



## TATA MEMORIAL CENTRE

**Advanced Centre For Treatment, Research And Education In Cancer. (ACTREC)**

**Kharghar Node, Navi Mumbai – 410210**

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

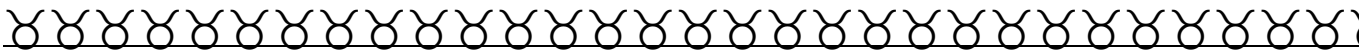
### NAME OF WORK:

**CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND  
MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF  
PLANT AT ACTREC, KHARGHAR,  
NAVI MUMBAI - 410210**

### E-TENDER NOTICE

**No. : TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020**

NAME OF THE AGENCY	



Engineering services, Second Floor, Khanolkar Shodhika, Phone: 3043/2740 5011, 3043/2740 5067,

E. Mail : pghadi@actrec.gov.in, hkelkar@actrec.gov.in, engineering@actrec.gov.in,



**TATA MEMORIAL CENTRE**  
**Advanced Centre For Treatment, Research and Education In Cancer**  
**(ACTREC)**

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY,  
GOVERNMENT OF INDIA

**NAME OF WORK:**

**CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE  
INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR,  
NAVI MUMBAI - 410210**

<b>Tender No:</b>	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020
-------------------	---

**LIST OF DOCUMENTS**

NAME OF THE AGENCY		
Sr. No.	List of Documents	Page No.
<b>Technical Bid. (Hard copy also to be Submitted).</b>		
1	E.M.D. for Rs 9,63,500/-	
2	Facia Page	1
3	List of Documents	2
4	Notice Inviting Tender	4
5	General Instruction	6
6	Acceptance form	10
7	Check List	11
8	Vender Details	13
9	NEFT Details	15
10	Special Conditions of Contract.	16
11	Compliance form-1	26
12	Compliance-2	34
13	Form B-1	35
14	List of Makes	40
15	Annexure 1 ( To be submitted along with tech. bid)	41
16	Annexure 2 ( To be submitted along with tech. bid)	42
17	Annexure 3 ( To be submitted along with tech. bid)	43
18	Annexure 4 ( To be submitted along with tech. bid)	44
19	Annexure 5 ( To be submitted along with tech. bid)	45

20	Annexure 6 ( To be submitted along with tech. bid)	46
21	Annexure 7 ( To be submitted along with tech. bid)	47
22	Book containing Conditions of Contract	80 pages
23	General Condition of contract and specifications.	82 pages
<b>Financial Bid : To be filled ONLINE ONLY</b>		
24	Schedule of Quantity	7 pages

<b>Note:</b>	
1	Hard copy of Technical Bid is to be submitted and endorsed at security main gate before last date of submission and must be signed with stamp/seal on all pages.
2	It may please be noted that both hard copy and soft copy of technical bid are required i.e uploaded version in Tenderwizard and Hard copy submission before due date and time. If agency unable to do so will be disqualified.
3	EMD in original is to be submitted in separate envelop along with hard copy of technical bid.
4	Financial bid to be submitted ONLINE ONLY and hard copy are NOT to be submitted.



**TATA MEMORIAL CENTRE**  
**Advanced Centre For Treatment, Research and Education In Cancer (ACTREC)**

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

**E-TENDER NOTICE.**

NAME OF THE AGENCY		
1	NIT No.	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020
2	Name of work	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210
3	Estimated cost put to tender (Excluding of GST)	Rs - 4,80,00,000/-
4	Earnest Money Deposit (EMD)	EMD of <b>Rs. 9,60,000/-</b> to be submitted in the form of Fixed Deposit Receipt/ DD issued by a Scheduled bank in favour of Accounts Officer, TMC-ACTREC, Payable at Navi Mumbai However the bidders may submit the EMD as follows: i) <b>Rs.9,60,000/-</b> in the form of FDR/DD as prescribed above. or ii) a)50% of EMD Amount i.e, <b>Rs.4,80,000/-</b> in the form of Demand Draft/ Bankers Cheque or Fixed Deposit Receipt as prescribed above and b) Balance amount 50% of EMD Amount i.e,of <b>Rs. 4,80,000/-</b> in the form of Bank Guarantee (BG) issued by a Scheduled Bank drawn in favour of ' Accounts Officer, ACTREC <b>Note: 1) Bank Guarantee should strictly in accordance with the prescribed format otherwise it shall not be accepted.</b> <b>2) EMD in the form of cheque will not be accepted.</b> <b>3) The MSME firms registered in NSIC under PP Policy are exempted from payment of EMD for Supply of goods and services only.</b>
5	Completion period	12 Months (Including Mobilisation period) from date of issue of Work Order
6	i) Performance Guarantee	5% of Tender Value (The successful bidder is to submit the Performance guarantee within prescribed timeline and will be returned without interest on settlement of contractor's final bill and issuance of completion certificate)
	ii) Security Deposit.	2.50% of Tender Value (will be deducted from each running bill and will be returned without interest on successful completion of DLP)
7	Tender Processing Fee	Rs xxx/- in the form of online payment.

8	Warranty and After Sales Service	Works should have 1 year Comprehensive Warranty including operations after completion and handing over of project followed by operation and CMC which will be as quoted in the tender with no escalation for 5 years after warranty/defect liability period. ACTREC reserves the right to exercise the option of AMC/CMC as per perceived needs.
9	Dates of availability of Tender Documents for view and download	From 19-03-2020 time 15:00 Hrs. to 06-04-2020 up to 17:00 Hrs on website <a href="http://www.tenderwizard.com/DAE">www.tenderwizard.com/DAE</a> . Detailed NIT is also available on website <a href="http://www.actrec.gov.in">www.actrec.gov.in</a> for view only.
10	Site visit	Bidder should visit the site to ascertain scope of work before putting up the Bid in working hours with prior intimation. For any queries regarding the same Bidders can contact Engineering Dept, ACTREC. Agency can on 27405011/27405067 - Mr Pratik Ghadi, Engineer 'C'
11	Local (Mumbai/ Navi Mumbai Region ) Address of Bidder	
12	Pre Bid Meeting	<p>A. Pre-Bid query: Till 27-03-2020 on pghadi@actrec.gov.in/hkelkar@actrec.gov.in.</p> <p>B. Pre Bid Meeting will be held on 31-03-2020 ( 11:00 hrs to 13:00 Hrs). Pre Bid meeting will be held at engineering Dept ACTREC</p> <p>C. Post pre-bid query : Till 03-04-2020 on pghadi@actrec.gov.in/hkelkar@actrec.gov.in. Navi Mumbai.</p>

13	Dead Line for submission of Original DD etc. towards Tender EMD. And technical bid hard copy.	On or before <b>09-04-2020 (15:00 Hrs.)</b> in the Office of OIC ES ,2nd floor, Khanolkar Shodhika, ACTREC, Navi Mumbai 410210
14	Last date and time of closing of online submission of tenders:	<b>On or before 09-04-2020 (15:00 Hrs.)</b>
15	Date and time of online opening of Technical Bid.	<b>On 09-04-2020 (15:30 Hrs.)</b>
16	Date of opening of Financial Bids of qualified bidders.	Will be notified at a later date.

Note: 1. Director-ACTREC reserves the right to accept or reject the tender(s) in full or in part, without assigning any reason thereof. Tenders with any condition including conditional rebate shall be rejected forthwith.



## TATA MEMORIAL CENTRE

### Advanced Centre For Treatment, Research and Education In Cancer (ACTREC)

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

<b>Tender No:</b>	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020
-------------------	---

<b>Tender Name:</b>	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210
---------------------	--

#### GENERAL INSTRUCTIONS TO TENDERER

NAME OF THE AGENCY	
<b>Important</b>	<b>THE LOCATION OF WORK TO BE EXECUTED IS CANCER PATIENTS AREA. EXTRA CARE SHALL BE TAKEN WHILE EXECUTING THE WORK. IT IS REQUESTED TO VISIT THE PLACE OF WORK BEFORE SUBMITTING THE TENDER.</b>
1	Tender Documents can be viewed on our web site <a href="http://www.actrec.gov.in">www.actrec.gov.in</a>
2	Conditions of Contract may be downloaded from our website <a href="http://www.actrec.gov.in">www.actrec.gov.in</a> (in case of difficulty please contact on 2740 5011 - Mr. Pratik Ghadi Engineer 'C' - Civil.
3	Registered contractors can only purchase /download & upload tenders documents.
4	Interested agencies may visit <a href="http://www.tenderwizard.com/DAE">www.tenderwizard.com/DAE</a> for registration.
5	Contact for assistance/ clarifications/registration on 09969395522/ 022-25487363 (Shri. Rudresh), e-mail: <a href="mailto:rudresh.tenderwizard@gmail.com">rudresh.tenderwizard@gmail.com</a>
6	Bidders who fulfill the following requirements shall ONLY be eligible to apply. (Joint ventures are not accepted).
7	For further information, please contact on (022) 274050111 during office hours. The existing "SECTION - 1: NOTICE INVITING TENDERS" OF "CONDITIONS AND CLAUSES OF CONTRACT - 2008" (P.5 & 6) in use for 2/3 bid TENDERING has been modified as per the requirement of e-Tendering. The modified VERSION OF THE SAME" is enclosed as CS-13 (Correction Slip - 13 to Conditions and Clauses of Contract -2008).
8	Proof of registration/associations with Government / Semi Government / Corporate Hospitals & having experience in execution of <b>similar nature and magnitude of works.</b>
9	Should have satisfactorily completed the works as mentioned below during the last seven years ending 31.03.2019 and on going works till the date.
10	Three similar works each costing not less than <b>Rs. 1.92 Crores</b> each, or ( 40% of Estimation Cost)
11	Two similar works each costing not less than <b>Rs. 2.88 Crores</b> each, or ( 60% of Estimation Cost)
12	One similar work costing not less than <b>Rs. 3.84 Crores</b> ( 80% of Estimation Cost)
13	<b>Similar works shall mean : Composite work consisting of construction and execution of Sewage treatment plant including electromechanical works, testing and commissioning and excavation and laying of sewerage line which includes allied (contingent to STP work) civil works.</b>

14	The value of executed works shall be brought to the current costing level by enhancing the actual value of work at a simple rate of <b>7% per annum</b> ; calculated from the date of completion to the last date of receipt of tender.
15	Annual turnover as per ITCC or profit & loss statement for the last 5 years (Average annual turn over for the last 3 financial years should be at least <b>Rs. 2.4 Crores</b> , not having incurred any loss in more than 2 years during last 5 years ending 31.03.19 (last Financial year).
16	The bidding capacity shall be equal to or more than the above respective estimated cost. The bidding capacity shall be worked out by following formula
	<b>Bidding capacity = ( A x N x 2) - B</b>
	<b>Where</b>
	A- Maximum value of similar works executed in any one year during last 5 years taking into account as completed as well as works in progress.
	N- Completion of works in years.
	B- Value of existing commitments and ongoing works to be completed during the period of completion of work.
17	Should not have incurred any loss in more than two years during the last five years ending 31st March, 2019.
18	<b>Networth certificate: Networth certificate of minimum 15% of the estimated cost put to tender issued by certified Chartered Accountants (on the format prescribed in form B-1)</b>
19	List of similar works in hand & similar works carried out by them for last 7 years indicating i) Agency for whom executed, ii) Value of work, iii) Completion time as stipulated and actual, or present position of the work.



