

**North East Cane and Bamboo Development Council
G S Road, Burnihat, Assam**

TENDER DOCUMENT

for

**“Construction of Tissue Culture Laboratory Building”
at NECBDC, Burnihat, Assam”.**

Document Price: Rs.1000/- only

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1. BRIEF DESCRIPTION:

North East Cane and Bamboo Development Council (NECBDC) is mandated for providing all round support for development of the bamboo sector in the NE Region of India. The North Eastern Council, Ministry of DoNER, Government of India has sanctioned a project – “Establishment of Tissue Culture Unit” at NECBDC, Burnihat, Assam. The NECBDC invites reputed Construction Companies / Registered Contractors/ Government Agencies, to participate in the bidding process.

2. PARTICULARS OF TENDER:

1. TENDER No. : **NECBDC/TISSUE/260/2020**
2. Name of the work : **Construction of Tissue Culture Laboratory Building.**
3. Period of work : **15 (fifteen) months from the date of issue of the Work Order**
4. Cost of TENDER : **Rs 1000/- in cash or in the form of a Demand Draft drawn in favor of “North East Cane and Bamboo Development Council”.**
5. Last date and time of Submission of TENDER (by hand/courier/ post) : **21st November 2023 before 3 PM**
6. Period of validity of TENDER for acceptance : **15 Days**
7. Date and time of opening of TENDER : **21st November 2023 at 4 pm**
8. Place of opening of TENDER : **North East Cane and Bamboo Development Council, 13th Mile, G.S. Road, Burnihat, Assam.**
9. Name of firm / to whom TENDER document is issued :

**(Signature of Issuer)
with seal**

3. SUBMISSION OF TENDER

3.1 SEALING AND MARKING OF TENDER:

3.1.1 The TENDER must be complete in all aspect and should contain requisite certificate, drawings, informative literature etc. as required in the specification.

3.1.2 Tender Document can be obtained from the office or downloaded from www.necbdc.in/tender

3.1.3 This is a two-part bid consisting of (1) a technical bid and (2) a financial bid. The Technical and Financial bids should be sealed in separate envelopes and then be sealed in one Envelope clearly superscribing on the envelope, “**Tender for Construction of Tissue Culture Laboratory Building**”.

3.1.4 **The bid shall include:**

- a. Forwarding letter by the Tenderer
- b. Bid Documents
- c. All required supporting documents
- d. Cost of the tender document by Demand Draft (non-refundable).

3.1.5 TENDER should be addressed to: -

**Managing Director
North East Cane and Bamboo Development Council
13th Mile, G.S. Road, Burnihat, Assam-793101**

a. The TENDER should be submitted at the office of North East Cane and Bamboo Development Council, before **3.00 PM** on 21.11.2023.

b. Tenders can be sent by Speed Post, however, NECBDC will not be responsible for any delay or late receipt.

c. Tenders can also be deposited personally in the Tender Drop Box at NECBDC.

3.2 EXPENSES OF AGREEMENT:

All the expenses of completing the agreement including the cost of stamp or any other kind of expenditure incurred in the process of TENDER submission till final compliance shall be borne by the Tenderer.

3.3 LATE BIDS:

Any TENDER received after the deadline for submission of TENDER prescribed by the North East Cane and Bamboo Development Council shall be rejected and/or returned unopened to the Tenderer.

3.4 GENERAL TERMS & CONDITIONS:

1. Quotations are to be submitted in ONE SEALED ENVELOPE containing all the required documents.
2. The NECBDC will contact only the successful bidders.
3. The NECBDC reserves the right to split the works among two or more parties.
4. The rates quoted against the specifications mentioned in the bid are not negotiable.
5. The bidders may specifically mention if any higher specifications are offered.

6. Failure to complete the works on the scheduled date, the party will be Blacklisted from participating in any future bid/tender.
7. The Decision of acceptance of the quotation will lie with the competent authority of North East Cane and Bamboo Development Council, which does not bind itself to accept the lowest quotation, and reserves the right to reject or partially accept any or all quotations received, without assigning any reason thereof.

4. TENDER OPENING:

4.1 OPENING OF TENDER:

The tender bids received will be opened on the date and time mentioned in the presence of the bidders or their representatives. Only a single person following all SOP will be allowed entry into the room.

