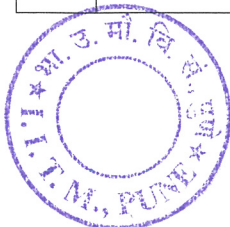


**PRE-BID M.O.M FOR SITE DEVELOPMENT WORK FOR INSTALLATION OF  
DE-IONIZATION PLANT AND FOUNDATION OF WATER TUNNEL IN FLUID  
DYNAMICS LAB AT IITM, PASHAN, PUNE.**

**TENDER NOTICE No. IITM/CE/FDL lab/works/15-16/10**

A Pre-Bid Meeting for the subject work held 08.10.2015 at 11:00 Hrs in ARYABHATTA HALL at IITM, Pune. **During the discussion with vendors present in the meeting the following decision were taken by the committee:**

SL. No.	Points discussed	Reference	Decision Taken
01.	Vendor registration	Tender notice and tender documents	<b>FOR:</b> Director, Indian Institute of tropical Meteorology, Dr. Homi Bhabha Road, Pashan, Pune-411008 (India) invites sealed tenders (Part-I Technical Bid, Part-II Commercial Bid) in separate sealed covers from reputed and government registered with CPWD, PWD, MES, Railways and other government organization Contractors for Site development work for installation of de-ionization plant and foundation of water tunnel in fluid dynamics lab at IITM, Pashan, Pune <b>READ:</b> Director, Indian Institute of tropical Meteorology, Dr. Homi Bhabha Road, Pashan, Pune-411008 (India) invites sealed tenders (Part-I Technical Bid, Part-II Commercial Bid) in separate sealed covers from reputed and government registered with CPWD, PWD, MES, Railways, <b>Industrial experienced</b> and other government organization Contractors for Site development work for installation of de-ionization plant and foundation of water tunnel in fluid dynamics lab at IITM, Pashan, Pune
02.	Foundation details	Tender BOQ and tender drawing	Foundation details were explained during pre-bid for water tunnel, however drawing will be uploaded on Institute website along with pre-bid M.O.M
03.	In Tender BOQ item no. 16 for PVC WATER TANK and its civil foundation scope needs clarification	Tender BOQ item no. 16	<b>FOR:</b> Item No. 16: Providing and fixing Sintex water storage tank of approved make and capacity including all necessary foundation bed concrete 1:2:4 OF height 300mm connections, accessories, transportation, hoisting erection etc. complete. Qty.: 5000 Unit: Lit. <b>READ:</b> Item No. 16: Providing and fixing three layered PVC water storage tank of SINTEX MAKE including inlet out let connections, transportation, hoisting erection etc. complete. [Note: The payment for required Civil foundations work if any for resting water storage tank will be paid under tender BOQ civil items separately]. Qty.: 5000 Unit: Lit.
04.	Tender BOQ item No. 23 for Monoblock pump needs change in specification	Tender BOQ item no. 23	<b>FOR:</b> <b>1 to 1.5 HP</b> monoblock pump whichever is approved (Make: Crompton/Kirloskar/Jyoti) as approved by engineer in charge. Qty.: 1 Unit: each <b>READ:</b> Supply, installation, commissioning & testing of <b>1 HP inline pressure boosting pump</b> with auto start with 1 union on either side and 1 patti (ball) valve upstream complete in all respect. Make: Crompton/Kirloskar/Mather & Platt/Shakti/Jyothi. Qty.: 1 Unit: each.