20	List of construction plant, machinery, equipment, accessories & infrastructure facilities possessed by the agency to complete the work in time.
21	List of Technical staff they possess.
22	CERTIFICATES: (Scanned copy of original certificates to be uploaded)
i)	Performance Certificates
ii)	GST registration certificate
iii)	PAN (Permanent Account Number) Registration
iv)	OEM authorization certificate (For Supply, installation, Service) as may be the case.
V)	Company Registration certificate
23	<b>UNDERTAKING as under:- (Scanned copy to be uploaded at the time of submission of bid).</b>
	I/We undertake and confirm that the contracted works shall not be got executed through sub- contractor on back to back basis. Further that, if such a violation comes to the notice of Director-ACTREC, I/we shall be liable to be debarred & black listed as the case may be for bidding in future. Also if such violation comes to the notice of department before date of start of work, the Engineer in-charge shall be free to forfeit the entire amount of Earnest Money Deposit/Performance Guarantee.
24	The intending bidder must read the terms and conditions as per “SECTION - 1: NOTICE INVITING TENDERS” OF “CONDITIONS AND CLAUSES OF CONTRACT - 2008” carefully. He should only submit his bid if he considers himself eligible and he is in possession of all the documents required. Director-ACTREC reserves the right of Non-consideration of Tender documents of the agencies who are not fulfilling the NIT stipulations and / or having adverse report on the works carried out by them in the past.
25	Information and Instructions for tenderers posted on website shall form basis of of tender document.
26	Hard copies of Technical Bid shall be submitted in ACTREC before due date and time. Hard copies shall include all documents as uploaded online.
27	<b>OBTAINING OF STANDARD DOCUMENTS:</b> In addition to the above, the prospective bidders are required to possess all documents which form part of Tender Documents for this work. The required documents ( Condition of Contract) can be downloaded from the ACTREC’s website (tender section on <a href="http://www.actrec.gov.in">www.actrec.gov.in</a> ). In case the agencies already possess these standard documents with them, the same need not be downloaded / purchased again. Printed books are available at the Engineering Services, TMC-ACTREC, Kharghar, Navi Mumbai- 400 210.
28	The bid can only be submitted after uploading the mandatory scanned documents such as Demand Draft or Pay order or Banker`s Cheque or Fixed Deposit Receipts and Bank Guarantee of any Scheduled Bank towards cost of tender document and EMD in favor of “ACCOUNTS OFFICER, TMC-ACTREC” and Processing Fee in favor of “ITI LIMITED, NEW DELHI” and other documents as specified.
29	Those bidder who are not registered on the website mentioned above, are required to get registered. If needed, they can be imparted training for online bidding process as per details available on the website.
30	The intending bidder must have valid class-III digital signature to submit the bid.
31	On opening date, the bidder can login and see the bid opening process.

32	<b>Certificate of Financial Turn Over:</b> At the time of submission of bid, bidder may upload Undertaking / Certificate from CA mentioning <b>Financial Turnover of last 3 years and</b> including profit & loss statements and further details if required may be asked from the contractor after opening of technical bids. There is no need to upload entire voluminous balance sheet.
33	Bidder must ensure to quote rate of each item. The column meant for quoting rate in figures appears in <b>YELLOW</b> colour and the moment rate is entered, it turns <b>SKY BLUE</b> . In addition to this, while selecting any of the cells a warning appears that <b>if any cell is left blank the same shall be treated as "0"</b> . Therefore, if any cell is left blank and no rate is quoted by the bidder, rate of such item shall be treated as "0" (ZERO). in the schedule of quantities, if rates are not quoted for items or if a firm quotes " NIL/N.A./Not applicable/---/ Leaving blank space etc." charges, the bid shall be treated as unresponsive and will not be considered. <b>DO NOT use vague terms.</b> Insert required information with clear meaning in technical bid & financial bid.
34	The Director-ACTREC reserves the right to accept / reject any prospective application without assigning any reason thereof.
35	Short listing of the bidders shall be subject to thorough verification of their credentials and inspection of works carried out by them, through a Technical Evaluation Committee of experts, constituted by ACTREC
36	<b>IF ANY INFORMATION FURNISHED</b> by the bidder is found to be incorrect at a later stage, they shall be liable to be debarred from tendering / taking up works in TMC.
37	<b>PROSPECTIVE BIDDER SHALL SATISFY THEMSELVES OF FULFILLING ALL THE NIT CRITERIA BEFORE SUBMISSION OF TENDER.</b> Director-ACTREC reserves the right of non consideration of tender of the bidder not fulfilling the stipulated criteria.
38	<b>Any Additional work needs to be executed for completion of work, CPWD DSR 2018 rates will be considered and if the rates are not available then Engineer-incharge may refer the rates of work orders of other central govt. agencies or may obtain quotation from market whichever is lowest quote will be applicable and binding to the contractor.</b>
39	TMC-ACTREC does not guarantee opening of the tender immediately after the closing date and time due to reasons beyond its control and hence tenders can be opened after the due date and time also. It will however will be ensured that no offers are submitted after tender closing date and time. Bidder cannot submit/modify any offer or attach any file to it after closing date and time as stipulated in the tender notice. System does not permit any alternation, modification, deletion of any entry or condition, offered by the tenderer in the e-tender, after closure of the virtual date and time.
40	ACTREC will not be responsible for any kind of technical problem at Bidder's end in case of difficulty in up loading of tender. Bidders are adviced to finish the uploading of tender well before time. No tender will be accepted by ACTREC at later stage that could not be uploaded because of unforeseen technical problems.
41	Bidders who have successfully up loaded the tender documents and forwarded physical (hard) copies of the Technical Bid before due date and time will only be considered. Please note that bidder will have to finish both the activities to proceed further. Otherwise bidders will be disqualified.
42	All papers submitted with the tender should bear the signature and stamp/seal of the bidder on every page.
43	All information in this tender shall be in English only.
44	Rate quoted should be in Indian currency only.

45	Tender containing clerical errors, typographical error/ arthrmelial mistake may be lible to be rejected.
46	All the rates quoted shall be inclusive of all taxes except GST which will be paid extra as applicable.
47	Only one rate shall be offered for the Item. Multiple rates against one items shall be rejected.
48	The bidder shall quote rates which shall remain valid for acceptance by ACTREC for a period of 12 months or stipulated time limit as mentioned in the tender documents.
49	Only lowest offer may be considered for financial negotiations.
50	Performance Gaurantee: Performance Gaurantee will have to be submitted at the rate of 5% of the contract value valid for 2 Months after completion of work to be submitted within 15 days of issue of Letter of Intent.
51	Security Deposit will be deducted @ 2.5% of work order value from the running bills and will be refunded after completion of defect liability period of one Year.
52	Submission of more than one Tender by a particular Tenderer under different names is strictly prohibited. In case it is detected later that this condition has been violated all the tenders submitted by Tenderer would be rejected or cancelled and earnest money or security deposit will be forfeited in addition to such legal action as may be deemed fit and proper.
53	Canvassing in connection with tender/quotation is strictly prohibited.
54	Director-ACTREC reserves right to reject any or all the quotations or allot part of the work to different agencies without assigning any reason.
55	Mode of measurement will be as per the guidelines laid in the Departmental conditions of contract & technical specification.
56	<b>Awarding work order will be strictly as per "L1 criteria"</b>

I have read the Above instructions carefully and understood in right perspeticve.

Date:

Seal and Signature.



## TATA MEMORIAL CENTRE

### ADVANCED CENTRE FOR TREATMENT RESEARCH AND EDUCATION IN CANCER (ACTREC).

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

Tender No:	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020
Name of Work	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210

#### ACCEPTANCE FORM

NAME OF THE AGENCY	
--------------------	--

To,  
The Director,  
Advanced Centre for Treatment, Research & Education in Cancer (ACTREC),  
Tata Memorial Centre,  
Kharghar, Navi Mumbai- 410208.

Tender Ref: **TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020.**

Name of Work: CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC

I/We read the various conditions to tender including general conditions and hereby agree to abide by the said conditions. I/we also agree to keep this tender open for acceptance for a period of 120 (One hundred Twenty) days from the date fixed for opening the same and in default thereof. I/we will be liable for forfeiture of my/our "Security Deposit" to Tata Memorial Centre, ACTREC. I/We will execute the work as per the quoted rates and hereby bind myself/ourselves to execute the work in all respects during the period of contract from the date of issue of letter of acceptance of the tender. I/we also hereby agree to abide DAE general conditions of the contract as amended from time to time and to carry out the work according to the drawings, specifications and special conditions of the contract laid down by ACTREC.

A sum of \_\_\_\_\_ - is hereby forwarded as Earnest Money in the form of D.D/ Bank's P.O. through receipt No. \_\_\_\_\_ dated \_\_\_\_\_ for Rs. \_\_\_\_\_ The full value of Earnest Money shall stand forfeited without prejudice to any other rights to remedies if:-

A) I/we do not execute the contract documents immediately after getting information form ACTREC.

B) I/we do not commence the work within 15 days after issue of the letter including work order to that effect. Until a formal agreement is prepared and executed, acceptance of this tender shall constitute a binding contract between us subject to modifications, as may be mutually agreed between us indicated in the letter of acceptance of my/our offer for this work.

Date:

Seal and Signature.



**TATA MEMORIAL CENTRE**  
**ADVANCED CENTRE FOR TREATMENT RESEARCH AND EDUCATION IN CANCER**  
**(ACTREC).**

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

**CHECK LIST FOR LIST OF DOCUMENTS SUBMITTED**

<b>NIT No.</b>	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020		
<b>NAME OF WORK:</b>	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210		
<b>Name of Agency</b>			
<b>SN</b>	<b>PARTICULARS</b>	<b>REMARKS</b>	
I	Name of the Bidder		
II	Postal address		
III	Contact with STD code		
IV	Fax with STD code		
V	Name of Contact person		
VI	Mobile No.		
VII	e-mail ID		
	BELOW GIVEN DOCUMENTS TO BE SCANNED AND UPLOAD IN THE WEBSITE <a href="http://www.tenderwizard.com/DAE">www.tenderwizard.com/DAE</a> WITHIN THE PERIOD OF SUBMISSION	Details to be fill-up	Scan copy attached "YES" OR "NO"
1	<b>Financial Turn Over Certified by CA</b>		
	2014-15		
	2015-16		
	2016-17		
	2017-18		
	2018-19		
2	<b>Profit &amp; Loss Statement Certified by CA</b>		
	2014-15		
	2015-16		
	2016-17		
	2017-18		
	2018-19		
3	<b>Networth certificate: Networth certificate of minimum 15% of the estimated cost put to tender issued by certified Chartered Accountants (on the format prescribed in form B-1)</b>		
4	List of Similar Works carried out in last 7 years i) Agency for whom execeuted Value of Work ii)	ATTACH SCANNED COPY SEPARATELY	
5	List of similar works in Hand indicating: i)Agency ii) Value of Work iii) Stipulated time of completion/ present position	ATTACH SCANNED COPY SEPARATELY	

	BELOW GIVEN DOCUMENTS TO BE SCANNED AND UPLOAD IN THE WEBSITE <a href="http://www.tenderwizzard.com/DAE">www.tenderwizzard.com/DAE</a> WITHIN THE PERIOD OF SUBMISSION	Details to be fill-up	Scan copy attached "YES" OR "NO"
6	List of Construction Plants and Machinery:	ATTACH SCANNED COPY SEPARATELY	
7	List of Technical Staff	ATTACH SCANNED COPY SEPARATELY	
8	<b>Certificates:</b>		
	i) Registration Certificate if Any,	ATTACH SCANNED COPY SEPARATELY	
	ii) Certificates of Work Experience /Performance certificates	ATTACH SCANNED COPY SEPARATELY	
	iii) Certificates of Registration for GST.	ATTACH SCANNED COPY SEPARATELY	
	iv) PAN (Permanent Account Number) Registration	ATTACH SCANNED COPY SEPARATELY	
9	Undertaking that the eligible similar work(s) have not been executed through another contractor on back to back basis:	ATTACH SCANNED COPY SEPARATELY ON AGENCY'S LETTER HEAD	
10	NEFT towards Cost of Tender Processing Fee	ATTACH SCANNED COPY SEPARATELY	
11	Demand Draft of any scheduled Nationalised Bank towards EMD payable at Kharghar, Navi Mumbai.	ATTACH SCANNED COPY SEPARATELY	
12	Conditions of the Contract Book : To be down loaded from <a href="http://www.tenderwizzard.com/dae/help/documents/tatamemorialcentre/condtions%20of%20contract">www.tenderwizzard.com/dae/help/docu ments/tatamemorialcentre/condtions of contract</a>	SUBMITT SIGNED COPY ALONG WITH TECHNICAL BID	
13	I/WE certified that our TECHNICAL BID is compliant with tender document.		

Date

Seal and Signature.