4.2 CLARIFICATION OF TENDER:

4.2.1 To assist in the examination, evaluation, and comparison of TENDER, NECBDC may at its discretion ask the Tenderer for a clarification on the TENDER which is submitted by him. The request for clarification and the response shall be in writing.

4.2.2 NECBDC will be at liberty to involve any expert or consultant in evaluating the bid for completing the entire bid process.

5. AWARD OF CONTRACT:

5.1 RESERVATIONS AND ELIGIBILITY CRITERIA

The Tenderer should pass in all items of "Eligibility Criteria".

5.1.1. NECBDC reserves the right of negotiation with eligible Tenderers before the finalization of the TENDER process.

5.1.2. NECBDC reserves the right at the time of award of the contract to increase or decrease the number of works without any change in terms and conditions.

5.1.3. NECBDC reserves the right to accept any bid and to reject any or all bids or accept any TENDER in total or in parts or to split the work among various Tenderers without assigning any reason thereof.

5.2 ELIGIBILITY CRITERIA

5.2.1. The Tenderer should have executed works in construction works of any government Departments/undertakings/PSUs, etc.

5.2.2. Applicant should have all requisite documents as required by NECBDC

6. NOTIFICATION OF AWARD

Prior to the expiration of the period of TENDER validity, the NECBDC will inform the Tenderer by registered letter or by phone or fax or by e-mail that the bid has been accepted and the work has been awarded.

7. EXECUTION PERIOD

The entire work shall be completed in all respect within 15 months **from** the date of award of work order. In case the supply work cannot be completed in 15 months than bidders are required to mention the same in the bid document with justifications.

7. HOW TO APPLY:

7.1 COVERING LETTER:

(To be typed on the company’s letterhead)

To
The Managing Director
North East Cane and Bamboo Development Council
13 Mile, G.S. Road, Burnihat, Assam
PIN – 793101(Assam)

Sub: Submission of tender for construction of Tissue Culture Laboratory Building.

Dear Sir,

With reference to your TENDER notice dated 2023, I have examined the TENDER document and understand its contents. I hereby submit my Bid for the construction of the Tissue Culture Laboratory Building”.

- 1. The Application is unconditional for the said Tender.
- 2. It is acknowledged that the Authority will be relying on the information provided in the tender and the documents accompanying such tender for qualification of the bidders for the above-mentioned project, and we certify that all information provided in the tender and in Annexures are true and correct; nothing has been misrepresented and omitted which renders such information misleading; and all documents accompanying the bid are true copies of their respective originals.
- 3. This statement is made for the express purpose of the above-mentioned subject.
- 4. We shall make available to the Authority any additional information it may find necessary or require supplementing or authenticating the qualification statement.
- 5. We acknowledge the right of the Authority to reject our bid without assigning any reason or otherwise and hereby relinquish, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.
- 6. It is declared that:
 - (a) We have examined and have no reservations in the Tender document
 - (b) We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice, or restrictive practice in respect of any Bid or request for proposal issued by or any agreement entered into with the Authority or any other public sector enterprise or any government, Central or State.
- 7. It is understood that NECBDC may cancel the Bidding Process at any time without incurring any liability and that you are neither bound to invite the applicants to Bid for the project nor to accept any bid that you may receive.
- 8. It is certified that we have not been convicted by a Court of Law or indicted or adverse orders

passed by a regulatory authority that could cast doubt on our ability to undertake the Project or which relates to a grave offense that outrages the moral sense of the community.

9. It is further certified that no investigation by any regulatory agency is pending against us.

10. It is hereby affirmed that we are in compliance of/ shall comply with the maintenance requirements for one year.

11. We hereby irrevocably relinquish any right or remedy which we may have at any stage at law or howsoever otherwise arising to challenge or question any decision taken by the Authority in connection with the selection of bidders, selection of the Tenderer, or in connection with the selection/ Bidding Process itself, in respect of the above-mentioned Project and the terms and implementation thereof.

12. We agree to undertake to abide by all the terms and conditions of the TENDER Document.

13. We agree to undertake to be liable for all the obligations of the Tenderer under the Agreement

. In witness thereof, we submit this application under and in accordance with the terms of the TENDER document.

