

**SANITARY SECTION  
IIT KHARAGPUR**

No. : IIT/SAN/TEN/2017-18/01

Date: 09.02.2017

**NOTICE INVITING TENDER**

**Last Date for submission of Tenders: 3<sup>rd</sup> March 2017.**

**Date of Tender opening: 3<sup>rd</sup> March 2017 upto 3:00 P.M.**

The Executive Engineer, Sanitary Section IIT Kharagpur, invites the sealed tender in two bids system from eligible Agency of the Indian Institute of Technology, Kharagpur / CPWD/PWD/MES for the following works.

Sl.No	Name of the Work	Estimated Cost (Rs)	Earnest Money Deposit (Rs)	Time Allowed
1.	Renewing of Indian Type W.C., European or Anglo Indian commode ..... HCI pipes ..... at IIT Kharagpur for the year 2017-18.	18,08,377.00	36,168.00	12 Months
2.	Annual cleaning works of sewerage system at IIT Kharagpur for the financial year 2017-18.	16,49,960.00	32,999.00	12 Months
3.	Repairing and new construction of manholes and SW lines i/c misc. works connected with sewerage system at IIT Kharagpur.	9,73,984.00	19,480.00	12 Months
4.	Integrated Mosquito control of entire campus (Residential, Academic & Hall area) for one year at IIT Kharagpur.	14,52,000.00	29,040.00	12 Months

**Scope of work** :- Please refer the annexure 'A'

**Eligibility Criteria**

The bidder should have executed three similar works each of value 40% of the estimated cost or two similar works each of value 50% of the estimated cost or one work of value 80% of the estimated cost in the last seven 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 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 1) Renewing of Indian Type W.C., European or Anglo Indian commode ..... HCI pipes ..... at IIT Kharagpur for the year 2017-18. 2) Annual cleaning works of sewerage system at IIT Kharagpur for the financial year 2017-18. 3) Repairing and new construction of manholes and SW lines i/c misc. works connected with sewerage system at IIT Kharagpur. And 4) Integrated Mosquito control of entire campus (Residential, Academic & Hall area) for one year at IIT Kharagpur.is to be written on the left side of this envelope. The technical bid envelop should contains the Cost of tender Paper for each work is Rs. 1000.00 [Non refundable], (in the form of DD drawn in favour of IIT Kharagpur, payable at Kharagpur) & the EMD of 1) Rs. 36,168/- 2) Rs.32,999/- 3) Rs.14,480/- and 4) Rs. 29,040/- respectively. (in the form of DD drawn in favour of IIT Kharagpur, payable at Kharagpur) also in the same envelope.

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 whatsoever 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 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 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 & duties, freight, 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, if any. The format of price bid is enclosed in annexure 'B'.

Each page of bid document shall have to be signed & stamped by the Bidder/ Authorized Signatory before submission. The bidders have to submit the tender documents & correspondences accompanying the tender with proper signature & 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.

The sealed envelope containing Commercial Bid of the Tenderers will not be opened if their Technical bids are found unacceptable by the Committee.

The tender papers can be submitted on all working days (except holidays) during office hours either by Speed Post/Registered Post addressed to the Executive Engineer (W.W & Sanitary Section), IIT, Kharagpur, 721302 or by dropping the tender papers in the box to be kept in the office of the Executive Engineer (W.W & Sanitary Section), IIT, Kharagpur, 721302, Latest by 3:00 PM on 03.03.2017. 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)

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

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

**SANITARY SECTION  
IIT KHARAGPUR**

**TENDER PAPER ISSUED TO:**

**NAME OF THE WORK:** Renewing Indian W.C., European or Anglo Indian type Commode Changing one type into another, including some miscellaneous works in connection with Sewerage pipes etc, at IIT Kharagpur for the year 2017-18.

**Completion Time :** 12 Months

**Submission of Tender Paper:** 03<sup>rd</sup> March 2017 upto 3:00 P.M.

Renewing Indian W.C, European or Anglo Indian type Commode changing one type into another, including some miscellaneous works in connection with sewerage pipes etc at IIT Kharagpur for the year 2017-2018.