**TATA MEMORIAL CENTRE**  
**Advanced Centre For Treatment, Research and Education In Cancer (ACTREC)**  
 A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

**Vendor Details**

<b>Tender No:</b>	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020
<b>Tender Name:</b>	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210

Sr No	List of Documents to be scanned & uploaded within the period of bid submission:	Details (to be given mandatorily)
1	Name / Title of the Bidder/ Type of Establishment	
2	We have quoted for all the items in Financial bid in the prescribed format of the Tender documents (say 'Yes/No') (Partial/Incomplete offers are liable for rejection)	
3	Full Address	
4	Name of the person authorized to deal/undertake business for and on behalf of the Bidder	
5	Telephone & Mobile Number	
6	Fax. No.	
7	Email Address	
8	Legal entity of Bidder whether Firm/Society/Company/SSI unit	
9	Establishment Registration Number	
10	Authority with whom Registered	
11	Main Business of the Bidder	
12	Authorized area of Operation in India	
13	Name & Address of Bankers	
14	PAN No. / TAN No.	
15	GST Registration Number:	
16	Networth certificate: Networth certificate of minimum 15% of the estimated cost put to tender issued by certified Chartered Accountants (on the format prescribed in form B-1)	
17	No. of Man power employed by Bidder	
	a) Scientific	
	b) Technical	
	c) Administrative	
	d) Financial	
18	Experience of the Bidder in dealing with the tendered item/works	
19	Performance Certificates / Work Completion Certificates.	
20	QUALIFYING EXPERIENCE ANY ONE OF THE FOLLOWINGS.	
	a) THREE Similar Works costing 40% of 'Tendered Value' i.e. RS. 1.9 Crores	
	b) TWO Similar Works 60% of 'Tendered Value' i.e. Rs 2.88 Crores	
	c) ONE Similar Works 80% of 'Tendered Value' i.e. Rs. 3.84 Crores	
	Similar Works shall be as per the clause 13 of General instructions to tenderers.	
21	Turn over in the last 5 years	
	2014-15	
	2015-16	
	2016-17	
	2017-18	

	2018-19	
22	Average Turn Over for Last 3 Years, certified by CA.	
23	Details of work orders in the last 3 years, amount, Name of Authority, Completion Period etc (separate sheet)	
24	List of plant & machinery of bidder (attach separate sheet)	
25	Demand Draft/BG/FDR Number for EMD, Amount, Date, Bank, etc	
26	There are no deviations of specification/type etc in any of the items of Financial Bid. (Deviations, if any, shall be mentioned in Technical Bid. The agency has to quote separately for the those items and enclose with Financial Bid)	

Certified that the above information is correct & true to the best of my knowledge and belief. Nothing has been concealed and fabricated and in case any information is found incorrect. I, the under signatory will be personally responsible.

**Date**

**Signature**

Name of authorized person for bidder with seal





**TATA MEMORIAL CENTRE**  
**Advanced Centre For Treatment, Research and Education In Cancer (ACTREC)**  
 A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

**NEFT FORM**

APPLICATION FORM FOR DEPOSITING PAYMENT AGAINST BILLS IN BANK ACCOUNT BY ELECTRONIC		
1	Name of the Bidder	
2	Bidder Address & Other Particulars	
3	PAN NO.	
4	GST NO.	
5	Mobile No.	
6	Email ID	
7	Account Holder's Name (Title of the Account)	
8	Bank Account No.	
9	Bank Name, Branch & Address	
10	9-Digit MICR code of the bank	
11	Account type (CURRENT)	
12	IFSC Code (attach xerox copy of cheque)	

Certified that the particulars furnished above are correct as per our records.

\_\_\_\_\_  
 Signature of the authorised official from the bank.

**Bank stamp :**

**Date :**

**Note :** Xerox copy of cheque may be attached, without which the form will not be accepted.



**TATA MEMORIAL CENTRE  
ADVANCED CENTRE FOR TREATMENT RESEARCH AND EDUCATION IN  
CANCER (ACTREC).**

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

<b>Tender No:</b>	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020
<b>Tender Name:</b>	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210

**SPECIAL CONDITIONS OF CONTRACT**

NAME OF THE AGENCY	
<b>1</b>	<b><u>ELIGIBILITY CRITERIA:</u></b>
a)	The Bidder should be a Manufacturer / Indian Subsidiary of Original Equipment Manufacturer (OEM) / an authorized agent of OEM for minimum three years with a legal status in India. It must be noted that the tenderer should not have been blacklisted by any Government Agency/Institutions of local self Government / Public Sector in India under any contractual relation with them or facing process of penal action as such on complaints of quality. Director, ACTREC reserves the right for insisting upon submission of Satisfactory Performance Certificate issued by any such agency.
b)	There shall be a screening/verification committee appointed by Director ACTREC to examine the list of documents and to verify credibility of the tenderer based on the performance certificate issued/site visit and desirable as per terms & conditions attached to the Tender and to report in details on the eligibility of tenderers for further examination to the competent authority. The Tenderers are required to produce the original documents for verification if required for the screening/verification committee.
c)	Tenderer who carried out similar nature works shall mean : composite work consisting of construction and execution of Sewage treatment plant including electromechanical works and excavation and laying of sewerage line. Moreover it is stipulated that cost of construction of Sewage treatment plant and Electromechanical works should be minimum 70% of total cost of project.
d)	Awarding work order will be strictly as per "L1 criteria" . Order for the scope of operations and CMC will be issued at later stage.
e)	Bidders should have their office / technical support team in the vicinity of Navi Mumbai/Mumbai area.(MMRD)
f)	Competent Authority reserves right to accept or reject the offer in whole or in part and award the work in whole or in part, as per norms/policies accepted by the centre.

2	<b><u>Scope of Work:</u></b>
a)	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210
b)	Detailed Scope shall be as mentioned in the General Conditions of Contract and as per the technical specification document which are binding to the contractor.
c)	All related work Electrical, mechanical, Electrical and Civil including Piping are part of total work and contractor has to ensure completion of all the components so that the project is completed as
d)	Technical specification as mentioned in financial bid/BOQ shall be followed stringently.
e)	Transportation of related materials from the factory/ customs (if imported) to ACTREC, Kharghar installation site , unloading, keeping the same at site appropriately for execution and installation thereafter.
f)	Bidder to give 1 year comprehensive warrantee after completion and handover of project. and 5 years operations and CMC for the system after defect liability period.i.e.Agency to provide operation services and maintenance support during defect liability period free of cost including provision of spare parts.
g)	All the features/functionalities must be shown and tested before completion certificate is issued for settlement of final payment. Bill will be settled as per actual measurement.
h)	ACTREC is a running institution which includes hospital activities etc. hence, Bidder should appoint qualified and experienced project manager to schedule and implement the project with least disturbance to ongoing works/patients and their relatives.
i)	Bidder should submit all the necessary catalogues, Brochures , as laid drawings/schematic, test reports, certificates, undertakings etc. as required before settling of payment. All liasoning work to obtain NOC/CC/OC approval, license etc. from related authorities if required statutorily.
j)	Bidder should provide training to Engineering for operation & maintenance. Operational training to ACTREC staff is to be given in ACTREC itself.
k)	Material delivery may be done at sites accordingly. Once the order is issued, bidder to contact respective engineer-in-charge for administrative activities, challans, gate pass, submission of bills, any other site related activities etc.
l)	During the execution process damage on ACTREC property shall be repaired by the contractor without any additional cost.

m)	Bidder must be capable to handle this turnkey job that includes related civil works for tank, Supply and installation of STP plant and related civil, electrical and mechanical work with desired functionality and pipeline work of sewerage line.
n)	Schematic/SLD/block or conceptual Dia/layout/GA drawing to be prepared by the bidder. Approval must be sought on the drawings before actual commencement of work along with plan of execution.
o)	Pumps and motors and all electromechanical items plant inspection shall be done at factory/manufacturer site by the ACTREC Engineer.
2.1	<b>Inspection &amp; Test:</b>
2.11	The Purchaser shall have the right to inspect and/or test the equipment for conformity to the Contract Specifications
2.12	In case any inspected or tested equipments fail to conform to the specifications, the Purchaser may reject them and the supplier shall either replace the rejected equipments or make all alterations necessary to meet specification requirements free of cost to the Purchaser. The purchaser is open to charge any penalty in this regard.
2.13	the supplier shall provide installation and standard tests for the individual equipment before the delivery of the system at manufacturers site as per clause 19 of Section V of technical specifications.
2.14	The supplier shall test each individual equipment and the complete system after installation at site and prepare a test report. This shall be compared with the factory test report to ensure that there is no deterioration in the equipment parameters during storage, transportation and installation.
2.15	Leaflets, equipment manuals (hard copy, Compact Disk, DVD etc.) and literature should be attached for ready references along with complete documentation of all the measurements conducted during installation period which shall be submitted by the supplier for future reference.
2.16	The technical problems faced during installation, testing and commissioning period and their solutions shall be submitted by the supplier at the time of handing over the completed works.
2.17	For the purpose of taking over the equipment/system supplied pursuant to this contract, an acceptance test shall be carried out at the Purchaser/Consignees destination site. The equipment which meets the acceptance test shall only be accepted by the Purchaser.
2.18	(a) Acceptance Test at site shall be conducted of individual equipment and complete system to ensure that individual equipment and complete system meets the technical specifications and other operational and technical requirements of tender
2.19	(b) The Purchaser shall have the right to reject any individual equipment or complete system, if in its opinion the same does not meet technical specifications, operational or technical requirements. The decision of the purchaser in this regard shall be final
2.2	(c) The delivery, installation or commissioning shall not be deemed to have been completed unless all the equipments and systems are accepted by the purchaser

2.21	Before the equipment is taken over by the Purchaser/Consignee, the Supplier shall provide manuals of the equipment/systems. This shall include the following: i) System Interface Drawings, Wiring diagrams ii) System Interconnection and Block diagrams iii) User Operation Manuals iv) Equipment Maintenance Manuals
2.22	All Quality certificates, test Certificate, Declaration of Conformity with all relevant documents have to be submitted at the time of submission of the tender.
2.23	Third party validation for complete system from authorised preferable third party vendor will be mandatory and in the scope of vendor. All test shall be in the scope of bidder. Preferable TPIs are TUV Nord, Lloyds, BVIL. Cost and risk of such test shall be considered by the contractor no extra payment will be made.
2.3	<b>Operation and Maintenance:</b>
2.31	The Bidder will undertake that supplies of necessary maintenance equipment and spare parts will be made available for all items/equipments and the complete system for at least ten years on a continuing basis. However, this does not relieve the supplier of any warranty obligations under the Contract
2.32	The Bidder shall include in his tender or separately, the details of essential spares, their quantity and unit prices as per schedule of requirements. Detailed explanation to confirm that quantity of spares quoted as per requirement of this clause shall be given.
2.33	In addition to the essential spares, Bidder shall indicate additional recommended quantities of spares for efficient maintenance of the equipment and the systems for a period of 10 years, after the completion of warranty period of 1 year from virtual completion date, to ensure that the quality and reliability objective is achieved. The contractor should also ensure that spare parts are available for electromechanical items (items listed in PART B of financial bid) for a period of 10 years from completion of operation and maintenance of 5 years excluding warranty. The details on which unit price and the total cost or recommended spares is based shall be included in the tender. However, the cost of such recommended spares shall not be considered for tender evaluation.

2.34	<p>General Terms and conditions for Operation and Maintenance:</p> <ol style="list-style-type: none"> <li>1. Response time on complaint: Within 24 Hours.</li> <li>2. Replacement of spare parts: Max. 3 Days.</li> <li>3. Payment terms: Monthly basis after completion of period</li> <li>4. Reports to be submitted.</li> <li>5. Visits for trouble shooting, fault detection or visit under any such circumstances are not chargeable. Agency will have to make visit as per requirement without additional charges.</li> <li>6. No additional charges towards fault detection or on call visits, replacement of spare parts etc. Charges for spare parts will be settled separately. Service shall be available for 24 x 7. In case agency fails to provide major breakdown services penalty will be applicable at the rate of Rs. 10000/- per day basis. (24 Hrs. from the complaint logged.) Agency to provide official 24 Hr number to lodge a complaint.</li> <li>7. However Engineer-in-charge at his own discretion may allot the work to other agency and deduct expenditure as applicable from bill of contractor after a period of 3 days for replacement of spare parts and 1 day for any other services contingent to the terms and condition of contract. This is in addition to the penalty imposed as per this clause.</li> </ol>
2.35	The payment terms for Operation and maintenance are as per the General conditions of contract.
2.4	Manhole to Manhole gravity flow and leakage testing of pipes to be done for at least 24Hrs as per the instruction of Engineer incharge and any defects and leakages to be rectified at no extra cost.
2.5	After water proofing of tanks, test shall be conducted to identify any leakage and same to be addressed considering all the remedial measures including but not limited to application of micro concrete or polymer modified mortar as per the instruction of engineer incharge.