Yours faithfully,

(Signature, name and designation of the Authorized Signatory)

7.2. PARTICULARS OF TENDERER :

- 1. Name of firm :
- 2. Communication address :
- 3. Telephone, Telex, Fax No :
- 5. E-mail :
- 6. Web site :
- 7. Name and designation of the representative
of the Tenderer to whom all references/
communications shall be made :
- 8. Amount of earnest money/bid security
deposited with instrument no / bank and date :

10. Firm Registration number / details :

11. Copies of ITR acknowledgement :

12. GST Registration no :

13. Materials specifications as per DSR 2016 :

14. Previous experience or work done by the
Tenderer of similar nature of project. :

:

:

**(Signature of Tenderer)
with seal**

7.3. EXPERIENCE:

(Details of Each Project) Use different sheet per project.

Item	
1. Title of the project	
2. Location	
3. No. of works/projects completed	
4. Entity/ Agency with which the project has been executed	
5. Date of commencement of the project	
6. Date of completion/ commissioning	
7. Cost of the Project	
8. Scope of Work	

7.3.1. INSTRUCTIONS:

5.1.1. Tenderers are expected to provide information with respect to only Eligible/Qualified Projects.

5.1.2. Information provided in this section is intended to serve as a backup for information provided in the TENDER.

5.1.3. An authentic experience certificate should be annexed with respect to each eligible/qualified Project from the Agency for which the project is executed.

5.1.4. Provide the estimated capital cost of each Eligible/Qualified Project.

9. CHECKLIST:

1. Firm Registration Certificate.
2. GST Registration Certificate
3. Income Tax Return acknowledgments
4. Photocopy of PAN Card
5. List of Technical Staff with contact numbers.
6. List of projects completed – completion certificates with contact details for verification.
7. Self-declaration on letterhead that the firm/agency is not blacklisted by any agency
8. Audited Statement of Account (for the last three years)
9. DD for Rs 1000/- toward the cost of the Tender Document in favor of “North East Cane and Bamboo Development Council”

NOTE:

The above documents will form the Technical Bid.

FINANCIAL BID

NAME OF WORK : - COST ESTIMATE FOR THE CONSTRUCTION OF BAMBOO TISSUE CULTURE LABORATORY BUILDING OF NECBDC, BURNIHAT, ASSAM.					
BILL OF QUANTITY					
Sl.No.	Item	Unit	Qty.	Rate (Rs.)	Amount (Rs.)
(I)	(III)	(IV)	(V)	(VI)	(VII)
1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10sqm on plan) including disposal of excavated earth lead upto 50m and lift upto 1.5m disposed earth to be levelled and neatly dressed. 2.6.1) All kinds of soil	Cu.m	124.35		
2	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering lead upto 50m and lift upto 1.50m	Cum	241.23		
3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level: 4.1.4) 1:2:4 (1cement:2coarse sand:4 graded stone aggregate 20mm nominal size)	Cum	14.14		
4	Providing and laying in position reinforced cement concrete of specified grade excluding the cost of centering and shuttering, finishing and reinforcement- All work up to plinth level: 5.1.2) 1:1.5:3 (1cement:1.5coarse sand:2 graded stone aggregate 20mm nominal size)	Cum	82.90		
5	Reinforced cement concrete works in beams, suspended floors, roofs having slope upto 15 degree landings, balconies, sheleves, chajjas, lintels, bands, plain window sills, staircases and spiral staircases upto floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 5.3.1) 1:1.5:3 (1cement:1.5coarse sand:2 graded stone aggregate 20mm nominal size)	Cum	163.10		
6	Centering and shuttering including structting, propping etc. and removal of form work for: 5.9.1) Foundations, footings, bases of columns etc for mass concrete	Sqm	461.71		
7	5.9.6) Columns, Pillars, piers, abutments, posts and struts	Sqm	201.00		
8	5.9.5) Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	246.00		
9	5.9.3) Suspended floors, roofs, landings, balconies and access platform	Sqm	733.16		
10	Dry brick pitching half brick thick in drains including supply of bricks and preparing the surface complete 16.12.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	Sq.m	331.80		
11	Brick work with common burnt clay F.P.S (non modular) bricks of class designnation 7.5 in foundation and plinth in: 6.1.1) Cement mortar 1:4 (1cement : 4 coarse sand)	Cum	22.23		