05.	Item No.26 for luster paint need clarification	Tender BOQ item no.26	<b>FOR:</b> Preparation of old wall surfaces existing luster paint by scraping, sand papering including necessary repairs to scratches and cracks by using Birla white cement putty and primer etc. and preparing the surface even and smooth complete for providing luster paint of same shade. Qty.: 21 Unit: Sq.m <b>READ:</b> Preparation of existing old wall surfaces of luster paint by scraping, sand papering including necessary repairs to scratches and cracks by using Birla white cement putty and primer etc. and making the surface even and smooth and providing 02 or more coat of luster paint of same shade all as directed. Qty.: 21 Unit: Sq.m
06.	TAX break up and BOQ Format	Tender BOQ	Vendor shall quote their rate as per revised commercial bid format only. Revised commercial BOQ format will be uploaded on institutes website along with pre bid M.O.M.
07.	Completion period and BAR CHART	Tender Document	<b>Completion Period: 45 Days</b> from the date of handing over of site by the Institute to contractor to commence the work. <b>BAR CHART:</b> Bidder should submit bar chart along with technical bid.
08.	Site Inspection	Vendor request	Site was shown to vendor and scope of work explained during the site visit.
09.	BID SUBMISSION	Tender document	<b>Technical Bid Envelope:</b> Forwarding Letter, Copy of Pre-bid M.O.M, complete tender documents, company profile, bank detailed for RTGS, details of work experience for similar contracts completed/in hand, related documents as mentioned in tender duly signed and stamped on each page, EMD & Tender Fee and BAR CHART. <b>Commercial Bid Envelope:</b> Duly filled and signed. Bidders should submit their commercial bid as per revised BOQ as enclosed along with Pre-Bid MOM.
<p><b>NOTE: 1) Bid should be submitted on or before due date and time i.e. 21/10/2015 at 12:30 Hrs.</b>  <b>2) Bid received after due date and time will be rejected.</b>  <b>3) Bidders should submit their commercial bid as per revised BOQ as enclosed along with Pre-Bid MOM.</b></p>			



**Tender Enquiry : IITM/CE/ FDL lab/works/15-16/10**

**Site Developmet work for  
Installation of De-Ionzation  
plant and foundation of  
water tunnel in fluid  
dynamics lab at IITM, Pashan  
Pune-411008**

**REVISED BoQ  
(COMMERCIAL BID)**

**Volume –II**

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY,  
DR.HOMI BHABA ROAD, PASHAN, PUNE-411008**





**Revised BOQ for site development work for installation of de-ionisation plant for fluid dynamics lab at IITM, Pashan, Pune.**

SR. NO	ITEM DESCRIPTION	QTY.	UNIT	Basic Rate Rs.	Taxes		Total rate (basic+tax) Rs.	Amount Rs.
					VAT %	Service tax %		
1	Dismantling tile work in floors, steps, kota etc. laid in cement mortar including stacking serviceable material and disposal of unserviceable material outside office premises lead. For thickness of tiles 10 mm to 25 mm	64	sq.m.					
2	Excavation for foundation in earth , murum, road, concrete, soil of all types including spreading and leveling , preparing the bed for foundation and necessary back filling , ramming ,watering including shoring and strutting etc.( Lift upto 1.5m) including disposing off excavated soil out of office premises.	73	cum					
3	Filling with 50 to 100mm boulder and hard murum in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering ( PD 95%) etc. complete all as directed.	37	cum					
4	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level( M10)1:3:6 (1 cement : 3 coarse sand :6 graded stone aggregate 20 mm nominal size) in foundation, floor/plinth sub base and coping etc.	8	cum					
5	Providing and laying in position cement concrete for raft of specified grade including the cost of centering and shuttering - All work up to plinth level (M25) 1:1:2 (1 Cement : 1 coarse sand : 2 graded stone aggregate 20 mm nominal size)	20	cum					
6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars	300	kg					



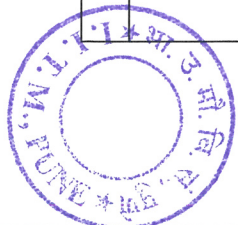


7	<p>Providing and fixing stainless steel ( Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories &amp; stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in-charge, ( for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.) <b>Location :</b> Lab entrance railing work</p>	55	kg				
8	<p>Providing and fixing precoated semi corrugated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %) total coated thickness with zinc coating 120 grams per sqm as per IS: 277, in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12 metre or as desired by Engineer in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55 mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces, excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required with necessary champer at joint of sheet and wall for proper way to rain water wherever required.</p>	55	sq.m.				
9	<p>Steel work in built up tubular ( round, square or rectangular hollow tubes etc.) angle, trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer and synthetic enamel paint including welding and bolted with special shaped washers etc. complete. Hot finished welded type tubes</p>	2000	kg				