<b>3</b>	<b><u>PRICE BID</u></b>
a)	The tenderer should quote the <b>price exclusive of all taxes and levies</b> of the each items on the Schedule of Quantity enclosed with the tender documents and signature & stamp thereon each page, in separate sealed cover, super scribing name of work indicating 'PRICE BID'.( Price bid submitted other than above form will be rejected).Partial/incomplete offers are liable for rejection as the entire work is considered as one work and L1 will be decided by adding rates/amounts quoted for entire items of Schedule of Quantity as a composite work. If the tenderer does not qualify himself in the technical bid, the price bid offered will not be entertained. In case of unsuccessful bidders in the technical bid, price bid will not be opened and would be returned (if required). Price Bid is only in the form of ON LINE version.
b)	in the schedule of quantities, if rates are not quoted for items or if a firm quotes " NIL/N.A./Not applicable/----/ Leaving blank space etc." charges, the bid shall be treated as unresponsive and will not be considered.
c)	Validity of rates: 180 Days from the opening of the tender.
d)	Defect Liability Period: 1 Year comprehensive warranty after completion and handing over of project.
e)	Stipulated time for completion of work : 12 Months.
<b>4</b>	<b><u>LIQUIDITED DAMAGE</u></b>
a)	Successful tenderer will have to commence/execute the work as per the order placed by email/soft copy/LOI/Work order within the stipulated time period mentioned in the order. In failure to do so, the performance security submitted by the firm will be forfeited. In the event of the contractor fail to comply with conditions of this contract, he shall be liable to pay a <b>compensation for non commitment of work as per order or for the delay an amount equal to 1.0% per month delay to be computed on per day basis, provided that the entire amount of compensation to be paid shall not exceed 10% of the estimated cost of the work.</b> If the work is not completed within the stipulated time period as mentioned in the work order or inferior nature of work, the engineer in-charge has the right to terminate the whole work or part and get the work done from other agency at the risk and cost of tenderer and access money will be recovered from any dues. Liquidated damage can be recovered from EMD, Performance Security, Security Deposit or running bills of the Tenderer. Extension in delivery of work will not be given except in exceptional circumstances. The defaulting tenderer will be debarred from participant of any tender of ACTREC.

<b>5</b>	<b><u>ARBITRATION</u></b>
a)	In the event of any dispute arising between ACTREC and the contractor in any matter covered by this contract or arising directly or indirectly there from or connected or concerned with the said contract in any manner of the implementation of any terms and conditions of the said contract, the matter shall be referred to the Director, ACTREC who may himself act as sole arbitrator or may name as sole arbitrator an officer of ACTREC/TMH notwithstanding the fact that such officer has been directly or indirectly associated with this contract and the provisions of the Indian Arbitration Conciliation Act, 1996 shall apply to such arbitration. The contractor expressly agrees that the arbitration proceedings shall be held at MUMBAI/NAVI MUMBAI.
<b>6</b>	<b><u>DIRECTOR-ACTREC/THE TENDER COMMITTEE / TENDERING AUTHORITY / UNDERSIGNED RESERVE THE RIGHT:</u></b>
a)	To reject any / or all the Tenders at any stage without assigning any reason there of and not accept the lowest Tenders.
b)	To invite fresh offers from the open market or negotiate with other tenderers quoting higher rate to come down to the lowest rate of the item offered by the competitors in the tenders.
c)	To procure any item of the tender directly from State / Central govt. Undertaking at government rate even if a tender of other parties for the same item has been offered / accepted / approved.
d)	To reject abnormally low price of an item quoted by the tenderer in the Tender with some malafide intention.
e)	Officer authorised on behalf of the Director-TMC does not bind himself/herself to accept the lowest or any other offer & reserve the right to cancel, reduce or split the contract on more than one source without assigning any reason for such action.
f)	DIRECTOR-TMC reserves right to accept the tender in full or part with out assigning any reason.
<b>7</b>	<b><u>RISK PURCHASE</u></b>
a)	In the event of failure to execute the contract to the satisfaction of the engineer in-charge he has the reserves the right:
b)	To reject any part of the contract executed and withhold payment for such portion of the contract till such time the defects are rectified to the satisfaction of the Engineer In-charge.
c)	To terminate the contract by giving 2 weeks notice in writing without assigning any reason and to get the contract executed by other agency at the risk and cost of the contractor.



<b>8</b>	<b><u>GENERAL LIEN</u></b>
a)	Whenever under this contract any sum of money is recoverable from and payable by the contractor, ACTREC shall be entitled to recover such sum by appropriating in part or in whole the security deposit of the contractor, if a security is taken from the contractor. In the event of the security being insufficient or if no security has been taken from the contractor, the balance or the sum recoverable, as may be shall be deducted from any sum duo to the contractor or which at any time thereafter may become due to the contractor under this or any other contract with the ACTREC. Should this sum be not sufficient to cover the full amount recoverable, the contractor shall pay to the ACTREC on demand the remaining balance due.
<b>9</b>	<b><u>RECTIFICATION OF WORK/REPLACEMENT OF DEFECTIVE SUPPLY</u></b>
a)	In any supply item or any part of work is found defective or fails to meet the requirements of the contract before it is accepted, the ACTREC shall give the contractor a notice setting forth details of such defects or failures and the contractor shall forthwith arrange to set right the defective work or replace the defective supply by the good one to make it comply with the requirements of the contract. This in any case shall be completed within a period not exceeding one month from the date of the initial report pointing out the defects. The replacement or rectification shall be made at site by the contractor at free of cost. Should the contractor fail to do the needful within this stipulated time frame, ACTREC reserves the right to reject the work/equipment in full or in part and get it replaced at the cost of the contractor. The cost of any such replacement made by the ACTREC shall be deducted from the amount payable to the contractor against this work order.
<b>10</b>	<b><u>TERMINATION FOR DEFAULT</u></b>
a)	ACTREC, may without prejudice to any other remedy for breach of contract, by written notice of default, sent to the contractor, for termination of this contract in whole or in part;
b)	If the bidder fails to deliver any or all the work within the time period (s) specified in the contract, or any extension thereof granted by ACTREC.
c)	If the bidder fails to perform any other obligation(s) under the contract.
d)	If the bidder in either of the above circumstances, does not remedy his failure within a period of 15 days (or such longer period as ACTREC may authorize in writing) after receipt of the default notice from ACTREC on a notice period of 30 days.
e)	In the event of ACTREC terminate the contract in whole or in part pursuant to above para the ACTREC may execute the work upon such term and in such manner as it deems appropriate work similar to those undelivered and bidder shall be liable to ACTREC for any excess cost for such similar work. However, the bidder shall continue the performance of the contract to the extent not terminated.

<b>11</b>	<b><u>ADDITIONAL OR EXTRA WORK</u></b>
a)	ACTREC reserve the right to place extra items other than schedule quantity for completion of given work order. In such cases the Engineer In-charge calculate the expenditure for supply and execution of such work by taking quotation from local agency and adding applicable levies, labor charges, incidental expenditure, profit etc. as per the normal procedure to arrive suitable rate. He may also obtain the expenditure of the extra item either from CPWD manual or from the work order executed for government organization for similar work in the recent past. If the quantity of work is exceeding more than 10%, Engineer-in-Charge should be informed the same and execution should be done only after prior approval.
b)	ACTREC also has the reserve to modify the quantity of items in work order to add/reduce/cancel as per the site requirements. Such additional quantity will be settled at the same rate and terms & conditions of the order on completion of work after taking final joint measurement.
c)	Bidder to inform in advance before executing additional/substitute quantity. Prior approval for the same should be obtained from ACTREC before execution.
<b>12</b>	<b><u>PAYMENT TERMS</u></b>
a)	100% payment on execution or on pro rata basis of each particular item as listed in Part A of financial bid.
c)	60% against delivery and satisfactory certification by engineer-In charge. (the contractor has to forward their bill enclosing the challans duly endorsed at security gate with receiver signature) for each particular item as listed in Part B of financial bid.
d)	20% against installation, Testing & commissioning with certification by Engineer In- Charge for each particular item as listed in Part B of financial bid.
e)	20% against completion/handover of project and submission of NOC/License/Approval certificates and handover of the system. (After all the parameters & functionalities has been checked and shown & confirmed with Dept.) for each particular item as listed in Part B of financial bid.
i)	Payment will be done as per actual measurement.
j)	Payment term other than above mentioned will not be accepted.
<b>13</b>	<b><u>FAIR WAGES</u></b>
	The bidder shall pay the monthly wages to the labours employed by him as per the minimum wages enforced by Labor Enforcement Authority of India on time to time in front of an ACTREC official, together with ESIC, Provident Fund, and Bonus etc. as applicable. The contractor will forward his bills for the work executed by him by attaching copies of salary slip signed by the worker for the current/previous month for early settlement of his bills.

	<b><u>Other Special conditions (This conditions overrule other condition specified anywhere in contract as applicable)</u></b>
1	The work to be carried out as per the instruction of Engineer-incharge
2	Material delivery challans to be submitted along with running and final bills
3	Deployed workers must have company Identity cards and should follow all safety as per the labour laws.
4	Material to be used of approved make with ISI mark as mentioned in schedule of rate and as per the instruction of Engineer-incharge.
5	Space for storage of material during execution of work will be provided if available in the ACTREC Premises to the contractor. But risk of theft/damage is the contractor's risk and TMH/ACTREC is not responsible for any theft/damage/fire.
6	<b>During execution of works, contractor has to take adequate care of ongoing patients care services.</b>
7	<b>No mobilisation or secured advance will be paid to contractor.</b>
8	The Contractor should depute Supervisor/Engineer at site during execution of works on each and every day and night as per the instructions given by Engineer - in charge.
9	If the contractor fails to clear the debris from premises then fine of Rs 10,000/truck will be charged and recovered.
10	Agency to bring his manpower to execute the works irrespective of quantity of work allotted.
11	Engineer incharge may prioritise one type of work over the other and the contractor has to abide as per the requirements.
12	Escalation is not applicable since the time period is less than 18 months for execution. Quoted/Negotiated Prices will remain firm for entire contractual period including the period for Comprehensive Operation and Maintenance.

I have read the Above instructions carefully and understood in right perspective and agreed.

Date:

Seal and Signature.