12	Half Brick masonry with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in superstructure above plinth level upto floor V level in all shapes and sizes in: 6.13.2) Cement mortar 1:4 (1cement : 4 coarse sand)	Sqm	596.00		
13	Cement concrete flooring 1:2:4 (1cement:2coarse sand:4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 11.3.1) 40mm thick with 20mm nominal size stone aggregate.	Sqm	517.54		
14	Providing and laying damp proof course 50mm thick with cement concrete 1:2:4 (1cement:2coarse sand:4 graded stone aggregate 20mm nominal size)	Sqm	21.99		
15	Applying a coat of residual petroleum bitumen of grade of VG-10 of approved quality using 1.7kg per sqm on DPC after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	Sqm	21.99		
16	Cement plaster skirting upto 30cm height, with cement mortar 1:3 (1cement:3 coarse sand) finished with a floating coat of neat cement. 11.6.1) 18mm thick	Sqm	21.99		
17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1cement : 3coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm thick bed of dry brick ballast 40mm nominal size, well rammed and consolidated and grouted with fine sand, including finishing the top smooth.	Sqm	73.30		
18	Providing wood work in frame (chowkaths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embeded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified. (a) With sal wood	Cu.m	0.70		
19	Providing and fixing flush door shutters solid core construction with frame of 1st class hard wood with cross band and face veneered ply wood face panels conforming to relevent I.S code including oxidised iron butt hinges (100mm x 75mm x 3.5mm) 6 nos with necessary wood screws. a) Decorative type face panel and block board core. (ii) 35 mm thick .	Sq.m	26.46		
20	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :21.1.1.2 Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	300.00		

21	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately) 21.1.2.2 Powder coated aluminium (minimum thickness of powder coating 50 micron)	sqm	48.06		
22	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge .(Cost of aluminium snap beading shall be paid in basic item): 21.3.1 With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm) sqm 1019.80	sqm	48.06		
23	Providing and fixing MS grills of required pattern in frames of windows etc. with MS flats, square or round bars etc. including priming coat with approved steel primer all complete. 9.48.2) Fixed to openings / wooden frames with rawl plugs screws etc. (Total area of Winows = 30 sqm x 30kg/sqm =900kg)	Kg	1441.80		
24	20mm cement plaster of mix 13.6.1) 1:4 (1cement : 4 coarse sand)	Sqm	281.78		
25	12 mm cement plaster of mix 13.1.1) 1:4 (1cement : 4 fine sand)	Sqm	1542.70		
26	Providing and applying white cement based putty of average thickness 1mm, of approved brand and manufacturer over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	1824.48		
27	Finishing walls with textured exterior paint of required shade : 13.45.1. New wrk (Two or more coats applied @ 3.84kg/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	Sqm	281.78		
28	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : 13.60.1 Two or more coats on new work.	Sqm	1824.48		
29	Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications including appropriate priming coat , preparation of surface complete. 13.52.1 on steel work	Sqm	48.06		
30	Steel reinforcement for RCC work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. 5.22.6) Thermo-Mechanically Treated bars	Kg	39408.03		
31	Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily. 11.41A.1 Double charge vitrified tile polished finish of size 11.41A.1.1 Size of Tile 600 x 600 mm	Sqm	432.46		

32	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	87.15		
33	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement :4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	50.00		
34	Providing and laying Polished Granite stone flooring in required design and patterns, in linear as well as curvilinear portions of the building all complete as per the architectural drawings with 18 mm thick stone slab over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with cement slurry and pointing with white cement slurry admixed with pigment of matching shade including rubbing, curing and polishing etc. all complete as specified and as directed by the Engineer-in-Charge. 11.56.1 Polished Granite stone slab colour of Black, Cherry/Ruby Red or equivalent	Sqm	32.60		
35	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M -30 grade made by block making machine with strong vibratory compaction, of approved size, design & shape, laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with line sand etc. all complete as per the direction of Engineer-in-charge.	sqm	300.00		
36	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with 25mm long dry wall screws @ 230 mm interval, including fixing of gypsum board to ceiling section and perimeter channel with the help of dry wall screws of size 3.5 x 25 mm at 230 mm c/c, including jointing and finishing to a flush finish of tapered and square edges of the board with recommended jointing compound, jointing tapes, finishing with jointing compound in 3 layers covering upto 150 mm on both sides of joint and two coats of primer suitable for board, all as per manufacturer's specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed, all complete as per drawings, specification and direction of the Engineer in Charge but excluding the cost of painting with :				

