services.

30. The contractor shall be responsible for the watch and ward/guard of the buildings, safety of all fittings and fixtures including sanitary and water supply fittings and fixtures provided by him against pilferage and breakage during the period of installations and thereafter till the building is physically handed over to the department. No extra payment shall be made on this account.
31. The contractor shall be fully responsible for the safe custody of materials brought by him issued to him even though the materials are under double lock key system.
32. The rate of items of flooring is inclusive of providing sunk flooring at bath rooms kitchen etc. and nothing extra on this accounts is admissible.
33. No payment shall be made to the contractor for any damage caused by rain, snowfall, floods, earthquake or any other natural causes whatsoever during execution of work. The damages of the work will be made good by the contractor at his own cost and no claim on this account shall be entertained.
34. For construction works which are likely to generate malba/rubbish to the tune of more than a tempo/truck load, contractor shall dispose of malba, rubbish & other unserviceable materials and wastes at their own cost to the notified/specified dumping ground and under no circumstances these shall be stacked/dumped, even temporarily outside the construction premises.
35. The Plinth Level of Building is to be kept as per Architectural drawings. All the items of works such as PCC, RCC, Brickwork and shuttering etc. in foundation upto this plinth level with be measured and paid as the work done upto plinth level. Nothing extra due to higher plinth will be paid and contractors rates quoted for all these items shall, therefore, the deemed to cater for extra height of plinth.
36. The contractor has to follow all safety norms as laid down in National Building Code of India. All the workers shall be equipped with the required safety gadgets while working at site such as ISI marked helmets, Shoes and safety belts, gumboots, gloves etc.
37. The proposed building is a prestigious project and quality of work is paramount importance. Contractor shall have to engage well experienced skilled labour and deploy modern T&P and other equipment to execute the work. Many items like stone masonry & stone cladding works, stone flooring, structural glazing, PVDF coating aluminium composite panel and other specialized flooring work, Wood work wil specially require engagement of skilled workers having experience particularly in execution of such items.

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- 38. Samples of all materials and fittings to be used in the work in respect of brand manufacturer and quality shall be got approved from the Engineer-in-Charge, well in advance of actual execution and shall be preserved till the completion of the work. Articles bearing BIS certifications mark shall only be used unless no manufacturer has got BIS mark for the particular material. Any material/fitting whose sample has not been approved in advance and any other unapproved material brought by the contractor shall be immediately removed as soon as directed.
- 39. Unless otherwise specified in the schedule of quantities the rates for all items shall be considered as inclusive of pumping/baling out water, if necessary, for which no extra payment shall be made. Those conditions shall be considered to include water from any source such as inflow of flood, surface and sub-soil water etc. and shall apply to the execution in any season.
- 40. The rate for all items in which the use of cement is involved is inclusive of charges for curing.
- 41. Being an individual work contract no other tax is payable other than GST.
- 42. The quoted rates shall be for all surfaces including the plan brick work faced with recessed, raised or struck pointing, no extra claim on this account shall be considered.
- 43. No over loaded trucks of the construction material (coarse sand, stone grit and stone ballast) are allowed to enter in the residential area. The contractor have to make arrangement to get collected the construction material at store or at appropriate place near the work site and from that place the material may be carried through the tractor & trolley only.
- 44. The contractor shall give ten years guarantee in the prescribed proforma for water proofing items specified in the schedule of quantities. In addition to this, 10% of the executed cost of items shall be retained either in cash /fixed deposit or in the form of bank guarantee, which shall be released after the expiry of ten years from the date of completion if no defects is found in water proofing or the defects are made good. This amount shall be adjusted against the expenses incurred on making good the defects if the contractor commits breach of guarantee.

Signature of contractor
Address:

CORRECTION (C)	NIL	A. E. E.	E.E.
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GUARANTEE BOND TO BE EXECUTED BY CONTRACTORS FOR REMOVAL OF DEFECTS AFTER COMPLETION IN RESPECT OF WATER PROOFING WORKS

The Agreement made thisday of two thousand and between..... son of of (hereinafter called the Guarantor of the one part) and the Board of Governors, IIT Kanpur (hereinafter called Government of the other part).