**TATA MEMORIAL CENTRE**  
**ADVANCED CENTRE FOR TREATMENT RESEARCH AND EDUCATION IN CANCER (ACTREC).**

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

**Compliance form-1**

<b>Tender No.</b>	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020
<b>Name of work:</b>	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210

<b>Name of the Vendor</b>				
<b>Item No.</b>	<b>Description</b>	<b>Offered List of Make</b>	<b>We have read all item specification (Yes/No)</b>	<b>we have quoted against each item.(Yes/No)</b>
<b>A1</b>	Excavation mechanically (using excavators like JCB /Poclain/with bucket) in all types of soil, including murrum, soft rock for foundations, wall, columns, plinth beams, basement, raft, ducts, trenches, underground sumps, septic tanks, soak well including shoring and strutting, bailing out water/pumping off water if required, removing and stacking or Disposing simultaneously the excavated soil anywhere within the ACTREC Campus and/or spreading soils in layers for site development. All complete as per specification and as directed by the Engineer-incharge.			
A1a	For depth upto 1.5m.			
A1b	For depth exceeding 1.5 upto 3m.			
A1c	For depth exceeding 3m. upto 4.5m.			
<b>A2</b>	Earth work in excavation by mechanical means in hard rock for foundations, wall, columns, plinth beams, basement, raft, ducts, trenches, underground sumps, septic tanks, soak well including shoring and strutting, bailing out water/pumping off water if required, removing and stacking or disposing simultaneously the excavated stuff anywhere within the ACTREC Campus and/or spreading soils in layers for site development. All complete as per specification and as directed by the Engineer-incharge. Blasting prohibited.			
A2a	For depth exceeding upto 3m.			
A2b	For depth exceeding 3m. upto 4.5m.			
A2c	For depth exceeding 4.5m. upto 7.5m.			
<b>A3</b>	Filling in plinth & superstructure under Floors/ Roads with selected excavated earth available within site, in layers of 15 cms. to 20 cms. Including watering, ramming consolidating to 15cm thick or so , by manually compaction or using mechanical plate compactor / vibro-roller etc (manual compaction will be permitted under special condition and as per engineer written instruction ), finished to desire levels all as per drawings to get MPD of 95% as per detailed drawings. Including cost of transportation anywhere within site. all complete as per specification or as directed. ( Note : Each Tank plinth area to have at least one set of test of MPD conducted irrespective of plinth area or for every 500 sqm of compacted area and part there of ).			
<b>A4</b>	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth up to 30 cm measured at a height of 1 m above ground level and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared.			
<b>A5</b>	Providing and laying in position ready mixed M15 grade plain cement concrete, with cement content as per approved design mix and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for plain cement concrete work, including pumping of R.M.C. from transit mixer to site of laying and curing, including the cost of centering, scaffolding, shuttering and finishing, including cost of curing, admixtures in recommended proportions as per IS : 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineerin-charge. (M15 grade at all locations upto plinth level)			
<b>A6</b>	Providing and laying in position ready mixed M-25 grade concrete for reinforced cement concrete work, cement content as per approved design mix, and manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work, including pumping of R.M.C. from transit mixer to site of laying, including the cost of centering, scaffolding, shuttering, finishing, including cost of admixtures in recommended proportions as per IS : 9103 to accelerate / retard setting of concrete, improve workability without impairing strength and durability and including supply and installation of PVC water stopper as per direction of the Engineer - in - charge.			
A7	All works upto plinth level			
A8	All works above plinth level			

Item No.	Description	Offered List of Make	We have read all item specification (Yes/No)	we have quoted against each item.(Yes/No)
A9	Providing and Fixing of reinforcement steel including material fabricating, trasporting, loading, unloading, storing on raised steel rack platform, handling, straightening, cutting to length, bending, making hooked ends, hoisting into place at all levels and heights and binding in position (including Providing & using 18 gauge binding wire) reinforcement bars of all diameters (IS 1786 ,Fe 500 of all grade) to shape and size as per approved bar bending schedules and structural drgs. for all kinds of works at all heights & depths as specified including cost of approved quality PVC/Concrete cover blocks, spacers, chairs at regular interval as per relevant IS code and such other works that are required to make it complete. Quantity of steel as per drawing, approved BBS and with authorized overlaps only shall be measured and paid for. Quantity for chairs and spacer bars will not be paid. The measurement shall be as per IS 1200 and reinforcement hooks and bends shall comply with the requirement of IS 2502 unless clearly specified above.			
A10	Providing box type waterproofing below base slab of Underground Water Tank including preparation of surface as required of following operations: a) Preparation of surface by cleaning, leveling etc. b) 20 mm thick cement sand mortar mixed with water proofing powder, 4% by weight of cement shall be laid on PCC and 20 mm graded aggregate free from impurities shall be spread on the floor. It shall be cured for 3 days. c) Provide insert sockets and pipes to release the sub soil water pressure. d) Then 18-20 mm thick rough kota or similar stones of approximate 600 x 600 mm in size shall be laid flat and joined with cement-sand mortar. This shall project 300 mm all around RCC raft. The stones shall be hard tough and free from cracks etc. e) Then the surface shall be screeded with cement-sand mortar and finished smooth. f) RCC raft, walls or masonry shall be constructed as designed. g) The sockets / pipes are grouted with pressure. h) Columns or any support etc. coming out of raft shall be sealed with polysulphide sealant at PCC level and at top of raft.			
A11	Providing box type waterproofing on external face of Underground Water Tank side walls upto plinth level including preparation of surface as required of following operations: a) About 20 mm thick stone slabs shall be fixed with cement sand grout 1:4 (1 cement : 4 sand). Grout mixed with water proofing compound 4% by weight by cement and joint well grouted and cured. b) External surface shall be plastered 20 mm thick with cement sand mortar 1:4 (1 cement : 4 sand) mixed with 4% by weight of water proof compound and in ratio roughened. c) Vertical joints shall be well cleaned and grouted to make sure it forms a continuous treatment. If required, joint may be treated with sealant. d) Treatment shall be taken about 300 mm above finished level. e) All pipes etc. coming out of walls shall be sealed by grouting with sealant.			
A12	Dry stone rubble soling/pitching of 150 mm to 230mm size shall be approved quality, hard, free from cracks, durable, preferably black trap. Rubble shall be laid on leveled base close to give compact, surface. If base is not properly leveled same will have to be done without any extra cost. Voids in the joints shall be filled with selected chips. A sample of paving shall be prepared and got approved before proceeding ahead. After stones are laid with thickness of 200mm and packed with chips, sand shall be spread and watered to fill remaining voids. Sand shall be allowed to go into joints till final packing is obtained. Rate quoted shall be for materials, labour, watering, leveling site, before paving, consolidating etc. complete.			
A13	Demolition of Existing Storm Water drain of approximate length 50m.			
A14	Dismantling of cement concrete by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials anywhere inside the campus as per directions of Engineer incharge, stacking serviceable and unserviceable materials separately etc. complete.			
A15	Dismantling of cement concrete by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials outside the campus including the cost of royalty, loading at site, transportation, unloading, spreading, etc. complete. Only the concrete quantity dismantled will be measured. Including cost of royalty charges.			
A16	Providing fixing FRP Cover with load carrying capacity of 5 tonnes or more over the tank as per specified size. Making the cover operatable in a manner of open/close with necessary fixtures & fittings. The opening area to be measured. The drawing to be approved by EIC.			

Item No.	Description	Offered List of Make	We have read all item specification (Yes/No)	we have quoted against each item.(Yes/No)
A17	Providing and constructing AAC Light weight Block Masonary with 75mm/100mm/150mm/200mm/300mm thick at all levels in by using approved block laying polymer modified adhesive mortar, including 75mm thick Patli / Stiffeners of M-15 Grade at every 1000mm with 2 nos 8mm steel bars all to be considered in the cost and no separate measurement will be done for steel and patli, also including scaffolding, racking out joints, curing with curing compound etc. in line, level and plumb, All complete as per specification for all height of floor or as directed etc. ( Rate includes the cost of stiffners hoop ). (No holes for scaffolding will be permitted into the blockwork)			
A18	Providing and applying Internal 12 mm to 15mm thick plain/smooth cement plaster finish at all heights and below highest plinth level in cement mortar using Ready mix plaster as per manufacturer specification including 150mm PVC Chicken mesh on both sides of joint, making pattas, bends, grooves, over any bricks or concrete surfaces in single layer as specified smooth finished including preparing the surfaces close hacking of concrete surfaces, curing, double scaffolding to the walls, beams, stair, column, pardis, bends, moulds, pattas, grooves etc. in line, level and plumb, all complete as per specification or as directed. (No holes for scaffolding will be permitted into the blockwork )			
A19	Providing and applying External 18 mm thick sand face cement plaster in two coats at all heights below and above highest plinth level with first coat of 12 mm thickness with cement mortar, using readymix plaster mixed as per manufacturer specifications including roughening by cross hatch line to receive top coat of 6 mm thickness with cement mortar and 10-12mm thick single coat plaster under chajja soffit, including 150mm PVC Chicken mesh on both sides of joint, recron fibre, mixing with additional waterproofing compounds including making drip moulds, bends, pattas, grooves (grooves have to be finish with neat cement mixed with waterproofing compound) as per drawing/ details,including double scaffolding , curing with curing compound etc. in line, level and plumb, all complete as per specification or as directed. (No holes for scaffolding will be permitted into the brickwork)			
A20	Providing and Applying and Levelling the existing surface with Birla White Cement based / Coloured waterproof Putti of average thickness of 2 mm of approved thickness, brand and manufacture, over the plastered wall surface to prepare the surface even and smooth ready for painting purpose etc complete ( Rate inclusive of Scaffolding Matetrial, Labour Charges) Etc.			
A21	Providing and laying cement water-proofing (including grouting) of average 115 mm thick for balcony, terrace, returns ( watta ), khurras etc at all the levels including grouting with layer of 20 mm thick cement mortar 1:3 (1 part cement : 3 part coarse sand) mixed with water proofing compound of approved make and as specified by the manufacturer, laying brick bats of required size impregnating in to the base mortar bed with gap of 12 mm all around according to slope, level and curing the same, the gaps around brick bats filled with cement mortar 1:3 (1 part cement : 3 part coarse sand) mixed with waterproofing compound, 15 to 20 mm water proof screed layer above brick bats and finishing top with neat cement @ 2.75 Kg/Sq.M. making square 300 x 300 mm chequered finish marks with string, finishing around rain water outlets, curing etc. in line, level and plumb / slope, complete including furnishing of guarantee for 10 years. The work should be carried out through an approved specialised agency like India Water Proofing Co. or equivalent. (note: The above rates shall be inclusive of Providing and mixing of waterproofing compound as per manufacturer's specifications) (Mode of Measurement : Only the plan area will be measured and No additional measurements will be done for wattas, khurras etc)			
A22	Kota stone slab flooring over 20 mm (Average) thick base laid over and jointed with grey cement slurry mixed with pigment to match the shade of the slab, including rubbing and polishing complete with base of cement mortar 1 : 4 (1 cement : 4 coarse sand) as directed by Engineer incharge KOTA STONE 25mm thick.			
A23	FLUSH SHUTTERProviding & fixing in position/flush door of shutters block board solid core internally lipped bonded with water proof type synthetic resin hot pressed with marine ply finished on both faces including prov. And fixing teak wood 20mm thick lipping on all sides fixing heavy duty approved make 4 levers mortice lock with pair of handle of approvd make & quality brass/S.S . fittings such as hinges, tower bolts, of approved make fixing fixtures locking arrangements applying one coat of approved wood primer etc. and shutter should be 35 mm thick all complete also including granite frame of approved colour as specified and directed by Engineer-In-Charge.			

Item No.	Description	Offered List of Make	We have read all item specification (Yes/No)	we have quoted against each item.(Yes/No)
A24	ALUMINUM OPENABLE WINDOWSP Providing & fixing in position aluminium openable window shutter fully glazed / aluminium grills with using 5.5mm thick glass sheet of approved make and quality plain / frusted / bajari glass of approved make Triveni / Shri Vallabh / J / A/ G/ pilkinten fixed with aluminium beeding channels with two way rubber gasket / PVC lining to ensure water tightness and Nos rattling for aluminium grill fixing with Fchannel beeding using satin finish aNosdized 15 micron jindaL sections for shutters and frame of required size and section including using aluminium / S.S. hinges of required size of Archies make, tower bolt of required size of Archies make , C type alum handle for shutter of Archies make and other necessary hardware as per requirement etc.with granite frame Openable windows with glass shutters complete all as per specified and directed by Engineer in charge.			
A25	Providing and fixing P.V.C. pipes 100mm dia for pipes having wall thickness of 2.2 to 2.7 mm confirming to I.S. 13592- 1992 including proper rainwater receiving recess with P.V.C. plug, bend, necessary fittings, such as, offsets, shoes, including fixing the pipe on wall using approved wooden cleats projecting 25mm to 40mm from face of wall a fixing with clips of approved quality and number ,filing the joint using rubber gasket with solvent cement and properly resting the shoe of pipes on C.C. or masonry blocks, including necessary scaffolding and maintenance for 3 yrs for any leakages or dislocations of pipes. All the P.V.C. fittings and additional 2 piece socket clips shall be got approved from engineer in charge etc. complete. (Pipes to laid in Shaft for Risers- 6kg for AC drain & Vent pipe )			
A26	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 600mm diameter in proper line, level and slope including providing and fixing collars with stiff mixture of cement mortar 1:2 and curing and complete hydrotesting of pipes etc. complete.			
A27	Providing and laying cement concrete pipe of IS 458:2003 NP-2 class of 300mm diameter in proper line, level and slope including providing and fixing collars with stiff mixture of cement mortar 1:2 and curing etc. complete.			
A28	Providing and constructing Brick Masonry Inspection Chamber 90cm x 45cm x 90cm including 1:4:8 cement concrete foundation 1:2:4 cement concrete channels half round G.S.W.pipes, Brick Masonry, plastering from inside and outside with 1:3 Cement mortar and C.I. lid cover of 75 kg with lid and frame fixed in cement concrete.			
A29	Constructing brick masonry circular type manhole 0.91 m internal dia at bottom and 0.56m dia at top in cement mortar 1:4 (1 cement :4 coarse sand), in side cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 mix (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size), and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :0.91 m deep with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg., fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation and foot rests to be paid separately) including 12mm thick cement plaster at the external surface : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5. Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91 m to 1.67 m With common burnt clay F.P.S. (non modular) bricks of class designation 7.5. All complete include labour, material, machinery required as per the directions of Engineer incharge.			
A30	Constructing brick masonry circular manhole 1.22 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement :4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design:1.68 m deep with SFRC Cover and frame (heavy duty HD-20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation and foot rests shall be paid for separately) but including 12 mm thick cement plaster at the external surface : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5. Extra depth for circular type manhole 1.22 m internal dia (at bottom) beyond 1.68 m to 2.29 m : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5 All complete include labour, material, machinery required as per the directions of Engineer incharge.			

