



UNIVERSITY OF CALCUTTA

Office of the Engineer  
Darbhanga Building  
87/1 College Street  
Kolkata- 700073

NOTICE INVITING TENDER

University of Calcutta invites sealed tender from resourceful and bonafied contractors for the following work

1.	N.I.T. No	:	<b>Eng/ET-213/19-20</b>	Dated: 13/09/2019
2.	Name of Work	:	SITC of AC machine in the extended herbarium space of department of botany at botany garden,in Ballygunge science college campus,C.U.	
3.	Estimated Cost put to Tender	:-	Rs42533/- (Fortytwo thousand five hundred & thirty three only)incl.taxes	
4.	Earnest Money	:-	A sum of Rs <b>2200/- (Rupees TwoThousand two hundred Only)</b> in the form of CTS demand draft in favour of University of Calcutta payable at Kolkata is to be attached with the Tender as earnest money failing which the tender will be treated cancelled. The earnest money will be returned to unsuccessful tenders on application after issuing of work order to the successful bidder. In case of successful tender the EMD will be returned on application after an equal amount of security deposit is deducted by the University from the running bills/final bill as per norms.	
5.	Time of completion	:-	15days	
6.	Eligibility Criteria	:-	Valid trade License , GST & Pan and credential for satisfactory completion of similar nature of job. Amounting 75 % of the estimated value in a single tender in the last three financial year . Government, Government Undertaking and University of Calcutta credentials are accepted. (Only completion certificate of the work should be treated as Credential.	
7.	Issue of tender papers	:-	TO BE DOWNLOADED FROM WEBSITE (www.caluniv.ac.in).	
8.	Last Date and Time of tender submission	:-	23 / 09 /19( up to 2.00 PM)	
9.	Date and Time of tender opening	:-	On 23 / 09/19 (at 3.00 PM) or after	

N.I.T no. Name of work and the date of opening should be written on the sealed envelope otherwise tender will not be opened thus cancelled.

UNIVERSITY ENGINEER (C.U)



# UNIVERSITY OF CALCUTTA

NOTICE INVITING TENDER No:Eng/ET- 213/19 -20

Dated:13 / 09 /2019

Name of the work: - SITC of AC machine in the extended herbarium space of department of botany, at botany garden, in Ballygunge science college campus,C.U.,

Estimated cost put to tender: 42533/-

Name of Agency:-

Address of Agency:-

Rate quoted by Agency: - ..... ( %)  
Percent Above / At par / Below

Signature of the Agency with date & stamp:-



# UNIVERSITY OF CALCUTTA

Tender No: - Eng/ET- 213/19-20

Dated: 13/09/2019

## TENDER AND CONTRACT FOR WORK

### GENERAL TERMS AND DIRECTION FOR THE GUIDANCE OF CONTRACT

1. Eligible Tenders will have to download the tender papers from the website & drop the filled tender papers signed with seal and date at every page along with copy of Valid Trade license's, GST & PAN and Credential for satisfactory completion of similar nature of job amounting to at least seventy five percent of the job value in a single tender from any Government, Govt. undertaking or University of Calcutta in the last three financial year(only completion certificate of the work should be treated as Credential) in sealed envelope in the Tender box kept in the Office of the undersigned. The tendered must write the name of the work, NIT no, the date of opening and name of the bidder on the envelop failing which the tender will not be opened thus will be treated as cancelled.
2. The rate should be quoted after inspection of the site and inclusive of all incidental charges i.e. freight, insurances, labour insurances, handling charges, necessary government taxes, duties etc. as well as the Water, Electricity charges which are to be paid as per rules.
3. The contractor shall be responsible to ensure compliance with the provision of minimum wages act 1948 as modified up to date and the rules made in respect of any employees, employed by the contractor directly or through the petty or subcontractor for the purpose of carrying this contract. The contractor shall be responsible for any damage, injury or loss caused by the work or workmen to any person, animal or material during the progress of work.
4. Liquidated damage will be charged to the contractor if they fail to complete the work within the stipulated time, 0.01% per day to a maximum limit of 05 % of the contract value.
5. The allotted time for completion of the work is 45days from the date of receipt of work order. Time is the essence of this contract. Normally no time extension will be granted. In case of prayer for extension of time the University authority has the full right reserved to grant it or discard it.
6. (a) If the successful contractor's bid rate is 80% or less than the estimated amount put to tender the contractor will have to submit a Bank Guarantee amounting to 10% of the Tendered amount before issue of Work order failing which the EMD will be forfeited and the agency may be blacklisted. The Bank Guarantee should be valid till the end of the contract period and shall be renewed accordingly if required. This bank Guarantee is an Additional Performance Security .So provision of deducting Security deposit from bills will hold goods per relevant clause of the contract. The bank Guarantee shall be returned immediately on successful completion of contract.



(b) The University authority will retain a sum amounting to 10% of the bill of the contract for a period of six months from the date of completion of work as Security Deposit. This will be released after a period of six months from the date of completion of the work on application.

7. A sum of 5% of the estimated amount put to tender (as mentioned earlier) in the form of demand draft in favour of UNIVERSITYOF CALCUTTA payable at Kolkata is to be attached with the tender as earnest money failing which the tender will be treated cancelled. The earnest money will be returned to unsuccessful tenderers on application & after issue of work order to the successful bidder. For successful tenderer the EMD will be returned on application after an equal amount of security deposit is deducted from the running bills.

D.D No..... Dated / /20

Name of Issuing Bank:--

B ranch :-

Amount: - Rs ...../(Rupees .....)

8. Work is to be carried out as per specification laid in the B.O.Q or PWD specification as per instruction of the University Engineer or his representative.

9. The materials brought to site for execution of the work should by no means be taken out of site without the permission of the Engineer C.U.

10. The rates must be quoted in words in figure otherwise the tender will be cancelled.

11. The University will not be bound to accept the lowest bidder.

12. The University will not supply any materials to the contractor.

13. The contractor will work under the strict supervision of the Engineer. The estimate given along with the tender are provisional, payment will be made on the actual work done jointly measured by the consultant & the contractor. The contractor will have to submit bill in printed format in duplicate.

14. The contractor will have to take necessary instruction from the Engineer, CU / his representative regarding the execution of work.

15. The contractor has to produce user end completion certificate before claiming of final bill.

16. The eligible Contractor who does not have ESI for their workers will have to possess workmen's compensation policy for their workers before starting the job.



