

Tender No.

Name of Firm:

TENDER DOCUMENT

Name of Work : Electrical renovation of 15 Nos. rooms at IInd Floor of Administrative Block of NIH

Tender Notice No. 5(XX)/2017-Pur-4(Elect.)

Dated: 19.12.2017

Last Date for Receipt of Tender Bids: 15.01.2018 at 3.00 PM

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-249230, Fax: 91-1332-2727123. 273976
E-mail: surjeet.nihr@gov.in; Website: www.nihroorkee.gov.in

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-249230, Fax: 91-1332-2727123. 273976
E-mail: surjeet.nihr@gov.in; Website: www.nihroorkee.gov.in

Tender Notice No: 5(XX)/2017-Pur-4(Elect.)

Dated: 19.12.2017

TENDER NOTICE

Sealed item rate tenders are invited in two Bid System comprising Technical & Financial from Electrical Contractor/ Firms which are registered with CPWD/State PWD/MES/NBCC for the appropriate category & class including Registered contractors of NIH, Roorkee & having experience of Electric works with IITs/ PSUs / Autonomous Organization of the Central/State Government /Reputed private organization for the work detailed below:

Institute reserves the right to cancel any or all tenders without assigning any reason.

Sl. No.	Name of Works	Estimated cost including all taxes (in Rupees)	Earnest Money (in Rupees)	Tender Cost (in Rupees)	Time of Completion
1.	Electrical Renovation of 15 rooms at IInd Floor of Administrative Block in NIH	8,35,681.00	17,000.00	590.00 Non-refundable	4 months

TERMS & CONDITIONS

- Complete Tender document is to be dropped in the Tender Box kept in the Office of Procurement Officer, NIH, Roorkee on or before **15.01.2018 up to 3:00 P.M.** Technical Bid shall be opened at **15.01.2018 at 4.00 P.M.** Firms/company/agency/contractor or their authorized representative (in case of authorized representatives proper authorization letter must be brought for verification) who have responded to the tender(s) may be present, if they so wish, at the time of opening of the bid. Financial bids of qualified firms will be opened afterwards and date & time will be intimated to the qualified firms by e-mail/post/telephonically.
- The complete tender is required to be submitted along with the E.M.D. in the shape of Account Payee Demand Draft/Fixed Deposit Receipt in acceptable form, issued from any of the Nationalize Banks duly pledged in the name of **National Institute of Hydrology, Roorkee.** E.M.D. should be enclosed with the Technical Bid. Tender without EMD shall stand rejected.
- The tender form can be purchased from the office of Procurement Officer, NIH, Roorkee to only those Contractors/ Agencies who send a request application accompanied with a Bank Draft of Rs. 590.00 in favour of National Institute of Hydrology, Roorkee. Application for the above tender be submitted to the Office of the undersigned up to 12.01.2018 at **05:00 PM** and same shall not be entertained after due date and time. The tender form can also be seen and downloaded from our website www.nihroorkee.gov.in but the bid shall be accepted only with bank draft of Rs. 590/- in **favour of National Institute of Hydrology, Roorkee, payable at Roorkee** as a part of the technical bid.
- Eligibility Criteria and Experience Certificate of Govt. Offices/ Semi-Govt./ State Govt./ IITs/ PSUs / Autonomous Organization of the Central/State Government / PSUs & Reputed Private Organization :-**
 - Experience of having successfully completed similar works during the **last 7 years ending previous day of last dated of submission of tenders.**

Three similar completed works costing not less than the amount equal to 40% of the estimated cost.
Or
Two similar completed works costing not less than the amount equal to 60% of the estimated cost.
Or
One similar completed work costing not less than the amount to 80% of the estimated cost.
 - Turnover: The average Annual Financial turn over on Electrical Works should be at least 100% of the estimated cost during the immediate last 3 consecutive Financial Year - copy lof audited balance sheet by Chartered Accountant shall be enclosed with the Technical Bid as a proof.
- Similar work means - Electrification work.
- Authentic Experience Certificate issued by the Officer of the Rank of not less than Executive Engineer/ Equivalent would be acceptable.

PROCUREMENT OFFICER

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-249230, Fax: 91-1332-2727123. 273976
E-mail: surjeet.nihr@gov.in; Website: www.nihroorkee.gov.in

Tender Notice No: 5(XX)/2017-Pur-4(Elect.)

