

**INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR
HOWRAH – 711 103, WEST BENGAL**

NOTICE INVITING TENDER

Tender no: ADVT. No. NO/D(AA)/16/62 dated 16.11.2016

NAME OF WORK	<i>“Construction of toilet block at Wind Tunnel Laboratory inside the campus.”</i>
PLACE OF WORK	<i>Indian Institute of Engineering Science & Technology, Shibpur, Howrah- 711 103.</i>
ESTIMATED VALUE	Rs. 7,25,488.17 (Rupees seven lakh twenty five thousand four hundred eighty eight and paise seventeen only)
PERIOD OF COMPLETION	30 (Thirty) days.
COST OF TENDER PAPER :	Rs. 500/- (Rupees five hundred only)
BID SECURITY	Rs 7,500/- (Rupees seven thousand five hundred only).
LAST DATE AND TIME FOR RECEIPT OF BIDS	Date: 02.12.2016 Time: 13.00 Hours Place: Office of the University Engineer
TIME AND DATE OF OPENING OF BIDS	Date: 02.12.2016 Time: 13.30 Hours
PLACE OF OPENING OF BIDS	Office of the University Engineer
OFFICER INVITING BIDS	<i>Dean, IPM, Indian Institute of Engineering Science & Technology, Shibpur, Howrah-711103</i>

TENDER DOCUMENT

Advt. no.:

Tender no: ADVT. No. NO/D(AA)/16/62 dated 16.11.2016

**For the work of:- Construction of toilet block at Wind Tunnel Laboratory
inside the campus.**

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|------------|--|
| Part – I | Deleted |
| Part – II | Detailed Bill of Quantities with estimated rates and amount. |
| Part – III | Instruction to bidders (in two sections) |
| Part – IV | Draft Agreement Form. |

**INDIAN INSTITUTE OF ENGINEERING, SCIENCE & TECHNOLOGY, SHIBPUR,
HOWRAH-711103**

BOQ FOR THE WORK OF: Construction of toilet block at Wind Tunnel Laboratory inside the campus

Sl No	Description of items of work (Based on PWD schedule of rates w.e.f. 01.12.2015.)	Unit	Unit Rate (Rs)	Quantity	Amount (Rupees)
1	Dismantling all types of masonry excepting cement concrete plain or reinforced, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m (Page 8, Item 1)	Cum.	451.00	7.84	3535.84
2	Dismantling R.C. floor, roof, beams etc. including cutting rods and removing rubbish as directed within a lead of 75 m. including stacking of steel bars. (a) In ground floor including roof. (Page 8, Item 3)	Cum.	1975.00	2.58	5095.50
3	Dismantling all types of plain cement concrete works, stacking serviceable materials at site and removing rubbish as directed within a lead of 75 m (a) upto 150 mm. Thick (Page 8, Item 2)	Cum.	949.00	1.08	1024.92
4	Earth work in excavation of foundation trenches or drains, in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m. as directed. The item includes necessary trimming the sides of trenches, levelling, dressing and ramming the bottom, bailing out water as required complete. (a) Depth of excavation not exceeding 1,500 mm. (Page 1, Item 2)	Cum.	120.47	19.20	2313.02
5	Single Brick Flat Soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with local sand. (page 12, Item 1)	Sqm.	374.00	15.00	5610.00
6	Ordinary Cement concrete (mix 1:2:4) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement,if any, in ground floor as per relevant IS codes. a) Pakur Variety (Page 12, Item 5)	Cum.	4427.00	1.23	5445.21

Sl No	Description of items of work (Based on PWD schedule of rates w.e.f. 01.12.2015.)	Unit	Unit Rate (Rs)	Quantity	Amount (Rupees)
7	Hire and labour charges for shuttering with centering and necessary staging upto 4 m using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams and columns, lintels curved or straight including fitting, fixing and striking out after completion of works (upto roof of ground floor) (a) 25 mm to 30 mm thick wooden shuttering as per decision & direction of Engineer-In- Charge. (Page 27, Item 12)	Sqm.	359.00	68.80	24699.20
8	Ordinary Cement concrete (mix 1:1.5:3) with graded stone chips (20 mm nominal size) excluding shuttering and reinforcement if any, in ground floor as per relevant IS codes. (i) Pakur Variety (Page 15, Item 7)	Cum.	5216.00	11.63	60662.08
9	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position and binding with 16 gauge black annealed wire at every intersection, complete as per drawing and direction. (Page 28, Item 15)	MT.	55.57	1404.77	78063.07
10	Brick work with 1st class bricks in cement mortar (1:6) (b) In superstructure, ground floor (Page 30, Item 22)	Cum.	5845.00	13.68	79959.60
11	125 mm. thick brick work with 1st class bricks in cement mortar (1:4) in ground floor. (Page 32, Item 29)	Sqm.	772.00	19.80	15285.60
12	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints including throating, nosing and drip course, scaffolding/staging where necessary (Ground floor).[Excluding cost of chipping over concrete surface] (i) With 1:6 cement mortar (b) 20 mm thick plaster (Page 164, Item 2)	Sqm.	174.00	248.25	43195.50