17. Guarantee/Warranty period of the work will be 6(Six) months from the date of completion of the work.

Sd/-

University Engineer

Name of the Agency:-

Address:-

Signature of the contactor with seal & date:

BOQ FOR SITC OF AC MACHINE IN THE EXTENDED HERBARIUM SPACE OF DEPARTMENT OF BOTANY, AT BOTANY GARDEN, IN BALLYGUNGE SCIENCE COLLEGE CAMPUS, C.U

SI.No.	Description of work	Unit	Rate	Quantity	Amount
1	SITC of Air conditioner machine 1.5Tx. 3star with remote,(100% copper) machine Split type,incl S&F of hard drain pipe upto groundfloor incl all accessories.(Make:Voltas,Bluestar,etc) 12' copper pipe & 16A plug top to be supplied with M/C	Each	35600	1	35600
2	SITC of Air conditioner machine 1.5Tx. 3star with remote, copper machine split type,incl S&F of hard drain pipe upto groundfloor incl all accessories.(Make:Voltas,Bluestar,etc) ( Extra Any thing needed for installation to be supplied by the supplier)	Each	2000	1	2000
<b>(A) TOTAL BASIC COST :</b>					37600
<b>(B)G.S.T @12% ON TOTAL BASIC COST(A)(Subject to verification of accounts dept)</b>					4512
<b>TOTAL BASIC COST +GST(A+B)</b>					42112
<b>(C) ADD 1% L.W CESS ON C :</b>					421
<b>TOTAL COST :(A+B+C)=Rs (37600+4512+421)=</b>					<b>Rs 42533</b>
<b>(Rs. IN WORD) :FORTY TWO THOUSAND FIVE HUNDRED THIRTYTHREE ONLY</b>					

**Note**

If Plug top is not supplied an Amount of **Rs 250 per machine will be deducted from total bill**

Amount to be deducted from work order value of Rs 3000/ each for buy back facility of old machine irrespective of tonnage or model or type.



UNIVERSITY OF CALCUTTA

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Kolkata- 700073

NOTICE INVITING TENDER

University of Calcutta invites sealed tender from resourceful and bonafied contractors for the following work

1.	N.I.T. No	:	Eng/ET-214/19-20	Dated: 13 /09/2019
2.	Name of Work	:	Thorough E.I works for extended herbarium space of,department of Botany,at Botany garden,in Ballygunge science college campus,C.U.	
3.	Estimated Cost put to Tender	:-	Rs88855-( Eightyeight thousand eight hundred fifty five only)including Taxes	
4.	Earnest Money	:-	A sum of Rs4500/- (Rupees Four Thousand & five hundred Only) in the form of CTS demand draft in favour of University of Calcutta payable at Kolkata is to be attached with the Tender as earnest money failing which the tender will be treated cancelled. The earnest money will be returned to unsuccessful tenders on application after issuing of work order to the successful bidder. In case of successful tender the EMD will be returned on application after an equal amount of security deposit is deducted by the University from the running bills/final bill as per norms.	
5.	Time of completion	:-	21 days	
6.	Eligibility Criteria	:-	Valid trade License , GST & Pan and credential for satisfactory completion of similar nature of job. Amounting 75 % of the estimated value in a single tender in the last three financial year . Government, Government Undertaking and University of Calcutta credentials are accepted. (Only completion certificate of the work should be treated as Credential.	
7.	Issue of tender papers	:-	TO BE DOWNLOADED FROM WEBSITE (www.caluniv.ac.in).	
8.	Last Date and Time of tender submission	:-	23 / 09 /19 ( up to 2.00 PM)	
9.	Date and Time of tender opening	:-	On 23/ 09 /19 (at 3.00 PM) or after	

N.I.T no. Name of work and the date of opening should be written on the sealed envelope otherwise tender will not be opened thus cancelled.

UNIVERSITY ENGINEER (C.U)



# UNIVERSITY OF CALCUTTA

NOTICE INVITING TENDER No: Eng/ET- 214/19 -20

Dated:13/09/2019

Name of the work: - Thorough E.I works for extended herbarium space of department of Botany at Botany garden,in Ballygunge sc.college campus C.U

Estimated cost put to tender: 88855/-

Name of Agency:-

Address of Agency:-

Rate quoted by Agency: - ..... ( %)  
Percent Above / At par / Below

Signature of the Agency with date & stamp:-





# UNIVERSITY OF CALCUTTA

Tender No: - Eng/ET-214 /19-20

Dated: 13 / 09 /2019

## TENDER AND CONTRACT FOR WORK

### GENERAL TERMS AND DIRECTION FOR THE GUIDANCE OF CONTRACT

1. Eligible Tenders will have to download the tender papers from the website & drop the filled tender papers signed with seal and date at every page along with copy of Valid Trade license's, GST & PAN and Credential for satisfactory completion of similar nature of job amounting to at least seventy five percent of the job value in a single tender from any Government, Govt. undertaking or University of Calcutta in the last three financial year(only completion certificate of the work should be treated as Credential) in sealed envelope in the Tender box kept in the Office of the undersigned. The tendered must write the name of the work, NIT no, the date of opening and name of the bidder on the envelop failing which the tender will not be opened thus will be treated as cancelled.
2. The rate should be quoted after inspection of the site and inclusive of all incidental charges i.e. freight, insurances, labour insurances, handling charges, necessary government taxes, duties etc. as well as the Water, Electricity charges which are to be paid as per rules.
3. The contractor shall be responsible to ensure compliance with the provision of minimum wages act 1948 as modified up to date and the rules made in respect of any employees, employed by the contractor directly or through the petty or subcontractor for the purpose of carrying this contract. The contractor shall be responsible for any damage, injury or loss caused by the work or workmen to any person, animal or material during the progress of work.
4. Liquidated damage will be charged to the contractor if they fail to complete the work within the stipulated time, 0.01% per day to a maximum limit of 05 % of the contract value.
5. The allotted time for completion of the work is 45days from the date of receipt of work order. Time is the essence of this contract. Normally no time extension will be granted. In case of prayer for extension of time the University authority has the full right reserved to grant it or discard it.
6. (a) If the successful contractor's bid rate is 80% or less than the estimated amount put to tender the contractor will have to submit a Bank Guarantee amounting to 10% of the Tendered amount before issue of Work order failing which the EMD will be forfeited and the agency may be blacklisted. The Bank Guarantee should be valid till the end of the contract period and shall be renewed accordingly if required. This bank Guarantee is an Additional Performance

Security .So provision of deducting Security deposit from bills will hold goods per relevant clause of the contract. The bank Guarantee shall be returned immediately on successful completion of contract.