Item No.	Description	Offered List of Make	We have read all item specification (Yes/No)	we have quoted against each item.(Yes/No)
A31	Constructing brick masonry circular manhole 1.52 m internal dia at bottom and 0.56 m dia at top in cement mortar 1:4 (1 cement : 4 coarse sand) inside cement plaster 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, foundation concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 40 mm nominal size) and making necessary channel in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement, all complete as per standard design :2.30 m deep with SFRC Cover and frame (heavy duty HD- 20 grade designation) 560 mm internal diameter conforming to I.S. 12592, total weight of cover and frame to be not less than 182 kg. fixed in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) including centering, shuttering all complete. (Excavation and foot rests shall be paid for separately) but including 12 mm thick cement plaster at the external surface : Extra depth for circular type manhole 1.52 m internal dia (at bottom) beyond 2.30 m : With common burnt clay F.P.S. (non modular) bricks of class designation 7.5			
A32	Providing M.S. foot rests including fixing in manholes with 20x20x10 cm cement concrete blocks 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) as per standard design : With 20 mm diameter round bar			
A33	Fly and profile levelling and preliminary contour survey of master sewer line and submission of detailed report with manhole wise listing of Reduced level and invert level.			
A34	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5 m, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within the ACTREC Campus and the work also includes providing adequate slope, strutting & shoring including bailing out of water as directed by Engineer in charge. Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm. Work also includes 100mm thick sand bedding below pipe.			
A35	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within the ACTREC Campus and the work also includes providing adequate slope, strutting & shoring including bailing out of water as directed by Engineer in charge. Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm. For excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. Work also includes 100mm thick sand bedding below pipe.			
A36	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth, including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within the ACTREC Campus and the work also includes providing adequate slope, strutting & shoring including bailing out of water as directed by Engineer in charge. Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm. For excavating trenches for pipes, cables etc. in all kinds of soil for depth in all kinds of soil for depth exceeding 3 m in depth, but not exceeding 4.5 m. Work also includes 100mm thick sand bedding below pipe.			
A37	Detailed Shop/GA Drawings , flow diagram, equipment list, power load requirement with design calculations of all elements of the plant including electrical and mechanical work to satisfy / supply adequacy of tender design followed by submission of detailed GOOD FOR CONSTRUCTION drawings for approval from the client/PMC. Contractor shall ensure submission of detailed GA drawings (Plan & Section), P & I diagram, schematic diagram for the above mentioned components and additional components such as inserts, puddle flanges, vent pipes etc. if so required for the complete work.			
A38	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required and fixing too post as per the design and drawing complete as per the direction of Engineer-in-charge. Made of G.I. wire of dia 4 mm			



Item No.	Description	Offered List of Make	We have read all item specification (Yes/No)	we have quoted against each item.(Yes/No)
A39	Fencing with angle iron post placed at required distance embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be struttred on both sides and end post on one side only and provided with horizontal lines and two diagonals interwoven with horizontal wires, of barbed wire weighing 9.38 kg per 100 m (minimum), between the two posts fitted and fixed with G.I. staples, turn buckles etc. complete. (Cost of posts, struts, earth work and concrete work to be paid for separately). Payment to be made per metre cost of total length of barbed wire used.			
A40	Supplying and installation at site Angle iron post & strut including synthetic enamel paint and one coat of primer of approved colour of required size including bottom to be split and bent at right angle in opposite direction for 10 cm length and drilling holes upto 10 mm dia. etc. complete.			
B41	Bar Screen : Supply, installation, testing & commissioning of 1 Nos Stainless Steel SS316 Perforated Screen of 10mm with suitable lifting arrangement mechanically (Automatic) with conveyor belt and chute arrangement to be provided. Bar sizing will be 800mm x 1000mm & Bar thickness should be min 10 mm .			
B42	Sewage Transfer Pumps : Supplying, installing, testing & commissioning of Submersible non clog sewage transfer pumps with motor, pressure gauge with isolation cock, Isolation valve, NRV on delivery line, stainer at suction. The pump shall be suitable for 415±10% volts 3 phase AC supply. Pumps = 02 Nos.(1w + 1s) Flow rate (each) = 15 m3/hr, Head = 10 mtr, Material of Construction (MOC) of base:- Cast Iron, MOC of shaft:- SS410 Pump efficiency-70%, Solid Handling Capacity shall be 35-45 mm .TEFC Motor with IP - 55 rating Make:-CNP/Wilo/Kirloskar/grundfos			
B43	Anoxic Tank Recirculation Pump : Supply, installation, testing & commissioning of Submersible non clog Anoxic Tank Recirculation Pump. Pumps with Fan arrangement for both pumps = 02 Nos.(1w + 1s) Flow rate (each) = 45 m3/hr Head = 10-12mtr MOC of base:- CI MOC of shaft:- SS410 Pump efficiency-70% Solid Handling Capacity shall be 35-45 mm.TEFC Motor with IP - 55 rating Make:-CNP/Wilo/Kirloskar/grundfos			
B44	Fine Screen : Supply, installation, testing & commissioning of 1 Nos Stainless Steel SS316 Perforated Screen of 4mm with suitable lifting arrangement mechanically (Automatic)with conveyor belt and chute arrangement to be provided. Bar sizing will be 800mm x 1000mm & Bar thickness should be min 10 mm			
B45	Supply Installation Testing and Commissioning of Twin Lobe type rotary air blowers ( 1 working & 1 standby ) capable of delivering 253cum / hr (each) of free air at 0.55 kg / cm2 driven through "V" belt or directly coupled through flexible coupling to a TEFC motor of suitable HP Suitable for 415±10%volts,3 phase, 50 cycles a/c supply. MOC of body : CI, Power Required : 5.5 KW and Speed : 1200 RPM. Air piping shall comprise of pipes droppers/laterals with MS (epoxy coated) Header complete with all fittings such as tees, crosses, plugs, sockets, elbows, reducers, supports & clamps, puddle flanges etc cutting chases & making good. Make of Blowers-TMVT/Everest/Airvak			
B46	Air Diffusers : Supply, installation, testing & commissioning of air diffusers for providing aeration of following :-Diameter of Membranes-90 mmDia/Length-150/2000 mmMOC-EPDM/Silicon Rubber Type -Tube Type Make-Rehau/OTT/Scogen			
B47	MBBR Media : Supply, installation, testing & commissioning of MBBR media of following parameters:-Diameter of Media-20-25 mm Height of Media-10-20 mm Surface Area of Media should be greater than 520 m2/m3. Membrane forming time should be in the range of 3-10 days. MOC of Media-Polypropylene (PP). The design of media and exact size to be approved by Engineer in charge before procurement. Life span greater than 15 years.			
B48	Tube Media : Supply, installation, testing & commissioning of tube media of following parameters:-MOC of Media-Polypropylene (PP) Type-Square/HexagonThickness-1.0 to 1.2 mm. The design of media and exact size to be approved by Engineer in charge before procurement. Life span greater than 15 years.			
B49	Sludge Recirculation Pumps : Supplying, installing, testing, commissioning of Submersible non clog/centrifugal Sludge Recirculation Pumps. The pump shall be suitable for 415±10% volts 3 phase AC supply. Pumps = 02 Nos.(1w + 1s) TEFC Motor with IP - 55 rating Flow rate (each) = 10 m3/hr Head = 14 mtr MOC of base:- CI MOC of shaft:- SS316 Solid handling capacity-35-45mm Pump efficiency-70% Make:-Kirloskar/CNP/Grundfos			

Item No.	Description	Offered List of Make	We have read all item specification (Yes/No)	we have quoted against each item.(Yes/No)
B50	Screw Pump : Supply, installation, testing & commissioning of positive displacement Screw pumps for complete installation with all the accessories. The pumps shall be complete with Base frame, Delivery header with pressure gauge on delivery line.Pumps = 02 Nos.(1w + 1s) Flow rate (each) = 5 m3/hr TEFC Motor with IP - 55 rating Pump housing-CI Base plate-Mild steel MOC : SS410 for shaft Solid handling capacity-35-45mm Motor efficiency Class-IE3 Make:-Netzsch, Grundfos, Kirloskar			
B51	Filter Feed Pumps : Supply, installation, testing & commissioning of horizontal centrifugal filter feed pumps for complete installation with all the accessories. The pumps shall be complete with Base frame, Delivery header with pressure gauge on delivery line .Pumps = 02 Nos.(1w + 1s). TEFC Motor with IP - 55 rating Flow rate (each) = 15 m3/hr Head = 35 mtr MOC of base:- CI MOC of rotor:- SS304 MOC of shaft:- SS304 Pump efficiency-70% Make:-Kirloskar/Johnson/CNP			
B52	Pressure Sand Filter - Supply, installation, testing & commissioning of MSEP vessel filter with frontal piping and Valves with all the required accessories. Filter shall include media, standard fittings like pressure gauges, sampling cock, rinse drain etcFlow-15 m3/hrDiameter-1200 mm Height of Vessel-1500 mmMOC-MSEP Shell Thickness-8 mmDisc Thickness-10 mmFrontal Piping-MSEPSize of Piping-65 NB Type of Valve-Butterfly ValveFiltration Media-Multi Grade Sand Media Quantity - 2000 Kg Make of Valves-Audco/Zoloto/Danfoss			
B53	Activated Carbon Filter - Supplying, installation, testing & commissioning of MSEP vessel filter with frontal piping and Valves with all the required accessories. Filter shall include media, standard fittings like pressure gauges, sampling cock, rinse drain etc Flow-15 m3/hrDiameter-1200 mmHeight of Vessel-1500 mm MOC-MSEP Shell Thickness-8 mmDisc Thickness-10 mmFrontal Piping-MSEPSize of Piping-65 NB Type of Valve-Butterfly Valve Filtration Media-Multi Grade Sand + Activated Carbon Media Quantity-1000 kg Sand + 500 Kg CarbonMake of Valves-Audco/Zoloto/Danfoss			
B54	Chlorine Dosing System - Supply, Installation, testing and commissioning of Chemical dosing system comprising of Dosing pumps ( 1W + 1S ) with IP 55 motor rating compatible for the complete dosing system : -Capacity-12 LPH Pressure-5 kg/cm2 MOC-PPDosing Tank Capacity-100 Ltrs MOC Tank-HDPE Make-Pentair/Milton Roy, Pump make: -Kirloskar/CNP/Grundfos			
B55	Polyelectrolyte Dosing System : Supplying, Installation, testing and commissioning of Polyelectrolyte Dosing system comprising of following:-Dosing pumps (1W+1S) with IP 55 motor rating compatible for the complete dosing system Pump make: - Kirloskar/CNP/Grundfos, Capacity-6 LPH Pressure-5 kg/cm2 MOC-PP Dosing Tank Capacity-100 Ltrs MOC Tank-HDPE, Make-Pentair/Milton Roy			
B56	Flow meters : Supplying, Installation, testing and commissioning of flow meter of following parameters:-Capacity-15 m3/hrType-Inline pipePipe Size-65 mm Make-Aster			
B57	Sludge Dewatering Unit ( Filter Press) : Supplying, Installation, testing and commissioning of Sludge Dewatering Unit of following parameters:-Plate no-20 MOC of body-MSplate MOC-PP size:-610 x 610 mm Filtration per press : 16 Sqm/press, Cake holding capacity per recessed plate : 10 Litres /Chamber and 200 Litres/press Make-N M patel & co/sachin filtration			
B58	Ozone System : Supplying, Installation, testing and commissioning of Ozone System to disinfect the filter water including accessories such as venturi,oxygen piping,pumps,ozone pipe,etcCapacity-75 gm./ hrMOC-SSOxygen generator to give 5 lpm oxygen at 90% purity-1 No.			
B59	Submersible Sump Pump : Supplying, Installation, testing and commissioning of Submersible sump pump to transfer from receiving sump to Equalization Tank. Pumps = 02 Nos.(1w + 1s)Capacity-45 m3/hrHead-12 meter Type-Cutter type, submersible TEFC motor with IP -68 rating MOC of Pump-SS Power-5.0 kW/ 3 PhaseShaft-SS Efficiency-70% Make-Kirloskar/Wilo/CNP/Grundfos			
B60	Supplying, Installation, testing and commissioning of complete piping and fittings of STP plant. It includes all types of pipes, valves and other accessories as required and approved by engineer in charge. Submerged Piping-HDPE IS 4984 : 1995 Covered Piping -SS 316			
B61	Supply and laying of Sewage Bypass line required in case of maintenance of STP of size 150 mm in DI ( MOC ) pipe having flange joint with all accessories, fitting, valve etc as required to complete the work			
B62	Supplying, Installation, testing and commissioning of following instruments required for STP plant Level Sensors- 6 Nos Pressure Gauges- 3 Nos. Make - Strong MAC/Omicron/WIKA			