	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- (Part I) :2011 (Board with BI certification)	sqm	150.00		
37	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : 7.1.1 Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	45.68		
38	Random rubble masonry with hard stone in superstructure above plinth level and upto floor five level, including leveling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) at window sills, ceiling level and the like. 7.2.1 Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	17.06		
39	Brick edging 7cm wide 11.4 cm deep to plinth protection with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 including grouting with cement mortar 1:4 (1 cement : 4 fine sand).	m	150.00		
40	35 mm thick factory made Solid panel PVC Door shutter, made out of single piece extruded solid PVC profiles, 5 mm (± 0.2 mm) thick, having styles & rails (except lock rail) of size 95 mm x 35 mm x 5 mm, out of which 75 mm shall be flat and 20 mm shall be tapered (on both side), having one side thickness of 15 mm integrally extruded on the hinge side of the profile for better screw holding power, including reinforcing with MS tube of size 40 mm X 20 mm x 1 mm, joints of styles & rails to be mitered cut & joint with the help of PVC solvent cement, self driven self tapping screws & M.S. rectangular pipes bracket of size 190 mm X 100 mm of cross section size 35 mm x 17 mm x 1 mm at each corner. Single piece extruded 5 mm thick solid PVC Lock rail of size 115 mm x 35 mm, out of which 75 mm to be flat and 20 mm to be tapered at both ends, having 15 mm solid core in middle of rail section integrally extruded, fixing the styles & rails with the help of solvent and self driven self tapping screws of 125 mm x 11 mm, including providing 5 mm Single piece solid PVC extruded sheet inserted in the door as panel, all complete as per manufacturer's specification and direction of Engineer-in-charge.	sqm	6.72		
41	Providing and fixing IS : 12817 marked stainless steel butt hinges with stainless steel screws etc. complete (9.70.2) 100X58X1.90 mm	each	36.00		
42	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :9.74.1) 250x10 mm	each	12.00		
43	Providing and fixing bright finished brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	each	12.00		
44	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm), with necessary accessories and screws etc. complete.	each	12.00		
45	Providing, driving with hydraulic piling rigs with power units and installing driven cast-in-situ reinforced cement concrete piles of grade M-25 of specified diameter and length below the pile cap, to carry safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of shoe and the length of pile to be embedded in the pile cap etc. all complete. (Length of pile for payment shall be measured from top of shoe to the bottom of pile cap) 20.1.1 400 mm dia pile	RM	770.00		
46	Providing and fixing Stainless Steel pipe and fitting of grade AISI 304 as per JIS standard 3448 complete with press type fitting (fitting shall be paid for separately) i/c fixing of the pipe with clamps at 1.00m spacing including cutting and making good the walls including testing of joints complete as per direction of Engineer-in-charge. (The pipe length inserted in the fitting shall not be measured for payment) 18.85.6) 48.60 mm outer dia Pipe	RM	30.00		

47	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.				
	Group B	Each	75.00		
48	Group C	Each	47.00		
49	Wiring for twin control light point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Each	4.00		
50	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.				
51	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	Mtr	50.00		
52	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Mtr	960.00		
53	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	Mtr	480.00		
54	2 X 6 sq. mm + 1 X 6 sq. mm earth wire	Mtr	240.00		
55	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required.				
	100mmx100mmx60mm deep	Each	50.00		
	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required				
56	5/6 A switch	Each	200.00		
57	2 way 5/6 A switch	Each	4.00		
58	15/16 A switch	Each	26.00		
59	3 pin 5/6 A socket	Each	50.00		
60	6 pin 15/16 A socket	Each	26.00		
61	Bell push	Each	2.00		
62	Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required	Each	35.00		
63	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required	Each	50.00		
64	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required				
65	3 Module (100mmX75mm)	Each	25.00		
66	4 Module (125mmX75mm)	Each	25.00		

67	6 Module (200mmX75mm)	Each	12.00		
68	12 Module (200mmX150mm)	Each	12.00		
	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.				
69	3 Module	Each	25.00		
70	4 Module	Each	25.00		
71	6 Module	Each	12.00		
72	12 Module	Each	12.00		
73	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required	Each	25.00		
74	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	Each	25.00		
75	Supplying and fixing brass batten/ angle holder including connection etc. as required.	Each	7.00		
76	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Each	2.00		
77	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
	12 way , Double door	Each	4.00		
78	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required . (Note : Vertical type MCB TPDB is normally used where 3 phase outlets are required.)				
	4 way (4 + 12), Double door	Each	4.00		
	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
79	Single pole	Each	96.00		
80	Double pole	Each	4.00		
81	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	40A	Each	4.00		