(b) The University authority will retain a sum amounting to 10% of the bill of the contract for a period of six months from the date of completion of work as Security Deposit. This will be released after a period of six months from the date of completion of the work on application.

7. A sum of 5% of the estimated amount put to tender (as mentioned earlier) in the form of demand draft in favour of UNIVERSITYOF CALCUTTA payable at Kolkata is to be attached with the tender as earnest money failing which the tender will be treated cancelled. The earnest money will be returned to unsuccessful tenderers on application & after issue of work order to the successful bidder. For successful tenderer the EMD will be returned on application after an equal amount of security deposit is deducted from the running bills.

D.D No..... Dated / /20

Name of Issuing Bank:--

B ranch :-

Amount: - Rs ...../(Rupees .....)

8. Work is to be carried out as per specification laid in the B.O.Q or PWD specification as per instruction of the University Engineer or his representative.

9. The materials brought to site for execution of the work should by no means be taken out of site without the permission of the Engineer C.U.

10. The rates must be quoted in words in figure otherwise the tender will be cancelled.

11. The University will not be bound to accept the lowest bidder.

12. The University will not supply any materials to the contractor.

13. The contractor will work under the strict supervision of the Engineer. The estimate given along with the tender are provisional, payment will be made on the actual work done jointly measured by the consultant & the contractor. The contractor will have to submit bill in printed format in duplicate.

14. The contractor will have to take necessary instruction from the Engineer, CU / his representative regarding the execution of work.

15. The contractor has to produce user end completion certificate before claiming of final bill.

16. The eligible Contractor who does not have ESI for their workers will have to possess workmen's compensation policy for their workers before starting the job.



17. Guarantee/Warranty period of the work will be 6(Six) months from the date of completion of the work.

Sd/-

University Engineer

Name of the Agency:-

Address:-

Signature of the contactor with seal & date:

BOQ FOR THOROUGH E.I WORKS FOR EXTENDED HERBARIUM SPACE OF DEPARTMENT OF BOTANY, AT BOTANY GARDEN, IN BALLYGUNGE SCIENCE COLLEGE CAMPUS, C.U

Sl.No.	Description of work	Unit	Rate	Quantity	Amount	PWD
1	Distribution wiring in 2 x 22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make), with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, to light/fan/call bell points with Piano Key type switch fixed on MS CRC sheet metal (16 SWG) switch board cum JB on wall complete with 2 no. suitable size "Ph & N" copper bar incl. bakelite/Perspex (wall matching color) top cover 3 mm thick and incl. 175mmx100mmx65mm inspection box, making earthing attachment, painting the MS box and mending good the damages to original finish(Ave run 6mtr)	Each	612	25	15300	sch17 E24/E2
2	Supply & Fixing 240 V, 3 nos. 6A, & 1 no. 20A plug socket with separate 3 nos. 6 A & 1 no. 20A Piano key type switch, indicator & 20A switch type SP MCB (Brand approved by EIC) on sheet metal switch board embedded in wall incl. S & F 240x200x65mm MS (16SWG) switch board and bakelite/perspex top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover and making necessary connections as required. [Inside = 2, Outside = 2(for Adhar works)]	Each	752	4	3008	E7/26
3	Supply & Fixing 240 V, 20A, plug socket with separate 20 A Piano key type switch (Brand approved by EIC) on sheet metal switch board <b>embedded in wall incl. S &amp; F</b> 150x100x65 MS (16SWG) switch board and bachelite top cover of 3mm thick and making necessary connections as required	Each	287	4	1148	E6/21
4	PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required					
	2 x 22/0.3 (1.5 sqmm) + 1 x 22/0.3 (1.5 sqmm) (DB to SB1, SB2 )	RM	102	33	3366	E14/1a
	2 x 36/0.3 (2.5 sqmm) + 1 x 22/0.3 (1.5 sqmm) ECC (DB to PP1 & PP2)	RM	119	27	3213	E14/E1/ii
	2 x 56/0.3 (4 sqmm) + 1 x 36/0.3 (2.5 sqmm) ECC ( DB to CP1,2,3,4)	RM	149	57	8493	E14/E1/iii
	2 x 84/0.3 (6 sqmm) + 1 x 56/0.3 (4 sqmm) ECC (DB to AC)	RM	193	23	4439	E14/E1/iv
5	Supply & Fixing 240 V, 25A Modular type socket, 25 A, Modular type starter (Brand approved by EIC) with 25A Modular switch type DP MCB (C-Curve) and 6 Module GI Modular type switch board with 6 Module top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth					

	continuity wire etc.	Each	1047	2	2094	E19/18
6	Recess mounting luminaires LED FLAT PANEL designed for metric false ceiling with low glare .2'x2' MPLS02 45Watt recess mounted Recessed mounted LED dn light with option for adj/fixed spot option	Each	3800	4	15200	17-Jul
7	LED RecessSquare MPLS 02 12Watt	Each	700	12	8400	do
8	Fixing only bulk head ceiling fitting on wall/ceiling by screws etc.	Each	56	16	896	C2/13
9a	TMC 501P 2xT -LED Incl.mounting rail for TLED Lamps (Philips) In LAB)	Each	600	3	1800	LED P/1st
9b	TLED Essential tube 1200mm..1600 Lumen 20w(Philips) (2x4=8)	Each	400	6	2400	2017
10	Fixing only single /twin fluorescent light fitting complete with all accessories directly on wall/ceiling/HW round block and suitable	Each	100	3	300	C2/14
11	Supplying & fixing earth busbar of galvanized (Hot Dip) MS flat 25 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc. as required Earth Continuity Conductor :	RM	156	2	312	G2/4a
12	Connecting the equipments to earth busbar including S & F GI (Hot Dip) wire of size as below on wall/floor with staples buried inside wall/floor as required and making connection to equipments with bolts, nuts, washers, cable lugs etc. as required and mending good damages No. 10 SWG (2x27+2x57+1x37)=205	RM	6	70	420	G2/5
13	Fixing only ceiling fan complete with blades, canopy, fork, rubber bush etc. incl. S&F connecting wire for down rod upto 30 cm incl. painting the rod with approved paint and making necessary connection as required by 2x1.5 sqmm flexible copper wire. Supplying of Ceiling Fan 1200mm.Model Summer delite ornamental, 1200mm make Orient (For Dinning room ;9nos)	Each	66	2	132	C3/21
14	Supply & Fixing Socket type fan regulator (Step type) (Brand approved by EIC) on existing sheet metal switch board with bakelite/perspex top cover by screw after making housing for regulator knob by cutting bakelite/perspex top cover incl. making necy. connections etc	Each	236	2	472	E6/18A
15	<b><u>INTER CONNECTION BETWEEN MAIN BUSBAR TO FSU INCOMING</u></b> Inter-connection between Bus-bar to TPNFSU by <b>Havell's single core copper conductor (flexible) of following cross-section incl.</b> S&F proper copper socketing and crimping & flexible pipe. 35 sq.mm	RM	348	8	2784	P/list18
	<b>(A) TOTAL BASIC COST :</b>					
	<b>Rs</b>				78549	
	<b>(B)G.S.T @12% ON TOTAL TENTATIVE BASIC COST(A)(Subject to verification of accounts dept)</b>				9426	
	<b>TOTAL BASIC COST +GST(A+B)</b>				87975	

