

Notice Inviting Tender

Name of Work : “Electrical annual maintenance at IGNOU Campus, New Delhi”.
Sub Head :- I (Operation & routine maintenance of Electric sub-station equipments i/c D.G Sets installed in ESS-1, 2, 4, 5 & 10 at IGNOU Campus, Maidan Garhi, New Delhi-68).
Sub Head:- II (Annual comprehensive maintenance of capacitor Panel installed in ESS-1, 2, 5 & 10 at IGNOU Campus Maidan Garhi New Delhi.)
Sub Head:- III (Maintenance of EI & fans of office buildings & Residential flats at IGNOU Campus i/c street lighting & Compound lighting at IGNOU Campus, Maidan Garhi & AGVC New Delhi. Deployment of skilled and un-skilled manpower).
Sub Head:- IV (Petty works, like cable fault detection, cable jointing etc.)
Sub Head:- V (Addition/Alteration of Electrical Installation & Fans.)
Sub Head:- VI (Procurement of electrical items for day to day maintenance to the office buildings and Residential flats at IGNOU Campus Maidan Garhi, & AGVC New Delhi.)

Estimated Cost : ₹ 1,22,21,596/-

Earnest Money : ₹ 2,44,432/-

Performance Guarantee : 5% of tendered cost

Period of Contract : One year

Certified that this NIT contains **226** pages.

Executive Engineer (E)

**INDIRA GANDHI NATIONAL OPEN UNIVERSITY
CONSTRUCTION & MAINTENANCE DIVISION
MAIDAN GARHI, NEW DELHI
NOTICE INVITING TENDER**

No. IG/CMD/EE(E)/NIT/2015-16/
Dated: 26.05.2015

The Executive Engineer (E) Construction Maintenance Division invites on behalf of Vice-Chancellor, Indira Gandhi National Open University, sealed item rate tender for the following works from the approved and eligible contractors those of appropriate class of CPWD/PWD/DOT/DDA/DJB/BSNL/MES who have already executed at least one similar work costing 80% or two similar works costing 60% each or three similar works costing 40% each of estimated cost during the last Five years. The tenders will be sold only on production of Original Registration, Electrical licence, PAN No., TIN No., ESI, EPF, Service tax, latest paid challan of VAT and proof for satisfactory completion of similar works duly certified by the competent authority of the client department.

Name of Work	Estimated Cost (in ₹)	Earnest Money (in ₹)	Cost of Tender (in ₹) N/R	Last date of receipt & sale of Tender	Date of Opening of tender	Time Allowed
Electrical annual maintenance at IGNOU Campus, New Delhi". Sub Head :- I (Operation & routine maintenance of Electric sub-station equipments i/c D.G Sets installed in ESS-1, 2, 4, 5 & 10 at IGNOU Campus, Maidan Garhi, New Delhi-68). Sub Head:-II (Annual comprehensive maintenance of capacitor Panel installed in ESS-1, 2, 5 & 10 at IGNOU Campus Maidan Garhi New Delhi.) Sub Head:- III (Maintenance of EI & fans of office buildings & Residential flats at IGNOU Campus i/c street lighting & Compound lighting at IGNOU Campus, Maidan Garhi & AGVC New Delhi. Deployment of skilled and un skilled manpower.) Sub Head:- IV (Petty works, like cable fault detection, cable jointing etc.) Sub Head:- V (Addition/Alteration of Electrical Installation & Fans.) Sub Head:- VI (Procurement of electrical items for day to day maintenance to the office buildings and Residential flats at IGNOU Campus Maidan Garhi, & AGVC New Delhi.)	1,22,21,596/-	2,44,432/-	1000/-	11.06.2015	15.06.2015	One Year

P.T.O

Tender documents can be obtained from the office of the undersigned, Construction & Maintenance Division Indira Gandhi National Open University, Maidan Garhi, New Delhi-68 on any working day upto 2.30 pm on the date given above. The time for submission of Tenders are upto 3.00 pm which shall be opened on the same day at 3.30 pm on the date given above. The undersigned reserves the right to accept or reject any or all tenders without assigning any reason.

Note:- The tender documents in the website are for information only. Downloaded tender documents will not be considered for bidding. The contractor shall quote their rates in the NIT issued by the department only. If rates quoted in other form will not be considered. Contractors/Agencies have to act as per above NIT.

(U. P. Sharma)
Executive Engineer (E)