16	Providing and fixing three layered PVC water storage tank of SINTEX MAKE including inlet out let connections, transportation, hoisting erection etc. complete. [ <b>Note</b> : The payment for required Civil foundations work if any for resting water storage tank will be paid under tender BOQ civil items separately].	5000	lit.					
17	Removing of existing PVC water storage tank and hoisting and fixing another PVC Sintex tank of 5000 lit. capacity including inlet, outlet connections labour only complete in all respect all as directed by engineer in charge.	1	job					
18	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundations and plinth in Cement mortar 1:3 (1 cement : 3 coarse sand)	17	sq.m.					
19	Brick work with common burnt clay modular bricks of class designation 7.5 in foundation and plinth in Cement mortar 1:4 (1 cement : 4 coarse sand)	1	cum					
20	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement : 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement : 6 fine sand)	50	sq.m.					
21	Providing and laying cement concrete 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) in coping and for fixing MS Angle etc. including necessary shuttering all as directed	1	cum					
22	Providing and fixing factory made precast RCC perforated drain covers, having concrete of strength not less than M-25, of size 1000 x 450x50 mm, reinforced with 8 mm dia four nos longitudinal & 9 nos cross sectional T.M.T. hoop bars, including providing 50 mm dia perforations @ 100 to 125 mm c/c, including providing edge binding with M.S. flats of size 5	30	each					
23	Supply, installation, commissioning & testing of 1 HP inline pressure boosting pump with auto start with 1 union on either side and 1 patti (ball) valve upstream complete in all respect. Make: Crompton/Kirloskar/Mather & Platt/Shakti/Jyothi.	1	each					
24	Supply and fixing Slow roll on mosquito net sliding up/down curtain fitted with aluminium white powder coated white framing support system as per approved sample.	150	sq.ft.					





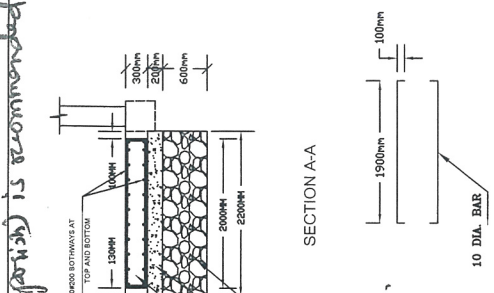
25	Shifting/protection of fixed and movable furniture, storage, board, false ceiling etc and deep cleaning of both rooms after completion of work. [ <b>Note</b> : If there is some damage while working then contractor shall pay for particular damage with his own cost]	1	Job					
26	Preparation of existing old wall surfaces of luster paint by scraping, sand papering including necessary repairs to scratches and cracks by using Birla white cement putty and primer etc. and making the surface even and smooth and providing 02 or more coat of luster paint of same shade all as directed.	21	sq.m.					
27	Providing & applying internal cement plaster 15 mm thick in a single coat in Cement Mortar (1:4) <b>sanala finish</b> over chicken wire mesh to concrete & brick surface in all position including all types of finishing such as cornice, molding, pattas, scaffolding & curing etc. complete as directed.	2	sq.m.					
28	Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade : New work (two or more coats) over and including water tinnable priming coat with cement primer	2	sq.m.					