Sl. No.	Description of Item	Unit	Qty	Rate (Rs.)	Amount (Rs.)
1	Dismantling Indian W.C. including taking out base concrete as necessary.	Nos	110.00		
2	Dismantling E.P. or Anglo-Indian W.C.	Nos	110.00		
3	Dismantling Orissa pattern W.C. Including taking out of base concrete, if necessary, complete.	Nos	40.00		
4	Dismantling urinal.	Nos	50.00		
5	Dismantling flush pipe of water closet.	Nos	100.00		
6	Refixing flush pipe of water closet.	Nos	100.00		
7	Cleaning I.P.W.C. with acid.	Nos	100.00		
8	Cleaning E.P . or Anglo-Indian W.C. with acid	Nos	100.00		
9	Cleaning urinal with channel with acid.	Nos	100.00		
10	Dismantling Foot rest for Indian pattern water closet.	Pair	50.00		
11	Supplying, fitting and fixing shallow water closet indian pattern (I.P.W.C) of approved make in white vitreous chinaware in position (excluding cost of concrete for fixing).				
	(i) 580 mm long	Nos	50.00		
	(ii) 510 mm long	Nos	50.00		

12	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc.				
	(a) With 'P' trap	Nos	55.00		
	(b) With 'S' trap	Nos	55.00		
13	Supplying, fitting and fixing Anglo-Indian W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc.				
	(a) With 'P' trap (with vent)	Nos	25.00		
	(b) With 'S' trap (with vent)	Nos	25.00		
14	Supplying, fitting and fixing Orissa pattern water closet in white glazed vitreous chinaware of approved make in position complete excluding 'P' or 'S' trap (excluding cost of concrete for fixing).				
	(i) 580 mm X 440 mm	Nos	25.00		
	(ii) 530 mm X 410 mm	Nos	25.00		
15	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm X 75 mm X 75 mm wooden blocks complete.				
	(ii) 465 mm X 355 mm X 265 mm	Nos	55.00		
	(i) 590 mm X 390 mm X 380 mm	Nos	25.00		
16	Supplying, fitting and fixing porcelain Foot rest for water closet of size 275 mm X 125 mm	Pair	20.00		
17	Supplying, fitting and fixing Closet seat of approved make with lid and C.P. hinges rubber buffer and brass screws complete.				
	a) E.W.C				
	(i) Plastic Black	Each	58.00		
	(ii) Plastic White	Each	23.00		
	b) Anglo Indian				

	(i) Plastic Black	Each	58.00		
	(i) Plastic White	Each	23.00		
18	Supplying, fitting and fixing 32 mm dia. Polythene Flush pipe of approved make with necessary fixing materials and clamps complete.	Each	115.00		
19	Supplying, fitting & fixing cast iron soil pipe only conforming to I.S. 3989 / 1970 and I.S. 1729/1964 with bobbins, nails etc. Including making holes in the wall, floor etc. and cutting trenches etc. in any floor through masonry concrete, if necessary, and mending good damages with necessary jointing materials and painting two coats to the exposed surface with approved paint complete. (Measurement will be made along the center line of the total pipe line in fitted condition including specials, payment for specials & Painting will however be paid seperately) with lead caulked joints 100 mm dia.	Mtr	115.00		
20	Supplying, fitting & fixing Cast iron single branch equal with door conforming to I.S. 1729 / 1970 including joining and painting two coats to the exposed surface with approved paint complete. (Payment of panting will however be paid separately). With lead caulked joints 100 mm dia	Each	58.00		
21	Supplying, fitting & fixing H.C.I. bend without door conforming to I.S.S. including jointing complete and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid separately).with lead caulked joints 100 mm dia.	Each	58.00		
22	Supplying, fitting & fixing H.C.I. bend with door conforming to I.S.S. including jointing complete and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid separately)with lead caulked joints 100 mm dia	Nos	58.00		
23	Supplying, fitting & fixing approved patent vent cowl H.C.I. conforming to I.S.S and painting two coats to the exposed surface with approved paint complete. (Payment of Painting will however be paid separately).100 mm dia	Each	50.00		
24	Supplying, fitting & fixing Aluminium domical grating.				
	i) 150 mm	Nos	230.00		
	iii) 100 mm	Nos	230.00		

25	Supplying, fitting & fixing Cast iron 'P' or 'S' trap conforming to I.S. 3989 / 1970 and 1729 / 1964 including lead caulked joints and painting two coats to the exposed surface. (Painting will however be paid separately).				
	(a) 'P' Trap 100 mm	Nos	115.00		
	(b) 'S' Trap 100 mm	Nos	115.00		
26	Supplying, fitting and fixing C.I. round grating.				
	(i) 100 mm	Nos	115.00		
	(ii) 150 mm	Nos	115.00		
27	Supplying, fitting and fixing C.I. square jalli.				
	(a) 100 mm	Nos	115.00		
	(b) 150 mm	Nos	115.00		
28	Supply of UPVC pipes (B Type) conforming to IS – 13592-1992 Single socketed 1.8 mtr lenth, 110 mm dia	Mtr	115.00		
29	Supply of UPVC fittings (B Type) conforming to IS – 13592-1992				
	a) 110mm plain Tee	Each	58.00		
	b) 110 mm door Tee	Each	58.00		
	c)110 mm Bend 87.5	Each	58.00		
	d) 110 mm Door bend (T.S)	Each	58.00		
	e) 110mm Vent Cowl	Each	58.00		
	f) 110mm Pipe Clip	Each	230.00		
30	Renewing door of H.C.I. bend or junction with new bolts and nuts including taking out.	Set	230.00		

