

## Water Works Section IIT, Khargapur

No. : IIT/WW/TEN/2018-19/33

Date: 19.09.2018

### NOTICE INVITING TENDER

**Last date for submission of Tender on 12.10.2018 upto 3:00 P.M & opening at 3:30 P.M. on same day.**

The Sr. Executive Engineer, Water Works & Sanitary Section IIT Kharagpur, invites the sealed tender in two bids system from eligible Agency of the Indian Institute of Technology, Kharagpur / CPWD/PWD/ Rail/MES/Govt.Orgnisation also of Govt. Academic Institutions for the following work.

SI No.	Name of work	Estimated cost (Rs.)	Earnest Money Deposit (Rs.)	Paper Cost (Rs.)	Completion time
1.	Routine repair / preventive maintenance in connection with plumbing & water supply at Old Residential Campus.	18,39,126/- (GST Inclusive)	36,783/-	1000/-	01 Year
Exemption for submission of Tender Fee & Earnest Money Deposit will be followed as per Government of India rules subject to submission of proper & valid necessary documents.					

#### Eligibility Criteria

The bidder should have executed three Water related works / Sanitary related works / similar nature of works each of value 40% of the estimated cost or two Water related works / Sanitary related works / similar nature of works each of value 60% of the estimated cost or one Water related works / Sanitary related works / similar nature of works of value 80% of the estimated cost in the last five years ending last day of the month previous to the one in which the tenders are invited credential in form of completion certificate as well as final bill copy to be enclosed. The value of executed works shall be brought to current costing level by enhancing the actual value of work at simple rate of 7% per annum calculated from the date of completion to last date of applications for tenders.

The offer/bids to be submitted in two bids system i.e.1.Technical bid, & 2.Commercial bid. The technical bid must consists of all the details as specified above, as in a eligible criteria, the technical bid & commercial bid must be in separate envelopes duly sealed and marked as "Technical bid" & "Commercial bid" respectively.

Sealed Technical bid and commercial bid are to be put in a big size envelope. "Tender For Above Mentioned Work" is to be written on the left side of this envelope. The technical bid envelop should contains the cost of each Tender Paper Rs. 1,000.00 [Non refundable], (in the form of DD drawn in favour of IIT Kharagpur, payable at Kharagpur) & the EMD of Rs. 36,783/- for (in the form of DD drawn in favour of IIT Kharagpur, payable at Kharagpur) also in the same envelope.

The sealed envelope containing Commercial Bid of the Tenderers will not be opened if their Technical bids are found unacceptable by the committee. Bid once submitted shall be the property of IIT Kharagpur and shall not be returned to the vendor at any time.

Completion certificate issued by Competent Authority will only be considered as credential. If the Completion certificate issued by Competent Authority does not reflect the type of work. Then the work done, final bill along with payment proof will also be considered as credential. Certificate from private individuals / Organisations for whom such works have been executed shall not be accepted.

The tenderer shall visit & inspect the site & obtain all information on his own responsibility & at own cost, which may be necessary for the purpose of quoting & submitting the tender. No excuse or ignorance as to site conditions & local information shall be accepted after awarding of the contract. All costs, charges & expenses that may be incurred in connection with the preparation of his tender shall be borne by him & the Institute accepts no liability what so ever therefore. If there is any clarification required, the tenderer shall submit the queries in writing 03 days before the last date & time of submission of the tender, to the Sr. Executive Engineer (W.W & Sanitary Section), IIT, Kharagpur.

The bid shall remain valid for a period of 90 days from the date of opening of the bid. If before expiry of the validity period or issue of Purchase / work Order, whichever is earlier, the bidder amends/modifies/withdraws his bid, making unacceptable to the institute, then the Earnest Money Deposit shall be liable to forfeiture at the option of the Institute.

The Rates quoted by the tenderer should be inclusive of all taxes, GST & duties, freight, cost for loading & unloading etc. & must hold good till the completion of work as well as extended period of work order & shall not be subjected to escalation due to increase in local market rates of materials. No claim on this account what so ever shall be entertained at any stage including the extended period.

Each page of bid document shall have to be signed & stamped by the Bidder/ Authorised Signatory before submission. The bidders have to submit the tender documents & correspondences accompanying the tender with proper sign & stamp on each page along with the bid. The person/ officer signing the tender/bid should be delegated with an appropriate **Power of Attorney (duly endorsed by a Notary Public)** by the **owner / Proprietor/ Partner/ CEO/ MD/ Director** of the company to sign such documents.

The Intending bidders will have to produce documentary evidence in original in support of their credentials before the competent authority whenever demanded for verification. If any information furnished by the bidder found as false/fabricated then his bid will be rejected & treated as cancelled, even if the after signing of contract also it would lead to termination of contract at any stage besides liabilities towards prosecution under appropriate law. In such cases the bidder/ tenderer will be debarred from participation in future tendering process.

Corrigendum and addendum, if any would appear on the IIT Kharagpur website & CPP Portal only. IIT Kharagpur reserves the right to reject any or all the tenders in part or full without assigning any reasons thereof.

The commercial bids should be inclusive of minimum wages, along with the ESI, PF of manpower & all inclusive of machine, all the tools & plants , materials. The rate should be also inclusive of all taxes & duties , freight , GST cost for loading & unloading etc. & must hold good till the completion of work , shall not be subjected to escalation due to increase in local market rates of materials . No claim on this account what so ever shall be entertained at any stage including the extended period.