WHEREAS this agreement is supplementary to a contract (hereinafter called the Contract) dated..... and made between the GUARANTOR of the one part and the Government of the other part, whereby the Contractor, inter alia, undertook to render the buildings and structures in the said contract recited completely water and leak-proof.

AND WHEREAS GUARANTOR agreed to give a guarantee to the effect that the said structures will remain water and leak-proof for five years from the date of giving of water proofing treatment.

NOW THE GUARANTOR hereby guarantees that water proofing treatment given by him will render the structures completely leak-proof and the minimum life of such water proofing treatment shall be **ten years** to be reckoned from the date after the maintenance period prescribed in the contract.

Provided that the guarantor will not be responsible for leakage caused by earthquake or structural defects or misuse of roof or alteration and for such purpose:

- (a) Misuse of roof shall mean any operation which will damage proofing treatment, like chopping of firewood and things of the same nature which might cause damage to the roof;
- (b) Alteration shall mean construction of an additional storey or a part of the roof or Construction adjoining to existing roof whereby proofing treatment is removed in parts;
- (c) The decision of the Engineer-in-Charge with regard to cause of leakage shall be final. During this period of guarantee the guarantor shall make good all defects and in case of any defect being found, render the building water-proof to the satisfaction of the Engineer-in-Charge at his cost, and shall commence the work for such rectification within seven days from the date of issue of the notice from the Engineer-in-Charge calling upon him to rectify the defects, failing which the work shall be got done by the Department by some other contractor at the GUARANTOR'S cost and risk. The decision of the Engineer-in-Charge as to the cost, payable by the Guarantor shall be final and binding.

That if GUARANTOR fails to execute the water proofing or commits breach there under then the GUARANTOR will indemnify the Principal and his successors against all loss, damage, cost, expense or otherwise which may be incurred by him by reason of any default on the part of the GUARANTOR in performance and observance of this supplementary agreement. As to the

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amount of loss and/or damage and/or cost incurred by the Government the decision of the Engineer-in-Charge will be final and binding on the parties.

IN WITNESS WHEREOF these presents have been executed by the Obligorand by..... and for and on behalf of the Board of Governors, IIT Kanpur on the day, month and year first above written.

Signed, sealed and delivered by OBLIGOR in the presence of—

- 1.
- 2.

Signed for and on behalf of the Board of Governors, IIT Kanpur by In the presence of—

- 1.
- 2.

CORRECTION (C)	NIL	A. E. E. E.E.
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To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of IIT Kanpur.

INTEGRITY AGREEMENT

This integrity Agreement is made at _____ on this _____ day of 2019.

BETWEEN

The Director IIT Kanpur represented through Superintending Engineer, **IWD, IIT Kanpur** (hereinafter referred as the Principal / Owner, which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....

 (Name and Address of the Individual/firm/Company)
 through (Hereinafter referred to as the
 (Details of duly authorized signatory)
 “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. **11/C/D1/2019-20/04**) (hereafter referred to as “Tender / Bid”) and intends to award, under laid down organization procedure, contract for **“Setting right of vacant house no 120 127 and 1002 Type I”**

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 contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

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Article 1: Commitment of the Principal/Owner

- 1) The Principal/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 Bidder(s)/Contractor(s) commit 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

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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)/Contract(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 others 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

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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 of 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 rights 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.

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Article 4: Previous Transgression

- 1) The Bidder declares that no previous transgressions occurred in the last 5 years 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 Subcontractors/ 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, IIT Kanpur.

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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, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

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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/Contact documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF 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.
 (signature, name and address)

2.
 (signature, name and address)

Place:

Dated :

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BANK GUARANTEE BOND

In consideration of the Board of Governors of IIT Kanpur (hereinafter called "the Government") having agreed under the terms and conditions of agreement No. _____ dated - _____ made between _____ and _____ (hereinafter called "the 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 conditions in the said agreement, we

(hereinafter referred to as "the Bank") hereby undertake to pay to the

(Indicate the name of the Bank)

Government an amount not exceeding Rs. _____ (Rs. _____ only) on demand by the Government.