31	Dismantling H.C.I. pipe with fittings including melting lead caulked joints. 100 mm dia	Mtr	230.00		
32	Refixing H.C.I. pipe with fittings including lead caulked joints (with the old molten lead ) 100mm dia	Each	173.00		
33	Cutting hole through wall, roof and mending good all damages.	Each	115.00		
34	Supplying, fitting and fixing approved brand 32 mm dia. P.V. C. waste pipe, with PVC coupling at one end fitted with necessary clamps. 600 mm long.	Each	115.00		
35	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in ground floor.	Sq.M	12.00		
36	Labour for taking out door and window frame including shutter for repair or replacement of different parts of the frame & refixing the same including mending good all damages complete. (Concrete and brick work for mending damage will be paid separately	Sq.M	115.00		
37	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.	Cu.M	6.00		
38	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/Sq.M all complete including all materials and labour. 35 mm. thick.	Sq.M	50.00		
39	18 mm. to 22 mm. thick, kota stone slab set in 20 mm thick (avg) cement mortar (1:4) in floor, stair & lobby including pointing in cement slurry with admixture of pigment matching the stone shade, including grinding & polishing as per direction of Engineer - in - charge to match with the existing work. [Slurry for bedding @ 4.4 kg/Sq.m and pointing @2.0 kg/Sq.m].	Sq.M	5.00		



40	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos.of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc.	Sq.M	10.00		
41	Brick work with 1st class bricks in cement mortar (1:4), In foundation and plinth.	Cum	20.00		
42	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor). [Excluding cost of chipping over concrete surface] with 1:4 cement motor.				
a	15 mm thick plaster	Sq.M	20.00		
b	20 mm thick plaster	Sq.M	10.00		
43	Neat cement punning about 1.5 mm. thick in wall, dado, window, sills, floor, drain etc. NOTE : Cement 0.152 cu.m. per 100 sq.m.	Sq.M	30.00		
44	Supplying, fitting and fixing UPVC,pipes class III conforming to IS : 4985-2000.				
a	160 mm dia	Mtr	50.00		
b	110 mm dia	Mtr	100.00		
				<b>TOTAL Rs.</b>	

**SANITARY SECTION  
IIT KHARAGPUR**

**TENDER PAPER ISSUED TO:**

**NAME OF THE WORK:** Annual cleaning works of sewerage system at IIT Kharagpur for the financial year 2017-18.

**Completion Time :** 12 Months

**Submission of Tender Paper:** 03<sup>rd</sup> March 2017 upto 3:00 P.M.

Annual cleaning works of sewerage system at IIT Kharagpur for the financial year 2017-18.

Sl. No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
1	Removing chokage (Full or partial) of underground soil or sewer pipe of any dia at any depth with the help of split bamboo or any other means as per the directions of the site incharge, this item include cost of labour, tools and plats etc. complete.	Mtr.	90000.00		
2	Removing chokage of filled up yard gully or pit i.e, chamber adjacent to the quarters, by cleaning, removing and dispsosing off the sludge or silt, including removing of the gratings, opening of covers and pressing them into original position after completion of the work and disposing of the sludge as directed.	Nos .	1400.00		
3	Cleaning and removing of sludge or slit or any other materials such as bricks, bats, ballons and the like from the inspection pits or the manholes of different sites and directed after proper disinfection .	Nos .	4032.00		
				<b>Total Rs.</b>	

**SANITARY SECTION  
IIT KHARAGPUR**

**TENDER PAPER ISSUED TO:**

**NAME OF THE WORK:** Repairing and new construction of manholes and SW lines i/c misc. works connected with sewerage system at IIT Kharagpur..

**Completion Time :** 12 Months

**Submission of Tender Paper:** 03<sup>rd</sup> March 2017 upto 3:00 P.M.

Repairing and new construction of manholes and SW lines i/c misc. works connected with sewerage system at IIT Kharagpur