(C) ADD 1% L.W CESS ON C : 880  
TOTAL COST :(A+B+C)=Rs(78549+9426+880)= RS 88855  
(Rs.EIGHTYEIGHT THOUSAND EIGHT HUNDRED FIFTY FIVE ONLY)



**UNIVERSITY OF CALCUTTA**  
OFFICE OF THE UNIVERSITY ENGINEER  
87/1 College Street  
Darbhanga Building, Ground Floor  
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Website :-www.caluniv.ac.in

**NOTICE INVITING TENDER**

University of Calcutta invites **sealed** tender from resourceful and bonafide contractors for the following work

1.	N.I.T. No	:	Eng /ET- 215/19-20. Dated 13/09/ 2019
2.	Name of Work	:	3 <sup>rd</sup> call for Thorough E.I Works for Hironmoyee chhatri bhawan, 53/2/4A Hazra road, Kolkata 19, replacement of age old wiring with enhancement of ceiling fan in each room, proper earthing system, incl. supply & fixing new ceiling fan, luminaires etc.
3.	Estimated Cost put to Tender	:-	<b>496475/-</b>
4.	Earnest Money	:-	A sum of <b>Rs25000/- (Rupees Twenty five thousand only)</b> . in the form of <b>CTS</b> demand draft in favour of University of Calcutta payable at Kolkata is to be attached with the Tender as earnest money failing which the tender will be treated cancelled. The earnest money will be returned to unsuccessful tenders on application after issuing of work order to the successful bidder. In case of successful tender the EMD will be returned on application after an equal amount of security deposit is deducted by the University from the running bills.
5.	Time of completion	:-	45 days
6.	Eligibility Criteria	:-	<b>Valid trade License , GST &amp; Pan and credential for satisfactory completion of similar nature of job. Amounting 75 % of the estimated value in a single tender in the last three financial year . Government, Government Undertaking and University of Calcutta credentials are accepted. (Only completion certificate of the work should be treated as Credential.</b>
7.	Last date of receipt of application for tender	:-	NA
8.	Last date of Sale/ issue of tender papers		TO BE DOWNLOADED FROM WEBSITE.(www. caluniv.ac.in)
9.	Last Date and Time of tender Submission	:-	23 / 09 /19(10am to 5pm)
10.	Date and Time of Tender Opening	:-	After 3:00 PM 23 / 09 /2019

**N.I.T no ,Name of work and the date of opening should be written on the sealed envelope otherwise tender will not be opened thus cancelled.**

**The undersigned reserves the right to reject any or all Tenders without assigning any reason what so ever.**

UNIVERSITY ENGINEER (C.U)



## UNIVERSITY OF CALCUTTA

**Name of the work: Thorough** E.I Works for Hironmoyee chhatri bhawan,53/2/4A Hazra road ,Kolkata 19,replacement of age old wiring,with enhancement of ceiling fan in each room,proper earthing system,,incl supplying& fixing new ceiling fan, luminaires etc.

**N. I.T. no-** Eng /ET- 215 /19-20.      **Dated** 13/ 09 / 2019

**Estimated cost Put to Tender: 496475/=**

**Name of Agency:-**

**Address of Agency:-**

**Rate quoted by Agency:-** ..... (      %)  
**Percent Above / At par / Below**

**Signature of the Agency with date & stamp:-**





# UNIVERSITY OF CALCUTTA

N. I.T. NO- Eng /ET- 215/19-20. Dated 13 / 09 / 2019

## TENDER AND CONTRACT FOR WORK

### GENERAL TERMS AND DIRECTION FOR THE GUIDANCE OF CONTRACT

1. Eligible Tenders will have to download the tender papers from the website & drop the filled tender papers signed with seal and date at every page along with copy of Valid Trade license's, GST & PAN and Credential for satisfactory completion of similar nature of job amounting to at least seventy five percent of the job value in a single tender from any Government, Govt. undertaking or University of Calcutta in the last three financial year in sealed envelope in the Tender box kept in the Office of the undersigned with in the specified time mentioned in the NIT. which will be opened by the undersigned or by his representative with in **the specified time and date mentioned in the NIT.** **The tendered must write the name of the work , NIT no , the date of opening and name of the bidder on the envelop failing which the tender will not be opened thus will be treated as cancelled.**
2. The rate should be quoted after inspection of the site and inclusive of all incidental charges i.e. freight, insurances, labour insurances, handling charges, necessary government taxes, duties etc as well as the Water, Electricity charges which are to be paid as per rules .
3. The contractor shall be responsible to ensure compliance with the provision of minimum wages act 1948 as modified up to date and the rules made in respect of any employees, employed by the contractor directly or through the petty or subcontractor for the purpose of carrying this contract. The contractor shall be responsible for any damage, injury or loss caused by the work or workmen to any person, animal or material during the progress of work.
4. Liquidated damage will be charged to the contractor if they fail to complete the work within the stipulated time, 0.01% per day to a maximum limit of 05 % of the contract value .



5. The allotted time for completion of the work 45 days from the date of receipt of work order. Time is the essence of this contract. Normally no time extension will be granted. In case of prayer for extension of time the University authority has the full right reserved to grant it or discard it.

6. (a) If the successful contractor's bid rate is 80% or less than the estimated amount put to tender the contractor will have to submit a Bank Guarantee amounting to 10% of the Tendered amount before issue of Work order failing which the EMD will be forfeited and the agency may be blacklisted. The Bank Guarantee should be valid till the end of the contract period and shall be renewed accordingly if required. This bank Guarantee is an Additional Performance Security. So provision of deducting Security deposit from bills will hold goods per relevant clause of the contract. The bank Guarantee shall be returned immediately on successful completion of contract.