Dated: 19.12.2017

INSTRUCTIONS FOR BIDDING

SUBJECT : Electrical Renovation of 15 rooms at IInd Floor of Administrative Block of NIH

Sealed tenders are hereby invited from resourceful, financially sound and competent Electrical contractor/agencies/ firms for the work as stated above in two bid system as given below:

- (A) Technical Bid Form
- (B) Financial Bid Form

It may be noted that tenders should be submitted in the above (enclosed) forms as two separate bids, i.e. (A) Technical Bid, and (B) Financial Bid. Both the bids should be sealed in separate third envelop super-scribing the name of the work and bidding agency.

(A) TECHNICAL BID or (B) FINANCIAL BID

The envelope should be addressed and sent to the "Procurement Officer, National Institute of Hydrology, Jalvigyan Bhawan, Roorkee - 247 667 (U.K.)" so as to reach on due date and time. Tenders received after the due date for whatsoever reason, including postal delays, shall not be considered any circumstance.

Tender Forms along with terms and conditions, can be obtained from the office of Purchase Officer, National Institute of Hydrology, Roorkee on any working day from 10.00 a.m. to 5.00 p.m. on producing the receipt of depositing of Rs. 590/- in cash in the Institute Treasury or with a non-refundable bank draft of Rs. 590/- (Rupees five hundred and ninety only) in favour of "National Institute of Hydrology, Roorkee", payable at Roorkee or it can be downloaded from our website www.nihroorkee.gov.in. If downloaded from the Institute's website, then enclose Demand Draft/Institute Treasury receipt of Rs. 590/- as a Tender Form Fee. The tender documents completed in all aspect, should reach the office of Purchase Officer, NIH within the stipulated date and time. The Institute will not be responsible for any postal or any other delays.

Earnest Money of Rs. 17,000/- (Rs. Seventeen thousand only) should be deposited in the form of Account Payee Demand Draft in acceptable form issued from the any of the Nationalized Banks which is duly pledged in the name of National Institute of Hydrology, Roorkee. EMD should be kept in the envelope of Technical Bid. Tenders without EMD and tender fee shall stand rejected.

The "Technical Bids" shall be opened at 15.01.2018 at 4.00 P.M. in the office of the Chairman, Tender Opening Committee, in the presence of the representatives of the bidding agencies, who wish to be so present. No separate communication will be made in this regard. The technical bids shall be evaluated on the basis of credentials and eligibility criteria on the basis of which the bidders would be short listed for prequalification for the opening of the Financial Bid.

The bidders should be prepared to visit Roorkee for this purpose at short notice. Any additional information needed by the Institute to evaluate the professional capabilities of the bidding firm(s) shall have to be submitted by the concerned firm(s).

The "Financial Bids" of only the short listed/prequalified firms shall be opened subsequently for which separate information would be given either through email/telephonically/post.

It may also be noted that the tender bids received after the stipulated date and time or found incomplete and the tender bids containing false/incorrect information shall be summarily rejected. The Institute shall not entertain any communication in this regard, whatsoever.

The Director, NIH, Roorkee reserves the right to reject any tender or all the tenders or accept them in part, or reject the lowest tender, without assigning any reasons thereof.

PROCUREMENT OFFICER

Tender No.....

Name of Firms:-.....

(PART-A)

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-249230, Fax: 91-1332-2727123. 273976
E-mail: surjeet.nihr@gov.in; Website: www.nihroorkee.gov.in

Tender Notice No: 5(XX)/2017-Pur-4(Elect.)

Dated: 19.12.2017

Technical Bid Form

For

Name of Work: Electrical Renovation of 15 rooms at IInd Floor of Administrative Block in NIH.

LAST DATE AND TIME FOR

- | | | | | | |
|----|---|---|------------|---|---------|
| 1. | Receipt of Tenders
(Technical bid and financial bid) | : | 15.01.2018 | : | 3.00 PM |
| 2. | Opening of Bids
(Technical Bid) | : | 15.01.2018 | : | 4.00 PM |

SCHEDULE - 1

Technical Bid Format
QUALIFYING INFORMATION

Please furnish the following information along with documentary evidence possible only in this format (as eligibility criteria)

The information to be filled in by the Bidder in the following pages will be used for purposes of Pre-qualification and submitted the supporting documents.