Sl No	Description of items of work (Based on PWD schedule of rates w.e.f. 01.12.2015.)	Unit	Unit Rate (Rs)	Quantity	Amount (Rupees)
13	Supplying, fitting & fixing 1st quality Ceramic tiles in walls and floors to match with the existing work & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide if required to match the colour of tiles including roughening of concrete surface, if necessary or by synthetic adhesive & grout materials etc. (Page 54, Item 30)	Sqm.			0.00
	(A) Floor With Sand Cement Mortar (1:4) 20 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m. (a) Area of each tile upto 0.09 Sq.m (i) Coloured decorative	Sqm.	837.00	18.48	15467.76
15	(B) Wall With Sand Cement Mortar (1:3) 15 mm thick & 2 mm thick cement slurry at back side of tiles using cement @ 2.91 Kg/Sq.m & joint filling using white cement slurry @ 0.20kg/Sq.m. (b) Area of each tile above 0.09 Sq.m (i) Coloured decorative	Sqm.	1193.00	83.16	99209.88
16	(b) Rendering the surface of walls and ceiling with white cement based wall putty of approved make and brand(1.5mm thick) (Page 175, Item 5)	Sqm.	122.00	80.10	9772.20
17	Supplying, fitting and fixing fibre reinforced polymer (FRP) Composite door frame as per approved section with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolitaheic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS: 4020 door testing performance criteria. (ii) 66mm x 90mm. (Page 143, Item 144)	RMT.	586.00	48.60	28479.60
18	Supplying, fitting & fixing fibre reinforced polymer (FRP) Composite door shutters as per approved design with glass fibre reinforced plastic moulded skins and a special sandwich core, so as to impart monolitaheic composite structure as per approved technology of Department of Science and Technology (DST) to satisfy IS:4020 door testing performance criteria. (i) 32 mm. thick (Page 143, Item 143)	Sqm.	3263.00	16.20	52860.60

Sl No	Description of items of work (Based on PWD schedule of rates w.e.f. 01.12.2015.)	Unit	Unit Rate (Rs)	Quantity	Amount (Rupees)
19	Iron butt hinges of approved quality fitted and fixed with steel screws, with ISI mark. (vi) 100mm. X 50mm. X 1.25mm.	Each.	48.00	18.00	864.00
20	Iron hasp bolt of approved quality fitted and fixed complete (oxidised) with 16mm dia rod with centre bolt and round fitting. (b) 250mm long.	Each.	184.00	6.00	1104.00
21	Anodised aluminium D-type handle of approved quality manufactured from extruded section conforming to I.S. specification (I.S. 230/72) fitted and fixed (a) With continuous plate base (Hexagonal / Round rod) (iv) 125 mm grip x 10 mm dia rod.	Each.	108.00	12.00	1296.00
22	Anodised aluminium barrel / tower / socket bolt (full covered) of approved manufactured from extruded section conforming to I.S. 204/74 fitted and fixed with cadmium plated (v) 150mm long x 12mm dia. bolt.	Each.	103.00	12.00	1236.00
23	i) Hydraulic door closer of approved quality as per I.S.I. standard fitted and fixed (b) Medium (I.S.I. size 2) (Page 101, Item 43)	Each.	1562.00	3.00	4686.00
24	(a) Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothing surfaces by sand papering etc. (Page 176, item 7 a)	Sqm.	41.00	70.95	2908.95
25	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Superintending Engineer) : Two Coats i) Standard Quality	Sqm.	67.00	70.95	4753.65
26	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Superintending Engineer) : Two Coats i) Standard Quality	Sqm.	41.00	94.95	3892.95