2. We _____ do hereby undertake to pay the amounts due and payable

(Indicate the name of the Bank)

under this Guarantee without any demure, merely on a demand from the Government 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).

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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 with

(Indicate the name of the Bank)

the previous consent of the Government in writing.

8. This guarantee shall be valid up to _____, unless extended on demand by Government. Notwithstanding anything mentioned above, our liability against this guarantee is restricted to Rs. _____ (Rs. _____ 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)

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DELETION (D)	NIL		

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 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 of 20... .

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

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Schedule of Quantity

Name of work	Setting right of vacant house no. 120, 127 & 1002, Type-I				
SL No	Description	Qty	Unit	Rate	Amount
1	EARTH WORK				
1.1	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	3	cum	1712.45	5137.35
2	CONCRETE WORK				
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
2.1.1	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources: 4 graded stone aggregate 20 mm nominal size derived from natural sources).	1.2	cum	5952.30	7142.76
3	REINFORCED CEMENT CONCRETE				
3.1	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement, with 1:1.5:3 (1 cement: 1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources).	0.5	cum	8560.98	4280.49
3.2	Centering and shuttering including strutting, propping etc. and removal of form for				
3.2.1	Shelves (Cast in situ)	6.01	sqm	607.67	3652.11
3.3	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
3.3.1	Thermo-Mechanically Treated bars of grade Fe-500D or more.	50	kg	73.21	3660.68
4	MASONRY WORK				
4.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
4.1.1	Cement mortar 1:6 (1 cement : 6 coarse sand)	1.9	cum	6655.37	12645.20
4.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure				

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	above plinth level up to floor V level.				
4.2.1	Cement mortar 1:4 (1 cement :4 coarse sand)	4.75	sqm	817.27	3882.05
5	CLADDING WORK				
5.1	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
5.1.1	Raj Nagar Plain white marble/ Udaipur green marble/ Zebra black marble				
5.1.1.1	Area of slab over 0.50 sqm	2.95	sqm	2238.19	6602.65
5.2	Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
5.2.1	Marble work	4.35	metre	193.20	840.44
5.3	Extra for providing opening of required size & shape for wash basin/ kitchen sink in kitchen platform, vanity counter and similar location in marble/ Granite/ stone work, including necessary holes for pillar taps etc. including moulding, rubbing and polishing of cut edges etc. complete.	2	each	644.06	1288.12
5.4	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.	35	sqm	903.38	31618.15
6	WOOD AND PVC WORK				
6.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
6.1.1	Sal wood	0.48	cum	92351.78	44328.85

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6.2	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws.				
6.2.1	Second class teak wood				
6.2.1.1	35 mm thick	9	sqm	3817.40	34356.64
6.3	Extra for providing frosted glass panes 4 mm thick instead of ordinary float glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	1.5	sqm	187.68	281.52
6.4	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.				
6.4.1	Fixed to openings /wooden frames with rawl plugs screws etc.	95	kg	160.89	15284.96
6.5	Providing and fixing hard drawn steel wire fabric 75x25 mm mesh of weight not less than 7.75 Kg per sqm to window frames etc. including 62x19 mm beading of second class teak wood and priming coat with approved steel primer all complete.	1.85	sqm	1269.93	2349.36
6.6	Providing 40x5 mm flat iron hold fast 40 cm long including fixing to frame with 10 mm diameter bolts, nuts and wooden plugs and embedding in cement concrete block 30x10x15cm 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size).	41	each	157.12	6442.09
6.7	Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :				
6.7.1	250x16 mm	13	each	149.06	1937.75
6.8	Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
6.8.1	200x10 mm	24	each	53.09	1274.18
6.8.2	150x10 mm	74	each	46.08	3409.64
6.9	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
6.9.1	125 mm	26	each	30.56	794.48
6.9.2	100 mm	53	each	24.51	1298.86
6.1	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or				