1.	Name of Bidder	:	
2.	Constitution of legal status of Bidder (In case of firm) Attach copy.	:	
3.	Place of Registration and Registration No.	:	
4.	(a)	Year for Establishment of Firm with complete	:
	(b)	Complete Address	:
	(c)	Email I.D.	:
	(d)	Contact Numbers	:
5.	Principal place of business	:	
6.	Permanent Account Number	:	
7.	TIN/GST No.	:	
8.	Service Tax Number	:	
9.	EMD Detail	:	
10.	Work performed as contractor (in the same name) on works of similar natures. Scope of work executed should be as follows:	:	
a.	Eligibility Criteria and Experience Certificate of Govt. Offices/ Semi-Govt./ State Govt./ IITs/ PSUs / Autonomous Organization of the Central/State Government / PSUs & Reputed Private Organization.	:	
b.	Experience of having successfully completed similar works during the last 7 years ending previous day of last dated of submission of tenders: Three similar completed works costing not less than the amount equal to 40% of the estimated cost. <p style="text-align: center;">Or</p> Two similar completed works costing not less than the amount equal to 60% of the estimated cost. <p style="text-align: center;">Or</p> One similar completed work costing not less than the amount to 80% of the estimated cost.	:	

** Bidders should submit copy of satisfactory service/ completion certificate as per the scope mentioned in RFP.

S.No.	Description of work	Date of Start	Date of Completion	Address/ Location/Name of the Client	Value of work Completed Done

If required separate sheet may be enclosed.

11. Detail of Works in hand :

S.No.	Description of work	Date of Start	Date of Completion	Address/ Location/Name of the Client	Cost of The work allotted	Cost of the work executed till date

If required separate sheet may be enclosed.

13. The list of Technical & Non Technical Supervisor Staff required to deputed at site be enclosed separately.

15. Any other information highlighting the qualifying criteria, competency, credential and capability in handling building work.

Signature of Bidder
with Seal

SCHEDULE-2

Name of work : Electrical Renovation of 15 rooms at IInd Floor of Administrative Block in NIH.

DECLARATION

1. (A) I/We hereby declare that I/we (Name) _____

have no other business relations with the Institute.

OR

(B) Have the following other association with the Institute.

2. (A) Have no relatives or connection by marriage on the staff of the Institute.

OR

(B) Have the following relatives or connection by marriage on the staff of the Institute.

Name	Relationship	Designation	Office in which posted
(i)			
(ii)			
(iii)			
(iv)			
(v)			

Signature and full

address of the contractor /contractors

Note: Stick out (a) or (b) of each of the above declaration which is not applicable.

SCHEDULE - 3

UNDER TAKING

(ON A NON JUDICIAL STAMP PAPER OF Rs.100/-)

Name and Address of the firm/company/Agency/contractor.....

.....

Name of the tender.....

Due date:

Sir,

1. I/We hereby agree to abide by all terms and conditions laid down in tender document.
2. This is to certify that I/We before signing this bid have read and fully understood all the terms and conditions and instructions contained therein and undertake myself/ourselves abide by the said terms and conditions.
3. The information given in the tender is correct and best to my knowledge.

I/we agree to the forfeit of the earnest money deposit and performance deposit by me in connection with this tender, if I fail to comply with any of the terms and conditions mentioned in the tender document.

SCHEDULE - 4

Check List

The following documents (in same order), must be furnished and attached along with the "Technical Bid"

Sl. No.	Particulars
1.	Copy of valid Electrical Safety License "A" Class.
2.	E.M.D. as stated above (in a separate envelope super scribed "EMD")
3.	Tender Form Fee (only in case of downloaded tender form) as stated above (in a separate envelope super scribed "Tender Form Fee")
4.	Copy of Registration/Enlistment letter of the firm/company/agency.
5.	Copy of affidavit duly notarized regarding proof of proprietor (in case of Proprietorship firm)
6.	Copy of valid PAN Card
7.	Copy of valid TIN/GST No.
8.	Copy of valid Service Tax No.
9.	Eligibility Criteria and Experience Certificate of Govt. Offices/Semi-Govt./IITs/PSUs/ Autonomous Organization of the Central/State Government/PSUs/Reputed Pvt. organisation.
	Experience of having successfully completed similar works during the last 7 years ending previous day of last dated of submission of tenders: Three similar completed works costing not less than the amount equal to 40% of the estimated cost. OR Two similar completed works costing not less than the amount equal to 60% of the estimated cost. OR One similar completed work costing not less than the amount to 80% of the estimated cost.
	Turn over: The average Annual Financial turn over on Electrical works should be at least 100% of the estimated cost during the immediate last 3 consecutive Financial Year - copy of audited balance sheet by Chartered Accountant shall be enclosed with the Technical Bid as a proof.
10.	All the pages of the tender document should be signed including Technical and Financial Bids, Schedule C&D etc.
11.	Undertaking as prescribed on Rs. 100/- Judicial Stamp Paper duly notarized.
12.	Any other document as may be necessary in connection with the job rendered for, including certificate and list of client (with address) where presently services are provided.