82	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
	63A	Each	4.00		
83	Supplying and fixing 20 amps, 240 volts, SPN industrial type, socket outlet, with 2 pole and earth, metal enclosed plug top alongwith 20 amps "C" curve, SP, MCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	Each	4.00		
84	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	Each	4.00		
85	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 metre long etc. with charcoal/ coke and salt as required.	Set	2.00		
86	Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	Mtr	160.00		
87	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	Each	4.00		
88	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.				
	Above 35 sq. mm and upto 95 sq. mm	Mtr	80.00		
89	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
	3½ X 70 sq. mm (38mm)	Mtr	8.00		
90	Supplying and making outdoor end termination with cast resin compound including aluminium lugs and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				
	3½ X 70 sq. mm	Each	8.00		
91	Installation,testing and commissioning of prewired fluorescent fitting compact fluorescent fitting of all types complete with all accessories and tube/lamp etc. directly on ceiling/wall, including connection with 1.5sqmm FRLS PVC insulated,copper conductor, single core cable and earthing etc as required.	Each	50.00		
92	Installation,testing and commissioning of ceiling fan, including wiring the down rods of standard length(upto 30cm) with 1.5sqmm FRLS PVC insulated,copper conductor, single core cable and earthing including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	Each	35.00		
93	Numbering of ceiling fan/exhaust fan/fluorescent fitting as required.	Each	42.00		

94	Installation of exhaust fan in the existing opening, including making good the damages,connection,testing and commissining etc. as required.				
	Upto 450mm sweep.	Each	7.00		
	Providing, laying and fixing following dia G.I. pipe (medium class) in ground complete with G.I. fittings including trenching (75 cm deep)and re-filling etc as required				
95	80 mm dia	metre	80.00		
96	Providing and fixing following capacity TP&N disconnecter fuse switch unit inside the existing panel board with ISI marked HRC fuses including drilling holes in cubicle panel, making connections, etc. as required.				
	63 Amp TP&N	Each	6.00		
97	Providing and fixing following rating and breaking capacity and pole MCCB in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.				
	125 Amp, 16 KA, TPMCCB	Each	1.00		
98	Supply of wall/ceiling mounting 24W LED polycarbonate tube with inbuilt driver metal heat sink with double sided connection. Crompton or equivalent (1150mm, Bajaj make).	Each	50.00		
99	Supply of surface mounting 18W round LED down light suitable for any modern workspace with PDC Aluminium housing high translucent frosted plastic diffuser, Efficacy 100LM/W. Crompton or equivalent make.(LCDSPLN-R-18-WW).	Each	20.00		
100	Supply of 5 star rated Bajaj make Ceiling fan 1200 mm sweep (Make- BAJAJ : Model Name :Energia 32 5 star in the existing arrangement.	Each	35.00		
101	Supply of 300mm sweep, 900rpm metallic exhaust fan in the existing hole of the building, grey in colour whitef(Bajaj make)	Each	10.00		
102	Supplying including installation, testing and commissioning of 5 KVA ,Voltage stabilizer with with working range 90V AC (VD5090B).	Each	4.00		
103	Supplying of following sizes XLPE insulated and PVC sheathed aluminium conductor armoured power cable of 1.1 KV grade conforming to IS 7098 (Part - I) / 1988 with amendment up to date etc as required.				
	3 ½ X 70 sq.mm	Mtr	80.00		
104	Supplying including installation, commissioning of vermin and dust proof totally enclosed, Phosphatised Powder Painted cubical indoor type floor/wall mounting compartmentalize panel board of size 0.95M(B)X 1.30M(H) X 0.40M(D) made of 16 SWG (1.66 mm) thick C.R. sheet and 40mm X 40mm X 5mm size angle having 4 nos legs at the bottom. The panel board is to be erected in 1 : 3 : 6 PCC foundation including brick soling / grouting etc. complete neatly wiring done with provision for one no 125A 4pole MCCB or Switch Fuse Unit as incomer and provision for 6nos DP or TPN out going as specified and directed by the deptt. confirming to IP 43 protection comprising of the following electrical items:				