**INDIRA GANDHI NATIONAL OPEN UNIVERSITY
CONSTRUCTION & MAINTENANCE DIVISION
MAIDAN GARHI: NEW DELHI- 110 068**

NOTICE INVITING TENDER

1. Item Rate tenders are invited on behalf of Vice Chancellor, IGNOU from approved and eligible contractors (and those of appropriate list of CPWD/PWD/DOT/DDA/DJB/BSNL/MES) for the work of “Electrical annual maintenance at IGNOU Campus, New Delhi”. **Sub Head :- I** (Operation & routine maintenance of Electric sub-station equipments i/c D.G Sets installed in ESS-1, 2, 4, 5 & 10 at IGNOU Campus, Maidan Garhi, New Delhi-68). **Sub Head:- II** (Annual comprehensive maintenance of capacitor Panel installed in ESS-1, 2, 5 & 10 at IGNOU Campus Maidan Garhi New Delhi.) **Sub Head:- III** (Maintenance of EI & fans of office buildings & Residential flats at IGNOU Campus i/c street lighting & Compound lighting at IGNOU Campus, Maidan Garhi & AGVC New Delhi. Deployment of skilled and un-skilled manpower) **Sub Head:- IV** (Petty works, like cable fault detection, cable jointing etc.) **Sub Head:- V** (Addition/Alteration of Electrical Installation & Fans.) **Sub Head:- VI** (Procurement of electrical items for day to day maintenance to the office buildings and Residential flats at IGNOU Campus Maidan Garhi, & AGVC New Delhi.)
2. The enlistment of the contractor should be valid on the last date of sale of tenders.
3. In case only the last date of sale of tender is extended, the enlistment of contractor should be valid on the original date of sale of tenders.
4. In case both the last date of receipt of application and sale of tenders are extended, the enlistment of contractor should be valid on either of the two dates i.e. original date of sale of tender or the extended date of sale of tenders.
5. The work is estimated to cost ₹ 1,22,21,596/-(Rupees One Core Twenty Two Lac Twenty one thousand and Five Hundred ninty six only). This estimate, however, is given merely as a rough guide.
6. The authority competent to approve NIT for the combined cost and belonging to the major discipline will consolidate NIT’s for calling the tenders. He will also nominate Division, which will deal with all matters relating to the invitation of tenders. For composite tenders, besides indicating the combined estimated cost put to tender, should clearly indicate the estimated cost of each component separately. The eligibility of tenderer will correspond to the combined estimated cost of different components put to tender.
7. The tenders will be issued to eligible contractors provided they produce definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority of having satisfactorily completed similar works of magnitude as specified in the advertisement.
8. Agreement shall be drawn with the successful tenderer on prescribed Form No. CPWD-8, which is available as a Govt. of India publication. Tenderer shall quote his rates as per various terms and conditions of the said form, which will form part of the agreement.
9. The time allowed for carrying out the work will be one year from the date of start as defined in the Schedule ‘F’ or from the first date of handing over the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.
10. The site for the work shall be made available in parts as specified below:

Site is available.
11. Applications for issue of forms shall be received by ----- (2:30 PM) and tender documents shall be issued by Executive Engineer (E) (upto 2.30 p.m.). Tender documents consisting of

plans, specifications, the schedule of quantities of various classes of work to be done and the set of terms and conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the Executive Engineer between hours of 11.00 a.m. & 4.00 p.m. from _____ to _____ everyday except on Saturdays/Sundays and Public Holidays. Tender documents, excluding standard form, will be issued from his office, during the hours specified above, on payment of ₹ 500/- in cash (non-refundable) as cost of tender.

12. Earnest Money of ₹ 2,44,432/- in shape of Pay Order/Demand Draft of a schedule Bank issued in favour of IGNOU, New Delhi should accompany the tender.
13. Tenders, which should always be placed in sealed envelope, with the name of work and due date written on the envelopes, will be received by the Executive Engineer (E) upto 3.00 p.m. on ----- and will be opened by him or his authorized representative in his office on the same day at 3.30 p.m.
14. The contractor, whose tender is accepted, will be required to furnish Performance Guarantee of 5% (Five percent) of the tendered amount within the period specified in Schedule 'F'. This guarantee shall be in the form of cash (in case guarantee amount is less than ₹ 10,000/-) or Deposit at call receipt of any scheduled bank/Banker's cheque of any scheduled bank/Demand draft of any scheduled bank/Pay order of any scheduled bank (in case guarantee amount is less than ₹ 1,00,000/-) or Government securities of Fixed deposit receipts or Guarantee bonds of any Scheduled bank or the State Bank of India in accordance with the prescribed form.
15. Description of work is given at Page No. 1 may be seen. Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderers at the office of the above mentioned officer. Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools and plants, water, electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plants etc will be issued to him by the IGNOU and local conditions other factors having a bearing on the execution of work.
16. The competent authority on behalf of Vice Chancellor, Indira Gandhi National Open University does not bind itself to accept the lowest or any other tender and reserves to itself the authority to reject any or all tenders received without assignment of any reasons. All tenders in which any of the prescribed condition is not fulfilled or any conditions including that of conditional rebate is put forth by the tenderer shall be summarily rejected.
17. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractor who resorts to canvassing will be liable to rejection.
18. The competent authority on behalf of Vice Chancellor, Indira Gandhi National Open University reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
19. The contractor shall not be permitted to tender for work in IGNOU (responsible for award and execution of contracts) in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grade of Suptd. Engineer and Junior Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any

capacity or are subsequently employed by him and who are near relative to any gazetted officer in the University. Any breach of this condition by the contractor would render him liable to be removed from the approved list of the contractors of this department.