Sl No	Description of items of work (Based on PWD schedule of rates w.e.f. 01.12.2015.)	Unit	Unit Rate (Rs)	Quantity	Amount (Rupees)
27	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary (a) On timber or plastered surface : With super gloss (hi-gloss) - (iv) Two coats (with any shade except white)	Sqm.	89.00	26.40	2349.60
28	Labour for dismantling G.I. pipe with fittings				
	(i) 15 mm	Mtr.	6.00	12.00	72.00
	(ii) 20 mm	Mtr.	6.00	8.00	48.00
	(iii) 25 mm	Mtr.	6.00	6.00	36.00
29	Dismantling wash basin with brackets with or without waste fittings	each	35.00	2.00	70.00
30	Dismantling pillar cock of wash basin.	each	9.00	1.00	9.00
31	Dismantling Indian W.C. including taking out base concrete as necessary.	each	45.00	1.00	45.00
32	Dismantling urinal.	each	33.00	2.00	66.00
33	Supplying, fitting and fixing G.I. pipes of TATA make with all necessary accessories, specials viz. socket, bend, tee, union, cross, elbo, nipple, longscrew, reducing socket, reducing tee, short piece etc. fitted with holder bats clamps, including cutting pipes, making threads, fitting, fixing etc. complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. (Payment will be made on the centre line measurements of total pipe line including all specials. No separate payment will be made for accesories, specials. Payment for painting will be made seperately)				0.00
	(ii) 15 mm dia. medium quality	Mtr.	220.00	36.00	7920.00
	(ii) 20 mm dia. medium quality	Mtr.	260.00	24.00	6240.00
	ii) 25 mm dia. medium quality	Mtr.	354.00	18.00	6372.00
34	Supplying, fitting and fixing 10 litre P.V.C. low-down cistern conforming to I.S. specification with P.V.C. fittings complete, C.I. brackets including two coats of painting to bracket etc.	each	1181.00	3.00	3543.00

Sl No	Description of items of work (Based on PWD schedule of rates w.e.f. 01.12.2015.)	Unit	Unit Rate (Rs)	Quantity	Amount (Rupees)
35	Supplying, fitting and fixing E.W.C. in white glazed vitreous chinaware of approved make complete in position with necessary bolts, nuts etc. (a) With 'P' trap	each	1776.00	3.00	5328.00
36	Supplying, fitting and fixing white vitreous china best quality approved make wash basin with C.I. brackets on 75 mm X 75 mm wooden blocks, C.P. waste fittings of 32 mm dia., one approved quality brass C.P. pillar cock of 15 mm dia., C.P. chain with rubber plug of 30 mm dia., approved quality P.V.C. waste pipe with C.P. nut 32 mm dia., 900 mm long approved quality P.V.C. connection pipe with heavy brass C.P. nut including mending good all damages and painting the brackets with two coats of approved paint. (iii) 630 mm X 450 mm size	each	3873.00	3.00	11619.00
37	Supplying, fitting and fixing Flat back urinal (half stall urinal) in white vitreous chinaware of approved make in position with brass screws on 75 mm X 75 mm X 75 mm wooden blocks complete. (i) 590 mm X 390 mm X 380 mm	each	2990.00	3.00	8970.00
38	Supplying, fitting and fixing Squating plate with integral flushing in white vitreous chinaware of approved make in cement concrete (6:3:1) with jhama chips complete. (Payment of concrete will be paid separately). (i) 450 mm X 350 mm	each	1103.00	3.00	3309.00
39	Supplying, fitting and fixing bib cock or stop cock. (a) (i) Chromium plated Bib Cock short body (Equivalent to Code No. 511 & Model - Tropical / Sumthing Special of ESSCO or similar brand).	each	689.00	12.00	8268.00
40	(g) Supplying, fitting and fixing alloy iron with brass spindle bib cock/ stop cock of approved brand and make, spray painted and tested to 21 kg per sq. cm. (iii) 25 mm	each	576.00	6.00	3456.00
41	(Supplying, fitting and fixing best quality Indian make mirror 5.5 mm thick with silvering as per I.S.I. specifications supported on fibre glass frame of any colour, frame size 550 mm X 400 mm	each	792.00	3.00	2376.00
42	Supplying, fitting and fixing liquid soap container. (c) Fibre glass	each	240.00	3.00	720.00
43	Supplying, fitting and fixing towel rail with two brackets. (i) 25 mm dia. and 450 mm long	each	494.00	3.00	1482.00