Tender document to be downloaded from the Institute website [www.iitkgp.ac.in](http://www.iitkgp.ac.in) and the tender shall be submitted along with Demand Draft of Rs.1000/- (towards the cost of bid document non

refundable) in favour of "IIT Kharagpur" and payable at kharagpur, otherwise the tender will be treated as cancelled

The tender papers can be submitted on all working days (except holidays) during office hours either by Speed Post/Registered Post addressed to the Sr. Executive Engineer (Water Works & Sanitary Section), IIT, Kharagpur, 721302 or by dropping the tender papers in the box to be kept in the office of the Sr. Executive Engineer (Water Works & Sanitary Section), IIT, Kharagpur, 721302, Latest by 3:00 PM on 12.10.2018 & it will be open on the same day at 3.30 p.m. In the event of this day being declared as a holiday, the tender papers may be submitted up to the afore-mentioned time on the next working day.

For all these details please visit Institute's website [www.iitkgp.ac.in](http://www.iitkgp.ac.in) (Link: Tenders) as well as CPP portal also.

The Institute reserves the right to accept or reject the whole or a part of the lowest offer without showing any reason.

Sr. Executive Engineer  
Water Works and Sanitary Section  
On behalf of Indian Institute of Technology Kharagpur

WATER WORKS SECTION  
IIT Kharagpur

TENDER PAPER ISSUED TO :

NAME OF WORK : Routine repair / preventive maintenance in connection with plumbing & water supply at Old Residential Campus.

Submission of Tender Paper 12.10.2018 upto 3:00 P.M.

## **GENERAL TERMS & CONDITIONS**

1. Period of validity: Bids shall remain valid for acceptance for a period of *Three months* (90 days) from the date of opening of Price Bids.
2. Conditional offer will not be accepted.
3. Late Tenders:- Tender received after the due date and time of submission as mentioned below shall not be accepted.
4. Bidders should submit PAN No. / GST / Income Tax
5. All Tenders (unless otherwise specified) are to be submitted/handed over to *The Office, of Water Works Section , IIT Kharagpur-721 302.*
6. The person attending the bid opening session should be delegated with appropriate authorization from Company to sign such documents.
7. Bid once submitted shall be the property of IIT Kharagpur and shall not be returned to the vendor at any time.
8. A bid submitted with false information will not only be rejected but the vendor may also be debarred from participation in future tendering process.
9. Canvassing in any form not only invites disqualification in this tender but may also result in debarring the vendor from participation in the future tendering process.
10. Tender Paper cost & EMD to be paid by demand draft in favour of "IIT Kharagpur" on any nationalized Bank of India payable at Kharagpur Branch. Earnest Money will be converted to Security Deposit of successful tenderer.

**:: APPROVED MAKE LIST OF MATERIALS TO BE USED WHEREVER APPLICABLE ::**

<b>SI</b>	<b>Item</b>	<b>SUGGESTED BRAND NAME OR SIMILAR (APPROVED BY THE AUTHORITY)</b>
1	Cement (PSC)	ACC / Ultratech / Ambuja / Lafarge
2	G.I. Pipes	TATA (medium duty)
3	PVC pipes (Schedule-40)	Oriplast / Supreme
4	High Density Poly-ethylene Pipe	Finolex or its equivalent
5	Poly Push fittings	Finolex or its equivalent
6	G.I Fittings	HB or its equivalent
7	Brass Ferrule	AKB or its equivalent
8	Porcelain wash basin (White)	Parryware / Hindware
9	Pedestal for wash basin (white)	Parryware / Hindware
10	Stainless Steel Sink	Symphony or its equivalent
11	Stainless Steel Sink With drain board	Symphony or its equivalent
12	White Vitreous China Sink	Parryware / Hindware / Nycer
13	P.V.C. Connector	Prayag / Ashirvad / Shakti
14	Bottle waste trap	Prayag / Ashirvad / Shakti
15	P.V.C corrugated waste pipe	Prayag / Ashirvad / Shakti
16	C.P waste fittings	Pravat or its equivalent
17	P.V.C waste fittings	Prayag / Ashirvad / Shakti
18	P.V.C waste Coupling	Prayag / Ashirvad / Shakti
19	P.V.C water storage tank with closed top with lid (Black) - Multilayer	Sintex or its equivalent
20	P.V.C tank cover (Black) (for 300 litre to 5000 litre P.V.C tanks)	Sintex / Patton
21	Ball Cock Set	Prayag / Ashirvad / Shakti
22	Ball Cock Body	Prayag / Ashirvad / Shakti
23	Ball Cock Rod	Prayag / Ashirvad / Shakti
24	Ball Cock Ball	Prayag / Ashirvad / Shakti
25	Chromium plated Bib Cock short body	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 511)
26	Chromium plated Bib Cock long body with aerator	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 512)
27	Chromium plated Pillar Cock with aerator	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 508)
28	Chromium plated Stop Cock	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 513(B))
29	Chromium plated Angular Stop Cock	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 526)
30	Chromium plated Concealed Stop Cock	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 514(A))
31	Chromium plated round shower 100 mm dia with revolving joint	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 542N)
32	Chromium plated shower arm 240 mm long	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 536(A))
33	Chromium plated Hand shower 70mm dia Round Shape Single flow	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : ESH-551)