20. No Engineer of gazetted rank or other gazetted officer employed in Engineering or Administrative duties in an Engineering deptt. of the University is allowed to work as a contractor for a period of one year after his retirement from service, without the previous permission of the University authorities in writing. The contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such person who had not obtained the permission of the University as aforesaid before submission of the tender or engagement in the contractor's service.
21. The tender for the works shall remain open for acceptance for a period of ninety (90) days from the date of opening of tenders. If any tenderer withdraws his tender before the said period or issue of letter of acceptance, whichever is earlier, or makes any modifications in the terms and conditions of the tender which are not acceptable to the deptt, then the University shall, without any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid. Further the tenderer shall not be allowed to participate in the re-tendering process of the work.
22. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer/contractor, on acceptance of his tender by the Accepting authority, shall, within 15 days from the stipulated date of start of the work, sign the contract consisting of :
 - (a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
 - (b) Standard CPWD form 8.
23. For composite tenders
 - (i) The tenderer must associate with himself agencies of the appropriate class eligible to tender for the other components individually.
 - (ii) It will be obligatory on the part of the tenderer to sign the tender document for all the components. (The schedule of quantities, conditions and special conditions etc).
 - (iii) After the work is awarded, the contractor will have to enter into separate agreements for each component with the officer concerned.
 - (iv) Executive Engineer in charge of minor component shall make interim payments in respect of minor component of work. Executive Engineer-In-charge of the major component shall make the payment against final bill of the composite work
 - (v) The Executive Engineer-In-charge of the major component will call tenders for the composite work. The cost of tender document and earnest money will be fixed with respect to the combined estimated cost put to tender for the composite tender. Security deposit will be worked out separately for each component corresponding to the estimated cost of the respective component of works. The earnest money will become part of the security deposit of the major component of work.
 - (vi) On acceptance of composite tender by the competent authority, the letter of award will be issued by the Executive Engineer-In-charge of the major component on behalf of Vice Chancellor, IGNOU, making it clear in the letter of award that the contractor will have to execute separate agreements for different components of work with the concerned officers of the respective discipline.

EXECUTIVE ENGINEER (E)
Engineer-In-charge
For and on behalf of Vice Chancellor, IGNOU

**INDIRA GANDHI NATIONAL OPEN UNIVERSITY
CONSTRUCTION & MAINTENANCE DIVISION
MAIDAN GARHI: NEW DELHI- 110 068**

Item Rate Tender

(A) Tender for the work of “Electrical annual maintenance at IGNOU Campus, New Delhi”. **Sub Head :- I** (Operation & routine maintenance of Electric sub-station equipments i/c D.G Sets installed in ESS-1, 2, 4, 5 & 10 at IGNOU Campus, Maidan Garhi, New Delhi-68). **Sub Head:- II** (Annual comprehensive maintenance of capacitor Panel installed in ESS-1, 2, 5 & 10 at IGNOU Campus Maidan Garhi New Delhi.) **Sub Head:- III** (Maintenance of EI & fans of office buildings & Residential flats at IGNOU Campus i/c street lighting & Compound lighting at IGNOU Campus, Maidan Garhi & AGVC New Delhi. Deployment of skilled and un-skilled manpower) **Sub Head:- IV** (Petty works, like cable fault detection, cable jointing etc.) **Sub Head:- V** (Addition/Alteration of Electrical Installation & Fans.) **Sub Head:- VI** (Procurement of electrical items for day to day maintenance to the office buildings and Residential flats at IGNOU Campus Maidan Garhi, & AGVC New Delhi.)

- (i) To be submitted by 3.00 p.m. on _____
- (ii) To be opened in presence of tenderers who may be present at 3.30 p.m. _____ in the office of the Executive Engineer (E).

Issued to _____

Signature of the officer issuing the documents _____

Date of issue _____

TENDER

I/We have read and examined the Notice Inviting Tender schedule A, B, C, D, E & F. Specifications applicable, drawings and design, General Rules and Directions of contract, clauses of contract, special conditions, Schedule of Rate and other contents in the tender document for the work.

I/We hereby tender for the execution of the work specified for the Vice Chancellor, IGNOU within the time specified in Schedule ‘F’ viz. schedule of quantities and in accordance in all respect with the specifications, designs, drawings and instructions in writing referred to in Rule-1 of General Rules and directions and in clause 11 of the conditions of the contract with such materials as are provided for, by, and in respect in accordance with, such conditions so far as applicable.

I/We agree to keep the tender open for ninety (90) days from the due date of its opening and not to make any modifications in its terms and conditions.

A sum of ₹ 2,44,432/- has been deposited in Pay order/Demand Draft of a scheduled bank as earnest money. If I/We fail to furnish the prescribed Performance guarantee within prescribed period, I/We agree that the said Vice Chancellor, IGNOU or his successors in office shall without prejudice to any other right or remedy, be at liberty to forfeit the said earnest money absolutely. Further, if I/We fail to commence work as specified, I/We agree that Vice Chancellor, IGNOU or his successors in office shall without prejudice to any other right or remedy available in law, be at liberty to forfeit the said earnest money and the performance guarantee absolutely, otherwise the said earnest money shall be retained by him towards security deposit to execute all the works referred to in the tender documents upon the terms and conditions contained or referred to therein and to carry out such deviations as may be ordered, upto maximum of the percentage mentioned in Schedule

'F' and those in excess of that limit at the rates to be determined in accordance with the provision contained in clauses of the tender form. Further, I/We agree that in case of forfeiture of earnest money or both earnest money and Performance guarantee as aforesaid, I/We shall be debarred for participation in the re-tendering process of the work. We hereby declare that I/We shall treat the tender documents drawings and other records connected with the work as secret/confidential documents and shall not communicate information derived there from to any person other than a person to whom I/We am/are authorized to communicate the same or use the information in any manner prejudicial to the satisfy of the state.

Dated:

Signature and address of the contractor

Witness:

Address:

Occupation

ACCEPTANCE

The above tender (as modified by you as provided in the letters mentioned hereunder) is accepted by me for and on behalf of the Vice Chancellor, IGNOU for a sum of ₹_____ (Rupees

The letters referred to below shall form part of this contract Agreement.

(a)

(b)

(c)

For and on behalf of Vice Chancellor, IGNOU

Signature and Designation

SCHEDULE 'F'

Reference to General conditions of the contract.