Sl No	Description of items of work (Based on PWD schedule of rates w.e.f. 01.12.2015.)	Unit	Unit Rate (Rs)	Quantity	Amount (Rupees)
44	Supplying, fitting and fixing Waste fittings complete. (a) C.P. over brass (ii) 32 mm each	each	245.00	6.00	1470.00
45	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (A) (i) Single Socketed 3 Meter Length (b) 110 mm	metre	348.00	25.00	8700.00
46	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (ii) Double Socketed 3 Meter Length (b) 110 mm	metre	375.00	3.00	1125.00
47	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (ii) Plain Tee (b) 110 mm	each	182.00	4.00	728.00
48	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 (iii) Door Tee (b) 110 mm	each	233.00	4.00	932.00
49	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 ix) Bend 45° (b) 110 mm	each	106.00	7.00	742.00
50	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 Door Bend (T.S.) (b) 110 mm	each	176.00	3.00	528.00
51	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 xv) Vent Cowl (b) 110 mm	each	39.00	3.00	117.00
52	Supply of UPVC pipes (B Type) & fittings conforming to IS-13592-1992 xvi) Pipe Clip (b) 110 mm	each	25.00	20.00	500.00
53	Supplying P.V.C. water storage tank of approved quality with closed top with lid (Black) - Multilayer (a) 500 litre capacity (Page 32, Item 6)	each	3076.00	2.00	6152.00
54	Labour for hoisting plastic water storage tank. (i) Upto 1500 litre capacity. (Page 32, Item 10)				

Sl No	Description of items of work (Based on PWD schedule of rates w.e.f. 01.12.2015.)	Unit	Unit Rate (Rs)	Quantity	Amount (Rupees)
	(a) Upto 1st story from G.L.	each	97.00	2.00	194.00
	(b) Extra for each additional story	each	88.00	2.00	176.00
55	Labour for punching hole in plastic water storage tank upto 50 mm dia. (Page 33, Item 13)	each	19.00	6.00	114.00
53	Constructing Inspection pit of inside measurement 600mm X 600mm X upto 600mm (depth) with 250 mm thick 1st. class brick work in cement mortar (1:4) on all sides, bottom of the pit consisting of 100 mm thick cement concrete (1:3:6) with stone chips over a layer of jhama brick flat soling, 15 mm thick (1:4) cement plaster to inside walls and out-side walls upto G.L. and 20 mm.thick (1:4) plaster to bottom of the pit, providing necessary invert with cement concrete (1:3:6) with stone chips as per direction, neat cement finishing to entire internal surfaces, top of the pit covered with 100 mm thick R.C.C. slab (1:1.5:3) with stone chips and necessary reinforcements upto 1% and shuttering including 6 mm thick cement plaster (1:4) in all external surfaces of the slab and one 560 mm dia. R.C.C. manhole cover of approved make supplied, fitted and fixed in the slab with necessary fittings, necessary earthwork in excavation in all sorts of soil, filling sides of the pit with earth and removing spoils after work complete in all respect with all costs of labour and materials. i) With Pakur variety.	each	7749.00	2.00	15498.00
54	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive decorative textured(matt finish) or smooth finish acrylic exterior emulsion paint including scraping and preparing the surface throughly, complete as per manufacturer's specification and as per direction of the EIC. (a) One Coat (Page 172, item 15)	Sqm.	34.04	504.00	17156.16
55	Protective and Decorative Acrylic exterior emulsion paint of approved quality, as per manufacturer's specification and as per direction of EIC to be applied over acrylic primer as required. The rate includes cost of material, labour, scaffolding and all incidental charges but excluding the cost of primer. (Two Coat) a) Normal Acrylic Emulsion (Page 173, item 19)	Sqm.	73.00	504.00	36792.00
56	Removing loose scales, blisters etc. from old painted surface and thoroughly smoothening the surface to make the same suitable for receiving fresh coat of paint. (Page 175, item 1)	Sqm.	22.00	53.05	1167.10

Sl No	Description of items of work (Based on PWD schedule of rates w.e.f. 01.12.2015.)	Unit	Unit Rate (Rs)	Quantity	Amount (Rupees)
57	(a) Priming one coat on timber or plastered surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc.	Sqm.	41.00	25.17	1031.97
58	(b) Priming one coat on steel or other metal surface with synthetic oil bound primer of approved quality including smoothening surfaces by sand papering etc. (Page 176, item 7)	Sqm.	31.00	27.88	864.28
59	(A) Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc. including using of approved putty etc. on the surface, if necessary (Page 176, item 8)	Sqm.			
	(a) On timber or plastered surface : (iv) Two coats (with any shade except white)	Sqm.	89.00	25.17	2240.13
	(b) On steel or other metal surface : (iv) Two coats (with any shade except white)	Sqm.	86.00	27.88	2397.68
60	Surface Dressing of the ground in any kind of soil including removing vegetation inequalities not exceeding 15 cm depth and disposal of the rubbish within a lead upto 75 m as directed. (Page 1, item 1)	Sqm.	11.00	40.00	440.00
60	Removal of rubbish, earth etc. from the working site and disposal of the same beyond the compound, in conformity with the Municipal Corporation Rules for such disposal, loading into truck and cleaning the site in all respect as per direction of Engineer in charge (Page 10, item 13)	Cum.	168.00	16.09	2703.12
Total					725488.17
(Rupees seven lakh twenty five thousand four hundred eighty eight and paise seventeen only)					