(b) The University authority will retain a sum amounting to 10% of the bill of the contract for a period of six months from the date of completion of work as **Security Deposit**. Which will be released after a period of six months from the date of completion of the work on application.

7. A sum of 5% of the estimated amount i.e. value **as mentioned in the NIT** in the form of demand draft in favour of UNIVERSITY OF CALCUTTA payable at Kolkata is to be attached with the tender as earnest money failing which the tender will be treated cancelled. The earnest money will be returned to unsuccessful tenderers on application after issue of work order to the successful bidder. For successful tenderer the EMD will be returned on application after an equal amount of security deposit is deducted from the running bills.

**Amount:-Rs**

**D.D No.**..... Dated / /20

**Name of Issuing Bank:--**

**Branch :-**

8. Work is to be carried out as per specification laid in the B.O.Q or PWD specification as per instruction of the University Engineer or his representative.



**9.**The materials brought to site for execution of the work should by no means be taken out of site without the permission of the Engineer C.U.

**10.** The rates must be quoted in words in figure other wise the tender will be cancelled.

**11.** The University will not be bound to accept the lowest bidder.

**12.**The University will not supply any materials to the contractor.

**13.** The contractor will work under the strict supervision of the Engineer/ Sub-Assistant Engineer. The estimate given along with the tender are provisional payment will be made on the actual work done jointly measured by the Engineer or his representative( Sub-Assistant Engineer)& the contractor or his representative. The contractor will have to submit bill in printed format in duplicate .

**14.** The contractor will have to take necessary instruction from the Engineer CU/ Sub-Assistant Engineer regarding the execution of work.

**15.**Defect & liability Period :-The defect & liability period will be for a period of six months from the date of completion of the job. Any defects pointed out during this period has to be mend good by the agency at their own cost failing which the retention money will be forfeited.

Sd/-

University Engineer

Name of the Agency:

Address :-

**SIGNATURE OF THE CONTRACTOR WITH SEAL AND DATE**

**B.O.Q FOR THOROUGH E.I WORKS FOR HIRONMOYEE CHHATRI BHAWAN,53/2/4A,HAZRA ROAD,KOLKATA 19**  
**REPLACEMENT OF AGE OLD WIRING WITH ENHANCEMENT OF CEILING FAN IN EACH ROOM,PROPER EARTHING SYSTEM**  
**INCL SYPLY & FIXING NEW CEILING FAN,LUMINAIRES ETC.**

**(QUANTITY OF ITEM MAY VARRY DURING THE EXECUTION OF WORK)**

Sl.No.	Description of work	Unit	Rate	Quantity	Amount	PWD 17 Sch.
1	Distribution wiring in 1.1 KV grade 2x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in suitable size PVC casing-capping (Precision make) with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, incl. necy. PVC clips, fittings etc. to light/fan/call bell point with piano key type switch (Anchor make) fixed on sheet steel fabricated switch board with Perspex/bakelite top cover on wall incl. necy. connections and making earthing attachment and mending good damages to building works. [PVC casing-capping and Switch board both on surface] Average run 5 mtr	Each	577	287	165599	E11/2b
2	Supply & Fixing 240 V, 20A, plug socket with separate 20 A Piano key type switch (Brand approved by EIC) on sheet metal switch board embedded in wall incl. S & F 150x100x65mm MS (16SWG) switch board and bakelite/perspex top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover and making necessary connections as required	Each	287	2	574	E6/22
3	Distribution wiring in 1.1 KV single core stranded FR PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required.					
	2x22/0.3(1.5sq.mm)+1x22/0.3(1.5sq.mm)ECC(LDB to SWITCH BOARD)	RM	102	320	32640	E14/E1
	2 x 36/0.3 (2.5 sqmm) + 1 x 22/0.3 (1.5 sqmm) ECC	RM	119	57	6783	E14/E1/ii]
	2 x 56/0.3 (4 sqmm) + 1 x 36/0.3 (2.5 sqmm) ECC	RM	149	63	9387	E14/E1/iii
	2 x 84/0.3 (6 sqmm) + 1 x 56/0.3 (4 sqmm) ECC	RM	193	41	7913	E14/E1/iv
4	Supply & Fixing Socket type fan regulator (Step type) (Brand approved by EIC) on existing sheet metal switch board with bakelite/perspex top cover by screw after making housing for regulator knob by cutting bakelite/perspex top cover incl. making necy. connections etc	Each	236	97	22892	E6/18A
5	Fixing only single /twin fluorescent light fitting complete with all accessories directly on wall/ceiling/HW round block and suitable size of MS fastener	Each	100	140	14000	C2/14b
6	Supplying and fixing double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment (2+12) Way Legrand(Encl607712)	Each	1757	4	7028	D9/13
7A	Supplying and fixing 240/415 V MCB Isolator on					

	din rail of existing DBs and necessary connection					
	DP 63A	Each	460	4	1840	D5/6]
7B	Fixing only fan clamp for RC ceiling as per specification	Each	106	50	5300	c3/27
7C	Supplying and fixing 240/415 V MCB of Breaking capacity 10KA & C characteristics on din rail of existing DBs & necy conn. 6-32A...SP	Each	190	36	6840	D6/7
8	Lowering and refixing only ceiling fan complete with blades, canopy, fork, rubber bush etc. incl. making necessary disconnection and connection as required	Each	35	60	2100	C3/22
9	Fixing only exhaust fan after making hole in wall and making good damages and smooth cement finish etc. as practicable as possible and providing necy. length of PVC insulated wire and making connection for exhaust of following diameter: (a) 23 cm (9") (For Toilets in each floor)	Each	247	6	1482	C4/28a
10	Supplying and fixing Sheet steel Main Switches on flat iron frame on wall					
a	240V DP with fuse on L&N 30/32A(Havells/standard/L&T)	Each	1277	2	2554	D1/1A
b	415V TPN with fuse on L&N 60/63A (Havells/L&T/Standard)	Each	3568	1	3568	D1/1B
11	Supplying and Drawing 1.1 KV single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (Brand approved by EIC) of the following sizes in the prelaid polythene pipe and by the prelaid GI fish wire and making necy. connection as required.					
a	4x126/0.4 (16 sqmm) + 2x80/0.4 (10 sqmm) as ECC	RM	795	6	4770	E9/1g
b	2x84/0.3 (6 sqmm) + 1x56/0.3 (4 sqmm) as ECC	RM	139	5	695	E9/1Y
12	LUMINAIRES Sleek& decorative strip type fixture domestic electronic ballast suitable forT8 FTL (Without lamp)1x36Watt Havells	Each	270	140	37800	plist17 page24
13	Supplying of heavy duty exhaust fan of following rating					
a	300mm/9" ..1370rpm.40 watt ( For Toilet)	Each	1660	6	9960	plist14
	Supplying of Ceiling Fan 1200mm.(CG,Orient,Havells)	Each	1620	50	81000	Plist 14
	(This item may be replaced by wall pedestal fan (12") instead of ceiling fan according to the site aswell as ceiling condn .Rates & make are remain same					
14	Fixing only ceiling fan complete with blades, canopy, fork,rubber bush etc. incl. S&F connecting wire for down rod upto 30 cm incl painting the rod with approved paint and making necessary connection as required by 2x1.5 sqmm flexible copper.	Each	68	55	3740	C3/17
15	EARTHING					
A	Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 Mts. long and 1 x 4 SWG GI (Hot Dip) wire (4 Mts. long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers incl. S & F 15 mm dia GI pipe protection (1 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level driven to an average depth of 3.65 Mts. below the ground level as below: By ISI-Medium GI pipe	Set	1369	1	1369	G1/2a