Total =



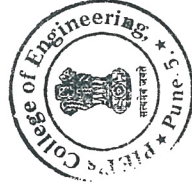
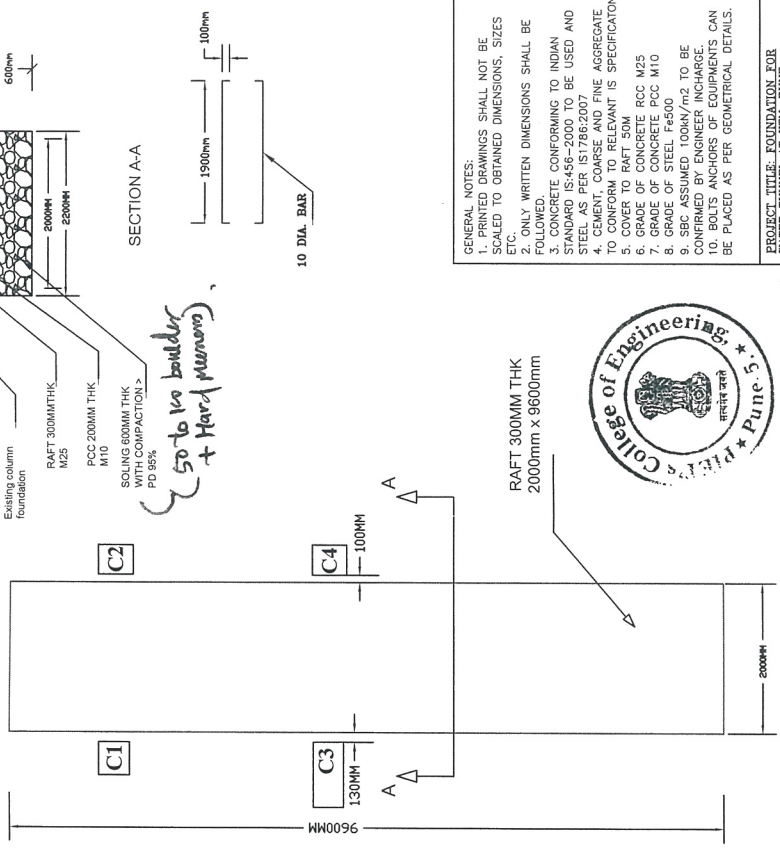
- entire flooring (existing katta) to be removed.
- New flooring of katta (Handud - mirror finish) is recommended.
- For section B-B, similar design is applicable - (Section A-A)