I / We offer to execute the Works described in the Bill of Quantities in Part II of the Tender Document in your letter / tender no referred to above in accordance with the Conditions of Contract enclosed therewith at _____ percentage above / below (*) the estimated rates, i.e. for a total Contract Price of

Rs. _____ [in figures] *

Rs. _____ [in words]"

Authorized Signature :

Date: _____

PART-III: Instructions to Bidders**SECTION - A****1. Scope of Works**

The Dean, IPM, Indian Institute of Engineering Science & Technology, Shibpur, Howrah-711103 invites item rate tender for the works as detailed in the table given below

Tender No	Brief Description of the Works	Value of Works (Rs)	Period of Completion
	<i>Construction of toilet block at Wind Tunnel Laboratory inside the campus</i>	Rs. 7,25,488.17 (Rupees seven lakh twenty five thousand four hundred eighty eight and paise seventeen only)	60 (sixty) days.

The successful bidder will be expected to complete the works by the intended completion date specified above.

2. Qualification of the bidder: The bidder shall provide qualification information which shall include :-

- (a) total monetary value of construction works performed for each year of the last 3 years :
- (b) (i) Copy of the up to date Income Tax return submitted to the concerned I.T.O
(ii) Copy of PAN Card & VAT Registration Certificate
- (c) Valid trade licence of similar work.
- (d) Report on his financial standing; and
- (e) Details of any litigation, current or during the last 3 years in which the bidder is involved, the parties concerned and disputed amount in each case.

3. To qualify for award of the contract the bidder: -

- a) should have satisfactorily completed as a prime contractor at least one similar work of value not less than Rs. 6,00,000/- (Rupees six lakh only) or two similar works of values not less than Rs 3,50,000/- (Rupees three lakh fifty thousand only) in the last three years;

4. Bid Price

- a) The contract shall be for the whole works as described in the Bill of Quantities, drawings and technical specifications. Corrections, if any, shall be made by crossing out, initialling, dating and rewriting.
- b) The tenderers are required to quote their rates, both in amount as well as in the percentage below/above the rates entered in the Schedule. In the event of arithmetical error committed in working out the amount by the contractor, the tendered percentage and not the amount should be taken into account.
- c) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
- d) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- e) The rates should be quoted in Indian Rupees only.

5. Submission of Quotations

5.1 The bidder is advised to visit the site of works at his own expense and obtain all information that may be necessary for preparing the quotation.

5.2 Each bidder shall submit only one quotation.

5.3 The quotation submitted by the bidder shall comprise the following :-

- (a) Quotation in the format given in Section **B**.
- (b) Priced Bill of Quantities duly signed by the bidder; and
- (c) Qualification information form given in Section B duly completed.
- (d) A **DD of Rs. 500/- (Rupees five hundred only)** in favour of “Registrar, IEST, Shibpur” payable at Kolkata has to be submitted along with the tender as a cost of tender document.
- (e) ***Bid security of Rs 7,500/- (Rupees seven thousand five hundred only)***.in the form of Bank Draft drawn on any nationalised bank in favour of “Registrar, *IEST, Shibpur*” account payable at *Howrah*.

5.3.1 Bid Security:

- a) The Bid Security shall have to be valid for a period not less than 45 days after the deadline date specified for submission.
- b) The Bid Security of the unsuccessful bidders will be returned within 28 days of the end of bid validity period specified in Clause no 6
- c) The Bid Security of the successful bidder will be discharged when the bidder has signed the Agreement and furnished the required Performance Security.

- 5.4** The bidder shall seal the quotation in an envelope addressed to “*Dean, IPM, Indian Institute of Engineering Science & Technology, Shibpur, Howrah-711103*”. The envelope will also bear the following identification: -

Quotation for: “*Construction of toilet block at Wind Tunnel Laboratory inside the campus*”

Do not open before _____ hours dated _____ (time and date of quotation opening).

- 5.5** Quotations must be received in the office of *The University Engineer, Indian Institute of Engineering Science & Technology, Shibpur, Howrah-711103* latest by the specified time and date. If the specified date is declared a holiday, quotations shall be received up to the appointed time on the next working day.
- 5.6** Any quotation received by the University Engineer, *Indian Institute of Engineering Science & Technology, Shibpur, Howrah-711103* after the deadline for submission of quotations will be rejected and returned unopened to the bidder.