	1. i) 40mm X 5mm 4 strip copper Bus - Bar 1.20 M length each				
	ii) 20mm X 3mm 4 strip copper Bus-Bar 0.5M each 4 sets				
	2. Poilt Lamp with integral ckt LED 110- 230 V (Red,Yellow,& Blue) - 3 nos				
	3. Voltmeter & Ammeter Selector Switch - 2 nos				
	4. 2 A Slide fuse unit - 3nos				
	(Incoming & Outgoing Switch Gear of reqd. rating along with Meters will be measured and paid separately)	Each	1.00		
105	Providing and fixing water closet squatting pan (indian type WC pan) with 100mm sand cast iron P or S Trap, 10litre low level white PVC flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS: 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required. : 17.1.1) WHITE VITREOUS china orrissa pattern W.C. pan of size 580x440mm with integral type foot rests.	Each	1.00		
106	Providing and fixing white vitreous china pedestal type water closet (European type W. C. Pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled dev.ice (handle lever), conforming to IS : 7231, with all fittings and fixtures complete , including cutting and making good the walls and floors wherever required. 17.2.1 W. C. pan with ISI marked white solid plastic seat and lid.	Each	3.00		
107	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :17.5.1 Single half stall urinal with 5 litre P.V.C. automaticflushing cistern	Each	6.00		
108	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require. 14.7.8 White Vitreous China Surgeon type wash basin of size 660x460 mm with a pair of 15mm C.P. brass pillar taps with elbow including operated levers.	Each	4.00		
109	Providing and fixing CP Brass 32mm size Bottle Trap of approved quality & make and as per the direction of Engineer-in-charge.	Each	4.00		
110	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete.17.28.2.1 32mm dia	Each	4.00		
111	Providing and fixing 100mm sand cast Iron grating for gully trap.	Each	2.00		
112	Providing and fixing 600x 450mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	2.00		
113	Providing and fixing toilet paper holder 17.34.1 C.P. brass	Each	4.00		

114	Providing and fixing PTMT Waste Coupling for wash basin and sink, of approved quality and colour. 17.69.1 Waste coupling 31mm dia of 79 mm length and 62 mm breadth weighing not less than 45 gms	Each	4.00		
115	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour, weighing not less than 105 gms.	Each	2.00		
116	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge.				
	18.7.5) 40 mm nominal dia Pipes	m	24.00		
117	18.7.6) 50 mm nominal dia Pipes	m	24.00		
118	Providing and fixing chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge. Concealed work , including cutting chases and making good the walls etc				
	18.8.2 20 mm nominal outer dia pipe	m	24.00		
119	18.8.3 25 mm nominal dia Pipes	m	24.00		
	Providing and fixing 3 layer PP-R (Poly propylene Random copolymer) pipes confirming to IS:15801 UV stabilized & anti - microbial fusion welded, having thermal stability for hot & cold water supply, including all PP - R plain & brass threaded polypropylene random fittings, including trenching, refilling & testing of joints complete as per direction of Engineer-in-Charge.				
120	18.6.10 PN - 10 Pipe, 160 mm OD (SDR-11)	m	12.00		
121	18.6.9 PN - 10 Pipe, 110 mm OD (SDR-11)	m	12.00		
122	18.6.8 PN - 10 Pipe, 90 mm OD (SDR-11)	m	12.00		
123	18.6.7 PN - 10 Pipe, 75 mm OD (SDR-11)	m	12.00		
124	Constructing masonry Chamber 60x60x75 cm inside, in brick work in cement mortar 1:4 (1 cement : 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) , i/c necessary excavation, foundation concrete 1:5:10 (1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement : 3 coarse sand) 12 mm thick, finished with a floating coat of neat cement complete as per standard design : 18.33.1 With common burnt clay F.P.S.(non modular) bricks of class designation 7.5	Each	1.00		

