

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-272108, 272106, Fax: 91-1332-2727123. 273976
E-mail: sao@nih.gov.in; Website: www.nihroorkee.gov.in

Tender Notice No: 5(XX)/2017-Pur-2

Dated: 19.09.2017

TENDER NOTICE

Sealed item rate tenders are invited in two Bid System comprising Technical & Financial from Contractor/ Firms which are registered with CPWD/State PWD/ MES for the appropriate category & class including Registered contractors of NIH, Roorkee & having experience of building construction with IITs/ PSUs / Autonomous Organization of the Central/State Government / any big and reputed private organization for the work detailed below:

Sl. No.	Name of Works	Estimated cost including all taxes (in Rupees)	Earnest Money (in Rupees)	Tender Cost (in Rupees)	Time of Completion
1.	Replacement of water supply line of NIH Staff Colony residences	7,99,992.00	16,000.00	590.00 Non-refundable	3 months

The tenders may be obtained from the office of Senior Admn. Officer/ Procurement Officer, NIH from 19.09.2017 to 15.10.2017 (10 AM to 5 PM) after submitting the requisite work experience certificates, registration, audited turnover of last three years for minimum 50% of estimated cost, along with tender cost and EMD separately in the form of Demand Draft drawn in favour of National Institute of Hydrology, Roorkee. The tenders shall be received in the office of Senior Admn. Officer on or before 16.10.2017 up to 3.00 PM and Technical Bids will be opened on the same day at 4.00 PM.

Director, NIH reserves the right to reject or accept any or all the tenders, partly or fully without assigning any reason. The NIT is also available on website: www.nihroorkee.gov.in.

SENIOR ADMN OFFICER

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-272108, 272106, Fax: 91-1332-2727123. 273976
E-mail: sao@nihr.gov.in; Website: www.nihroorkee.gov.in

Tender Notice No: 5(XX)/2017-Pur-2

Dated: 19.09.2017

TENDER NOTICE

Sealed item rate tenders are invited in two Bid System comprising Technical & Financial from Contractor/ Firms which are registered with CPWD/State PWD/ MES for the appropriate category & class including registered contractors of NIH, Roorkee & having experience of building construction with IITs/ PSUs / Autonomous Organization of the Central/State Government / any big and reputed private organization for the work detailed below:

Institute reserves the right to cancel any or all tenders without assigning any reason.

Sl. No.	Name of Works	Estimated cost including all taxes (in Rupees)	Earnest Money (in Rupees)	Tender Cost (in Rupees)	Time of Completion
1.	Replacement of water supply line of NIH Staff Colony residences	7,99,992.00	16,000.00	590.00 Non-refundable	3 months

TERMS & CONDITIONS

- Complete Tender document is to be dropped in the Tender Box kept in the Office of Senior Admn. Officer/Procurement Officer, NIH, Roorkee on or before **16.10.2017 up to 3:00 P.M.** Technical Bid shall be opened at **16.10.2017 at 4.00 P.M.** Firms/company/agency/contractor or their authorized representative (in case of authorized representatives proper authorization letter must be brought for verification) who have responded to the tender(s) may be present, if they so wish, at the time of opening of the bid. Financial bids of qualified firms will be opened afterwards and date & time will be intimated to the qualified firms by e-mail/post/telephonically.
- The complete tender is required to be submitted along with the E.M.D. in the shape of Account Payee Demand Draft, Fixed Deposit Receipt or Banker's Cheque in acceptable form, issued from any of the Nationalize Banks duly pledged in the name of **National Institute of Hydrology, Roorkee.** E.M.D. should be enclosed with the Technical Bid. Tender without EMD shall stand rejected.
- The tender form can be purchased from the office of Senior Admn. Officer/Procurement Officer, NIH, Roorkee to only those Contractors/ Agencies who send a request application accompanied with a Bank Draft of Rs. 590.00 in favour of National Institute of Hydrology, Roorkee. Application for the above tender be submitted to the Office of the undersigned up to **15.10.2017 at 05:00 PM** and same shall not be entertained after due date and time. The tender form can also be seen and downloaded from our website **www.nihroorkee.gov.in** but the bid shall be accepted only with bank draft of Rs. 590/- in **favour of National Institute of Hydrology, Roorkee, payable at Roorkee** as a part of the technical bid.
- Eligibility Criteria and Experience Certificate of Govt. Offices/ Semi-Govt./ State Govt./ IITs/ PSUs / Autonomous Organization of the Central/State Government / PSUs & Reputed Private Organization :-**
 - Experience of having successfully completed similar works during the **last 7 years ending previous day of last dated of submission of tenders.**