6. Validity of Quotation

Quotation shall remain valid for a period not less than 45 days after the deadline date specified for submission.

7. Opening of Quotations

Quotations will be opened in the presence of Bidders or their representatives who choose to attend at the specified time and date in the office of “*University Engineer, Indian Institute of Engineering Science & Technology, Shibpur, Howrah-711103*”

- 8.** Information relating to evaluation of quotations and recommendations for the award of contract shall not be disclosed to bidders or any other persons not

officially concerned with the process until the award to the successful bidder is announced.

9. Evaluation of Quotations

The Employer will evaluate and compare the quotations determined to be substantially responsive i.e. which

- (a) meet the qualification criteria specified in clause 3 above;
- (b) contains the bid security as specified in clause 5.3 above;
- (c) are properly signed ; and
- (d) conform to the terms and conditions, specifications and drawings without material deviations.

10. Award of contract

The Employer will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price and who meets the specified qualification criteria and provided the bid security.

10.1 Notwithstanding the above, the Employer reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

10.2 The bidder whose bid is accepted will be notified of the award of contract by the Employer prior to expiration of the quotation validity period.

11. Performance Security

Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the *Registrar, Indian Institute of Engineering Science & Technology, Shibpur, Howrah-711103*, the performance security either a bank guarantee or a bank draft drawn on any nationalized bank in favour of "*Registrar, IEST, Shibpur*" account payable at Kolkata for an amount equivalent of 3 % of the contract price. The Performance Security shall be valid until a date 28 days from the intended date of Completion in the case of a Bank Guarantee. On receipt of the 3 % performance security and signing of the Agreement the Employer will discharge the Bid Security.

12. Security Deposit:

The employer shall retain 7% from each payment due to the contractor as security deposit which shall be released when the Period of Maintenance has passed and Engineer has certified that all defects notified by the Engineer to the Contractor before the end of this period have been corrected.

13 Period of Maintenance.

The “Period of Maintenance” for the work is twenty four months from the date of taking over possession of the completed works or two full monsoon season whichever occurs later. During the period of maintenance, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.

- 14.** Purchase of all construction materials including cement and steel as per the specifications (ISI certification marked goods wherever available) shall be the responsibility of the contractor.

SECTION - B

- 1. Format for Qualification Information.**
- 2. Format for Submission of Quotation.**
- 3. Format of Letter of Acceptance.**

QUALIFICATION INFORMATION**1 For Individual Bidders**

1.1 Principal place of business: _____

Power of attorney of signatory of Quotation.

[Attach copy]

1.2 Total value of Civil Engineering construction work performed in the last three years (in Rs. Lakhs)

2013 – 2014	_____
2014 – 2015	_____
2015 – 2016	_____

1.3 Work performed as prime contractor (in the same name) on works of a similar nature over the last three years.

<u>Project Name</u>	<u>Name of Employer</u>	<u>Description of work</u>	<u>Contract No.</u>	<u>Value of contract (Rs.Lakhs)</u>	<u>Date of issue of work order</u>	<u>Stipulated period of completion</u>	<u>Actual date of completion</u>	<u>Remarks explaining reasons for delay and work completed</u>

Existing commitments and on-going works:

Description of Work	Place & State	Contract No. & Date	Value of Contract (Rs. Lakh)	Stipulated period of completion	Value of works* remaining to be completed (Rs. Lakhs)	Anticipated date of completion
(1)	(2)	(3)	(4)	(5)	(6)	(7)

* Enclose a certificate from Engineer concerned.

1.4 Proposed subcontracts and firms involved.

Sections of the works	Value of Sub-contract	Sub-contractor (name & address)	Experience in similar work
*	*	*	*
*	*	*	*
*	*	*	*

1.5 Evidence of access to financial resources to meet the requirements of working capital: cash in hand, lines of credit, etc. List them below and attach copies of support documents.

1.6 Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.

1.7 Information on litigation history in which the Bidder is involved.

Other party(ies)	Employer	Cause of dispute	Amount involved	Remarks showing present status

QUOTATION

To: The Dean, IPM,
Institute of Engineering Science & Technology, Shibpur,
Howrah-711103

Subject: *“Construction of toilet block at Wind Tunnel Laboratory inside the campus.”*

Reference: Letter No / Tender No..... dated
from.....