34	Flexible Tube 8mm dia & 1.5M Long with Nuts	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : SHA-549D8)
35	CP Health Faucet with 1mtr Flexible Tube with Wall Hook	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : ALD-573)
36	CP Centre hole Basin mixture with regular spout without popup waste system with 450 mm long braided hoses.	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 516)
37	CP Two Way Bib Cock with Wall Flange	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 512AN)
38	CP Sink Cock With Swinging Casted Spout (Table Mounted Model) With Aerator	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 523)
39	CP 15 mm dia swan neck tap with left & right hand operating nob with aerator	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 510, 510(A))
40	CP Wall Mixer Telephone Shower Arrangement Only With Crutch (With Bush & Piston Delux Divertor fitting) With bend, nipple, offset	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 517)
41	CP Wall Mixer With 115mm Long Bend Pipe For Connection To Overhead Shower, With Bush & Piston Divertor Fitting, With bend, nipple, offset, Aerator	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 517B)
42	CP Wall Mixer 3 In 1 System With 115mm Bend Pipe, Aerator and Small Knob	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 519)
43	CP Wall Mixer Non-Telephonic Shower System	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : 520)
44	CP Florentine Single Lever Surgical Purpose Elbow Action Basin Mixer with Extended Operating Lever without Popup Waste System with 450mm Long Braided Hoses	Jaquar / Essco Deluxe / Marc (Equivalent to Code No : FLR-5033B)
45	Brass spindle for CP bib cock, pillar cock, stop cock etc	Jaquar / Essco Deluxe / Marc
46	Liquid soap Dispenser	Jaquar / Marc (Equivalent to Code No :1135N )
47	Soap dish holder	Jaquar / Marc (Equivalent to Code No :1131N )
48	Soap dish holder	Jaquar / Marc (Equivalent to Code No :1131N )
49	15 mm dia CP Extension nipple	OSCO or its equivalent
50	CP offset for wall mixer	Jaquar / Essco
51	CP bend for wall mixer	Jaquar / Essco
52	PTMT bib cock (15mm)	Prayag / Ashirvad / Shakti (Equivalent to Code No :121-0 )
53	PTMT stop cock (Male/female thread)(15mm)	Prayag / Ashirvad / Shakti
54	PTMT angular stop cock (15mm)	Prayag / Ashirvad / Shakti
55	PTMT pillar cock (15mm)	Prayag / Ashirvad / Shakti
56	3" round PTMT overhead Swiveling Shower (15mm)	Prayag / Ashirvad / Shakti (Equivalent to Code No :1813 )
57	Health faucet with 1.5 mtr tube and hook	Prayag / Ashirvad / Shakti
58	Health faucet body	Prayag / Ashirvad / Shakti
59	Health faucet 1.5 mtr tube	Prayag / Ashirvad / Shakti
60	Health faucet 1.0 mtr tube	Prayag / Ashirvad / Shakti
61	Poly Ball Valve	JOY / Balaji
62	CP & Poly Clamp , Cistern fixing clamp	As approved by IIT KGP
63	Gunmetal wheel valve	ALTO / ZOLOTO
64	CI bib cock	ALTO or its equivalent
65	CI stop cock	ALTO or its equivalent
66	CI Ball Valve	ALTO or its equivalent

67	10 litre P.V.C. low-down cistern (White colour)	Parryware "Slimline Economy Single flush" / Hindware
68	32 mm dia. Polythene Flush Pipe	As approved by IIT KGP
69	Syphon for P.V.C Cistern	Parryware / Hindware
70	Rubber washer for syphon of P.V.C Cistern	As approved by IIT KGP
71	Poly handle for P.V.C Cistern	Parryware / Hindware
72	Ball cock set for P.V.C Cistern	Parryware / Hindware
73	M-seal	Pidilite or its equivalent
74	Lead wool	As approved by IIT KGP
75	Lead	UMPC or its equivalent



## Estimate for Routine repair/preventive maintenance in connection with plumbing & water supply at Old Residential Campus

SI	Description	Qty	Unit	Rate (Rs.)	Amt
1	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete.				
a	Depth of excavation not exceeding 1,500 mm.	25.000	Cum	119.27	2981.75
2	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150 mm. including watering and ramming etc. layer by layer complete. (Payment to be made on the basis of measurement of finished quantity of work)				0.00
	With earth obtained from excavation of foundation.	25.000	Cum	77.54	1938.50
3	Brick work with 1st class bricks in cement mortar (1:6)				0.00
a	In foundation & plinth.	2.000	Cum	5103.00	10206.00
b	In superstructure, ground floor	1.000	Cum	5325.00	5325.00
4	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement, if any, in ground floor as per relevant IS codes.				0.00
	With local hard blackstone variety chips (crusher broken)	0.500	Cum	4297.00	2148.50
5	15 mm thick plaster with cement mortar (1:4)	5.000	Sqm	150.00	750.00
6	20 mm thick plaster with cement mortar (1:4)	15.000	Sqm	172.00	2580.00
7	Neat cement punning about 1.5mm thick in wall, dado, window sill, floor etc. NOTE: Cement 0.152 cu.m per 100 sq.m.	15.000	Sqm	34.00	510.00
8	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m.				0.00
	Upto 1st Floor	1.000	Cum	447.00	447.00
9	Dismantling R.C. floor, roof, beams etc. including cutting rods and removing rubbish as directed within a lead of 75 m. including stacking of steel bars.				0.00