(Signature of the Bidder)

Name and Address of the Bidder:

Telephone No.

(PART - B)

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-249230, Fax: 91-1332-2727123. 273976
E-mail: surjeet.nihr@gov.in; Website: www.nihroorkee.gov.in

Tender Notice No: 5(XX)/2017-Pur-4(Elect.)

Dated: 19.12.2017

Financial Bid Form

For

Name of Work: Electrical Renovation of 15 rooms at IInd Floor of Administrative Block in NIH.

Note : Financial Bids of qualified firms will be opened afterwards and date will be intimated to qualified firm.

(Opening date & time shall be informed to only the short listed prequalified bidder)

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-249230, Fax: 91-1332-2727123. 273976
E-mail: surjeet.nihr@gov.in; Website: www.nihroorkee.gov.in

General instructions and conditions

1. The rates shall be inclusive of GST. Bidder should keep in to consideration all fluctuations in market rate and no claim be entertained due to any such variation prior to the acceptance of tender and or during currency of the contract.
2. (i) No bidder shall be permitted to tender for work if any or his relative is posted in the service of the NIH.
(ii) Failure on the part of the bidder to correctly or completely disclosed the names and designation as in sub clause (2) above would Tender the earnest money/the contract, if entered into shall be rescind without any claim for compensation.
(iii) EXPLANATION
(a) The expression near relatives used in this clause means father, mother, sister, brother, brother-in-law, son-in-law or mother-in-law, son-in-law, father's cousin or self, wife, son, daughter, father, mother, father-in-law or mother-in-law.
(b) The expression bidder or self used in this clause includes any partner or Director of the tendering firm of the company as the case may be.
(iv) Bidder shall submit with their tender certificates, copies of certificates of their past experience and of their having done work of their magnitude.
(v) The bidders are advised to inspect the site of the work and they will be deemed to have familiarized themselves with the scope of the work, local conditions, drawings, specifications, conditions of contract etc. before submitting their tender.
3. The quantities given in the statement of financial costs are liable to the variations and the contractor shall be bound to execute the changed quantities at his tendered rates without entitling him to any compensation whatsoever. However, in case of increase of quantities of work, suitable extension of time limit for completion of work can be granted on the basis of justified reasons.
4. Tender shall remain open for acceptance for a period of three months from the date of opening the tenders.
5. Canvassing in connection with the tender is strictly prohibited and the tenders submitted by the bidder who resort to canvassing are liable to be rejected.
6. Joint tenders shall not be considered unless parties tendering are registered firm or produce power of attorney from each other.
7. The rates shall be written in figures and words and shall be in English or in Hindi and should be free from errors and over writing. All cancellations and insertions shall be duly signed by the tenders. In case of discrepancy between the rates written in words and figures, the rates written in lower side shall be considered.
8. All rates shall be quoted on the blank form of the tender documents only. Tenders with rates quoted in priyata papers are liable to be rejected.
9. The notice invited tender shall form part of the contract when concluded.
10. (a) Not more than one tender for one and the same work would be submitted by one contractor or firm of contractors.
(b) In case of firm, tenders must be signed by each partner or members or the person holding the power of attorney on behalf of the firm. In the later case a copy of the power of attorney attested by a Gazetted Officer must accompany.
(c) Conditional or incomplete tenders are liable to be rejected.
11. Institute is reserved the rights to reject any or all tenders, accept part of any tender without assigning any reason thereof. If a part of the work is allotted, the bidder shall have to sign the contract bond for the part work allotted to him. If the bidder refuses to accept part work so

allotted his earnest money shall be forfeited unless it has been clearly specified in the tender the part work shall not be acceptable to him.