Three similar completed works costing not less than the amount equal to 40% of the estimated cost.
Or
Two similar completed works costing not less than the amount equal to 60% of the estimated cost.
Or
One similar completed work costing not less than the amount to 80% of the estimated cost.
- Authentic Experience Certificate issued by the Officer of the Rank of not less than Executive Engineer/ Equivalent would be acceptable.
- In case of private works the authenticated statement of TDS deduction by the client be enclosed with experience certificate as part of Technical Bid.

SENIOR ADMN. OFFICER

Name of Firms:-.....

(A)
NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-272108, 272106, Fax: 91-1332-2727123. 273976
E-mail: sao@nih.gov.in; Website: www.nihroorkee.gov.in

Tender Notice No: 5(XX)/2017-Pur-2

Dated: 19.09.2017

Technical Bid Form

For

Name of Work: Replacement of water supply line of NIH Staff Colony residences.

LAST DATE AND TIME FOR

- | | | | | | |
|----|---|----------|-------------------|----------|----------------|
| 1. | Receipt of Tenders
(Technical bid and financial bid) | : | 16.10.2017 | : | 3.00 PM |
| 2. | Opening of Bids
(Technical Bid) | : | 16.10.2017 | : | 4.00 PM |

Technical Bid Format
(A)
QUALIFYING INFORMATION

Please furnish the following information along with documentary evidence possible only in this format (as eligibility criteria)

The information to be filled in by the Bidder in the following pages will be used for purposes of Pre-qualification and submitted the supporting documents.

1.	Name of Bidder	:	
2.	Constitution of legal status of Bidder (In case of firm) Attach copy.	:	
3.	Place of Registration and Registration No.	:	
4.	(a)	Year for Establishment of Firm with complete	:
	(b)	Complete Address	:
	(c)	Email I.D.	:
	(d)	Contact Numbers	:
5.	Principal place of business	:	
6.	Permanent Account Number	:	
7.	TIN/GST No.	:	
8.	Service Tax Number	:	
9.	EMD Detail	:	
10.	Work performed as contractor (in the same name) on works of similar natures. Scope of work executed should be as follows:	:	
a.	Eligibility Criteria and Experience Certificate of Govt. Offices/ Semi-Govt./ State Govt./ IITs/ PSUs / Autonomous Organization of the Central/State Government / PSUs & Reputed Private Organization.	:	
b.	Experience of having successfully completed similar works during the last 7 years ending previous day of last dated of submission of tenders: Three similar completed works costing not less than the amount equal to 40% of the estimated cost. <p style="text-align: center;">Or</p> Two similar completed works costing not less than the amount equal to 60% of the estimated cost. <p style="text-align: center;">Or</p> One similar completed work costing not less than the amount to 80% of the estimated cost.	:	

** Bidders should submit copy of satisfactory service/ completion certificate as per the scope mentioned in RFP.

S.No.	Description of work	Date of Start	Date of Completion	Address/ Location/Name of the Client	Value of work Completed Done

If required separate sheet may be enclosed.

11. Detail of Works in hand :

S.No.	Description of work	Date of Start	Date of Completion	Address/ Location/Name of the Client	Cost of the work allotted	Cost of the work executed till date

If required separate sheet may be enclosed.

13. The list of Technical & Non Technical Supervisor Staff required to deputed at site be enclosed separately.

15. Any other information highlighting the qualifying criteria, competency, credential and capability in handling building work.

Signature of Bidder
with Seal

(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-272108, 272106, Fax: 91-1332-2727123. 273976
E-mail: sao@nih.gov.in; Website: www.nihroorkee.gov.in

Tender Notice No: 5(XX)/2017-Pur-2

Dated: 19.09.2017

INSTRUCTIONS FOR BIDDING

SUBJECT : Replacement of water supply line of NIH Staff Colony residences

Sealed tenders are hereby invited from resourceful, financially sound and competent civil contractor/agencies/firms for the work as stated above in two bid system as given below:

- (A) Technical Bid Form
- (B) Financial Bid Form

It may be noted that tenders should be submitted in the above (enclosed) forms as two separate bids, i.e. (A) Technical Bid, and (B) Financial Bid. Both the bids should be sealed in separate third envelop super-scribing the name of the work and bidding agency.