Item No.	Description	Offered List of Make	We have read all item specification (Yes/No)	we have quoted against each item.(Yes/No)
B63	Providing and fixing in position M.S. pipe two side flange sleeves of upto 600 mm long ( heavy class ) with M.S. puddle flange fabricated out of 6 mm thick M.S. plate in RCC walls of water tanks/retaining wall during the time of casting the same including hot dipped galvanisation after fabrication and painting with 2 coats of anti corrosive paint over primer. Size & location of the puddle flange shall be as required to complete the STP system.			
B64	Providing and fixing of pH Meter wherever required. Make : Forbes Marshall, ION Exchange			
B65	Providing and fixing of Vent pipes over each tanks of any non-corrded material in STP for sufficient numbers of following sizes in all respect and as directed by the engineer incharge.			
B66	Design, fabrication, assembling, wiring, supply, installation, testing and commissioning of Motor Control Centre ( MCC ) indoor cubical type ( IP55 ) suitable for 415V, 3 phase, 4 wire, 50 Hz AC supply system fabricated out of 2mm thick CRCA sheet steel & finishing complete with 7 tank process for powder coating in approved shade. Panel should have 2 nos earth stud at the rear, solid connections from main bus bar to switchgear with required size of Copper busbars and control wiring with 2.5 Sq.mm PVC insulated multi strand copper conductor cable, cable alleys, CT, Control Fuse, Voltmeter, ammeter, push buttons, indication lamp, Auto manual selector switches, cable gland plates etc. Switchgears make:-L&T/Siemens/ABB Panel Make: - Chavare Engineering, L&T, Marine Electrical MCC panel shall comply all latest codes and standards and as per approval of Engineer in charge. MCC panel shall be suitable for all equipments/pumps connected to the STP with 25 % of spare capacity. DOL starters shall be used for the pumps below 10 HP and all other pumps shall have Star Delta Starters. MCC panel shall be mounted floor mounted or mounted on MS stand with proper paint & primer as per the site conditions and as approved by engineer in charge. It should comply with NFPA norms.			
B67	Supply, Laying, Testing & Commissioning of Flexible Electrical Cables of Copper condutor for all pumps and equipments of required sizes as required in 300 KLD STP along with all accessories for termination of the same conforming the required codes and standards. It also includes the Cable tray for laying / routing all cable from panel to equipments as required with proper dressing and tagging of the same. Make of Cables-Polycab/Finolex/Havells			
B68	Supply, Installation, Testing & Commissioning of LED Light fixture ( outdoor type ) as required for the proper illumination in the STP in different area along with the mounting arrangement with GI octagonal poles of required height along with all other accessories. Make of light fixture: - Philips, Havells, Panasonic			
B69	Supply, Installation, Testing & Commissioning of Earthing system conforming IS: 3043 for equipments as required for 300 KLD STP plant.			
B70	Supplying, Installation, testing and commissioning of main incoming power cable of size 4C x 120 sqmm XPLE Armoured Al conductor with all termination accessories and laying accessories including HDPE pipe of 100 mm Dia. It should be fixed on wall or laid on ground.			
B71	Supply, Installation, Testing and Commissioning of 75 gm/hr Ozonator system			
C1	OPERATION AND MAINTAINENCE OF SEWAGE TREATMENT PLANT FOR 1ST YEAR AFTER COMPLETION OF WARRANTY PERIOD.			
C2	OPERATION AND MAINTAINENCE OF SEWAGE TREATMENT PLANT FOR 2ND YEAR AFTER COMPLETION OF WARRANTY PERIOD.			
C3	OPERATION AND MAINTAINENCE OF SEWAGE TREATMENT PLANT FOR 3RD YEAR AFTER COMPLETION OF WARRANTY PERIOD.			
C4	OPERATION AND MAINTAINENCE OF SEWAGE TREATMENT PLANT FOR 4TH YEAR AFTER COMPLETION OF WARRANTY PERIOD.			
C5	OPERATION AND MAINTAINENCE OF SEWAGE TREATMENT PLANT FOR 5TH YEAR AFTER COMPLETION OF WARRANTY PERIOD.			

Date

Signature



**TATA MEMORIAL CENTRE  
ADVANCED CENTRE FOR TREATMENT RESEARCH AND EDUCATION IN CANCER  
(ACTREC).**

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

**Compliance form-2**

<b>Tender No.</b>	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020
<b>Name of work:</b>	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210

Name of the Vendor		
Sr. No	Description	Compliance from agency
1	We have understood technical requirments and understood the same in right perspective.	
2	We have quoted for all the items in Financial Bid in the prescribed format of the tender documents.	
3	We have read the financial bid thoroughly before filling it and understood the same in right perspective	
4	We understood that partial/incomplete/vague offers are liable for rejection.	
5	We have understood the eligibility criteria as well as criteria for identifying lowest bidder.	
6	There are deviations from our(bidder) side.	
7	Deviations have been mentioned on separate page and attached with technical bid in detail. Deviation is supported with necessary documents, catalogues etc.	
8	We have noted that accepting or rejecting the deviation and consequently rights to qualify and disqualify the agency remains with competent authority of TMC- ACTREC.	
9	We have understood and accpected that accepting the tender & issuing order in full or in part will be decided by the TMC-ACTREC competent authority as per policy of the centre.	

Date

Signature



**TATA MEMORIAL CENTRE  
ADVANCED CENTRE FOR TREATMENT RESEARCH AND EDUCATION IN CANCER  
(ACTREC).**

A GRANT-IN-AID INSTITUTE UNDER DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA

**FORM-B1**

<b>Tender No.</b>	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020
<b>Name of work:</b>	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210

<b>Name of the Vendor</b>	
---------------------------	--

**Form "B-1"**

**FORM FOR CERTIFICATE OF NET WORTH FROM CHARTERED ACCOUNTANT.**

" it is to certify tha as per the audited balance sheet and profit & Loss account during the financial year \_\_\_\_\_, the Net Worth of M/s \_\_\_\_\_ (Name & registered Address of individual/firm/company), as on \_\_\_\_\_ (the relavant date) is \_\_\_\_\_ RS. \_\_\_\_\_ after considring all liabilities. It is further certified that the Net Worth of the company has not eroded by more than 30 % in the last three years ending on \_\_\_\_\_. (the relavant date)."

Signature of Chartered Accountant.

\_\_\_\_\_  
Name of Chartered Accountant.

Membership No. of ICAI

Date and Seal.



**TATA MEMORIAL CENTRE**  
**ADVANCED CENTRE FOR TREATMENT RESEARCH AND**  
**EDUCATION IN CANCER (ACTREC).**

<b>Tender No.</b>	TMC/ACTREC/ENGG/PG-40/STP/ET-69/2020 Dated 28-02-2020
<b>Name of work:</b>	CONSTRUCTION AND EXECUTION OF SEWAGE TREATMENT PLANT AND MASTER SEWER LINE INCLUDING OPERATION AND MAINTAINENCE OF PLANT AT ACTREC, KHARGHAR, NAVI MUMBAI - 410210

**List Of Makes**

**List of makes are only applicable if brand name is not mentioned specifically in the list of items as given in financial bid - Bill of quantities.**

<b>Name of the Vendor</b>		
<b>S.No</b>	<b>Details of equipment/ material</b>	<b>Make/Manufacturer</b>
1	Adhesive for Ceramic tiles	Cico / Pidilite / Laticrete/ Fosroc
2	Adhesive for Wood Work	Fevicol/Vamicol/Dunlop
3	Aluminium Accessories and Hardware	Crown /EBCO/Jindal/ Everite/Sigma
4	Aluminium Composite Panels	Aludecor / Alucobond /Alstone/ Shapoorji Pallonji
5	Aluminium Die-Cast handles & two point locking kit	Giesse / Securistyle
6	Aluminium Extrusion/ Sections	Hindalco / Jindal
7	Aluminium Fabricator	To be approved by the Engineer-in-Charge
8	Anchor Fastner/Dash Fastner	Hilti / Fischer /Bosch
9	Anti – Termite Treatment	It should be done by permanent members of IPCA as approved by Engineer-in-Charge/ As per CPWD/PWD specifications and ISI marked. Preapproval from EIC
10	Back up rod	Supreme Industry/Preapproval required for other brands
11	Batch Mix Concrete (BMC) / Ready Mix Concrete (RMC)	The RMC shall be procured from the source as approved by Engineer – in Charge. RMC Producing plants of the main Cement producers shall be preferred. L&T/ Lafarge/ ACC/ Birla/Ultratech
12	Brass - Stop & Bib Cock	Zoloto / Sant / Jaquar
13	C I Pipes & Fittings	Electrosteel/ Kapilansh/ NECO/ RIF
14	CI Valves (Full way, Check and Globe Valves	Leader / Kirloskar/ Kartar
15	CI Manhole Covers	NECO/R.I.F./B.I.C./HEPCO
16	CP Fittings: Mixer / Bib Cock/ Pillar taps/ Angle valve/ Valves Washers / Waste/ Urinal / Spreaders / Accessories etc	Jaguar/Marc/ PARKO / HINDUSTAN / SEIKO
17	Cement	ACC / Ultra tech / JK Cement / Ambuja / Lafarge /Birla/RAMCO
18	Cement: White	Birla White / JK
19	Clean Room Wall Panels with/ without return air risers, Doors/ windows etc	CLESTRA/ NICOMAC / HEMAIR / GMP / EPACK