Sl. No.	Description of Item	Unit	Qty	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 1.5 m.	Cu.M	1000.00		
2	Filling in foundation or plinth by fine sand in layers not exceeding 150 mm as directed and consolidating the same by thorough saturation with water, ramming complete including the cost of supply of sand. (Payment to be made on measurement of finished quantity)	Cu.M	120.00		
3	Cement concrete with graded stone ballast (40 mm size excluding shuttering), In ground floor, [Pakur Variety], 1:3:6 proportion.	Cu.M	20.00		
4	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.	Cu.M	350.00		
5	Supplying, fitting and fixing UPVC,pipes class III conforming to IS : 4985-2000.				
	(a) 160 mm dia	Mtr.	100.00		
	(b) 110 mm dia	Mtr.	100.00		
6	Brick work with 1st class bricks in cement mortar (1:4), In foundation and plinth.	Cu.M	35.00		
7	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor). [Excluding cost of chipping over concrete surface], With 1:4 cement mortar :				
	(a) 20 mm thick plaster	Sq.M	150.00		
	(b) 15 mm thick plaster	Sq.M	150.00		
8	Neat cement punning about 1.5 mm. thick in wall, dado, window, sills, floor, drain etc. NOTE : Cement 0.152 cu.m. per 100 sq.m.	Sq.M	100.00		

9	Artificial stone in floor, dado, staircase etc with cement concrete (1:2:4) with stone chips, laid in panels as directed with topping made with ordinary or white cement (as necessary) and marble dust in proportion (1:2) including smooth finishing and rounding off corners including raking out joints or roughening of concrete surface and application of cement slurry before flooring works using cement @ 1.75 kg/Sq.M all complete including all materials and labour. In ground floor, 3 mm. thick topping (High polishing grinding on this item is not permitted with ordinary cement). Using grey cement. 35 mm thick.	Sq.M	15.00		
10	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. Pakur Variety.	Cu.M	1.00		
11	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes. Pakur Variety.	Cu.M	1.10		
12	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction. For works in foundation, basement and upto roof of ground floor/upto 4 m, Tor steel/Mild Steel. SAIL/ TATA/RINL	Kg.	110.00		
13	Removing chokage of Water closet.	Nos.	5000.00		
14	Supplying adult male labourers physically & mentally fit as and when required.	Nos.	430.00		
				Total Rs.	

**SANITARY SECTION  
IIT KHARAGPUR**

**TENDER PAPER ISSUED TO:**

**NAME OF THE WORK:** Integrated Mosquito control of entire campus (Residential, Academic & Hall area) for the one year at IIT Kharagpur.

**Completion Time :** 12 Months

**Submission of Tender Paper:** 03<sup>rd</sup> March 2017 upto 3:00 P.M.

Name of Work:- Integrated Mosquito control of entire campus (Residential, Academic & Hall area) for one year at IIT Kharagpur.

Item No.	Description of Item	Unit	Quantity	Rate (Rs.)	Amount(Rs.)
<b>1.</b>	<b>Anti larval Treatment:-</b>				
	Objective of this treatment is to prevent mosquito breeding method which needs to be followed is				
	Using larvicidal insecticide such as Fenthion, tempohos, BTI, Diesel etc in all stagnant water masses, dirty flowing water, potable water, in ponds etc with q weekly frequency.				
a)	Academic area	Month	12		
b)	Hall area	Month	12		
c)	New Campus Area	Month	12		
d)	Old Campus	Month	12		
<b>2.</b>	<b>Indoor Residential Spray (ADULT MOSQUITO TREATMENT):-</b>				
	Objective of this treatment is to spray insecticide having residual effect to kill mosquito resting, especially on walls.Using newer generation synthetic pyrethroids like Beta cyfluthrin, Deltamethrin 2.5%, Bifenthrin etc having residual effect inside all the closed premises in two months frequency.				
a)	Academic area	2 Month	6		
b)	Hall area	2 Month	6		
c)	New Campus Area	2 Month	6		
d)	Old Campus	2 Month	6		
<b>3.</b>	<b>Misting Operations:-</b>				
	Objective of this treatment is to kill adult mosquitos in outdoor area. The Method applied outdoors and not intended door inside rooms. For this we use newer generation synthetic pyrethroids on a weekly frequency. As with any flying insect, after flying, they must rest. A favourite placeto rest is deep within bushes and shrubbery. The technicians understand this and will treat green areas with a residual product that contains a sticking to adhere the chemical to the plant. This process is done using a ULV machine. (Ultra low volume)				



a)	Academic area	Month	12		
b)	Hall area	Month	12		
c)	New Campus Area	Month	12		
d)	Old Campus	Month	12		
4.	Tharmal Fogging:-				
	Objective of this treatment is to kill adult mosquitos in outdoor area. The method is applied outdoors and not intended for inside rooms. The work is to be carried out by using thermal fogger with generates hot fog. This process kills adult mosquitos during their most active flying times and during resting phase. The treatment needs to be carried out once in a month or more as per requirements or as directed by Engineer-In-Charge. This treatment needs to be carried out in all open areas, within bushes and shrubbery. The treatment needs to be carried out by using king fog (Deltamethrin 1.25 ULV).				
a)	Academic area	Month	12		
b)	Hall area	Month	12		
c)	New Campus Area	Month	12		
d)	Old Campus	Month	12		
e)	External area	Month	12	Total Rs.	