(A) TECHNICAL BID or (B) FINANCIAL BID

The envelope should be addressed and sent to the "Senior Admn. Officer, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee - 247 667 (U.K.)" so as to reach on due date and time. Tenders received after the due date for whatsoever reason, including postal delays, shall not be considered any circumstance.

Tender Forms along with terms and conditions, can be obtained from the office of Senior Admn. Officer/Procurement Officer, National Institute of Hydrology, Roorkee on any working day from 10.00 a.m. to 5.00 p.m. on producing the receipt of depositing of Rs. 590/- in cash in the Institute Treasury or with a non-refundable bank draft of Rs. 590/- (Rupees five hundred and ninety only) in favour of "National Institute of Hydrology, Roorkee", payable at Roorkee or it can be downloaded from our website www.nihroorkee.gov.in. The tender documents completed in all aspect, should reach the office of Senior Admn Officer/Procurement Officer, NIH within the stipulated date and time. The Institute will not be responsible for any postal or any other delays.

Earnest Money of Rs. 16,000/- (Rs. Sixteen thousand only) should be deposited in the form of Account Payee Demand Draft in acceptable form issued from the any of the Nationalized Banks which is duly pledged in the name of National Institute of Hydrology, Roorkee. EMD should be kept in the envelope of Technical Bid. Tenders without EMD and tender fee shall stand rejected.

After first verifying, the "Technical Bids" shall be opened at 16.10.2017 at 4.00 P.M. in the office of the Chairman, Tender Opening Committee, in the presence of the representatives of the bidding agencies, who wish to be so present. No separate communication will be made in this regard. The technical bids shall be evaluated on the basis of credentials and eligibility criteria on the basis of which the bidders would be short listed for prequalification for the opening of the Financial Bid.

The bidders should be prepared to visit Roorkee for this purpose at short notice. Any additional information needed by the Institute to evaluate the professional capabilities of the bidding firm(s) shall have to be submitted by the concerned firm(s).

The "Financial Bids" of only the short listed/prequalified firms shall be opened subsequently for which separate information would be given either through email/telephonically/post.

It may also be noted that the tender bids received after the stipulated date and time or found incomplete and the tender bids containing false/incorrect information shall be summarily rejected. The Institute shall not entertain any communication in this regard, whatsoever.

The Director, NIH, Roorkee reserves the right to reject any tender or all the tenders or accept them in part, or reject the lowest tender, without assigning any reasons thereof.

SENIOR ADMN OFFICER

SCHEDULE "D"

Name of work : Replacement of water supply line of NIH Staff Colony residences.

DECLARATION

1. (A) I/We hereby declare that I/we (Name) _____

have no other business relations with the Institute.

OR

(B) Have the following other association with the Institute.

2. (A) Have no relatives or connection by marriage on the staff of the Institute.

OR

(B) Have the following relatives or connection by marriage on the staff of the Institute.

Name	Relationship	Designation	Office in which posted
(i)			
(ii)			
(iii)			
(iv)			
(v)			

Signature and full

address of the contractor /contractors

Note: Stick out (a) or (b) of each of the above declaration which is not applicable.

UNDER TAKING

(ON A NON JUDICIAL STAMP PAPER OF Rs.100/-)

Name and Address of the firm/company/Agency/contractor

.....

Name of the tender.....

Due date:

Sir,

1. I/We hereby agree to abide by all terms and conditions laid down in tender document.
2. This is to certify that I/We before signing this bid have read and fully understood all the terms and conditions and instructions contained therein and undertake myself/ourselves abide by the said terms and conditions.
3. The information given in the tender is correct and best to my knowledge.

I/we agree to the forfeit of the earnest money deposit and performance deposit by me in connection with this tender, if I fail to comply with any of the terms and conditions mentioned in the tender document.

(Signature of the Bidder)

Name and Address of the Bidder.