B	Extra for treatment of soil by using salt & charcoal or coke for plate electrode	Set	531	1	531	G2/3b
C	Extra for providing masonry enclosure on the top of the earth electrode of overall size 86.36 cm x 86.36 cm x 46 cm deep (below Ground level) complete with cemented brick work(1:6) of 25 cm width duly plastered with cement mortar (inside) CI hinged inspection cover of size 36.56 cm x 35.56 cm with locking arrangement, GI reducer including drilling of 46 nos. 12 mm dia holes on the GI pipe	item	915	1	915	G2/3a
D	Supplying & fixing earth busbar of galvanized (Hot Dip) MS flat 25 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc. as required	RM	156	2	312	G2/4a
E	Earth Continuity Conductor : Connecting the equipments to earth busbar including S & F GI (Hot Dip) wire of size as below on wall/floor with staples buried inside wall/floor as required and making connection to equipments with bolts, nuts, washers, cable lugs etc. as required and mending good damages No. 10 SWG	RM	6	120	720	G2/5
16	Supply&Fixing only tube light of 36Watt in newly installed luminaires.	Each	47	140	6580	
	<b>(A) TOTAL BASIC COST :</b>				438892	
	<b>(B)G.S.T @12% ON TOTAL TENTATIVE BASIC COST(A)</b>					
	<b>Subject to verification of accounts dept.)</b>				52667	
	<b>TOTAL BASIC COST +GST(A+B)</b>				491559	
	<b>(C) ADD 1% L.W CESS ON (A+B) :</b>				4916	
	<b>TOTAL COST :(A+B+C)=Rs(438892+52667+4916)= RS</b>				496475	
	<b>(Four lacs ninetysix thousand four hundred seventyfive only)</b>					



**UNIVERSITY OF CALCUTTA**  
OFFICE OF THE UNIVERSITY ENGINEER  
87/1 College Street  
Darbhanga Building, Ground Floor  
Kolkata-700073  
Website :-www.caluniv.ac.in

**NOTICE INVITING TENDER**

University of Calcutta invites **sealed** tender from resourceful and bonafide contractors for the following work

1.	N.I.T. No	:	Eng /ET- 216 /19-20. Dated 13 / 09 / 2019
2.	Name of Work	:	EI work for remaining part of central wing of the department of Marine science, 7 <sup>th</sup> floor, Ballygunge science college. (2rooms, corridors, toilets, rewiring & distributions)
3.	Estimated Cost put to Tender	:	3,50,137/-( Three Lacs fifty thousand one hundred thirty seven only)
4.	Earnest Money	:	A sum of <b>Rs18000/- (Rupees Eighteen thousand only)</b> . in the form of <b>CTS</b> demand draft in favour of University of Calcutta payable at Kolkata is to be attached with the Tender as earnest money failing which the tender will be treated cancelled. The earnest money will be returned to unsuccessful tenders on application after issuing of work order to the successful bidder. In case of successful tender the EMD will be returned on application after an equal amount of security deposit is ducted by the University from the running bills.
5.	Time of completion	:	45 days
6.	Eligibility Criteria	:	<b>Valid trade License , GST &amp; Pan and credential for satisfactory completion of similar nature of job. Amounting 75 % of the estimated value in a single tender in the last three financial year . Government, Government Undertaking and University of Calcutta credentials are accepted.(only completion certificate of the work should be treated as Credential.</b>
7.	Last date of receipt of application for tender	:	NA
8.	Last date of Sale/ issue of tender papers	:	TO BE DOWNLOADED FROM WEBSITE.(www. caluniv.ac.in)
9.	Last Date and Time of tender Submission	:	23 / 09 /19(10am to 5pm )
10.	Date and Time of Tender Opening	:	After 3:00 PM 23 / 09 / 2019

**N.I.T no ,Name of work and the date of opening should be written on the sealed envelope otherwise tender will not be opened thus cancelled.**

**The undersigned reserves the right to reject any or all Tenders without assigning any reason what so ever.**

UNIVERSITY ENGINEER (C.U)



## UNIVERSITY OF CALCUTTA

**Name of the work:** E.I Works strengthening incoming cable to withstand additional load of geyser & ac at UG & PG hostel Hastings house compound, Kolkata 27 with fresh wiring by copper wire, luminaires with LED tube, as & where necessary basis (For both the hostel)