12. Unless the person whose tender is accepted and sign contract and deposits the security specified in para 6 above within 7 days after he is required to do so, the earnest money deposited to him with that tender will be forfeited and acceptance of his tender withdrawn.
13. Written notice should be deemed to have been duly served is delivered in person to the contractor of his authorized agent or representative if sent by Registered Post to the last business addressed known to the Institute Engineer or his authorized representative.
14. On acceptance of the tender the name of the accredited representative of the contractor who would be responsible for taking instruction from the Institute Engineer, the Engineer-in-charge shall be communicated to the Officer calling the tenders.
15. Defect liability period for this work would be six Months from the date of successful completion of the work.
22. The bidder will be asked to deposit security amount on account of defect liability over the face value of agreements as given below at the time of entertaining in to the agreement in the shape of as mentioned in condition No.6 above:-
 - a. In the case of works estimated to cost up to Rs. 1.00 lacs ,10% of the estimated cost.
 - b. In the case of works estimated to cost more than Rs. 1.00 lac and up to Rs. 2.00 lacs to 10% on the first 1.00 lac and 7.5% on the balance.
 - c. In the case of works estimated to cost more than Rs. 2.00 lacs to 10% on first Rs. 1.00 lac, 7.5% on the next Rs. 1.00 lac and 5% on the balance.
23. Stamp duty will be payable by the contractors as per rules.

PROCUREMENT OFFICER

Name of work:- Electrical Renovation of 15 rooms at IInd Floor of Administrative Block in NIH

Name of the Contractor: _____

Contract Bond No. _____/Director/NIH/2016-17

Dated _____

I hereby tender for the execution for the Director, NIH, Roorkee for the work specified in the underwritten memorandum within the time specified in such memorandum accordance in all respect with the specification ,designs drawings and instructions in written referred in rules. I therefore, and in clause 2 of the conditions of contract and with such materials as provided for in all other respects in accordance with such conditions as far as possible.

MEMORANDUM

1. General Descriptions of Work : As Above
2. Tendered Cost : Rs.
3. Time allowed for the completion of the work
the date of written orders to complete of work: 4 Months
4. Earnest Money : 17,000.00
5. Date of start :
6. Date of completion :

Sl.No	Item of Work	Approx. Quantity	Tendered rate in	
			In Fig.	In Words
Bill of Quantity as per Appendix "B"				

I tender at as per enclosed BOQ the rates mentioned in the attached schedule of Quantity which have signed by me. We hereby agree to execute the work at total amount of the Rs..... (in Words) as per quoted rates.

I/We hereby further agreed to execute any variation and extra item (which is included in DSR-2016) and which is required to complete the work, shall be done on the DSR 2016 rates. The extra items which is not included in DSR-2016 (specified as Non-schedule item) shall be paid as per the approval of Competent Authority.

If this tender is accepted, I hereby agree to abide by and fulfilled all the terms and conditions and provisions of the contract annexed herewith and duly signed by me. In case of any default, Earnest Money submitted by me along with the tender be forfeited and same may be paid to the account of NIH, Roorkee.

The sum of **Rs. 17,000.00 (Rs. Seventeen Thousand Only)** as earnest money with the tender is being offered by me as per **para "4"**. The **above** full value of which shall be retained by the Institute as a part of the security deposit for this work.

Place: Roorkee
Date : _____

Sign. & Address of
the contractor.

NATIONAL INSTITUTE OF HYDROLOGY
(A Govt. of India Society under Ministry of Water Resources
River Development & Ganga Rejuvenation)
JALVIGYAN BHAWAN,
ROORKEE – 247 667 (UTTARAKHAND) INDIA
Tel: 91-1332-249230, Fax: 91-1332-2727123. 273976
E-mail: surjeet.nihr@gov.in; Website: www.nihroorkee.gov.in

Tender Notice No: 5(XX)/2017-Pur-4(Elect.)

Dated: 19.12.2017

Bill of Quantities

Detail estimate based on DSR- 2016

Electrical renovation of 15 Nos. rooms at IInd floor of administrative block in NIH.