125	C.P. Brass Fittings Providing and fixing C.P. brass bib cock of approved quality conforming to IS : 8931: 18.49.1 15 mm nominal bore	Each	4.00		
126	Providing and fixing C.P.brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810gms. 18.50.1 15 mm nominal bore	Each	4.00		
127	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS : 8931. (18.52.1 15 mm nominal bore)	Each	6.00		
128	Providing and placing on terrace (at all floor levels) polyethylene water storage tank, ISI : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank	Ltr.	2000.00		
129	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement : 2 coarse sand: 4 graded stone aggregate 20 mm nominal size), including finishing complete so as to make it leak proof.	Each	6.00		
130	Providing and fixing PTMT extension nipple for water tank pipe, fittings of approved quality and colour. 18.75. 3 25 mm nominal bore, weighing not less than 62 gms	Each	1.00		
131	AIR VALVE & WATER METER (BULK TYPE) Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc if required will be paid separately) : 18.59.1) 50 mm dia	Each	1.00		
132	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface :	Sqm	1824.48		
133	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid door/window/Ceosetory windows & other Frames/Chowkhat comprising of virgin PVC polymer of K value 58- 60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) fabricated with miter joints after applying PVC solvent cement and screwed with full body threadedstar headed SS screws having minimum frame density of 750 kg/cum, screw withdrawal strength of 2200 N (Face) & 1100 N (Edge), minimum compressive strength of 58 N/mm ² , modulus of elasticity 900 N/mm ² and resistance to spread of flame of Class A category with property of being termite/borer proof, water/moisture proof and fire retardant and fixed in position with M.S hold fast/lugs/SS dash fasteners of required dia and length complete as per direction of Engineer-In- Charge. (M.S hold fast/lugs or SS dash fasteners shall be paid for separately). 26.86.1) Frame size 45 x 70 mm Note: For WPC solid door/window frames, minus 5mm tolerance in dimensions i.e depth and width of profile shall be acceptable. Variation in profile dimensions on plus side shall be acceptable but no extra payment on this account shall be made.	Rm	31.20		

134	Providing and fixing factory made single extruded WPC (Wood Polymer Composite) solid plain flush door shutter of required size comprising of virgin polymer of K value 58-60 (Suspension Grade), calcium carbonate and natural fibers (wood powder/ rice husk/wheat husk) and non toxic additives (maximum toxicity index of 12 for 100 gms) having minimum density of 650 kg/cum and screw withdrawal strength of 1800 N (Face) & 900 N (Edge), minimum compressive strength 50 N/mm ² , modulus of elasticity 850 N/mm ² and resistance to spread of flame of Class A category with property of being termite/ borer proof, water/moisture proof and fire retardant and fixing with stainless steel butt hinges of required size with necessary full body threaded star headed counter sunk S.S screws, all as per direction of Engineer-In- Charge. (Note: stainless steel butt hinges and necessary S.S screws shall be paid separately) 26.87.1) 30 mm thick	Sqm	12.00		
135	Providing and fixing factory made uPVC white colour sliding glazed door comprising of uPVC multi-chambered frame with in-built roller track and sash extruded profiles duly reinforced with 1.60 ± 0.2 mm thick galvanized mild steel section made from roll forming process of required length (shape & size according to uPVC profile), appropriate dimension uPVC extruded glazing beads, uPVC extruded interlock and uPVC extruded Inline sash adaptor (if required), EPDM gasket, wool pile, zinc alloy (white powder coated) handle with key on one side of extreme panels along with zinc plated mild steel multi point locking having transmission gear with keeps, zinc alloy (white powder coated) crescent lock (if required), stainless steel (SS 304 grade) body with adjustable double nylon rollers (weight bearing capacity to be 120 kg), G.I fasteners 100 x 8 mm size for fixing frame to finished wall and necessary stainless steel screws etc. Profile of frame & sash shall be mitred cut and fusion welded at all corners, including drilling of holes for fixing hardware's and drainage of water etc. After fixing frame the gap between frame and adjacent finished wall shall be filled with weather proof silicon sealant over backer rod of required size and of approved quality, all complete as per approved drawing & direction of Engineer-in-Charge. (Single / double glass panes, wire mesh and silicon sealant shall be paid separately). Variation in profile dimension in higher side shall be accepted but no extra payment on this account shall be made. Note: For uPVC frame and sash extruded profiles minus 5% tolerance in dimension i.e. in depth & width of profile shall be acceptable. 9.147F.1) Two track two panels sliding door made of (big series) frame 67 x 50 mm & sash 46 x 82 mm both having wall thickness of 2.3 ± 0.2 mm and single glazing bead / double glazing bead of appropriate dimension. (Area of door above 2.00 sqm upto 5.00 sqm)	Sqm	5.67		
	TOTAL				

BID PRICE for construction of Tissue Culture Laboratory Building Rs _____

In words (Rupees _____)

- 1. All rates should be inclusive of GST and other levies.**
- 2. The tender should be accompanied by security money @2% of the bid price.**