Name of work: - "Electrical annual maintenance at IGNOU Campus, New Delhi". **Sub Head :- I** (Operation & routine maintenance of Electric sub-station equipments i/c D.G Sets installed in ESS-1, 2, 4, 5 & 10 at IGNOU Campus, Maidan Garhi, New Delhi-68). **Sub Head:- II** (Annual comprehensive maintenance of capacitor Panel installed in ESS-1, 2, 5 & 10 at IGNOU Campus Maidan Garhi New Delhi.) **Sub Head:- III** (Maintenance of EI & fans of office buildings & Residential flats at IGNOU Campus i/c street lighting & Compound lighting at IGNOU Campus, Maidan Garhi & AGVC New Delhi. Deployment of skilled and un-skilled manpower) **Sub Head:- IV** (Petty works, like cable fault detection, cable jointing etc.) **Sub Head:-V** (Addition/Alteration of Electrical Installation & Fans.) **Sub Head:- VI** (Procurement of electrical items for day to day maintenance to the office buildings and Residential flats at IGNOU Campus Maidan Garhi, & AGVC New Delhi.)

Estimated cost of work	₹ 1,22,21,596/-
Earnest Money	₹ 2,44,432/-
Performance Guarantee:	5% of tendered value
Security deposit	5% of tendered value

General Rules & Directions

Officer Inviting tender	Executive Engineer (E), IGNOU
Maximum percentage for quantity of items of work to be Executed beyond which rates are to be determined in Accordance with Clauses 12.2 and 12.3	30%

Definitions

2(i) Engineer Incharge	Executive Engineer (E), IGNOU
2(ii) Accepting Authority	VC (IGNOU)
2(iii) Percentage on cost of material and labour to cover all overheads and profits	15%
2(iv) Standard Schedule of Rates	Market Rates
2(v) Department	CMD (IGNOU)
9(vi) Standard CPWD contract form	CPWD form 8 as Modified upto date

Clause-1

- (i) Time allowed for submission of Performance Guarantee from the date of issue of letter of acceptance 10days
- (ii) Maximum allowable extension beyond the period provided in 1 (i) above 10 days

Clause-2

Authority for fixing compensation under clause-2 VC (IGNOU)

Clause-2 A

Whether clause 2-A shall be applicable. N0

Clause 5

Number of days from the date of issue of letter of commencement For reckoning date of start 10 days

Mile stone (s) as per table given below:

Table of Mile Stone(s)

S.N.	Description of Milestone (Physical)	Time allowed in days (from dt of start)	Amount to be withheld in case of non-achievement of milestone
1.	NA	NA	NA
2.	NA	NA	NA
3.	NA	NA	NA

Time allowed for execution of work One year

Clause 6,6A

Clause applicable (6 or 6-A) 6 A

Clause-7

Gross work to be done together with net payment/adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment NA

Clause-10A

List of testing equipments to be provided by the contractor at site lab

- 1. _____NA_____
- 2. _____NA_____
- 3. _____NA_____
- 4. _____NA_____

Clause-10B

Whether clause 10-B (ii) shall be applicable No

Cause-10 CA

Material covered under this clause		Nearest material for which All India wholesale price index is to be followed
1	NA	NA
2.	NA	NA
3.	NA	NA

Clause-10CC

Clause 10-CC to be applicable in contract with stipulated period of completion exceeding the period shown in next column

NA

Clause-11

Specification to be followed for execution of work

As Per CPWD general specification Electrical works part-I & II 2007 & part-IV (sub-station) amended upto date i/c scope of work & Special conditions of Tender

Clause-12

12.2 & 12.3 – Deviation limit beyond which clauses 12.2 & 12.3 shall apply for building work

30%

12.5 Deviation limit beyond which clauses 12.2 & 12.3 shall apply for foundation work.

N.A

Clause-16

Competent authority for deciding reduce rates

VC (IGNOU)

Clause-18

List of mandatory machinery, tools and plants to be deployed by the contractor at site.

As per site requirement for execution of work.

1. _____ 2. _____ 3. _____
4. _____ 5. _____ 6. _____

Clause 36 (i)

Requirement of Technical Representative(s) and recovery rates

S.N	Minimum Qualification of Technical Representative	Discipline	Description (Principal Technical/ Technical Representative)	Minimum Experience	Number	Rate of recovery shall be made from the contractor in the event of not fulfilling provisions of clause 36(i)	
						Figure	Words
1	Graduate Engineer	Electrical		Nil	1	₹ 10,000/-	Ten Thousand
2	Or Diploma Engineer	-do		5Yrs	-do-	-do-	-do-

Assistant Engineers retired from Govt services that are holding Diploma will be treated at Par with Graduate Engineers.

Clause-42

- (i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of DSR 2007 printed by CPWD.
- (ii) Variations permissible on theoretical quantities.
 - (a) Cement for works with estimated cost put to tender not more than ₹ 5 lakh

for works with estimated cost put to tender more than ₹ 5 Lakh
 - (b) Bitumen all works
 - © Steel reinforcement and structural steel sections for each diameter, section and category
 - (d) All other material

} N.A

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

S.N.	Description of item	Rate in figures and words at which recovery shall be made from the Contractor	
		Excess beyond permissible variation	Less use beyond the permissible variation
1	Cement	-N.A-	-N.A-
2	Steel Reinforcement		
3	Structural sections		
4	Bitumen issued free		
5.	Bitumen issued at stipulated fixed price		

NOTE

In this Agreement wherever the word mentioned under Column 'A' appear the same may be construed to mean the word opposite to it in Column 'B' except for CPWD Contractor Labour Regulation, CPWD Safety Code, CPWD Specification and Delhi Schedule of Rates CPWD.