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	shade, with necessary screws etc. complete :				
6.10.1	200x10 mm	10	each	78.91	789.13
6.11	Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :				
6.11.1	125 mm	10	each	52.30	523.02
6.12	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete.				
6.12.1	Twin rubber stopper	17	each	54.41	924.90
6.13	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer- in-charge				
6.13.1	Extruded section profile size 48x40 mm	25	metre	194.34	4858.61
6.14	Providing and fixing to existing door frames.				
6.14.1	24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm (± 0.2 mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanised/ plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm (± 0.1 mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm (± 0.2 mm) wall thickness, fixed to the shutter styles by means of plastic/galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm (± 0.1 mm) wall thickness. The panels filled vertically and tie bar at two places by inserting	7.5	sqm	1543.80	11578.47

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	horizontally 6 mm galvanised M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bathroom door shutter).				
6.15	Providing and fixing wire gauge shutters using stainless steel grade 304 wire gauge with wire of dia 0.5 mm and average width of aperture 1.4 mm in both directions for doors, windows and clerestory windows with necessary screws :				
6.15.1	35 mm thick shutters				
6.15.1.1	with ISI marked M.S. pressed butt hinges bright finished of required size				
6.15.1.1.1	Second class teak wood	19.1	sqm	3816.05	72886.47
6.16	Providing and fixing fly proof stainless steel grade 304 wire gauge, to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia. 0.50 mm all complete.				
6.16.1	With 12 mm mild steel U beading	1.85	sqm	878.12	1624.53
7	STEEL WORK				
7.1	Providing and fixing 1mm thick M.S. sheet door with frame of 40x40x6 mm angle iron and 3 mm M.S. gusset plates at the junctions and corners, all necessary fittings complete, including applying a priming coat of approved steel primer.				
7.1.1	Using M.S. angels 40x40x6 mm for diagonal braces	1.85	sqm	3882.64	7182.88
7.2	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.				
7.2.1	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).	135	kg	93.34	12600.39
8	FLOORING				
8.1	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with	6.75	sqm	812.71	5485.82

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	white cement and matching pigment etc., complete.				
8.2	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
8.2.1	Size of Tile 600x600 mm	40	sqm	1315.69	52627.79
8.3	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.				
8.3.1	Size of Tile 600x600 mm	15.75	sqm	1355.41	21347.78
8.4	Providing and laying Vitrified tiles in floor with different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS : 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately).				
8.4.1	Size of Tile 600x600 mm	85	sqm	1411.62	119987.51
9	ROOFING				
9.1	Providing gola 75x75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge), including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design :				
9.1.1	In 75x75 mm deep chase	20	metre	208.02	4160.46
9.2	Making khurras 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1 m x1 m x 400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement, rounding the edges and making and finishing the outlet complete.	2	each	213.99	427.97

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10	FINISHING				
10.1	12 mm cement plaster of mix :				
10.1.1	1:6 (1 cement: 6 coarse sand)	35	sqm	231.08	8087.90
10.2	15 mm cement plaster on rough side of single or half brick wall of mix:				
10.2.1	1:6 (1 cement: 6 coarse sand)	35	sqm	266.46	9326.17
10.3	6 mm cement plaster of mix :				
10.3.1	1:3 (1 cement : 3 fine sand)	9.5	sqm	199.34	1893.75
10.4	Distempering with 1st quality acrylic distemper (ready mixed) having VOC content less than 50 gms/litre, of approved manufacturer, of required shade and colour complete, as per manufacturer's specification.				
10.4.1	Two or more coats on new work	522	sqm	76.41	39888.03
10.5	Finishing walls with Acrylic Smooth exterior paint of required shade :				
10.5.1	New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	20	sqm	144.41	2888.21
10.6	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade :				
10.6.1	Two or more coats on new work	25	sqm	106.58	2664.40
10.7	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
10.7.1	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture	50	sqm	155.33	7766.33
10.8	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.	274	sqm	100.96	27664.27
10.9	White washing with lime to give an even shade :				
10.9.1	Old work (two or more coats)	120	sqm	14.69	1762.38
10.1	Removing white or colour wash by scrapping and sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete	174	sqm	12.45	2166.42
10.1	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	100	sqm	16.00	1600.18
10.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				