	Upto 1st Floor	0.500	Cum	1956.00	978.00
10	Cutting holes and subsequent mending good damages.				0.00
	Diameter upto 150 mm in brick wall	15	Mtr	104.00	1560.00
11	Cutting chase upto 125 x 150 mm. and subsequent mending of damages.				0.00
a	In brick wall	2.000	Mtr	86.00	172.00
b	In concrete wall	2.000	Mtr	105.00	210.00
12	Dismantling G.I or P.V.C Pipe with fittings carefully including removing to any distance and stacking				0.00
a	15 mm dia to 32 mm dia	500.000	Mtr	6.00	3000.00
b	40 mm dia to 50 mm dia	99.000	Mtr	8.00	792.00
c	80 mm dia to 100 mm dia	30.000	Mtr	11.00	330.00
13	Refixing of G.I or P.V.C Pipe with fitting after cleaning interior wall including mending good damages including cost of jointing materials where necessary				0.00
a	15 mm dia	200.000	Mtr	6.00	1200.00
b	20 mm dia	100.000	Mtr	6.00	600.00
c	25 mm dia	60.000	Mtr	6.00	360.00
d	32 mm dia	19.000	Mtr	8.00	152.00
e	40 mm dia	50.000	Mtr	9.00	450.00
f	50 mm dia	75.000	Mtr	9.00	675.00
g	80 mm dia	18.000	Mtr	16.00	288.00
14	Supplying, fitting and fixing G.I. pipes with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrew, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. <b>For Exposed Work</b>				0.00
a	15 mm dia. medium quality	25.000	Mtr	192.00	4800.00

b	20 mm dia. medium quality	24.000	Mtr	226.00	5424.00
c	25 mm dia. medium quality	30.000	Mtr	305.00	9150.00
d	32 mm dia. medium quality	12.000	Mtr	355.00	4260.00
e	40 mm dia. medium quality	20.000	Mtr	415.00	8300.00
f	50 mm dia. medium quality	30.000	Mtr	540.00	16200.00
<b>15</b>	Removing chokage in G.I. pipe including cleaning pipe.				0.00
a	15 mm dia	30	Mtr	7.00	210.00
b	20 mm dia	20	Mtr	7.00	140.00
c	25 mm dia	15	Mtr	7.00	105.00
d	32 mm dia	6	Mtr	9.00	54.00
e	40 mm dia	10	Mtr	9.00	90.00
f	50 mm dia	30	Mtr	9.00	270.00
g	80 mm dia	6	Mtr	10.00	60.00
<b>16</b>	Supplying, fitting and fixing PVC pipes (Schedule-40) medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrew, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials like teflon, solvent cement etc. in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accessories, specials.) <b>For Exposed Work</b>				0.00
a	15 mm dia	250.000	Mtr	101.00	25250.00
b	20 mm dia	150.000	Mtr	129.00	19350.00
c	25 mm dia	125.000	Mtr	177.00	22125.00
d	32 mm dia	12.000	Mtr	236.00	2832.00
e	40 mm dia	18.000	Mtr	292.00	5256.00
f	50 mm dia	75.000	Mtr	384.00	28800.00

17	Supplying, fitting and fixing PVC pipes (Schedule-40) for <b>underground work</b> of approved make (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - I). with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials like teflon, solvent cement etc. cutting trenches upto 1.5 metre below surface in all sorts of soil and refilling the same as directed complete in all respect. (Payment will be made on the centre line measurement of the total pipe line including all specials No separate payment will be made for accessories, specials.)				0.00
a	20 mm dia	12.000	Mtr	150.00	1800.00
b	25 mm dia	12.000	Mtr	200.00	2400.00
c	32 mm dia	12.000	Mtr	263.00	3156.00
d	40 mm dia	24.000	Mtr	327.00	7848.00
e	50 mm dia	60.000	Mtr	424.00	25440.00
f	80 mm dia	12.000	Mtr	839.00	10068.00
18	Supply, fitting, fixing of High Density Poly-ethylene Pipe conforming to IS - 4984 - 1985 (6 Kg / Sq.Cm.) (Working Pressure) complete in all respect including cost of jointing materials like solvent cement etc. in any position above ground.				0.00
a	40 mm dia	30.000	Mtr	109.00	3270.00
b	50 mm dia	50.000	Mtr	150.00	7500.00
c	63 mm dia	30.000	Mtr	221.00	6630.00
19	Supplying fitting fixing Poly Push fittings				0.00
a	Push Elbow 32 mm dia	5	Nos	9.80	49.00
b	Push Elbow 40 mm dia	12	Nos	15.00	180.00
c	Push Elbow 50 mm dia	50	Nos	27.10	1355.00
d	Push Elbow 63 mm dia	10	Nos	49.50	495.00

e	Push Socket 32 mm dia	5	Nos	6.60	33.00
f	Push socket 40 mm dia	6	Nos	8.70	52.20
g	Push Socket 50 mm dia	5	Nos	12.90	64.50
h	Push Socket 63 mm dia	5	Nos	19.90	99.50
i	Push Tee 32 mm dia	4	Nos	12.60	50.40
j	Push Tee 40 mm dia	10	Nos	18.90	189.00
k	Push Tee 50 mm dia	10	Nos	34.80	348.00
l	Push Tee 63 mm dia	5	Nos	65.40	327.00
<b>20</b>	Providing, fitting, fixing G.I fittings				0.00
(i)	<b>Socket</b>				0.00
a	15 mm dia	20	Nos	19.70	394.00
b	20 mm dia	10	Nos	29.60	296.00
c	25 mm dia	12	Nos	42.20	506.40
d	32 mm dia	4	Nos	60.40	241.60
e	40 mm dia	5	Nos	79.40	397.00
f	50 mm dia	5	Nos	122.90	614.50
g	80 mm dia	2	Nos	301.80	603.60
(ii)	<b>Reducing Socket</b>				0.00
a	20 mm dia	16	Nos	32.40	518.40
b	25 mm dia	10	Nos	45.90	459.00
c	32 mm dia	4	Nos	67.10	268.40
d	40 mm dia	2	Nos	88.10	176.20
e	50 mm dia	2	Nos	135.10	270.20
f	80 mm dia	2	Nos	332.00	664.00
(iii)	<b>Tee</b>				0.00
a	15 mm dia	14	Nos	33.80	473.20