S. N.	Code. No.	Particular	Qty.	Rate	Amount
1.	1.15 1.15.3	Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required. Group C Point	60 points		
2.	1.7 1.7.1 1.7.3 1.7.4 1.7.10 1.7.8 1.7.9	Wiring for circuit/ sub main wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed steel conduit as required. 2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire 2 X 4 sq. mm + 1 X 4 sq. mm earth wire 2 X 6 sq. mm + 1 X 6 sq. mm earth wire 4 X 10 sq. mm + 2 X 6 sq. mm earth wire 4 X 4 sq. mm + 2 X 4 sq. mm earth wire 4 X 6 sq. mm + 2 X 6 sq. mm earth wire	350 m 300 m 325 m 04 m 200 m 200 m		
3.	1.17 1.17.3 1.17.6	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/ PVC conduit as required. 3 x 1.5 sq. mm 6 x 1.5 sq. mm	50 m 60 m		
4.	2.9 2.9.5	Supplying and fixing following way prewired vertical type TP&N MCB distribution board of steel sheet for 415 volt on surface/recess complete with loose wire box of sheet steel, dust protected, duly power painted, inclusive of 200 amps tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCB's terminal connectors for all incoming and outgoing circuits, duly prewired with adequate size of FRLS PVC insulated copper conductor up to the terminal connector/neutral link, earthing etc as required (But without MCB/RCCB/Isolator). (Note: prewired vertical type MCB TPDB is normally used where 3 phase outlets are requires). 4 way double door	02 Nos.		
5.	2.10	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. 2.10.1 Single pole	35 Nos.		
6.	2.18	Supplying and fixing 20 A, 240 V, SPN Industrial type socket outlet, with 2 pole and earth, metal enclosed plug top along with 20 A, "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	15 Nos.		

		commissioning etc. as required.			
7.	2.2	Providing and fixing following rating and breaking capacity and pole MCCB with thermo magnetic release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.			
	2.2.1	100 A, 16 kA,TPMCCB	02 Nos.		
8.	1.18	Supplying and drawing following pair 0.5 mm dia FRLS PVC insulated annealed copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.			
	1.18.3	4 Pair	700 m		
9.	1.20	Supplying and fixing of following sizes of steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.			
	1.20.1	20 mm	50 m		
	1.20.2	25 mm	125 m		
10.	1.21	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including			
	1.21.2	cutting the wall and making good the same in case of recessed conduit as required. 25 mm	150 m		
11.	1.24	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.			
	1.24.1	10 Ampeare switch	75 Nos.		
	1.24.3	20 Ampeare single way switch	91 Nos.		
	1.24.4	5 pin 10 Ampeare socket outlet	15 Nos.		
	1.24.5	6 pin 20 Ampeare socket outlet	106 Nos.		
	1.24.6	Telephone socket outlet	15 Nos.		
	1.25	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.	15 Nos.		
	1.26	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	10 Nos.		
12.	1.27	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc. as required.			
	1.27.1	1 or 2 Module (75 mmX75 mm)	45 Nos.		
	1.27.4	6 Module (200 mmX75 mm)	46 Nos.		
	1.27.5	8 Module (125 mmX125 mm)	15 Nos.		
	1.28	Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.			
	1.28.1	1 or 2 Module	45 Nos.		
	1.28.4	6 Module	46 Nos.		
	1.28.5	8 Module	15 Nos.		
13.	1.33	Supplying and fixing 3 pin, 5 A ceiling rose on the existing junction box/ wooden block including connections etc. as required.	50 Nos.		
14.	MR	S/I/T/C of 1200mm sweep energy saving ISI marked 5 star rating A. C. ceiling fan including wiring the down rods of standard length (up to 30 cm) with 1.5 sq m FRLS PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc as reqd. (Make Havells ES-50 5 star rating or equivalent in Crompton/Orient/Usha)	15 Nos.		
15.	MR	SITC of 34/36 Walt 2'x2' surface mounted LED white	30 Nos.		

		Luminaire and fixing it on roof connection with 1.5 sq m FRLS PVC insulated copper conductor single core cable and earthing the fitting etc as reqd. (Havells Make Cat No LHEWEBP7PN1W036 or equivalent in Phillips/Wipro/GE).			
16.	MR	Supplying, Installation, testing and commissioning of 1200 mm Nominal 20 Walt LED tube fitting suitable LED lamp complete with all accessories etc. as reqd. (Crompton Cat no. DMLNIT8-16 & LTT-8-20 and equivalent in Philips/GE/Havells/Wipro).	15 Nos.		
Total:					

NOTE: MAKE OF ITEMS

1. **FRLS Cu. WIRE** : **RR/POLYCAB/FINOLEX/HAVELLS**
2. **Modular box/switches socket/c.rose etc.** : **Anchor ROMA/Legrand/Havells/L&T/C&S**
3. **D.B's/MCB/MCCB** : **Havell's/L&T/Legrand/C&S/ABB**
4. **M.S. Conduit pipe** : **ERW,16 SWG, ISI mark**
5. **Colour code may be must be maintained in the wiring system and connection of MCB/MCCB/switches, socket, isolator must be made through Cu. Lugs/ring type lugs as per the size of wire used in the wiring system.**
6. **PVC conduit pipe** : **AKG, Surya, Prakash**