50 to 100 boulder + Hard memo



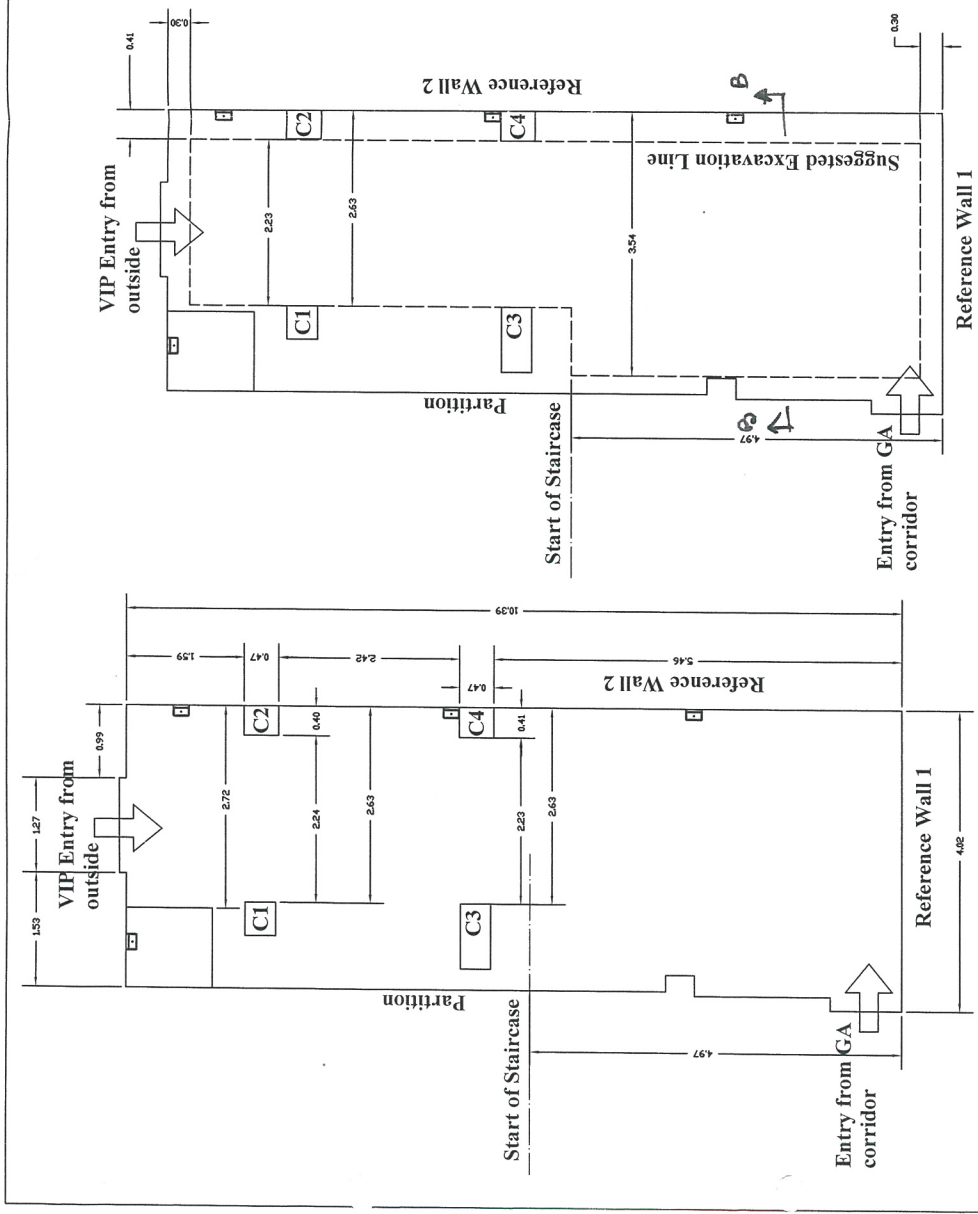
- GENERAL NOTES:
1. PRINTED DRAWINGS SHALL NOT BE SCALED TO OBTAINED DIMENSIONS, SIZES ETC.
  2. ALL DIMENSIONS WRITTEN SHALL BE FOLLOWED.
  3. CONCRETE CONFORMING TO INDIAN STANDARD IS:456-2000 TO BE USED AND STEEL AS PER IS:1786:2007
  4. CEMENT, COARSE AND FINE AGGREGATE TO CONFORM TO RELEVANT IS SPECIFICATION.
  5. COVER TO RAFT 50mm
  6. GRADE OF CONCRETE RCC M25
  7. GRADE OF CONCRETE PCC M10
  8. PROTECTIVE RELIEF JOINT TO BE PROVIDED AT 1600mm
  9. ALL DIMENSIONS TO BE CONFIRMED BY ENGINEER IN CHARGE
  10. BOLTS ANCHORS OF EQUIPMENTS CAN BE PLACED AS PER GEOMETRICAL DETAILS.

PROJECT TITLE: FOUNDATION FOR WATER TUNNEL AT IITM, PUNE	SHEET NO. 1/1	REF. NO. B-496
CLIENT: IITM, PUNE		
STRUCTURAL DESIGN BY: B.G. BIRAJDAR		
PROFESSOR, APP. MECH COLLEGE OF ENGG., PUNE - 05		
MOBILE NO. - 9820072999		
FAX - 020-25507299		
Email - bbg@iitmadras.com		



*Birajdar*  
14/1/15

**Birajdar B. G.**  
Professor of Applied Mechanics  
College of Engineering  
Pune 411 005.



PLAN FOR FOUNDATION OF RAFT

PLAN VIEW GROUND FLOOR OF FDL (LAYOUT OF HEAVY SETUPS)  
ALL DIMENSIONS ARE IN METER

PLAN VIEW GROUND FLOOR OF FDL  
ALL DIMENSIONS ARE IN METER