Telephone No.

Check List

The following documents (in same order), must be furnished and attached along with the "Technical Bid"

S.N.	Particulars
1.	E.M.D. as stated above. (in a separate envelop super scribed "EMD")
2.	Tender Form Fee (only in case of downloaded tender form) as stated above.(in a separate envelop super scribed "Tender Form Fee")
3.	Copy of Registration/ Enlistment letter of the firm/company/agency.
4.	Copy of affidavit duly notarized regarding proof of proprietor (in case of Proprietorship firm).
5.	Copy of valid PAN Card.
6.	Copy of valid TIN/VAT No.
7.	*Copy of valid Service Tax No.
8.	Eligibility Criteria and Experience Certificate of Govt. Offices/ Semi-Govt./ State Govt./ IITs/ PSUs / Autonomous Organization of the Central/State Government / PSUs & Reputed Private Organization.
	Experience of having successfully completed similar works during the last 7 years ending previous day of last dated of submission of tenders: Three similar completed works costing not less than the amount equal to 40% of the estimated cost. Or Two similar completed works costing not less than the amount equal to 60% of the estimated cost. Or One similar completed work costing not less than the amount to 80% of the estimated cost.
9.	All the pages of the tender document should be Signed including Tech & Fin Bids, Schedule C&D etc.
10.	Any other document as may be necessary in connection with the job tendered for, including certificate of
11.	Experience and list of clients (with address) where presently services are provided.

Name of Firms:-.....

(B)
NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-272108, 272106, Fax: 91-1332-2727123. 273976
E-mail: sao@nihar.gov.in; Website: www.nihroorkee.gov.in

Tender Notice No: 5(XX)/2017-Pur-2

Dated: 19.09.2017

Financial Bid Form

For

Name of Work: Replacement water supply line of NIH Staff Colony residences.

Note : Financial Bids of qualified firms will be opened afterwards and date will be intimated to qualified firm. (Opening date & time shall be informed to only the short listed prequalified bidder)

Name of work:- Replacement of water supply line of NIH Staff Colony residences.

Name of the Contractor: _____

Contract Bond No. _____/Director/NIH/2016-17

Dated _____

I hereby tender for the execution for the Director, NIH, Roorkee for the work specified in the underwritten memorandum within the time specified in such memorandum accordance in all respect with the specification ,designs drawings and instructions in written referred in rules. I therefore, and in clause 2 of the conditions of contract and with such materials as provided for in all other respects in accordance with such conditions as far as possible.

MEMORANDUM

1. General Descriptions of Work : As above
2. Tendered Cost : Rs. _____
3. Time allowed for the completion of the work
the date of written orders to complete of work : **3 Months**
4. Earnest money : **Rs. 16,000.00**
5. Date of start : _____
6. Date of Completion : _____

Sl.No.	Item of work	Approx. Quantity	Tendered rate in In Fig.In words
Bill of quantity as per Appendix "B"			

I tender at as per enclosed BOQ the rates mentioned in the attached schedule of Quantity which have signed by me. We hereby agree to execute the work at total amount of the Rs.(in Words
.....) as per quoted rates.

I/We hereby further agreed to execute any variation and extra item (which is included in DSR-2014) and which is required to complete the work, shall be done on the DSR 2014 rates. The extra items which is not included in DSR-2014 (specified as Non-schedule item) shall be paid as per the approval of Competent Authority.

If this tender is accepted, I hereby agree to abide by and fulfilled all the terms and conditions and provisions of the contract annexed herewith and duly signed by me. In case of any default, Earnest Money submitted by me along with the tender be forfeited and same may be paid to the account of NIH, Roorkee.

The sum of **Rs. 16,000.00 (Rs. Sixteen Thousand Only)** as earnest money with the tender is being offered by me as per **para "4"**. The **above** full value of which shall be retained by the Institute as a part of the security deposit for this work.

Place: Roorkee
Date : _____

Sign. & Address of
the contractor.