b	20 mm dia	12	Nos	55.10	661.20
c	25 mm dia	6	Nos	81.60	489.60
d	32 mm dia	2	Nos	116.40	232.80
e	40 mm dia	2	Nos	158.90	317.80
f	50 mm dia	2	Nos	253.40	506.80
g	80 mm dia	1	Nos	561.60	561.60
(iv)	<b>Reducing Tee</b>				0.00
a	20 mm dia	12	Nos	59.90	718.80
b	25 mm dia	9	Nos	89.00	801.00
c	32 mm dia	2	Nos	128.20	256.40
d	40 mm dia	2	Nos	175.00	350.00
e	50 mm dia	3	Nos	278.80	836.40
f	80 mm dia	1	Nos	617.60	617.60
(v)	<b>Union</b>				0.00
a	15 mm dia	30	Nos	52.00	1560.00
b	20 mm dia	15	Nos	66.00	990.00
c	25 mm dia	10	Nos	103.00	1030.00
d	32 mm dia	3	Nos	150.00	450.00
e	40 mm dia	2	Nos	182.00	364.00
f	50 mm dia	10	Nos	273.00	2730.00
g	80 mm dia	2	Nos	739.00	1478.00
(vi)	<b>Check nut</b>				0.00
a	15 mm dia	5	Nos	12.90	64.50
b	20 mm dia	5	Nos	16.40	82.00
c	25 mm dia	5	Nos	26.00	130.00
d	32 mm dia	2	Nos	42.10	84.20

e	40 mm dia	2	Nos	46.20	92.40
f	50 mm dia	1	Nos	80.10	80.10
g	80 mm dia	1	Nos	172.50	172.50
(vii)	<b>Elbow</b>				0.00
a	15 mm dia	25	Nos	21.70	542.50
b	20 mm dia	10	Nos	34.40	344.00
c	25 mm dia	5	Nos	59.30	296.50
d	32 mm dia	3	Nos	88.50	265.50
e	40 mm dia	2	Nos	119.00	238.00
f	50 mm dia	4	Nos	185.50	742.00
g	80 mm dia	2	Nos	487.80	975.60
(viii)	<b>Reducing Elbow</b>				0.00
a	20 mm dia	12	Nos	37.50	450.00
b	25 mm dia	10	Nos	64.60	646.00
c	32 mm dia	3	Nos	98.60	295.80
d	40 mm dia	2	Nos	132.00	264.00
e	50 mm dia	5	Nos	204.20	1021.00
f	80 mm dia	2	Nos	536.60	1073.20
(ix)	<b>Flange</b>				0.00
a	50 mm dia	2	Nos	277.60	555.20
b	80 mm dia	2	Nos	423.80	847.60
(x)	<b>Nipple</b>				0.00
a	15 mm X 50 mm	100	Nos	10.00	1000.00
b	15 mm X 75 mm	80	Nos	12.50	1000.00
c	20 mm X 50 mm	20	Nos	15.30	306.00
d	25 mm X 50 mm	20	Nos	19.90	398.00

e	40 mm X 50 mm	10	Nos	30.50	305.00
f	50 mm X 75 mm	10	Nos	75.40	754.00
g	80 mm X 100 mm	10	Nos	120.00	1200.00
<b>21</b>	Supplying, fitting and fixing M.S Plug				0.00
a	15 mm dia	25	Nos	17.00	425.00
b	20 mm dia	15	Nos	26.00	390.00
c	25 mm dia	10	Nos	34.00	340.00
d	40 mm dia	5	Nos	65.00	325.00
e	50 mm dia	5	Nos	96.00	480.00
f	80 mm dia	2	Nos	169.00	338.00
<b>22</b>	Supplying, fitting and fixing M.S Hook	40	kg	120.00	4800.00
<b>23</b>	Dismantling ferrule with all pipe connection	4	Each Set	191.00	764.00
<b>24</b>	Dismantling existing ferrule with fittings and refixing same after cleaning.	4	Each Set	193.00	772.00
<b>25</b>	Drilling and tapping C.I. main.				0.00
a	Upto 15 mm	2	set	160.00	320.00
b	Above 15 mm upto 25 mm	4	set	200.00	800.00
c	Above 25 mm	2	set	239.00	478.00
<b>26</b>	Plugging up C.I. main with necessary materials & Labour Complete	4	set	209.00	836.00
<b>27</b>	Supplying, fitting and fixing brass ferrule including connection with P.V.C. pipe of approved make upto 450 mm long with plumbing joint,brass over C.P. coupling at both ends, with cap and lining complete in all respect, including cutting trenches in all sorts of soil and filling up trenches as per direction of the Engineer-in-charge.				0.00
(i)	25 mm dia	2	Each	1825.00	3650.00
(ii)	20 mm dia	1	Each	1267.00	1267.00
(iii)	15 mm dia	1	Each	942.00	942.00
<b>28</b>	Dismantling wash basin with brackets with or without waste fittings.	60	Each	35.00	2100.00