Sir,

I/We offer to execute the Works described in the Bill of Quantities in Part II of the Tender Document in your letter / tender no referred to above in accordance with the Conditions of Contract enclosed therewith at _____ percentage **above / below** (*) the estimated rates, i.e. for a total Contract Price of

Rs. _____ [in figures] **
Rs. _____ [in words] **

This quotation and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any quotation you receive.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

We hereby confirm that this quotation is valid for 45 days as required in Clause 6 of the Instructions to Bidders.

Yours faithfully,

Authorized Signature : Date: _____

Name & Title of Signatory : _____

Name of Bidder : _____

Address : _____

* Put ✓ mark & Strikeout as applicable

** To be filled in by the Bidder, together with his particulars and date of submission at the bottom of this Form.

Note: the Bidder shall attach duly priced and duly signed Bill of Quantities in Part-II of Tender Document

**LETTER OF ACCEPTANCE
CUM NOTICE TO PROCEED WITH THE WORK**

(LETTERHEAD OF THE EMPLOYER)

Dated : _____

To : _____ [Name and address of the Contractor]

Dear Sirs,

This is to notify you that your Quotation dated _____ for execution of the _____ for the contract price of Rupees _____ [amount in words and figures], is hereby accepted by us.

You are hereby requested to furnish performance security for an amount of Rs. _____ (equivalent to 3% of the contract price) within 15 days of the receipt of the letter. The Performance Security in the form of Bank guarantee or a Bank draft in favour of The Registrar, *BESU Shibpur payable at Howrah* shall be valid until a date 28 days from the intended date of Completion i.e. up to _____. Failure to furnish the Performance Security will entail cancellation of the award of contract.

You are also requested to sign the agreement form and proceed with the work not later than _____ under the instructions of the Engineer, _____ and ensure its completion within the contract period.

With the issuance of this acceptance letter and your furnishing the Performance Security, contract for the above said work stands concluded.

Yours faithfully,

Authorized Signature

Name and title of Signatory

PART-IV Draft Agreement form

ARTICLES OF AGREEMENT

1. This deed of agreement is made in the form of agreement on _____ day _____ month _____ 2014, between *The Dean, IPM, Indian Institute of Engineering Science and Technology, Shibpur, Howrah-711103* (Employer) or his authorized representative (hereinafter referred to as the first party) and _____ (Name of the Contractor), S/O _____ resident of _____ (hereinafter referred to as the second party), to execute *Construction of toilet block at Wind Tunnel Laboratory inside the campus.*” (hereinafter referred to as works) on the following terms and conditions.

2. Cost of the Contract

The total cost of the works (hereinafter referred to as the “total cost”) is Rs. _____ as reflected in Annexure - 1.

3 Payments under this contract:

Payments to the second party for the construction work will be released by the first party in the following manner:

- 3.1** Contractor will raise bills in an interval of not less than 15 days, along with details of measurement of the executed quantities of items of works in the Bill of Quantities, in a tabulated form as approved by the Engineer, nominated by the first party (who is responsible for supervising the contractor, administering the contract, certifying the payments due to the contractor, issuing and valuing variations to the contract, awarding extensions of time etc.)
- 3.2** The Engineer shall check the Contractor’s bill and within 14 days certify the amount to be paid to the Contractor
- 3.3** The value of the work executed shall be determined by the Engineer
- 3.4** The value of work executed shall comprise the value of the quantities of the items in the Bill of Quantities completed.
- 3.5** The Engineer may exclude any item certified in a previous bill or reduce the proportion of any item previously certified in any bill in the light of later information.

4. Notices by Contractor to Engineer

The second party will issue notice to the first party or the Engineer to visit the site and record the measurement of the quantity of the items of works completed for raising the bill.

5. Completion time

The works should be completed in 30 (*thirty*) days from the date of notice to proceed with the work. In exceptional circumstances, the time period stated in this clause may be extended in writing by mutual consent of both the parties.

6. If any of the compensation events mentioned below would prevent the work being completed by the intended completion date, the first party will decide on the intended completion date being extended by a suitable period:

- a) The first party does not give access to the site or a part thereof by the agreed period.
- b) The first party orders a delay
- c) Payments due to the second party are delayed without reason.
- d) Ground conditions are substantially more adverse than could reasonably have been assumed before issue of letter of acceptance and from information provided to second party or from visual inspection of the site.

7. Any willful delay on the part of the second party in completing the construction within the stipulated period will render him liable to pay liquidated damages. @ Rs. *_____ per day which will be deducted from payments due to him. The first party may cancel the contract and take recourse to such other action as deemed appropriate once the total amount of liquidated damages exceeds 2 % of the contract amount.

