

Water Works Section IIT, Khargapur

No. : IIT/WW/TEN/2018-19/34

Date: 20.09.2018

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 VS, B C Roy,MS, MT,Gokhale, SAM, Nibedita, SN/IG, RK,RP, RLB Halls of Residence for the year 2018-2019.	13,18,875/- (GST Inclusive)	26,378/-	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. 26,378/- 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 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 (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 VS, B C Roy, MS, MT, Gokhale, SAM, Nibedita, SN/IG,RK,RP,RLB Halls of Residence for the year 2018-2019.

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 ::

SI	Item	SUGGESTED BRAND NAME OR SIMILAR (APPROVED BY THE AUTHORITY)
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

**Routine repair/preventive maintenance in connection with plumbing & water supply
at VS,B.C.ROY,M.S,M.T,GOKHALE,SAM,NIBEDITA,SN/IG,R.K,R.P,,R.L.B Halls of
Residence for the year 2018-2019**

Sl	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs)
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. Depth of excavation not exceeding 1,500 mm.	20	Cum	119.27	2385.40
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)With earth obtained from excavation of foundation.	20	Cum	77.54	1550.80
3	Brick work with 1st class bricks in cement mortar (1:6)In foundation & plinth.	2	Cum	5103.00	10206.00
4	Brick work in cement mortar(1:6) in superstructure	3	Cum	5325.00	15975.00
5	125 mm thick brickwork with cement mortar (1:4))	10	Sqm	701.00	7010.00

6	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.With local hard blackstone variety chips (crusher broken)	1.5	Cum	4297.00	6445.50
7	15 mm thick plaster with cement mortar (1:4)	10	Sqm	150.00	1500.00
8	20 mm thick plaster with cement mortar (1:4)	10	Sqm	172.00	1720.00
9	Neat cement punning about 1.5mm thick in wall,dado>window sill,floor etc. NOTE:Cement 0.152 cu.m per100 sq.m.	10	Sqm	34.00	340.00
10	Dismantling all types of masonry removing rubbish within 5 km as directed	2	Cum	447.00	894.00
11	Cutting hole through wall and roof of concrete and mending good damages.Diameter upto 150 mm.				
i	In brick work [Cement-4.0 Kg/Mtr]	15	mtr	104.00	1560.00
ii	(ii) In concrete work (plain or R.C.) [Cement- 3.0 Kg/Mtr]	15	mtr	131.00	1965.00
12	Dismantling G.I or P.V.C Pipe with fittings carefully including removing to any distance and stacking				
a	15 mm dia upto25mm	100	Mtr	6.00	600.00
b	40 mm dia upto 50mm	100	Mtr	8.00	800.00
c	80 mm dia to 100 mm dia	50	Mtr	11.00	550.00
13	Dismantling ball cock and refixing after repair including straitaning lever and renewing split pin or fixing new ball cock or replacing the same				
a	15 mm dia	10	Each	28.00	280.00
b	20 mm dia	10	Each	33.00	330.00
c	25 mm dia	15	Each	36.00	540.00
d	40 mm dia	12	Each	49.00	588.00
e	50 mm dia	25	Each	51.00	1275.00

14	Providing fitting fixing ball cock of institute approved make(with Epoxy coated Al.Rod&H.D. Ball)				
a	25 mm dia	5	Each	626.00	3130.00
b	40mm dia	5	Each	1046.00	5230.00
c	50mm dia	30	Each	1544.00	46320.00
15	Supplying , fitting, fixing in position ball cocks body (without Rod & Ball) institute approved make				
a	20 mm dia	5	Nos	220.00	1100.00
b	25 mmdia	20	Nos	364.00	7280.00
c	40 mm dia	10	Nos	668.00	6680.00
d	50mm dia	30	Nos	912.00	27360.00
16	Supplying , fitting, fixing in position ball cocks rod (Aluminium) institute approved make				
a	20 mm dia	5	Nos	56.00	280.00
b	25 mmdia	10	Nos	122.00	1220.00
c	40 mm dia	10	Nos	178.00	1780.00
d	50mm dia	20	Nos	278.00	5560.00
17	Supplying , fitting, fixing in position ball cocks ball (HDPE with brass nut) institute approved make				
a	20 mm dia	5	Nos	64.00	320.00
b	25 mmdia	10	Nos	144.00	1440.00
c	40 mm dia	10	Nos	220.00	2200.00
d	50mm dia	20	Nos	362.00	7240.00
18	Cleaning washbasin/sink with acid	150	each	16.00	2400.00
19	Dismantling basin, sink with waste fittings and brackets	20	Each	35.00	700.00
20	Refixing wash basin or sink with or without waste fittings	20	Each	70.00	1400.00
21	Porcelain wash basin institute approved make supplied fitted and fixed with bracket, including painting (550mmx400mm) size including polywaste and coupling with 1.15m wastepipe.	5	Each	1383.00	6915.00
22	Refixing of G.I. Pipe with fitting after cleaning interior wall including mending good damages including cost of jointing materials where necessary				
a	15 mm dia	50	Mtr	6.00	300.00
b	20mm dia	25	Mtr	6.00	150.00
c	25mm dia	50	Mtr	6.00	300.00