29	Refixing wash basin with brackets with or without waste fittings.	60	each	70.00	4200.00
30	Dismantling sink with brackets with or without waste fittings.	30	each	59.00	1770.00
31	Refixing sink with brackets with or without waste fittings.	30	each	76.00	2280.00
32	Porcelain wash basin 550 mm x 400 mm size supplied fitted and fixed with bracket, including painting on bracket, including poly waste and coupling and with 1.15 cm long waste pipe	10	Nos	1749.00	17490.00
33	Supplying, fitting and fixing pedestal	5	Each	1497.00	7485.00
34	Stainless Steel sink supplied fitted and fixed with C.P waste, Coupling, Sink waste pipe 1.15 cm long & C.I bracket. standerd quality. Size 600mm x 450mm x 200mm	10	Nos	3788.00	37880.00
35	Stainless Steel sink with drain board supplied fitted and fixed with C.P waste, Coupling, Sink waste pipe 1.15 cm long & C.I bracket. standerd quality.	3	Nos	5445.00	16335.00
36	Supplying, fitting and fixing White Vitreous China Sink in position on C.I. brackets including two coats of painting of brackets.Plain edge sink with overflow (i) 610 mm X 450 mm X 250 mm	1	Nos	5445.00	5445.00
37	Supplying,fitting and fixing 15 mm dia P.V.C. CONNECTOR white flexible, with both ends coupling with heavy brass/C.P/poly nut, 15 mm dia.				0.00
	450 mm long	100	Nos	96.00	9600.00
38	Supply, Fitting & fixing of complete 32 mm PTMT Bottle waste tap	15	Nos	443.00	6645.00
39	Supply, Fitting & fixing of 32 mm dia P.V.C corrugated waste pipe for basin or sink with coupled at one end 1.15 cm long.	100	Nos	91.00	9100.00
40	Supplying, fitting and fixing Waste				0.00
a	C.P over brass				0.00
i)	32 mm	10	Each	190.00	1900.00
ii)	40 mm	15	Each	238.00	3570.00
b	Supplying, fitting and fixing Waste				0.00
i)	32 mm	15	Each	44.00	660.00
ii)	40 mm	10	Each	59.00	590.00

41	Supplying, fitting and fixing of polythene coupling of approved make 32 mm size	30	Each	29.00	870.00
42	Supplying, fitting and fixing of polythene coupling of approved make 40 mm size	15	Each	40.00	600.00
43	Supplying, fitting, fixing C.I. Bracket including two coats of painting.				0.00
a	Wash basin	20	Nos	135.00	2700.00
b	sink	10	Nos	149.00	1490.00
44	Cleaning wash basin/sink with acid, washing powder etc	30	Each	16.00	480.00
45	Labour for hoisting plastic water storage tank up to 1500 litre capacity	10	Each	97.00	970.00
46	Labour for punching hole in plastic water storage tank up to 50 mm dia.	15	Each	19.00	285.00
47	Labour for lowering plastic water storage tank and stacking in places as directed up to 1500 litre capacity	10	Each	58.00	580.00
48	Supplying P.V.C water storage tank of approved quality with closed top with lid (Black) - Multilayer	21500	Ltrs	9.00	193500.00
49	Supplying, fitting and fixing of P.V.C tank cover (Black) (for 300 litre to 5000 litre P.V.C tanks) with necessary hinge, serews and locking arrangement	15	Each	230.00	3450.00
50	Dismantling ball cock and refixing the same after repair including straightening lever and renewing split pin.				0.00
a	15 mm dia	3	Nos	28.00	84.00
b	20 mm dia	10	Nos	33.00	330.00
c	25 mmdia	10	Nos	36.00	360.00
d	40 mm dia	5	Nos	45.00	225.00
e	50mm dia	10	Nos	51.00	510.00
51	Supplying , fitting, fixing in position ball cock set				0.00
a	20 mm dia	20	Nos	334.00	6680.00
b	25 mmdia	10	Nos	626.00	6260.00
c	40 mm dia	2	Nos	1046.00	2092.00

d	50mm dia	10	Nos	1544.00	15440.00
<b>52</b>	Supplying , fitting, fixing in position ball cocks body (without Rod & Ball)				0.00
a	20 mm dia	10	Nos	220.00	2200.00
b	25 mmdia	5	Nos	364.00	1820.00
c	40 mm dia	2	Nos	668.00	1336.00
d	50mm dia	5	Nos	912.00	4560.00
<b>53</b>	Supplying , fitting, fixing in position ball cocks rod (Aluminium)				0.00
a	20 mm dia	12	Nos	56.00	672.00
b	25 mmdia	6	Nos	122.00	732.00
c	40 mm dia	5	Nos	178.00	890.00
d	50mm dia	4	Nos	278.00	1112.00
<b>54</b>	Supplying , fitting, fixing in position ball cocks ball (HDPE with brass nut)				0.00
a	20 mm dia	4	Nos	64.00	256.00
b	25 mmdia	3	Nos	144.00	432.00
c	40 mm dia	2	Nos	220.00	440.00
d	50mm dia	10	Nos	362.00	3620.00
<b>55</b>	Dismantling and refixing tank including disconnecting and refitting pipe connection in position.	20	each	116.00	2320.00
<b>56</b>	Supplying, fitting and fixing Chromium plated Bib Cock short body	50	Each	539.00	26950.00
<b>57</b>	Supplying, fitting and fixing Chromium plated Bib Cock long body with wall flange with aerator	5	Each	659.00	3295.00
<b>58</b>	Supplying, fitting and fixing Chromium plated Pillar Cock Super Deluxe with Aerator	10	Each	760.00	7600.00
<b>59</b>	Supplying, fitting and fixing Chromium plated Stop Cock	10	Each	493.00	4930.00
<b>60</b>	Supplying, fitting and fixing Chromium plated angular Stop Cock with wall flange	10	Each	550.00	5500.00
<b>61</b>	Supplying, fitting and fixing Chromium plated Concealed Stop Cock	1	Each	674.00	674.00