'A'

'B'

Central PWD, CPWD

Indira Gandhi National Open University

President of India

Vice –Chancellor, IGNOU

Chief Engineer

Chief Project Officer, IGNOU

Superintending Engineer

Chief Project Officer, IGNOU

Divisional Officer)
Engineer In charge)

Executive Engineer (E), CMD, IGNOU

Sub-Divisional Officer

Assistant Executive Engineer (E), CMD, IGNOU

Name of work:- “ Electrical annual maintenance at IGNOU Campus, New Delhi”.

Sub Head:- I(Operation & routine maintenance of Electric sub–station equipments i/c D.G. Sets installed in ESS - 1, 2, 4, 5 & 10 at IGNOU Campus, Maidan Garhi, New Delhi-68).

Sub Head:-II (Annual comprehensive maintenance of capacitor Panels installed in ESS-1, 2, 5 & 10 at IGNOU Campus Maidan Garhi New Delhi-68.)

Sub Head:-III (Maintenance of EI & fans of office buildings & Residential flats at IGNOU Campus i/c street lighting & Compound lighting at IGNOU Campus, Maidan Garhi & AGVC New Delhi. Deployment of skilled and un-skilled manpower)

Sub Head :- IV (Petty works, like cable fault detection, cable jointing etc.)

Sub Head:-V (Addition / Alteration of Electrical Installation & Fans.)

Sub Head:-VI (Procurement of electrical items for day to day maintenance to the office buildings and Residential flats at IGNOU Campus Maidan Garhi, & AGVC New Delhi.)

Special Terms and Conditions of the Contract:-

1. The work shall be carried out as per CPWD General Specifications for Electrical Works, part-I & part-II 2007 and part IV (sub-station) 1982 and amended upto date and shall comply with the Indian Electricity Rules/ Acts, BIS code of practice etc. as applicable in force amended upto date. In the event of any dispute the followings shall order of priority to decide the issue
 - a. Nomenclature of item read with special conditions of the contract and general specifications.
 - b. CPWD specifications.
 - c. ISI specifications
 - d. Instructions of Engineer In Charge.
2. Before quoting, the contractor shall inspect the site of work and shall fully acquaint himself about the conditions with regard to accessibility of site required for the satisfactory execution of work and no claim whatsoever shall be entertained by the department on this account beyond quoted rates.
3. If any damage/ loss made to the equipments, buildings or any other parts or accessories of the system etc. during the execution of the work, the contractor shall be solely responsible and he has to rectify/ replace the damaged/ lost things at his risk & cost failing which department will get it done at his risk & cost. Decision of Engineer-in-charge in this regard is full & final.
4. The rates quoted shall be inclusive of all taxes, duties, Cartage, loading, unloading, insurance etc. Service tax will not be paid, as IGNOU is exempted for the same. ESI & EPF will be reimbursed if contractor claims subject to deposit of paid challan to the department for the subject work along with detail of staff engaged. No advance payment will be made for carrying out the work.
5. The contract can be terminated by the University at any time without assigning any reasons.
6. All safety majors & T&P shall be provided by the contractor to his deployed staff to avoid any untoward mishap/ accident for carrying out the work. If any mishap/ accident occurs then the contractor shall be held responsible for the same. No claim, what so ever will be entertained by the department on this account.
7. The contractor shall fully responsible to comply labour laws for carrying out the subject work.

8. Water & Electricity shall be provided by the department free of cost for carrying out the work for bonafide use, subject to availability. Else otherwise contractor has to arrange the same at his own cost.
9. The contract can be extended with mutual understanding for next period of one year on same rates, terms and conditions w.r.t. satisfactory work performance of the agency.
10. The agency has to submit computerized bill monthly basis for the actual work done. Payment will be released to the contractor after submission of bill along with other related documents.
11. The site of work shall be handed over by the contractor to the department after completion/ termination of contract with in three days with all equipments, machineries in functional and free from defects otherwise, a penalty @ ₹10,000/- per day will be levied if the agency fails on this account. The penalty shall be imposed and deducted from the final bill/ PBG etc.
12. Sub-standard work is not acceptable. Bad workmanship whenever noticed and conveyed to the contractor, verbal or expressed, shall be rectified by the contractor at his own cost and to the satisfaction of the Engineer-in-charge.
13. The contractor shall deployed the skilled/unskilled staff as in the NIT different sub-Head. If any found absent, penalty shall be made from the bill as per the rate given below:
 - i. For skilled @ ₹700/- per shift per person
 - ii. For Unskilled @ ₹500/- per shift per person
14. In case of any dis-obedience by the staff of the contractor with the authorities/ Engineer-in-charge/his authorized representatives or to the users then the contractor shall be fully responsible for such consequence and the staff shall be removed from the site immediately.
15. The firm will be required to submit the photo copy of the cheques /RTGS statement issued to the staff deputed under this contract after making payment of their monthly salary with Bank clearance. Payment to the firm shall be released on monthly basis after rendering successful service by the firm.
16. All staff to be employed by the contractor will be interviewed by the Engineer-in-charge or his representative before their deployment for the above job. Only after assessing the capabilities and positive attitude towards the work, the staff will be allowed to work at the work premises.

(U. P. Sharma)
Executive Engineer (E)

Scope of work

Name of work: - Electrical annual maintenance at IGNOU Campus, New Delhi.

Sub-Head:- I (Operation & routine maintenance of electric sub-station equipments i/c D.G. sets installed in ESS-1, 2, 4, 5 & 10 at IGNOU Campus, Maidan Garhi, New Delhi-68).