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-272108, 272106, Fax: 91-1332-2727123, 273976
E-mail: sao@nih.gov.in; Website: www.nihroorkee.gov.in

TENDER NOTICE

1. Tenders are hereby invited on behalf of Director, NIH, Roorkee for the work "Replacement of water supply line of NIH Staff Colony residences".
2. Sealed tenders (Technical Bid and Financial Bid in two separate envelope clearly mentioning Technical Bid / financial Bid) will be received up to 3.00 P.M. on the day of 16.10.2017 by the SAO/PO, NIH and Technical bids will be opened by him or his authorized representative at 4.00 P.M. on the day of 16.10.2017. Financial Bids of qualified firms will be opened afterwards and date will be intimated separately to qualified firm by e-mail/ post/telephonically.
3. The bidder or their authorized representative who desires to be present at the time of opening of the tenders will be permitted to be present.
4. The work must be completed and finished in accordance with the scope of work, specifications and terms and conditions of the contract document on or before Three (3) calendar months from the date of receipt of the order to commence work.
5. Copies of drawings and other documents pertaining to the work (signed for the purpose of identification by the accepting authority or his accredited representative) will be available for inspection by the bidder at the office of the Institute Engineer during normal working hours after 10:00 A.M. Tender documents can be obtained during working hours from the office of the SAO/PO, NIH up to 15.10.2017 at the charge of **Rs. 590.00** (Non Refundable). Sale of Tender shall be closed on **15.10.2017 at 5.00 P.M.**
6. Each tender must be accompanied by deposit of Rs. 16,000.00 as earnest money. Such earnest money may be offered in the form Account Payee Demand Draft issued from any of the Nationalize Banks.
7. In all cases the EMD/ security must be pledged in name of National Institute of Hydrology, Roorkee, in such manner that Institute can be able to get it en-cashed the same without reference to the bidder .
8. The rates shall be inclusive of sales tax and other taxes of any nature. Bidder should keep in to consideration all fluctuations in market rate and no claim be entertained due to any such variation prior to the acceptance of tender and or during currency of the contract.
9. The quantities given in the statement of bill of quantity are liable to the variations and the contractor shall be bound to execute the changed quantities at his tendered rates without entitling him to any compensation whatsoever. However, in case of increase of quantities of work, suitable extension of time limit for completion of work can be granted on the basis of justified reasons.
10. Tender shall remain open for acceptance for a period of three months from the date of opening the tenders.
11. Canvassing in connection with the tender is strictly prohibited and the tenders submitted by the bidder who resort to canvassing are liable to be rejected.
12. Joint tenders shall not be considered unless parties tendering are registered firm or produce power of attorney from each other.
13. The rates shall be written in figures & words and shall be in English or in Hindi and should be free from errors and over writing. All cancellations and insertions shall be duly signed by the tenders. In case of discrepancy between the rates written in words and figures, the rates written in lower side shall be considered
14. All rates shall be quoted on the blank form of the tender documents only. Tenders with rates quoted in pripata paper are liable to be rejected.
15. The notice invited tender shall form part of the contract when concluded.
16. (a) Not more than one tender for one and the same work would be submitted by one contractor or firm of contractors.
(b) In case of firm, tenders must be signed by each partner or member or the person holding the power of attorney on behalf of the firm. In the later case a copy of the power of attorney attested by a Gazetted Officer must accompany.
(c) Conditional or incomplete tenders are liable to be rejected.
17. Institute is reserved the rights to reject any or all tenders, accept part of any tender without assigning any reason Thereof. If a part of the work is allotted, the bidder shall have to sign the contract bond for the part Work allotted him. If the bidder

refuses to accept part work so allotted his earnest money shall be forfeited unless it has been clearly specified in the tender that part work shall not be acceptable to him.

18. Unless the person whose tender is accepted sign within 7 days after he is required to do so, the earnest money deposited to him with that tender will be forfeited and acceptance of his tender withdrawn
19. Written notice should be deemed to have been dully served is delivered in person to the contractor of his authorized agent or representative if sent by Registered Post to the last business addressed known to the Institute Engineer or his authorized representative.
20. On acceptance of the tender the name of the accredited representative of the contractor who would be responsible for taking instruction from the Engineer In-charge shall be communicated to the Office calling for tenders.
21. **Defect liability period for this work would be six Months from the date of successful completion of the work.**
22. The bidder will be asked to deposit security amount on account of defect liability over the face value of agreements as given below at the time of entertaining in to the agreement in the shape of as mentioned in condition No.6 above:-
 - a. In the case of works estimated to cost upto Rs. 1.00 lacs ,10% of the estimated cost.
 - b. In the case of works estimated to cost more than Rs. 1.00 lac and upto Rs. 2.00 lacs to 10% on the first 1.00 lac and 7.5% on the balance.
 - c. In the case of works estimated to cost more than Rs. 2.00 lacs to 10% on first Rs. 1.00 lac, 7.5% on the next Rs. 1.00 lac and 5% on the balance.
23. Stamp duty will be payable by the contractors as per rules.