(Note : The amount of liquidated damages per day should be determined at 0.05 % of the contract value of the works and indicated here).

8. Duties and responsibilities of the first party

8.1 The first party shall be responsible for providing regular and frequent supervision and guidance to the second party for carrying out the works as per specifications. This will include written guidelines and regular site visit of the authorized personnel of the first party, for checking quality of material and construction to ensure that it is as per the norms.

8.2 Deleted

8.3 The Engineer or such other person as may be authorized by the first party shall hold meeting where the second party or his representative at site will submit the latest information including progress report and difficulties if any, in the execution of the work. The whole team may jointly inspect the site on a particular day to take stock of activities.

8.4 The Engineer shall record his observations/instructions at the time of his site visit in a site register maintained by the second party. The second party will carry out the instructions and promptly rectify any deviations pointed out by the engineer. If the deviations are not rectified, within the time specified in the Engineer's notice, the first party as well as the engineer nominated by it, may instruct stoppage or suspension of the construction. It shall thereupon be open to the first party or the engineer to have the deviations rectified at the cost of the second party.

9. Duties and responsibilities of the second party

9.1 The second party shall :

- a) take up the works and arrange for its completion within the time period stipulated in clause 5;
- b) employ suitable skilled persons to carry out the works ;
- c) regularly supervise and monitor the progress of work ;
- d) abide by the technical suggestions / direction of supervisory personnel including engineers etc. regarding building construction ;
- e) be responsible for bringing any discrepancy to the notice of the representative of the first party and seek necessary clarification :
- f) ensure that the work is carried out in accordance with specifications, drawings and within the total of the contract amount without any cost escalation ;
- g) keep the first party informed about the progress of work ;
- h) be responsible for all security and watch and ward arrangements at site till handing over of the building to the first party ; and
- i) maintain necessary insurance against loss of materials/cash, etc. or workman disability compensation claims of the personnel deployed on the works as well as third party claims.

- j) pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will effect deduction from running bills in respect of such taxes as may be imposed under the law).
- k) clear the site on completion of work.

10. Variations / Extra Items

The works shall be carried out by the second party in accordance with the approved drawings and specifications. However, if, on account of site conditions or any other factors, variations are considered necessary, the following procedure shall be followed:-

- a) The second party shall provide the Engineer with a quotation for carrying out the Variation when requested to do so by the Engineer. The Engineer shall assess the quotation, which shall be given within seven days of the request before the Variation is ordered.
- b) If the quotation given by the second party is unreasonable, the Engineer may order the Variation and make a change to the Contract Price which shall be based on Engineer's own forecast of the effects of the Variation on the Contractor's costs.
- c) The second party shall not be entitled to additional payment for costs, which could have been avoided by giving early warning.

11. Securities

- a) The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer. The Performance Security shall be valid until a date 28 days from the intended date of Completion in the case of a Bank Guarantee.
- b) The employer shall retain 7% from each payment due to the contractor as security deposit which shall be released when the Period of Maintenance has passed and Engineer has certified that all defects notified by the Engineer to the Contractor before the end of this period have been corrected.

12. Termination

- 12.1 The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.
- 12.2 Fundamental breaches of Contract include, but shall not be limited to the following:
 - (a) the contractor stops work for 07 days and the stoppage has not been authorized by the Engineer;

- (b) the Contractor has become bankrupt or goes into liquidation other than for a reconstruction or amalgamation;
- (c) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;
- (d) the Contractor does not maintain a security which is required;

12.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.

12.4 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

13. Payment upon Termination

13.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law.

13.2 If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

14. Dispute settlement

If over the works, any dispute arises between the two parties, relating to any aspects of this Agreement, the parties shall first attempt to settle the dispute through mutual and amicable consultation.

In the event of agreement not being reached, the matter will be referred for arbitration by a Sole Arbitrator not below the level of retired Superintending Engineer, PWD to be appointed by the first party. The Arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties.

15. Period of Maintenance:

The “Period of Maintenance” for the work is twenty four months from the date of taking over possession of the completed works or two full monsoon season whichever occurs later. During the period of maintenance, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.

BILL OF QUANTITIES

Sl.No.	Description of Work	Estimated Cost				
		Qty.	Unit	Rate in figure (Rs)	Rate in Words	Amount (Rs.)

Gross Total Cost : Rs.

We agree to execute the works in accordance with the approved drawings and technical specifications at percentage above/below the estimated rates, i.e., for a total contract price of Rs.(amount in figures) (Rs. amount in words).

Signature of Contractor