**N. I.T. no-** Eng /ET- 216/19-20.      **Dated** 13 / 09 / 2019

**Estimated cost Put to Tender:** 3,50,137/- (Three Lacs fifty thousand one hundred thirty seven only)

**Name of Agency:-**

**Address of Agency:-**

**Rate quoted by Agency:-** ..... (      %)  
**Percent Above / At par / Below**

**Signature of the Agency with date & stamp:-**





# UNIVERSITY OF CALCUTTA

**N. I.T. no-** Eng/ET-216/19- 20.      **Dated** 13 / 09 / 2019

## TENDER AND CONTRACT FOR WORK

### GENERAL TERMS AND DIRECTION FOR THE GUIDANCE OF CONTRACT

1. Eligible Tenders will have to download the tender papers from the website & drop the filled tender papers signed with seal and date at every page along with copy of Valid Trade license's, GST & PAN and Credential for satisfactory completion of similar nature of job amounting to at least seventy five percent of the job value in a single tender from any Government, Govt. undertaking or University of Calcutta in the last three financial year in sealed envelope in the Tender box kept in the Office of the undersigned with in the specified time mentioned in the NIT. which will be opened by the undersigned or by his representative with in **the specified time and date mentioned in the NIT.** **The tendered must write the name of the work , NIT no , the date of opening and name of the bidder on the envelop failing which the tender will not be opened thus will be treated as cancelled.**
2. The rate should be quoted after inspection of the site and inclusive of all incidental charges i.e. freight, insurances, labour insurances, handling charges, necessary government taxes, duties etc as well as the Water, Electricity charges which are to be paid as per rules .
3. The contractor shall be responsible to ensure compliance with the provision of minimum wages act 1948 as modified up to date and the rules made in respect of any employees, employed by the contractor directly or through the petty or subcontractor for the purpose of carrying this contract. The contractor shall be responsible for any damage, injury or loss caused by the work or workmen to any person, animal or material during the progress of work.
4. Liquidated damage will be charged to the contractor if they fail to complete the work within the stipulated time, 0.01% per day to a maximum limit of 05 % of the contract value .



5. The allotted time for completion of the work 45 days from the date of receipt of work order. Time is the essence of this contract. Normally no time extension will be granted. In case of prayer for extension of time the University authority has the full right reserved to grant it or discard it.

6. (a) If the successful contractor's bid rate is 80% or less than the estimated amount put to tender the contractor will have to submit a Bank Guarantee amounting to 10% of the Tendered amount before issue of Work order failing which the EMD will be forfeited and the agency may be blacklisted. The Bank Guarantee should be valid till the end of the contract period and shall be renewed accordingly if required. This bank Guarantee is an Additional Performance Security. So provision of deducting Security deposit from bills will hold goods per relevant clause of the contract. The bank Gurrantee shall be returned immediately on successful completion of contract.

(b) The University authority will retain a sum amounting to 10% of the bill of the contract for a period of six months from the date of completion of work as **Security Deposit**. Which will be released after a period of six months from the date of completion of the work on application.

7. A sum of 5% of the estimated amount i.e. value **as mentioned in the NIT** in the form of demand draft in favour of UNIVERSITY OF CALCUTTA payable at Kolkata is to be attached with the tender as earnest money failing which the tender will be treated cancelled. The earnest money will be returned to unsuccessful tenderers on application after issue of work order to the successful bidder. For successful tenderer the EMD will be returned on application after an equal amount of security deposit is deducted from the running bills.

**Amount:-Rs**

**D.D No.**..... Dated / /20

**Name of Issuing Bank:--**

**B ranch :-**

8. Work is to be carried out as per specification laid in the B.O.Q or PWD specification as per instruction of the University Engineer or his representative.



**9.**The materials brought to site for execution of the work should by no means be taken out of site without the permission of the Engineer C.U.

**10.** The rates must be quoted in words in figure other wise the tender will be cancelled.

**11.** The University will not be bound to accept the lowest bidder.

**12.**The University will not supply any materials to the contractor.

**13.** The contractor will work under the strict supervision of the Engineer/ Sub-Assistant Engineer. The estimate given along with the tender are provisional payment will be made on the actual work done jointly measured by the Engineer or his representative( Sub-Assistant Engineer)& the contractor or his representative. The contractor will have to submit bill in printed format in duplicate .

**14.** The contractor will have to take necessary instruction from the Engineer CU/ Sub-Assistant Engineer regarding the execution of work.

**15.**Defect & liability Period :-The defect & liability period will be for a period of six months from the date of completion of the job. Any defects pointed out during this period has to be mend good by the agency at their own cost failing which the retention money will be forfeited.

Sd/-

University Engineer

Name of the Agency:

Address :-

**SIGNATURE OF THE CONTRACTOR WITH SEAL AND DATE**

**B.O.Q FOR REMAINING PART OF E.I work of CENTRAL WING OF THE DEPT OF MARINE SC.  
7th FLOOR,BALLYGUNGE Sc.COLLEGE,CU(2 rooms,corridors,toilets rewiring & distribution)**

SI.No.	Description of work	Unit	Rate	Quantity	Amount	PWD17
1	Distribution wiring in 1.1 KV grade 2x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in suitable size PVC casing-capping (Precision make) with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, incl. necy. PVC clips, fittings etc. to light/fan/call bell point with piano key type switch (Anchor make) fixed on sheet steel fabricated switch board with Perspex/bakelite top cover on wall incl. necy. connections and making earthing attachment and mending good damages to building works. [PVC casing-capping and Switch board both on surface]	Each	659	42	27678	E21/1
2	Supply & Fixing 240 V, 3 nos. 6A, & 1 no. 20A plug socket with separate 3 nos. 6 A & 1 no. 20A Piano key type switch with indicator & 16A kit-kat flush type fuse (Brand appr'd by EIC) on sheet metal switch board embedded in wall incl. S & F 240x200x65mm MS (16SWG) switch board and bakelite top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover & making necy conn.	Each	663	20	13260	E7/25
3	Supply & Fixing 240 V, 20A, plug socket with separate 20 A Piano key type switch (Brand approved by EIC) on sheet metal switch board embedded in wall incl. S & F 150x100x65mm MS (16SWG) switch board and bakelite/perspex top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover and making necessary connections as required	Each	287	13	3731	E6/22
4	Supply & Fixing of perforated GI cable tray bend with perforation more than 17.5% suspended from ceiling with two nos. suspend & 25x25x3mm angle iron for supporting the cross member incl. GI connector, 6mm dia MS suspender, bolts & nuts, steel fastener etc. as required of the following size. Incl. AI painting of MS support 300x50x1.25mm (18SWG)	each	367	42	15414	D14/34
5	Supplying and fixing double door Vertical TPN MCB Distribution board for MCCB incomer with IP-42/43 protection, on angle iron frame on wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment Enclosure(607914)Legrand upto 160A 8Way	Each	10683	1	10683	D11/15
6	Supplying and fixing 415 V Four Pole MCCB of Breaking capacity 25kA/35kA with fixed thermal and fixed magnetic / adjustable thermal and fixed magnetic setting in existing DBs / enclosure and necessary connection					