SENIOR ADMN OFFICER

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-272108, 272106, Fax: 91-1332-2727123. 273976
E-mail: sao@nihr.gov.in; Website: www.nihroorkee.gov.in

Bill of Quantities

Name of Works : Replacement of water supply line of NIH Staff Colony residences.

Detail Estimate based on DSR-2014

S. N.	Code No.	Particular	Qty.	Rate	Amount
1.	2.2	Earth work in rough excavation, banking excavated earth in layers not exceeding 20 cm in depth, breaking clods, watering, rolling each layer with ½ tone roller or wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 tones and dressing up in embankments for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m : 2.2.1 All kinds of soil	110 cum		
2.	15.2	Demolishing cement concrete manually/ by mechanical means including disposal of material within 50 meters lead as per direction of Engineer-in-charge. 15.2.1 Nominal concrete 1:3:6 or richer mix (i/c equivalent design mix)	40 cum		
3.	15.44	Dismantling G. I. pipes (external work) including excavation and refilling trenches after taking out the pipes, manually/ by mechanical means including stacking of pipes within 50 meters lead as per direction of Engineer-in-charge: 15.44.1 15 mm to 40 mm nominal bore.	140 m		
4.	18.13	Making connection of G. I. distribution branch with G. I. main of following sizes by providing and fixing tee, including cutting and threading the pipe etc. complete : 18.13.2 50 to 80 mm nominal bore	48 Nos.		
5.	18.12	Providing and fixing G. I. pipes complete with G. I. fittings including trenching and refilling etc. External work 18.12.1 15 mm dia nominal bore.	700 m		
6.	18.12	Providing and fixing G. I. pipes complete with G. I. fittings including trenching and refilling etc. External work 18.12.2 20 mm dia nominal bore.	740 m		
7.	18.12	Providing and fixing G. I. pipes complete with G. I. fittings including trenching and refilling etc. External work 18.12.3 25 mm dia nominal bore.	200 m		
8.	18.46	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work): 18.46.1 15 mm nominal bore	100 Nos.		
9.		18.46.2, 20 mm dia nominal bore	10 Nos.		
10.		18.46.3, 25 mm dia nominal bore	10 Nos.		
11.	6.4	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 : 6.4.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	3 cum		
12.	13.6	Cement plaster (In coarse sand): 13.6 20 mm cement plaster of mix : 13.6.2 1:6 (1 cement: 6 coarse sand)	50 sqm		
13.	11.4	52 mm thick cement concrete flooring with concrete hardener topping, under layer 40 mm thick cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate 20	65 sqm		

		mm nominal size) and top layer 12 mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix: 2 graded stone aggregate 6 mm nominal size) by volume, hardening Compound mixed @ 2 liters per 50 kg of cement or as per manufacturer's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.			
14.	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering – All work up to plinth level: 4.1.3 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	4 cum		
15.	18.51	Providing and fixing C. P. brass bib cock long body of approved quality conforming to IS standards and weighing not less than 690 gms. 18.51.1 15 mm nominal bore	168 Nos.		
16.	18.49	Providing and fixing C. P. brass bib cock of approved quality conforming to IS:8931 : 18.49.1 15 mm nominal bore	100 Nos.		
17.	18.22	Providing and fixing C. P. brass shower rose with 15 or 20 mm inlet: 18.22.2 150 mm diameter	50 Nos.		
18.	18.53	Providing and fixing C. P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 a) 15 mm nominal bore 18.53.1 15mm nominal bore	120 Nos.		
19.	18.17	Providing and fixing gun metal gate valve with C.I. wheel of approved quality (screwed end): 18.17.1 25 mm nominal bore	50 Nos.		
Total					