d	40 mm dia	15	Mtr	9.00	135.00
e	50 mm dia	15	Mtr	9.00	135.00
f	80mm dia	15	Mtr	16.00	240.00
23	Dismantling existing ferrule including refixing the same after cleaning 15 mm to 25 mm dia	5	Each	191.00	955.00
24	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.				
a	15 mm dia	3	Each	942.00	2826.00
b	20 mm dia	3	Each	1267.00	3801.00
c	25 mm dia	3	Each	1825.00	5475.00
25	Labour for hoisting plastic water storage tank .				
1	Upto 1500 litre capacity.				
(a)	Upto 1st story from G.L.	2	Each	96.00	192.00
(b)	Upto 2nd story from G.L.	2	Each	139.00	278.00
(c)	Upto 3rd story from G.L.	2	Each	182.00	364.00
(d)	Upto 4th story from G.L.	2	Each	225.00	450.00
(e)	Upto 5th story from G.L.	2	Each	268.00	536.00
2	Above 1500lit to 5000lit				
(a)	Upto 1st story from G.L.	2	Each	154.00	308.00
(b)	Upto 2nd story from G.L.	2	Each	226.00	452.00
(c)	Upto 3rd story from G.L.	2	Each	298.00	596.00
(d)	Upto 4th story from G.L.	2	Each	370.00	740.00
(e)	Upto 5th story from G.L.	2	Each	442.00	884.00
26	Labour for punching hole in plastic water storage tank up to 50 mm dia.	10	Each	19.00	190.00
27	Labour for lowering plastic water storage tank and stacking in places as directed up to 1500 lit capacity				
1	Upto 1500 litre capacity.				

(a)	Upto 1st story from G.L.	2	Each	58	116
(b)	Upto 2nd story from G.L.	2	Each	87	174
(c)	Upto 3rd story from G.L.	2	Each	116	232
(d)	Upto 4th story from G.L.	2	Each	145	290
(e)	Upto 5th story from G.L.	2	Each	174	348
2	Above 1500lit to 5000lit				
(a)	Upto 1st story from G.L.	2	Each	95	190
(b)	Upto 2nd story from G.L.	2	Each	138	276
(c)	Upto 3rd story from G.L.	2	Each	181	362
(d)	Upto 4th story from G.L.	2	Each	224	448
(e)	Upto 5th story from G.L.	2	Each	267	534
28	Dismantling and refixing tank including disconnecting and refitting pipe connection in position.	20	each	116.00	2320.00
29	Supplying P.V.C water storage tank of approved quality with closed top with lid (Black) - Multilayer				
(i)	2000 ltr capacity	8	each	10434.00	83472.00
(ii)	3000 ltr capacity	3	each	15635.00	46905.00
(iii)	1000 ltr capacity	1	each	5128.00	5128.00
30	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 institute approved make or as approved by Engineer-in-charge	95	Each	230.00	21850.00
31	Drilling and tapping C.I. Main				
(i)	15 mm dia	2	Each	160.00	320.00
(ii)	up to 25 mm dia	2	Each	200.00	400.00
(iii)	Above 25mm	2	Each	239.00	478.00
32	Plugging up C.I. main with necessary materials & Labour Complete	4	Nos	200.00	800.00
33	Dismantling cistern including disconnecting all pipes, accessories and fittings.Up to 10 litre	50	Nos	28.60	1430.00
34	Refixing cistern including brackets as necessary including cleaning and adjustment of all parts up to 10 lit or new cistern	50	Nos	28.60	1430.00