	Legrand 160A FP	Each	9759	1	9759	D8/10
7	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection					
	Legrand 63A TP	Each	1432	8	11456	D6/7
8	Supplying and fixing double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment.					
	Legrand(Encl.607712) 2+12way	Each	1757	1	1757	D9/13
9	Supplying and fixing double door Horizontal TPN MCB Distribution board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment					
	Legrand(encl.607717) 8way	Each	4194	2	8388	D10/14
10	Supplying and fixing 240/415 V MCB Isolator on din rail of existing DBs and necessary connection.					
a	63A DP Legrand	Each	460	1	460	D5/6
b	100A FP Legrand	Each	927	2	1854	Do
11	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection					
	SP 6-32Amps Legrand	Each	190	60	11400	D6/7
13	Supply & Fixing 240 V, 25A Modular type socket, 25 A, Modular type starter (Brand approved by EIC) with 25A Modular switch type DP MCB (C-Curve) and 6 Module GI Modular type switch board with 6 Module top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	Each	1047	3	3141	E19/18
14	Supply & Fixing 240V, step Socket type fan regulator( Brand apprpd by EIC) on existing switch board .	Each	218	14	3052	E6/18b
15	Supplying of PVC <b>Arm.cable with Al. conductors of 1.1 KV grade conforms</b> to I.S:1554 (part-1) for following cross -section					
	A)1x70 sq.mm 3.5 core (do)	RM	422	50	21100	p/list18
	B)1x 35sq.mm 3.5 core (do)	RM	239	60	14340	do
	C)1x16 sq.mm 2 core (do)	RM	126	60	7560	do
16	Laying of cable upto 2/3/4 core, following cable on existing cable tray & binding with suitable size GI wire					
	A)1x70 sq.mm 3.5 core (do)	RM	15	50	750	F3/6
	B)1x 35sq.mm 3.5 core (do)	RM	11	60	660	do
	C)1x16 sq.mm 2 core (do)	RM	11	60	660	do
17	S&F compression type gland complete with brass gland rubr rings for dust & moisture proof entry					

	A)1x70 sq.mm 3.5 core	(do)	Each	212	2	424	F4/7
	B)1x 35sq.mm 3.5 core	(do)	Each	162	4	648	do
	C)1x16 sq.mm 2 core	(do)	Each	115	4	460	do
18	Finishing the end of following cables by crimping method incl S&F dowels etc.						
	A)1x70 sq.mm 3.5 core	(do)	Set	282	2	564	F5/8b
	B)1x 35sq.mm 3.5 core	(do)	Set	169	4	676	do
	C)1x16 sq.mm 2 core	(do)	Set	61	4	244	do
19	LUMINAIRES						
A	TMC 501P 2xT -LED Incl.mounting rail for TLED Lamps (Philips)		Each	600	26	15600	LED P/Ist
B	TLED Essential tube 1200mm..1600 Lumen 20w(Philips)		Each	400	52	20800	2017
20a	Lowering & refixing of existing ceiling fan complete with blades canopy,fork,rubber bush etc.incl making necy connection & disconn. as reqd.						
			Each	35	8	280	C3/22
20b	Supplying of Ceiling Fan 1400mm. MAKE Crompton GRVS,Orient ETC						
			Each	2135	6	12810	p/Ist16
21	Fixing only single/twin fluorescent light fitting suspended25cm bellow the ceiling with 2 No. 20 mm dia EI conduit (14 SWG) supports fixed with "U" type MS clamp whose one side fixed on ceiling with sutable size 4 nos. fastener and other side connected with the conduit with suitable size of bolts and nuts incl. S&F EI (14SWG) box type clamp. mending good damages to original finish and painting etc. by 2x24/0.20 mm (1.5sqmm.) flexible copper wire of 1.1kv grade						
			Each	199	20	3980	C2/17
22	Supplying and fixing 415V, TPN SFU with sheet steel enclosure on flat iron/angle iron frame on wall with nuts bolts etc incl. S & F 3 nos. DIN type HRC fuse as per rating. 160A						
			Each	7908	1	7908	D3/4a
23	Supplying and fixing sheet steel (16SWG) cable end box on TPN SFU enclosure with nuts bolts etc incl. powder coated painting. 160A						
			Each	567	2	1134	D5/5
24	S&F POWER ON- OFF panel comprising ML2/AC3 contactor,push button switch with aux.contact,fuse protection,pilot lamp,with necy.internal wiring.						
			Each	9785	1	9785	
25	Distribution wiring in 1.1 KV single core stranded FR pvc insultd unsheathed copper wire (Brand approved by EIC)in 20mm size PVC rigid conduit 'FR(Precision make) incl. necy fittings as required						
	2x22/0.3(1.5sq.mm)+1x22/0.3(1.5sq.mm)ECC(LDB to SWITCH BOARD)		RM	102	67	6834	E14/E1
a	2 x 36/0.3 (2.5 sqmm) + 1 x 22/0.3 (1.5 sqmm) ECC (PDB to 6A Plug pt)		RM	119	177	21063	E14/E1]
b	2 x 56/0.3 (4 sqmm) + 1 x 36/0.3 (2.5 sqmm) ECC (PDB to 16A plug)		RM	149	117	17433	E14/E1
c	2 x 84/0.3 (6 sqmm) + 1 x 56/0.3 (4 sqmm) ECC (PDB to Metal plug)		RM	193	73	14089	E14/E1
26	<b><u>INTER CONNECTION BETWEEN MAIN BUSBAR TO FSU INCOMING</u></b>						
	Inter-connection between Bus-bar to TPNFSU by <b>Havell's single core copper conductor (flexible) of following cross-section incl.</b>						

S&F proper copper socketing and crimping & flexible pipe.

c)95 sq.mm

RM 950 6 5700 P/lst18

- 27 Supplying & fixing earth busbar of galvanized (Hot Dip) MS flat 25 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc. as required

RM 156 2 312 G2/4a

- 28 Earth Continuity Conductor :

Connecting the equipments to earth busbar including S & F GI (Hot Dip) wire of size as below on wall/floor with staples buried inside wall/floor as required and making connection to equipments with bolts, nuts, washers, cable lugs etc. as required and mending good damages

No. 10 SWG (2x50+2x60+1x60)=280

RM 6 280 1680 G2/5

**(A) TOTAL BASIC COST :**

309527

**(B)G.S.T @12% ON TOTAL TENTATIVE BASIC COST(A)**

37143

**TOTAL BASIC COST +GST(A+B)**

346670

**(C) ADD 1% L.W CESS ON C :**

3467

**TOTAL COST :(A+B+C)=Rs(309527+37143+3467)= RS**

350137

**(Three lacs fifty thousand one hundred thirtyseven only)**