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10.12.1	One or more coats on old work	120	sqm	70.10	8412.10
10.1	Finishing walls with Acrylic Smooth exterior paint of required shade :				
10.13.1	Old work (Two or more coat applied @ 1.67 ltr/ 10 sqm) on existing cement paint surface	70	sqm	87.59	6131.52
11	REPAIRS TO BUILDING				
11.1	Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq.meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
11.1.1	With cement mortar 1:4 (1cement: 4 coarse sand)	27.5	sqm	376.68	10358.61
11.2	Fixing chowkhats in existing opening including embedding chowkhats in floors or walls cutting masonry for holdfasts, embedding hold fasts in cement concrete blocks of size 15 x 10 x 10 cm with cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size), painting two coats of approved wood preservative to sides of chowkhats and making good the damages to walls and floors as required complete, including disposal of rubbish to the dumping ground, all complete as per direction of Engineer-in-Charge.				
11.2.1	Door chowkhats	2	each	1198.47	2396.93
11.2.2	Window chowkhats	6	each	753.09	4518.54
11.3	Cutting holes of required size in brick masonry wall for fixing of exhaust fan including providing and fixing 300 mm dia PVC pipe conforming BIS-12818 and making good the same etc. complete as per direction of Engineer-in-charge.	1	each	193.25	193.25
11.4	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	85	sqm	2.19	186.32
11.5	Taking out existing wooden door shutter, repair by cutting, painting etc. and refixing of repaired door shutters to existing door frames, including replacement of hinges with screws, etc. as required, all complete as per the direction of the Engineer-in-charge.	5	each	261.16	1305.79
12	DISMANTLING AND DEMOLISHING				
12.1	Demolishing lime concrete manually/ by mechanical means and disposal of material within 50 metres lead as per direction of Engineer- in-charge.	5.75	cum	532.66	3062.80
12.2	Demolishing cement concrete manually/ by mechanical				

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	means including disposal of material within 50 metres lead as per direction of Engineer - in - charge.				
12.2.1	Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	2.5	cum	1523.41	3808.53
12.3	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.	1.6	cum	2222.45	3555.91
12.4	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge.				
12.4.1	In mud mortar	1.5	cum	441.03	661.55
12.5	Removing mortar from bricks and cleaning bricks including stacking within a lead of 50 m (stacks of cleaned bricks shall be measured):				
12.5.1	From brick work in cement mortar	500	1000 Nos	4279.61	2139.81
12.6	Dismantling doors, windows and clerestory windows (steel or wood) shutter including chowkhats, architrave, holdfasts etc. complete and stacking within 50 metres lead:				
12.6.1	Of area 3 sq. metres and below	19	each	240.68	4572.99
12.7	Taking out doors, windows and clerestory window shutters (steel or wood) including stacking within 50 metres lead :				
12.7.1	Of area 3 sq. metres and below	5	each	93.42	467.12
12.8	Dismantling barbed wire or flexible wire rope in fencing including making rolls and stacking within 50 metres lead.	10	kg	23.02	230.16
12.9	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.	60	sqm	34.20	2051.73
12.1	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads including all lifts involved.	13.5	cum	121.74	1643.56
13	ROAD WORK				
13.1	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post on one side only and provided				