35	Repairing of flushing cisterns including replacement of syphon, washer, ball cock, handle etc	50	Nos	39.60	1980.00
36	Supplying fitting fixing low-down cistern parts.				
a	syphon washer	25	Each	17.00	425.00
b	Knob	25	Each	150.00	3750.00
c	ball cock	25	Each	218.00	5450.00
d	syphon	50	Each	200.00	10000.00
e	clamp	25	Each	45.00	1125.00
37	Supplying, fitting and fixing 10 litre P.V.C. low-down cistern (White colour) institute approved make with P.V.C. fittings complete, C.I. brackets including two coats of painting to bracket etc.	20	Each	1015.00	20300.00
38	Labour for making long screw including fitting and fixing.				
a	15 mm dia	15	Each	7.00	105.00
b	20 mm dia	15	Each	7.00	105.00
c	25 mm dia	25	Each	7.00	175.00
d	40 mm dia	25	Each	10.00	250.00
e	50 mm dia	50	Each	10.00	500.00
f	80 mm dia	10	Each	11.00	110.00
39	Supplying fitting fixing 15 mm dia P.V.C connector institute approved make white flexible.				
a	450 mm long	150	Each	82.00	12300.00
40	Supplying, fitting and fixing complete Bottle waste trap PTMT Bottle trap 32 mm with connecting pipe institute approved make.	10	Nos	443.00	4430.00
41	Repairing 25mm to 40mm peets valve including renewing packing to gland etc. or fitting fixing new valve (cost of valve excluded)	5	Each	30.00	150.00
42	Supplying, fitting and fixing gunmetal wheel valve of approved brand and make tested to 21 kg per sq. cm. (for water lines only).				
a	15mm dia	3	Each	438	1314.00
b	20 mm dia	2	Each	604	1208.00
c	25 mm dia	4	Each	778	3112.00
d	40mm dia	2	Each	1590	3180.00
e	50mm dia	4	Each	2277	9108.00
f	80mm dia	1	Each	5591	5591.00

43	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	365	Day	511.45	186679.25
44	Steel sink institute approved make supplied fitted and fixed with C.I bracket, including painting including C.P waste and coupling with waste pipe 1.15m long standard quality. Size 630mm x 550mm x 180mm	5	Each	3788.00	18940.00
45	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	3	Nos	5445.00	16335.00
46	Supplying, fitting, fixing 32 mm dia P.V.C waste pipe for basin or sink with PVC coupling at one end with nut 32mm dia with waste fittings 1050 mm long.with necessary clamp.	100	Each	91.00	9100.00
47	Supplying, fitting and fixing Waste fittings complete of institute approved make.				
a	C.P over brass				
i)	32 mm	10	Each	190.00	1900.00
ii)	40 mm	15	Each	238.00	3570.00
b	Supplying, fitting and fixing Waste fittings complete of Institute approved make.				
i)	32 mm	15	Each	44.00	660.00
ii)	40 mm	10	Each	59.00	590.00
48	Supplying, fitting, fixing 32 mm dia polythene flush pipe of approved make with necessary fixing materials & clamps complete.	25	Each	155.00	3875.00
49	labour charges for dismantling&refixing bib cock,stop cock, shower, pillar cock, fixing old/new taps	100	Each	12.00	1200.00
50	Supplying, fitting and fixing Chromium plated Bib Cock short body institute approved brand.	10	Each	539.00	5390.00
51	Supplying, fitting and fixing Chromium plated Bib Cock long body with wall flange with aerator institute approved brand.	10	Each	659.00	6590.00