1. Deploying qualified staff for operation of LT&HT switch gears with panels, DG sets, AMF panels i/c other allied electrical equipments installed in the sub-station no. 1, 2, 4, 5 & 10 round the clock as per man power given in the tender. The sub-station no.-3 is the HT incomer & out going feeder junction and to be operated as & when required & direction of Engineer-in-charge.
2. Facilitating necessary T&P to carryout the work and providing & fixing petty items like battery water, grease, cotton waste, duster, soap etc. for satisfactory day-to-day routine maintenance of electrical equipments in the sub-stations.
3. In addition to regular general cleaning of sub-station areas, cleaning to the equipments and machineries, has also to carryout two time internal cleaning of HT/LT panels, bus trucking and other allied equipments in the sub-station (one before ensuing of summer and second before ensuing of winter) in a year. If any shut down required for the purpose of cleaning/ maintenance, prior approval/notice of Engineer-in-charge is required.
4. The contractor shall instruct to keep record of all electrical parameters of the equipments (HT, LT & DG sets) in the prescribed log books for all individual sub-stations by his deployed staff. The log books, registers etc. required for the purpose shall be arranged by the contractor only. The recorded parameters shall be shown to the concerned Engineer-in-charge or his representative as & when ask.
5. Periodical checking of functioning of electrical switch gears i/c their end terminations etc. also to be carried out by the contractor and record of the same has to be maintained. If any overheating/ malfunctioning of switch gears and their end terminations identified by the contractor staff then the same shall be immediately reported to the department.
6. Preventive maintenance of electrical protection systems and dehydration of transformers & IVR's i/c servicing of switch gears etc. as in the tender shall be carried out by the agency at site in presence of Engineer-in-charge or his representative once during the contract period with prior approval of Engineer-in-charge. The servicing of ACB's, VCB's, OCB's, switch gears & calibration shall be done from the authorized dealers of the respective make/manufacturers. Record of such preventive maintenances and their parameters shall be maintained and submitted to the department. If any top up of oil in transformer, IVR required during the contract period the same shall be provided & filled by the contractor with in the quoted rates. Also, If any calibration/ testing to the protection devices required more than one time during the contract period as per site requirement, the contractor has to be tested the same without any claim. The T&P required for this purpose to be arranged by the contractor only.

Sub-Head:-II (Annual comprehensive maintenance of capacitor Panel installed in ESS-1, 2, 5, & 10 at IGNOU Campus Maidan Garhi, New Delhi).

The work mainly comprising Annual Maintenance of existing Capacitor Panels of different capacities including their accessories installed in Sub-Station 1, 2, 5 & 10. The contractor shall keep the capacitor panels in functional to maintain minimum power factor 0.96 by providing & replacing any defective component as & when required of the same make & brand installed in the Capacitor Panels during the

P.T.O.

contract period. The department shall only responsible to provide input electric supply to the capacitor panels. Contractor has to check the functioning of the systems in every month as under and submit the job done reports. The breakdowns calls have to be attended by the agency as & when required beyond to the monthly routine services.

Monthly:-

1. Checking the functioning of all capacitor banks of the capacitor panels relays etc. and replacement of items if any done.
2. General cleaning.
3. Record of P.F. maintaining.

Sub-Head:-III (Maintenance of EI & fans of office buildings & Residential flats at IGNOU Campus i/c street lighting & Compound lighting at IGNOU Campus, Maidan Garhi & AGVC New Delhi Deployment of skilled and un-skilled manpower).

The agency has to deploy skilled & unskilled staff as per NIT to carryout the electrical maintenance works to IGNOU residential quarters at MGRC & AGVC, office buildings at IGNOU Campus time to time during the contract period as per direction of Engineer-in-charge. The T&P required for carrying out the maintenance works shall be arranged by the contractor within the quoted rates. The contractor also has to provide complaint registers, Task registers and workers dairy registers etc. as required for the purpose of maintenance with in the quoted rates during the contract period.

Sub-Head:-IV & V (Petty works, like cable fault detection, cable jointing etc. & Addition/Alteration of Electrical Installation & Fans.)

The petty works as in the NIT under this Sub-Heads have to be carried out by the agency as & when required & direction of Engineer-in-charge. The T&P required for the purpose has to arrange by the agency only with in the quoted rates. The agency has to keep record of different maintenances, additional/alteration etc. done time to time during the contract period so that, the same has to submit by the agency while releasing of bill as proof of actual work done.

Sub-Head:-VI (Procurement of electrical items for day to day maintenance to the office buildings and Residential flats at IGNOU Campus Maidan Garhi, & AGVC New Delhi).

The work under the contract is for supplying of electrical items required for day to day maintenance of electrical installations at IGNOU Campus. The agency has to be supplied the items of different make/model & specifications as in the NIT and handover to department in good condition as per requirement of quantity during the contract period The material which are not according to make and specification are not acceptable to department. However, if any make/brand is not available in the market as in the schedule, the supplier can supply the equivalent make/brand after getting consent from Engineer-in-charge, with providing proof on this account. If any supplied item found damaged/defective then the same will not acceptable to department. The agency has to replace the defective items as per warranty given by the manufacturer with the warranty period. The agency shall submit bills/challans to the department towards the purchase of electrical items from the authorized dealers/agencies for respective items before releasing of payment.

(U.P.SHARMA)
Executive Engineer (E)

SCHEDULE OF QUANTITY

Estimated Cost: 1,22,21,596/-

Earnest Money Deposit: 2,44,432/- (Demand Draft/Pay order only in favour of IGNOU)

Time Allowed: One Year

Issued to:-

Date of opening:-

Name of work: - Electrical annual maintenance at IGNOU Campus, New Delhi.