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	with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used.				
13.1.1	With G.I. barbed wire	150	metre	16.70	2505.48
14	SANITARY INSTALLATIONS				
14.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, 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:				
14.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	1	each	4753.62	4753.62
14.2	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, including flush pipe, 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 :				
14.2.1	W.C. pan with ISI marked white solid plastic seat and lid	1	each	4612.85	4612.85
14.3	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:				
14.3.1	White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap	2	each	2201.18	4402.37
14.4	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 :				
14.4.1	Kitchen sink with drain board				
14.4.1.1	510x1040 mm bowl depth 250 mm	2	each	4520.78	9041.56
14.5	Providing and fixing 8 mm dia C.P. / S.S. Jet with flexible tube upto 1 metre long with S.S. triangular plate to European type W.C. of quality and make as approved by Engineer - in - charge.	1	each	260.89	260.89

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14.6	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.				
14.6.1	Flexible pipe				
14.6.1.1	32 mm dia	4	each	88.65	354.58
14.7	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	3	each	1124.99	3374.97
14.8	Providing and fixing soil, waste and vent pipes :				
14.8.1	100 mm dia				
14.8.1.1	Sand cast iron S&S pipe as per IS: 1729	16	metre	884.00	14143.97
14.8.2	75 mm diameter :				
14.8.2.1	Sand cast iron S&S pipe as per IS: 1729	3	metre	809.51	2428.54
14.9	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including cost of cutting holes and making good the walls etc. :				
14.9.1	For 100 mm dia pipe	8	each	252.04	2016.31
14.1	Providing and fixing plain bend of required degree.				
14.10.1	100 mm dia				
14.10.1.1	Sand cast iron S&S as per IS - 1729	3	each	334.37	1003.11
14.1	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts and nuts complete.				
14.11.1	100x100x100 mm				
14.11.1.1	Sand cast iron S&S as per IS - 1729	2	each	527.97	1055.94
14.1	Providing and fixing terminal guard :				
14.12.1	100 mm				
14.12.1.1	Sand cast iron S&S as per IS - 1729	2	each	312.10	624.20
14.1	Providing and fixing collar :				
14.13.1	100 mm				
14.13.1.1	Sand cast iron S&S as per IS - 1729	2	each	320.30	640.60
14.13.2	75 mm				
14.13.2.1	Sand cast iron S&S as per IS - 1729	1	each	232.97	232.97
14.1	Providing lead caulked joints to sand cast iron/centrifugally cast (spun) iron pipes and fittings of diameter :				

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14.14.1	100 mm	15	each	422.14	6332.09
14.14.2	75 mm	5	each	357.65	1788.25
14.2	Providing and fixing trap 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 :				
14.15.1	100 mm inlet and 100 mm outlet				
14.15.1.1	Sand Cast Iron S&S as per IS: 1729	1	each	1116.22	1116.22
14.15.2	100 mm inlet and 75 mm outlet				
14.15.2.1	Sand Cast Iron S&S as per IS- 1729	3	each	1054.06	3162.17
15	WATER SUPPLY				
15.1	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. Internal work - Exposed on wall				
15.1.1	15 mm dia nominal bore	10	metre	249.80	2498.03
15.1.2	20 mm dia nominal bore	10	metre	301.71	3017.10
15.2	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall :				
15.2.1	15 mm dia nominal bore	31	metre	392.46	12166.24
15.3	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end) :				
15.3.1	20 mm nominal bore	4	each	403.51	1614.03
15.4	Providing and fixing uplasticised PVC connection pipe with brass unions :				
15.4.1	45 cm length				
15.4.1.1	15 mm nominal bore	5	each	72.78	363.88
15.5	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws, including excavation, refilling the earth or cutting of wall and making good the same complete wherever required :				
15.5.1	15 mm nominal bore	5	each	541.17	2705.83
15.5.2	20 mm nominal bore	5	each	563.48	2817.40
15.6	Providing and fixing C.P. brass bib cock of approved quality conforming to IS:8931 :				
15.6.1	15 mm nominal bore	2	each	367.34	734.68
15.7	Providing and fixing C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.				