52	Supplying, fitting and fixing Chromium plated Pillar Cock Super Deluxe with Aerator institute approved brand	10	Each	592.00	5920.00
53	Supplying, fitting and fixing Chromium plated Stop Cock institute approved brand.	10	Each	493.00	4930.00
54	Supplying, fitting and fixing Chromium plated angular Stop Cock with wall flange institute approved brand.	10	Each	815.00	8150.00
55	Supplying, fitting and fixing Chromium plated Concealed Stop Cock or institute approved brand.	10	Each	674.00	6740.00
56	Renewing brass spindle for CP bib cock, pillar cock, stop cock 15mm etc as approved by Engineer In charge	25	Each	74.00	1850.00
57	Renewing brass spindle for CP concealed stop cock etc as approved by Engineer In charge	4	Each	265.00	1060.00
58	Supplying fitting fixing polythene coupling (Nipple& Nut)32 mm size	4	Each	29.00	116.00
59	Supplying fitting fixing polythene coupling (Nipple& Nut)40 mm size	4	Each	40.00	160.00
60	Dismantling and refixing shower rose after cleaning	15	Each	12.00	180.00
61	Supplying, fitting and fixing PTMT bib cock (15mm) institute approved brand	100	Each	154.00	15400.00
62	Supplying, fitting and fixing PTMT stop cock (Male/female thread)(15mm) institute approved brand	50	Each	154.00	7700.00
63	Supplying, fitting and fixing PTMT pillar cock (15mm) institute approved brand	100	Each	222.00	22200.00
64	Supplying, fitting and fixing PTMT overhead Swiveling Shower (75mm) institute approved brand	50	Each	179.00	8950.00
65	Providing fitting fixing institute approved make angular stop cock.	50	Each	182.00	9100.00
66	Health faucet institute approved make with 1mtr tube and wall hook	10	Each	1251.00	12510.00
67	Providing fitting fixing GI hook	40	Kg.	120.00	4800.00
68	Supplying, fitting and fixing Poly Ball Valve institute approved make				
a	15 mm dia	5	Each	99.00	495.00

b	20 mm dia	5	Each	152.00	760.00
c	25 mm dia	20	Each	239.00	4780.00
d	40 mm dia	20	Each	553.00	11060.00
e	50 mm dia	20	Each	1128.00	22560.00
69	Renewing specials only of cast iron spun pipe conforming to I.S. 1536/1976 including cutting trenches in any soil or through masonry, concrete etc., if necessary and mending good damages including jointing with Tyton joints as per manufacturer's specifications excluding the cost of concrete or masonry work, if required, but including the cost of filling up trenches (for all dia. specials, payment will be made on the basis of actual weight of the specials	100	Kg	91.00	9100.00
70	Replacing C.I valves including cutting earth, dewatering, replacing the nut bolts/rubber sheet etc.				
a	75 mm to 100 mm dia	10	each	498.54	4985.40
b	150 mm dia	11	Each	1099.64	12096.04
c	200 mm dia	3	Each	1598.18	4794.54
71	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.	14	Each	801.46	11220.44
72	Repairing charges for greasing C.I valves, replacing the SS spindle for valves, replacing the gland packing etc	10	Each	425.18	4251.80

73	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 span 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.				
a	80mm dia to 150mm dia	10	each	938.00	9380.00
b	200mm dia to 250mm dia	10	each	1281.00	12810.00
74	Repairing damaged lead caulked joint by recasting and hammering the same with additional lead and lead wool.	10	Each	725.73	7257.30
75	Supplying, fitting and fixing 15 mm dia institute approved make CI bib cock	30	Each	140.00	4200.00
76	Supplying, fitting and fixing 15 mm dia institute approved make CI Stop cock	15	Each	141.00	2115.00
77	Providing fitting fixing PVC fittings (medium duty) conforming to ASTM D - 1785 and threaded to match with GI Pipes as per IS : 1239 (Part - D).				
A	Socket				
i	15 mm dia	5	Each	10.00	50.00
ii	20 mm dia	5	Each	14.00	70.00
iii	25 mm dia	5	Each	23.00	115.00
iv	40mm dia	5	Each	42.00	210.00
v	50mm dia	5	Each	53.00	265.00
vi	80mm dia	5	Each	180.00	900.00
B	Reducing socket				
i	20x15	5	Each	15.00	75.00
ii	25x20	5	Each	23.00	115.00
iii	25x15	5	Each	26.00	130.00
iv	40x25	5	Each	71.00	355.00
v	50x40	5	Each	66.00	330.00
vi	80x50	5	Each	141.00	705.00
C	Elbow				
i	15 mm dia	5	Each	13.00	65.00
ii	20 mm dia	5	Each	18.00	90.00
iii	25 mm dia	5	Each	27.00	135.00
iv	40mm dia	5	Each	69.00	345.00
v	50mm dia	5	Each	113.00	565.00