20	Clear Glass / Clear Float Glass / Toughened Glass	Saint Gobain (SG) / Asahi India Safety Glass Ltd /Modiguard/ Triveni / Modifloat/ Hindustan Glass Company
21	Concrete Additive	Pidilite / Fosroc / Fairmate / MC Bauchemie/Sika/Cico
22	Cover /Spacer Block	Conbextra as manufactured by M/s Fosroc Chemicals India Ltd. / ASTRA
23	Curtain Rod/ Drapery Rod/ Venetian Blinds	Vista work / Mac Décor
24	Door closer / Floor spring	Hardwyn/Godrej/ Dorma/Doorking/Everite
25	Door Locks	Godrej / Harrison / Dorma/Link
26	Door Seal – Woolpile Weather Strip	Anand Reddiplex/ Enviroseal
27	Door Shutters- Flush	Duro / Greenply / Century / Merino
28	Doors & Windows Fixtures / Fitting	Everite / Classic/ Crown/ Hardima
29	Epoxy Flooring	Fosroc/ Dr. Beck/ Flamaflor/ STP
30	Extruded Polystyrene Board	Styrofoam by DOW Chemicals / Insuboard by Supreme Industries
31	False Ceiling - Calcium Silicate Boards& Tiles	India Gypsum/ Armstrong / Hilux / Saint Gobain (Gyproc)/Aerolite
32	False Ceiling - Metal	Armstrong / USG-Boral/ Saint Gobain/ Unimet
33	False Ceiling - Mineral fibre	Armstrong / Decosonic / USG-Boral/ AMF/ Saint Gobain (Gyproc)
34	Fire Rated Doors & Frames	Navair / Shakti-Hormann / Promat/ Gandhi/ Godrej
35	Fire Rated Glass	Asahi India Safety Glass Ltd./ Modi/ Saint Gobin
36	Fire: Door Closures, Mortice Dead locks	Becker Fire Solution/ Inersoll Rand/ Dorma/Godrej
37	Fire: D-Type Pull Handles	Becker Fire Solution/ Dorma/ Hardwyn/Godrej
38	Fire: Hinges,	Becker Fire Solution/ Inersoll Rand/ Dorma/Godrej
39	Fire: Seal	Sealz / Alstroflam/ Abacus
40	Fire: Sealant	Birla/ 3M/ Hilti
41	Fire: Tower Bolts	Suzu/ Nulite, Dorset/ Dorma/Godrej
42	Floor Hardener	Pidilite / SIKA/ Fairmate /FOSROC
43	Glass : Float & Mirror	Modiguard / Atul / Saint Gobain/ Modi Glass/ Triveni/ Hindustan Glass Company
44	Glass for Aluminum Doors/ Windows/ Structural Glazing	Modiguard / Saint Gobain/Glass Ltd./Modiglass
45	Glass Wool / Insulation Boards	Rockwool / UP Twiga / Lloyd Insulation
46	GRC Jali	Unistone/ Kuber Fibrostone/Everest Composites/ Birla white
47	Grout: Non-Shrink	Fosroc / Sikka or equivalent
48	Grouting Compound	Bal Endura/ Pidilite/ Laticrete/ Unitile
49	Gypsum Board / Gypsum False Ceiling/ Gypsum Partitions	USG-Boral Gypsum / India Gypsum / Lafarge / Saint Gobain (Gyproc)
50	Laminates/ Veneers	Century/Formica/Sunmica/ Durian/ Green Ply
51	Modular Grab bars and Disabled Hardware	Dorma / D-line



52	Night Latch	Godrej / Dorma/ Ozone/Harrison/Link
53	Paver blocks / Tiles (All Types)	KK / Uni Stone Products (India) Pvt. Ltd/ Hindustan Tiles/ NITCO/ Tile Italia/ Basanth
54	Plywood/Block board/Ply board	Duro/ Greenply/ Century/ Kitply / Anchor / Uniply/ Anchor
55	Polycarbonate Sheets	Danpanlon India/Gallina/ GE Plastic / LEXAN
56	Pre-coated Galvanised Steel Sheet	Tata BlueScope / Llyod Insulations India Ltd / S.R.Metals
57	Pre-Laminated Particle Board	Century /Green Ply/ Merino/ Greenlam / Jacsons / Duratuff
58	PVC continuous fillet for periphery packing of glazings / Structural/ Glazing	Roop / Anand / Forex Plastic/ Nagalia/Trading Company
59	PVC Doors	Sintex/ Polyex/ Rajshri
60	PVC Flooring	Tarkett Floors / LG Floors / Gerflor / Premier Vinyl flooring / Regent / Armstrong / Royal Cushion
61	RF Shielded Door	ETS Lindgern/ Synchrony Agency/ Huaming EMC India
62	Reinforcement Steel / Structural Steel	SAIL/ RINL/ TATA Steel Ltd./ Jindal Steel & Power Ltd./ JSW Steel Ltd./ESSAR
63	Restroom Cubicles	Merino/ Century/ Greenlam
64	Sealant: Poly-sulphide	Pidilite / Fosroc / CICO / Sikka / Choskey
65	SFRC / RCC Manhole Covers/ Perfect RCC Grating	KK Manholes / SK Precast Concrete / Hindustan
66	Silicon sealants /Weather Sealant / Structural Glazing Sealant	GE- Silicon / Pidilite / Forsoc / Cico /Dow Corning / Sikka/ Wacker
67	Stainless Steel	Salem Steel/ Jindal
68	Stainless Steel bolts, Screws, Nuts& Washers	Kundan / Puja / Atul
69	Stainless Steel Clamps	Hilti /Intellotech Konzept
70	Stainless Steel CP Grating	Chilly / Camry/ Neer
71	Stainless Steel D-handles	D-line / Giesse /Dorma
72	Stainless Steel Friction Stay	Earl Bihari / Securistyle / EBCO
73	Stainless Steel Hinges	Hettich/ Godrej/ Dorma
74	Stone Adhesives	Fosroc / Sikka/Pidilite
75	Sunken Portion Treatment	Choksey / Sika / CICO/ MC Bouchemie
76	Super plasticizer	CICO/ Roffes Construction Chemicals/ Pidilite / Vam Organics
77	Tiles: Ceramic Tiles	Kajaria / Somany/RAK/ EVRO
78	Tiles: Glass Mosaic Tiles	Kajaria / Somany/RAK / Italia
79	Tiles: Glazed (Ceramic) tiles	Kajaria / Somany/RAK / Johnson / Spartek
80	Tiles: Heat Resistant Terrace Tiles	Thermatek
81	Tiles: Vitrified Tiles (Double / Multi Charged)/ Germ free	Kajaria / Somany/RAK / Johnson / Euro
82	Vacuum Dewatered Flooring	Tremix / Sun Build / Avcon technics
83	Veneered Particle Board	Duro / Greenply / Century
84	Vinyl Flooring	Wonder floor/Responsive make
85	Water Proofing Materials (Bitumenistic)	BASF/ Fosroc / Sikka / CICO / Pidilite
86	Centrifugally casted CI pipes	Electrosteel/ Kapilansh/ NECO/ RIF/ SKF
87	Chlorine Dosing System	Toshcon / Chloromax



88	Cockroach Trap	Chilly/ Player/ Camry
89	Ductile Iron Fittings (IS:9523)	Electrosteel/Kesoram/Tisco/Jindal
90	Ductile Iron Pipes (IS:8329)	Electrosteel/Kesoram/Tisco/Jindal
91	EPDM Gaskets	Anand Reddiplex / Enviro Seals / HANU
92	Forged Steel Fittings & Flanges (For Welded joints)	Rohini /Kanwal/ Vijay Cycle & Steel (VS)
93	HDPE Pipes / Moulded Fittings	Emco /Polyefins/Pioneer Plyfab/ Jain
94	HDPE Solution tank	Watcon / Ion Exchange / Water Supply Specialist Pvt. Ltd.
95	Liquid Soap Dispenser	Euronics/Utec/Kopal/ Kimberly Clarke
96	MS Saddle with Gi Riser	Harvel/Alprene
97	PVC flushing cistern	Commander / Parryware / Hindware/ Cera/Euronics
98	Pipe coat material (pipe protection)	RPG Raychem/Pypkote/Makphalt/Lwl
99	Pipe Fittings: GI	R/Unik/Zoloto/K.S./Sun/Swastik
100	Pipe:- GI	Jindal / Tata / Prakash Surya/SAIL/ Swastik
101	Pipes & fitting: PVC for SWR Soil, Waste & Vent Pipes and fittings, Type B PVC Casing & Screen Pipes	Prince / Supreme / Finolex
102	Pipes & Fittings: CPVC	Flowguard/ Astral/ Ashrivad/ Supreme / Kisan
103	Pipes & fittings: UPVC	Finolex / Prince / Supreme/ Astral / ORIPLAST
104	Pipes & Gully Trap: Stone ware	Perfect / S.K.F/ R.K/ Hind / Anand/ Burn
105	Pipes and Accessories: PE-AL-PE	Kitec/ Jindal/ Kisan/Vista
106	Pipes: MS	Jindal / Prakash – Surya /TATA
107	Pipes: RCC	Indian Hume Pipe / Pragati Concrete Udyog Daya/ KK / JSP
108	Plastic seat cover of WC	Commander/Hindware / Parryware/ Kingston
109	Pop up Connecting Assembly	Rain Bird/Dura/Lasco
110	Popup Spray Head	Rain Bird/Toro, USA/Nelson,
111	Powder Coating Material pure Polyester	Jotun / Berger / Goodlass Nerolac
112	PVC Water Stops	Prince /Supreme/ Finolex
113	Sensor Operated Auto Flushing System Urinals	Jaguar / AOS-Robo/U-tec/Angash/Euronics
114	SS Gratings/ Soap Dish/Towel Rail etc	Camry/Gem/ Jaguar
115	Stainless Steel Sink	Hindware / Neelkanth / Nirali /Prestige/A.M.C./Kingston
116	Bar Screen	Unitop/Preapproved make
117	Sewage Transfer Pumps	CNP/Wilo/Kirloskar/grundfos
118	Anoxic Tank Recirculation Pump	CNP/Wilo/Kirloskar/grundfos
119	Motors	ABB / Siemens / Crompton / Bharat Bijlee
120	Aeration blower	TMVT/Everest/Airvak
121	Air Diffusers	Rehau/OTT/Scogen
122	MBBR Media	Marvellous/Cooldeck/W2P
123	Tube Media	Marvellous/Cooldeck/W2P
124	Sludge Recirculation Pumps	Kirloskar/CNP/Grundfos
125	Screw Pump	Netzsch, Grundfos, Kirloskar
126	Pressure Sand Filter	Unitop
127	Activated Carbon Filter	Unitop
128	Dosing System	E dose/ Milton Roy
129	Flow Meter	Aster

130	Ozone System	A M Ozonics/ Faraday
131	Pipe MS Class – B	Zenith / Jindal / Tata
132	UPVC Pipe	Astral/Ashirwad/Finolex
133	NRV	CRI/Zoloto
134	Ball valve	RB / Itap / Zoloto/Astral
135	Switch fuse unit	Schneider / L & T / Siemens / ABB
136	MCCB	Schneider / L & T / Siemens / ABB
137	MCB	Schneider / L & T / Siemens / ABB / MDS
138	MPCB	Schneider / L & T / Siemens / ABB
139	Contactors	Schneider / L & T / Siemens / ABB
140	Over-load relay	Schneider / L & T / Siemens / ABB
141	Motor Starter	Schneider / L & T / Siemens / ABB
142	Electrical Meters	AEP / MECO / Rishabh/ Enercon / L & T
143	Cables	CCI / Polycab / Finolex
144	Cable Gland	Comet / Braco / Dowell / 3D
145	Cable lugs	Comet / Braco / Dowell / 3D
146	Indicating lamps	Technik / L&T / IEC/ Seimens
147	Terminal blocks	Elmex / Wago/ Connectwell
148	Lighting Fixtures with electronic ballast	Wipro / Philips / Bajaj/ Cisca/ Crompton
149	Lighting distribution boards	Seimens / GE/ L&T
150	Annunciation	Minielec / Peacon /ICA
151	Power Capacitor	CG/L & T/ ABB/ Unister
152	Current / Potential Transformer	Kappa / Silkans / ABB / AE / Ashmore
153	Selector Switch	Kaycee / Hickson / L & T
154	Push Buttons	Tecknic /L&T/ Seimens
155	Fuses	E.E / L & T /Seimens
156	Level Switch	NHT / SJE Rhombus/ Minilec
157	Pressure gauge	HGuru / Feibig/Baumer
158	Electronic water meter with remote indication in electrical panel	Kaypee / Vatturkar / Fluidyne / Tansa / Rosemount / Krone
159	Tools	Taparia / Dowells