Sub-Head:-I (Operation & routine maintenance of electric sub-station equipments i/c D.G. sets installed in ESS-1, 2, 4, 5 & 10 at IGNOU Campus, Maidan Garhi, New Delhi-68).

S.no	Description	Qty	Unit	Rate	Amount
	(Sub-Station's Operational Staff)				
1.	Operation & routine maintenance round the clock basis of 05 no. sub station equipments viz. Transformers, HT< panels with switch gears, bus trunking, IVR's & their panels, DG sets i/c their AMF panel/ manual panels, emergency LT panels with switch gears & other electrical equipments installed in sub-station No. 1, 2, 4, 5, & 10 at IGNOU Campus by deputing necessary technical qualified staff as per scope of work & terms and conditions. (i) Sub-station cum DG set operator- 15 nos. in a day. (ii) Helper- 5 nos. in a day (In general shift only).	01 job for 12 months	Job/ month		
	(Preventive maintenance of Electrical Protection System)				
2.	Testing, Calibrating, Setting of IDMT relays (Disc operated) installed in HT/LT panel with secondary injection test i/c overhauling, removal of minor defect & co-ordination of relay settings.	35 sets	Set		
3.	Testing, Calibrating of Auxiliary relays/ master trip relays installed in HT panel for transformer protection i/c wiring for transformers.	37 nos.	Each		
4.	Testing, Calibrating of Auxiliary relays/ Reverser power relays installed in LT panel.	14 nos.	Each		
5.	Testing, Calibrating and Setting of micro processed relays installed in LT panels (IR-11) with secondary injection test i/c overhauling, removal of minor defects & co-ordination of relay setting.	10 nos.	Each		

6.	Servicing of 11 KV HT OCB i/c dehydration of oil i/c cleaning, checking & greasing of mechanical system for smooth and trouble free functioning, measuring contact resistance and closing tripping time.	14 nos.	Each		
7.	Servicing of LT ACB i/c cleaning, checking & greasing of mechanical system for smooth and trouble free functioning, measuring contact resistance and closing tripping time.(ACB, EDO 800 amp to 2500 amp)	47 nos.	Each		
8.	Servicing of 11 KV HT VCB i/c cleaning, checking & greasing of mechanical system for smooth and trouble free functioning, measuring contact resistance and closing tripping time.(HT VCB 630 amp to 800 amp)	09 nos.	Each		
9.	Testing, Calibrating of CT's in the HT & LT panels along with tripping circuits by primary injection method.	13 panel	Panel		
10.	Checking/ Testing of earth resistance of earth strips/ electrodes of sub-stations No. 1, 2, 3, 4, 5 & 10 by digital earth resistance meter. (Earth resistance to be checked for all earth electrodes/ available earth strips in all six number sub-station). (01 job for each s/s)	06 job	Job		
11.	Dehydration/ filtration of transformers & IVR's oil by using filter machine at site & checking of oil breakdown value at site. i) Transformer 11 KV/0.433 KVA-1500 KVA-in ESS-2 -03 nos. ii) Transformer 11 KV/0.433 KVA-1250 KVA-in ESS-4 -02 nos. iii) IVR-750 KVA-02 nos.-in ESS-4 iv) Transformer 11 KV/0.433 KVA with on load gear-1000 KVA-in ESS-1 -02 nos. v) Transformer 11KV/0.933 KVA-1x1000KVA & 1x750KVA in ESS-5	9760 Litres	P/litre		
12.	Supplying & Fixing "LED" indicating lamp in the existing panels in the sub-station at IGNOU Campus. Make- GE/ABB/L&T	150 nos.	Each		

Sub-Head:-II (Annual comprehensive maintenance of capacitor Panel installed in ESS-1, 2, 5, & 10 at IGNOU Campus Maidan Garhi, New Delhi).

S.no	Description	Qty	Unit	Rate	Amount
13.	Annual Comprehensive maintenance of following make & capacity of APFC Panels installed in ESS 1,2, 5 & 10 at IGNOU Campus.				
	(A) At ESS-01				
	(i) Capacitor Panel (APFC),1x300 KVAR-Ist Panel, Tricolite make, 06 No. banks with each bank 50 KVAR complete with relays, switch gears, controls, auto/manual mode operation i/c digital metering & indicators.	300KVAR for 12 Months	Per KVAR/ Month		
	(ii) Capacitor Panel (APFC),1x400 KVAR-IInd Panel Tricolite make, 7 No. banks with each bank 50 KVAR and 2 No. banks with each bank 25 KVAR complete with relays, switch gears, controls, Auto/manual made Operation i/c digital metering & indicators.	400KVAR for 12 Months	Per KVAR/ Month		
	(B) At ESS-02				
	Capacitor Panel (APFC), 3x200KVAR Panels Neptune Ducati make, 8 No. banks with each bank 25 KVAR in each panel complete with relays, switch gears, control, Auto/manual made Operation i/c digital metering & indicators.	600KVAR for 12 Months	Per KVAR/ Month		
	(C) At ESS-05				
	Capacitor Panel (APFC) 1x165.0 KVAR and 1x190.0 KVAR with 25.0 KVAR-13 banks and 15KVAR-02 banks, of Standard Capacitors make including relays controls etc.	355KAVR for 12 Months	Per KVAR/ Month		
	(D) At ESS-10				
	Capacitor Panel (APFC) 1x250 KVAR for block no. 15. -Scheinder make.	250KAVR for 12 Months	Per KVAR/ Month		

Sub-Head:-III (Mainatance of EI & fans of office buildings & Residential flats at IGNOU Campus i/c street lighting & Compound lighting at IGNOU Campus, Maidan Garhi & AGVC New Delhi. Deployment of skilled and un-skilled manpower).