vi	80mm dia	5	Each	266.00	1330.00
D	Reducing elbow				
i	25x15	5	Each	67.00	335.00
ii	25x20	6	Each	63.00	378.00
iii	80x50	5	Each	235.00	1175.00
E	Tee				
i	15 mm dia	5	Each	14.00	70.00
ii	20 mm dia	5	Each	23.00	115.00
iii	25 mm dia	5	Each	36.00	180.00
iv	40mm dia	5	Each	99.00	495.00
v	50mm dia	5	Each	125.00	625.00
vi	80mm dia	5	Each	349.00	1745.00
F	Reducing Tee				
i	20 mm x15mm	5	Each	37.00	185.00
ii	25mmx15mm	5	Each	43.00	215.00
iii	40mmx25 mm	5	Each	74.00	370.00
iv	50mmx25mm	5	Each	210.00	1050.00
v	80mmx25mm	5	Each	468.00	2340.00
G	Nipple 75mm Long				
i	15 mm dia	5	Each	11.00	55.00
ii	20 mm dia	5	Each	15.00	75.00
iii	25 mm dia	5	Each	19.00	95.00
iv	40mm dia	5	Each	34.00	170.00
v	50mm dia	5	Each	36.00	180.00
vi	80mm dia	5	Each	83.00	415.00
78	<p>Providing fitting fixing P.V.C Pipes of approved make of (light duty) conforming to ASTM D-1785 and threaded to match with G.I. pipes as per IS:1239(Part-1) with all necessary specials viz. socket, bend, tee, union, cross, elbow, nipple, long screw, reducing socket, reducing tee, short piece etc. fitted with G.I. hook, including cutting pipes, making hreads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials in any position above ground. (Payment will be made on the centre line measurement of total pipe line including all specials. No separate payment will be made for accessories, specials.)</p>				
a	15 mm dia	100	Mtr	91.00	9100.00
b	20 mm dia	50	Mtr	113.00	5650.00
c	25 mm dia	100	Mtr	150.00	15000.00
d	40mm dia	25	Mtr	236.00	5900.00
e	50mm dia	100	Mtr	303.00	30300.00

79	Supplying, fitting and fixing PVC pipes for underground work of approved make (light duty) conforming to ASTM - 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 including cost of all materials, jointing materials, cutting pipes, making threads, 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.)				
a	20 mm dia	10	Mtr	127.00	1270.00
b	25 mm dia	100	Mtr	164.00	16400.00
c	40mm dia	25	Mtr	255.00	6375.00
d	50mm dia	25	Mtr	321.00	8025.00
e	80mm dia	20	Mtr	621.00	12420.00
80	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. institute approved make				
a	40 mm dia	20.00	Mtr	109.00	2180.00
b	50 mm dia	50.00	Mtr	150.00	7500.00
c	63 mm dia	40.00	Mtr	221.00	8840.00
81	Supplying fitting fixing Poly Push fittings institute approved make				
a	Push Elbow 32 mm dia	6	Nos	9.80	58.80
b	Push Elbow 40 mm dia	9	Nos	15.00	135.00
c	Push Elbow 50 mm dia	25	Nos	27.10	677.50
d	Push Elbow 63 mm dia	5	Nos	49.50	247.50
e	Push Socket 32 mm dia	5	Nos	6.60	33.00
f	Push socket 40 mm dia	5	Nos	8.70	43.50
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	15	Nos	18.90	283.50
k	Push Tee 50 mm dia	15	Nos	34.80	522.00
l	Push Tee 63 mm dia	10	Nos	65.40	654.00
82	Providing fitting fixing G.I Pipes of institute approved make (medium duty) with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbow, 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 in any position above ground. (Payment will be made on the centre line measurement of total pipe line including all specials. No separate payment will be made for accessories, specials.)				
a	15 mm dia	10	Mtr	192.00	1920.00
b	20 mm dia	5	Mtr	226.00	1130.00
c	25 mm dia	20	Mtr	305.00	6100.00
d	40mm dia	20	Mtr	415.00	8300.00
e	50mm dia	20	Mtr	540.00	10800.00
f	80mm dia	20	Mtr	818.00	16360.00
83	Removing chokage in G.I. pipe including cleaning pipe.				
a	15 mm dia	32	Mtr	7.00	224.00
b	20 mm dia	10	Mtr	7.00	70.00
c	25 mm dia	20	Mtr	7.00	140.00
d	40 mm dia	10	Mtr	9.00	90.00
e	50 mm dia	30	Mtr	9.00	270.00
f	80 mm dia	10	Mtr	10.00	100.00
84	Providing fitting fixing G.I specials including cost of jointing materials.				
(a)	Flange				
i	50 mm dia	2	Nos	277.60	555.20
ii	80 mm dia	2	Nos	423.80	847.60
(b)	Socket				
i	15 mm dia	5	Each	19.70	98.50
ii	20 mm dia	5	Each	29.60	148.00
iii	25 mm dia	5	Each	42.20	211.00
iv	40mm dia	5	Each	79.40	397.00
v	50mm dia	5	Each	122.90	614.50