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15.7.1	15 mm nominal bore	5	each	484.31	2421.53
15.8	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931.				
15.8.1	15 mm nominal bore	3	each	531.57	1594.70
15.9	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931				
15.9.1	15mm nominal bore	10	each	466.46	4664.62
15.1	Providing and fixing C.P. Brass extension nipple (size 15mmx50mm) of approved make and quality as per direction of Engineer-in-charge.	21	each	53.70	1127.79
15.1	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	2	each	302.15	604.30
15.1	Making chases up to 7.5x7.5 cm in walls including making good and finishing with matching surface after housing G.I. pipe etc.	18	metre	135.16	2432.88
16	DRAINAGE				
16.1	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 :				
16.1.1	For pipes 100 to 250 mm diameter	1	each	546.69	546.69
17	WATER PROOFING				
17.1	Providing and laying water proofing treatment in sunken portion of WCs, bathroom etc., by applying cement slurry mixed with water proofing cement compound consisting of applying : (a) First layer of slurry of cement @ 0.488 kg/sqm mixed with water proofing cement compound @ 0.253 kg/ sqm. This layer will be allowed to air cure for 4 hours. (b) Second layer of slurry of cement @ 0.242 kg/sqm mixed with water proofing cement compound @ 0.126 kg/sqm. This layer will be allowed to air cure for 4 hours followed with water curing for 48 hours. The rate	10	sqm	408.24	4082.42

CORRECTION (C)	NIL	A. E. E.	E.E.
INSERTION (I)	NIL		
DELETION (D)	NIL		



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	includes preparation of surface, treatment and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.				
17.2	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: (a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS. 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. (b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement :5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs. (c) After two days of proper curing applying a second coat of cement slurry using 2.75 kg/ sqm of cement admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge. (d) Finishing the surface with 20 mm thick jointless cement mortar of mix 1:4 (1 cement :4 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finishing the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3 mm deep. (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test.“All above operations to be done in order and as directed and specified by the Engineer-in-Charge :				
17.2.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	10	sqm	1226.22	12262.17
18	NEW TECHNOLOGIES AND MATERIALS				
18.1	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect.				
18.1.1	SBR Polymer (@10% of cement weight) modified cementitious bond coat @ 2.2 kg cement per sqm of surface area mixed with specified proportion of approved polymer	2	sqm	102.85	205.70
18.2	Providing, mixing and applying SBR polymer (of approved				

CORRECTION (C)	NIL	A. E. E.	E.E.
INSERTION (I)	NIL		
DELETION (D)	NIL		



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	make) modified Cement mortar in proportion of 1:4 (1 cement: 4 graded coarse sand with polymer minimum 2% by wt. of cement used) as per specifications and directions of Engineer-in-charge.				
18.2.1	25 mm average thickness in 2 layers.	2	sqm	412.98	825.95
19	MINOR CIVIL MAINTENANCE WORK:				
19.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-All work up to plinth level : 1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources: 10 graded brick aggregate 40 mm nominal size derived from natural sources).	4	Cum	4480.58	17922.31
19.2	Providing and Fixing C.P. Grating 125 mm	8	Each	58.66	469.27
19.3	Providing and fixing of C.P. Flange.	21	Each	29.33	615.91
19.4	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters:35 mm thick including ISI marked M.S butt hinges with necessary screws	15.2	Sqm	2019.25	30692.54
19.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering-All work up to plinth level : 1:5:10 (1 cement : 5 coarse sand (zone-III) derived from natural sources: 10 graded brick aggregate 40 mm nominal size derived from natural sources). with old available brick aggregate.	0.5	Cum	3749.72	1874.86
19.6	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: Cement mortar 1:6 (1 cement : 6 coarse sand) with old available bricks	0.5	Cum	2888.91	1444.45
19.7	Providing and Fixing C.P. Towel Rod 600 mm etc complete of Approved quality	1	Each	422.32	422.32
19.8	Providing and fixing of C.P. shower (fancy) 15 mm nominal bore 75 mm dia. (Detail of for one nos.)	3	Each	504.44	1513.31
	Total				846408.00

CORRECTION (C)	NIL	A. E. E.	E.E.
INSERTION (I)	NIL		
DELETION (D)	NIL		