62	Supplying, fitting and fixing Chromium plated round shower 100 mm dia with revolving joint	6	Each	452.00	2712.00
63	Supplying, fitting and fixing Chromium plated shower arm 240 mm long	8	Each	309.00	2472.00
64	Supplying, fitting and fixing Chromium plated Hand shower 70mm dia Round Shape Single flow	10	Each	550.00	5500.00
65	Flexible Tube 8mm dia & 1.5M Long with Nuts	20	Each	1000.00	20000.00
66	Supplying, fitting and fixing CP Health Faucet with 1mtr Flexible Tube with Wall Hook	15	Each	1611.00	24165.00
67	Supplying, fitting and fixing CP Centre hole Basin mixture with regular spout without popup waste system with 450 mm long braided hoses.	2	Each	1850.00	3700.00
68	Supplying, fitting and fixing CP Two Way Bib Cock	5	each	1269.00	6345.00
69	Supplying, fitting and fixing CP Sink Cock With Swinging Casted Spout (Table Mounted Model) With Aerator	3	No	1022.00	3066.00
70	Supplying, fitting and fixing 15 mm swan neck tap with left & right hand operating nob with aerator	1	No	1046.00	1046.00
71	Supplying, fitting and fixing CP Wall Mixer Telephone Shower Arrangement Only With Crutch (With Bush & Piston Delux Divertor fitting) With bend, nipple, offset, Aerator	1	No	2850.00	2850.00
72	Supplying, fitting and fixing CP Wall Mixer With 115mm Long Bend Pipe For Connection To Overhead Shower Code:517B (With Bush & Piston Divertor Fitting) With With bend, nipple, offset, Aerator	6	No	2850.00	17100.00
73	Supplying, fitting and fixing CP Wall Mixer 3 In 1 System With 115mm Bend Pipe, Aerator and Small Knob	3	No	3200.00	9600.00
74	Supplying, fitting and fixing CP Wall Mixer Non-Telephonic Shower System	2	no	2100.00	4200.00
75	Supplying, fitting and fixing CP Florentine Single Lever Surgical Purpose Elbow Action Basin Mixer with Extended Operating Lever without Popup Waste System with 450mm Long Braided Hoses	1	No	3150.00	3150.00
76	Renewing brass spindle for CP bib cock, pillar cock, stop cock etc	75	Each	74.00	5550.00
77	Renewing brass spindle for CP concealed stop cock etc as approved by Engineer In charge	4	Each	265.00	1060.00
78	Rewashing stop cock/ bib cock/ push cock/ pillar cock including gland packing/washer if necessary.	30	Each	13.00	390.00
79	Dismantling and refixing bib cock /stop cock./Shower	350	Each	12.00	4200.00

<b>80</b>	Labour charges for rewashing, dismantling, replacement of extension nipple, offset bend and refixing of wall mixer	30	Nos	110.00	3300.00
<b>81</b>	Supplying, fitting and fixing CP Wall flange, CP hook for health faucet, hand shower etc.	7	each	85.00	595.00
<b>82</b>	Supplying, fitting and fixing liquid soap Dispenser	4	Each	1100.00	4400.00
<b>83</b>	Supplying, fitting and fixing soap dish holder.	2	Each	525.00	1050.00
<b>84</b>	Supplying, fitting and fixing CP Clamp				0.00
	15 mm to 40 mm	100	each	20.00	2000.00
<b>85</b>	Supplying, fitting and fixing 15 mm dia CP Extension nipple				0.00
	50 mm to 75 mm	30	each	133.00	3990.00
<b>86</b>	Supplying, fitting and fixing CP offset for wall mixer	10	Each	295.00	2950.00
<b>87</b>	Supplying, fitting and fixing CP bend for wall mixer	8	each	450.00	3600.00
<b>88</b>	Dismantling and refixing shower rose after cleaning	15	Each	12.00	180.00
<b>89</b>	Supplying, fitting and fixing PTMT bib cock (15mm)	70	Each	154.00	10780.00
<b>90</b>	Supplying, fitting and fixing PTMT stop cock (Male/female thread)(15mm)	20	Each	154.00	3080.00
<b>91</b>	Supplying, fitting and fixing PTMT angular stop cock (15mm)	10	Each	182.00	1820.00
<b>92</b>	Supplying, fitting and fixing PTMT pillar cock (15mm)	12	Each	222.00	2664.00
<b>93</b>	Supplying, fitting and fixing 3" round PTMT overhead Swiveling Shower (15mm)	20	Each	179.00	3580.00
<b>94</b>	Health faucet with 1.5 mtr tube and hook	10	Each	412.00	4120.00
<b>95</b>	Supplying, fitting and fixing Health faucet body	10	Each	234.00	2340.00
<b>96</b>	Supplying, fitting and fixing 1.5 mtr tube	10	Each	184.00	1840.00
<b>97</b>	Supplying, fitting and fixing 1 mtr tube	10	Each	124.00	1240.00
<b>98</b>	Supplying, fitting and fixing Poly Ball Valve				0.00
<b>a</b>	15 mm dia	5	Each	35.00	175.00