vi	80mm dia	5	Each	301.80	1509.00
(c)	Reducing socket				
i	20mm dia	5	Each	32.40	162.00
ii	25mm dia	5	Each	45.90	229.50
iii	40mm dia	5	Each	88.10	440.50
iv	50mm dia	5	Each	135.10	675.50
v	80mm dia	5	Each	332.00	1660.00
(d)	Elbow				
i	15 mm dia	5	Each	21.70	108.50
ii	20 mm dia	5	Each	34.40	172.00
iii	25 mm dia	5	Each	59.30	296.50
iv	40mm dia	5	Each	119.00	595.00
v	50mm dia	5	Each	185.50	927.50
vi	80mm dia	5	Each	487.80	2439.00
(e)	Reducing elbow				
i	20mm dia	5	Each	37.50	187.50
ii	25mm dia	5	Each	64.60	323.00
iii	40mm dia	5	Each	132.00	660.00
iv	50mm dia	5	Each	204.20	1021.00
v	80mm dia	5	Each	536.60	2683.00
(f)	Tee				
i	15 mm dia	5	Each	33.80	169.00
ii	20 mm dia	5	Each	55.10	275.50
iii	25 mm dia	5	Each	81.60	408.00
iv	40mm dia	5	Each	158.90	794.50
v	50mm dia	5	Each	253.40	1267.00
vi	80mm dia	5	Each	561.60	2808.00
(g)	Reducing Tee				
i	20mm dia	5	Each	59.90	299.50
ii	25mm dia	5	Each	89.00	445.00
iii	40mm dia	5	Each	175.00	875.00
iv	50mm dia	5	Each	278.80	1394.00
v	80mm dia	5	Each	617.60	3088.00
(h)	Nipple 50mm Long				
i	15 mm dia	5	Each	10.00	50.00
ii	20 mm dia	5	Each	15.30	76.50
iii	25 mm dia	5	Each	19.90	99.50
iv	40mm dia	5	Each	30.50	152.50
v	50mm dia	5	Each	75.40	377.00
vi	80mm dia	5	Each	120.00	600.00
(i)	Check nut				
a	15 mm dia	3	Nos	12.90	38.70
b	20 mm dia	5	Nos	16.40	82.00
c	25 mm dia	6	Nos	26.00	156.00
d	40 mm dia	2	Nos	46.20	92.40
e	50 mm dia	1	Nos	80.10	80.10

f	80 mm dia	1	Nos	172.50	172.50
(j)	Union				
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
(k)	Plug				
a	15 mm dia	10	Nos	17.00	170.00
b	20 mm dia	10	Nos	26.00	260.00
c	25 mm dia	5	Nos	34.00	170.00
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
					1177566.67
				CGST@6%	70654.00
				SGST@6%	70654.00
				Total Rs.	1318874.67
				Say Total Rs.	13,18,875.00

** 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