b	20 mm dia	25	Each	60.00	1500.00
c	25 mm dia	15	Each	140.00	2100.00
d	40 mm dia	3	Each	190.00	570.00
e	50 mm dia	5	Each	300.00	1500.00
<b>99</b>	Supplying, fitting and fixing Poly Clamp				0.00
a	20 mm dia	25	Each	5.00	125.00
b	25 mm dia	20	Each	8.00	160.00
c	40 mm dia	10	Each	12.00	120.00
d	50 mm dia	10	Each	15.00	150.00
<b>100</b>	Supplying, fitting and fixing gunmetal wheel valve tested to 21 kg per sq. cm. (for water lines only).				0.00
a	15 mm dia	1	each	438.00	438.00
b	20 mm dia	3	each	604.00	1812.00
c	25 mm dia	3	each	778.00	2334.00
d	32 mm dia	1	each	1458.00	1458.00
e	40 mm dia	1	each	1590.00	1590.00
f	50 mm dia	2	each	2277.00	4554.00
g	80 mm dia	1	each	5591.00	5591.00
<b>101</b>	Supplying, fitting and fixing 15 mm dia CI bib cock	30	Each	140.00	4200.00
<b>102</b>	Supplying, fitting and fixing 15 mm dia CI Stop cock	15	Each	141.00	2115.00
<b>103</b>	Supplying, fitting and fixing CI Ball Valve				0.00
a	15 mm	5	each	193.00	965.00
b	20 mm	15	each	261.00	3915.00
c	25 mm	15	each	321.00	4815.00
d	32 mm	3	each	627.00	1881.00
e	40 mm	2	each	707.00	1414.00

f	50 mm	2	each	1066.00	2132.00
g	80 mm	1	each	2891.00	2891.00
<b>104</b>	Supplying, fitting and fixing 10 litre P.V.C. low-down cistern (White colour) Single flush" with P.V.C. fittings complete,C.I. brackets including two coats of painting to bracket etc.	20	Nos	1300.00	26000.00
<b>105</b>	Dismantling cistern including disconnecting all pipes, accessories and fittings.Up to 10 litre	30	Nos	28.60	858.00
<b>106</b>	Refixing cistern including brackets as necessary including cleaning and adjustment of all parts up to 10 lit or new cistern	32	Nos	28.60	915.20
<b>107</b>	Supplying,fitting and fixing 32 mm dia. Polythene Flush Pipe with necessary fixing materials and clamps complete.	25	Nos	181.00	4525.00
<b>108</b>	Refixing flush pipe of water closet	20	Nos	35.00	700.00
<b>109</b>	Repairing of flushing cisterns including replacement of syphon, washer,ball cock, handle etc	100	Nos	39.60	3960.00
<b>110</b>	Supplying of syphon for P.V.C Cistern	16	Nos	210.00	3360.00
<b>111</b>	Changing the rubber washer for syphon of P.V.C Cistern including takingout and refixing necessary parts	80	Nos	20.00	1600.00
<b>112</b>	Supplying of Poly handle for P.V.C Cistern	20	Nos	155.00	3100.00
<b>113</b>	Supplying,fitting and fixing of Ball cock set for P.V.C Cistern	10	Nos	225.00	2250.00
<b>114</b>	Supplying fitting fixing of cistern clamp for P.V.C Cistern	22	Set	50.00	1100.00
<b>115</b>	Supplying of labour as per day to basis for attending emergency jobs including cutting road,hard rock etc. for exposing Gi /C.I pipeline,removing mud,slushy earth, bailing out water etc.reqd. for jobs in connection with water supply maintenance under specific requirement from EIC.				
a	Mazdoor	954	Nos	511.45	487923.30
b	Assistant Fitter	115	Nos	598.54	68832.10
<b>116</b>	Supplying of M-seal	10	100 ml	50.00	500.00
<b>117</b>	Labour for replacing the C.I valves including cutting earth, dewatering, replacing the nut bolts/rubber sheet etc.				0.00

a	75 mm to 100 mm dia	4	each	498.54	1994.16
b	150 mm dia	10	Each	1099.64	10996.35
c	200 mm dia	2	Each	1598.18	3196.35
<b>118</b>	Repairing damaged lead caulked joint by recasting and hammering the same with additional lead and lead wool.	10	Each	725.73	7257.30
<b>119</b>	Repairing of flange joint after dismantling the joints, dewatering, removing the unserviceable rubber insertion and providing new rubber insertion including replacing the necessary nut bolts etc.	10	Each	801.46	8014.60
<b>120</b>	Repairing charges for greasing C.I valves, replacing the SS spindle for valves, replacing the gland packing etc	11	Each	425.18	4677.01
<b>121</b>	Labour for water supply checking in the campus area	50	Each Tank	240.42	12020.80
<b>122</b>	Renewing lead joint to CI pipes and specials and spun yarn including reusing 50% of old and using 50% new lead of approved quality new spun yarn and caulking the same properly including labour charges for dismantling the existing damaged portion complete as per direction of EIC. lead, spun yarn, fuel and other materials will be supplied by the Agency.				0.00
a	80mm dia to 150mm dia	10	each	938.00	9380.00
b	200mm dia to 250mm dia	10	each	1281.00	12810.00
Base Value= Rs.					1642076.62
CGST @ 6%					98,524.60
SGST @ 6%					98,524.60
Total=					18,39,125.81
Say					<b>18,39,126.00</b>

\*\* The above rates are inclusive of GST as applicable

I agree to execute the work at \_\_\_\_\_%(in figure) ABOVE / BELOW / AT PAR \_\_\_\_\_

percent (in words) ABOVE / BELOW / AT PAR Department estimated amount / item Rates

\_\_\_\_\_  
Signature of the Contractor with date & Seal