14.	(Man Power for maintenance of E.I. & fans)	Qty	Unit	Rate	Amount
	Providing Services for maintenance of electrical installations in the office buildings & residential flats i/c street lighting and compound lighting as per scope of work, terms & conditions attached by deploying				

	the following staff.				
	a. Supervisor	01 no.for 12 months	Each P/ Month		
	b. Electrician/Wireman Grade-I	09 no.for 12 months	Each P/ Month		
	c. Helper	04 no.for 12 months	Each P/ Month		
	d. Enquiry Clerk	03 no.for 12 months	Each P/ Month		

Sub-Head:-1V (Petty works like cable fault detection & cable jointing etc.).

S.no	Description	Qty	Unit	Rate	Amount
15.	Hiring of fault detecting machine for detecting the exact laocation of fault in the laid under ground H.T./L.T cables.	15 job	Per Job		
16.	Hiring of JCB machine for breaking C.C mortar, excavation of Hard roke etc. for repairing of H.T./L.T under ground cables.	05 day	Per day		
17.	Excavating and refilling the under ground faulty cable for making joint.	15 job	Per Job		
18.	Supplying and making straight through joint with heat skrinkable kit including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed/XLPE aluminium conductor cable of 1.1KV grade as required.				
	a. 2x10sqmm/2x16sqmm	06 nos.	Each		
	b. 3 ½ x25sqm/3 ½ x35sqmm	02 nos.	Each		
	c. 3 ½ x70sqmm	03 nos.	Each		
	d. 3 ½ x95sqmm	01 no.	Each		
	e. 3 ½ x120sqmm/3 ½ x150sqmm	08 nos.	Each		

	f. 3x240sqmm	01 no.	Each		
	g. 3 ½ x240sqmm	02 nos.	Each		
	h. 3 ½ x300sqmm	02 nos.	Each		
	i. 3 ½ x400sqmm	01 no.	Each		
19.	Supplying and making straight through cable jointing with heat shrinkable jointing kit complete with all accessories including ferrules suitable for following size of 3 core, XLPE aluminium conductor cable of 11KV grade as required. 240sqmm/300sqmm	04 nos.	Each		
20.	Providing 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.				
	a. 100amp,25KA,TPMCCB	02 nos.	Each		
	b. 125amp,25KA,TPMCCB	02 nos.	Each		
	c. 160amp,35KA,TPMCCB	02 nos.	Each		
	d. 200amp,50KA,TPMCCB	02 nos.	Each		
	e. 250amp,50KA,TPMCCB	02 nos.	Each		
	f. 315amp,50KA,TPMCCB	02 nos.	Each		

Sub-Head:-V (Addition/Alteration of Electrical Installation & Fans).

S.no	Description	Qty	Unit	Rate	Amount
21.	Wiring for light point/fan point/exhaust fan point/call bell point with 1.5sqmm FRLS PVC insulated copper conductor single core cable in surface/recessed steel conduit, with modular switch, modular plate, suitable GI Box and earthing the point with 1.5sqmm FRLS PVC insulated copper conductor single core cable etc. as required.				

	a. Group A	05 Point	Point		
	b. Group B	15 Point	Point		
	c. Group C	55 Point	Point		
22.	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/recessed steel conduit as required.				
	a. 2x1.5 sqmm + 1 x 1.5 sqmm earth wire	300 mtr.	Per/Mtr.		
	b. 2x4sqmm+1x4 sqmm earth wire	500 mtr.	Per/Mtr.		
	c. 2x6 sqmm + 1x6 sqmm earth wire	350 mtr.	Per/Mtr.		
	d. 2x10 sqmm + 1x10 sqmm earth wire	150 mtr.	Per/Mtr.		
	e. 2x16 sqmm + 1x16 sqmm earth wire	250 mtr.	Per/Mtr.		
	f. 4x4sqmm +2x4sqmm earth wire	300 mtr.	Per/Mtr.		
23.	Rewiring for light point/fan point/exhaust fan point/call bell point with 1.5 sqmm FRLS PVC insulated copper conductor single core cable and 1.5sqmm FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/recessed steel conduit including dismantling as required.				
	a. Group A	05 Point	Point		
	b. Group B	15 Point	Point		
	c. Group C	55 Point	Point		
24.	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/recessed steel/PVC conduit as required.				
	a. 3x1.5sqmm	300 mtr.	Per/mtr		
	b. 6x1.5sqmm	200 mtr.	Per/mtr		

	c. 3x4 sqmm	350 mtr.	Per/mtr		
	d. 6x4sqmm	230 mtr.	Per/mtr		
	e. 3x6sqmm	300 mtr.	Per/mtr		
25.	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.				
	a. 20mm	230 mtr.	Per/mtr		
	b. 25mm	530 mtr.	Per/mtr		
	c. 32mm	100 mtr.	Per/mtr		
26.	Supplying and fixing following modular switch/socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
	a. 5/6 amps switch	325 nos.	Each		
	b. 15/16 amps switch	315 nos.	Each		
	c. 3 pin 5/6 amps socket outlet	210 nos.	Each		
	d. 6 pin15/16amps socket outlet	315 nos.	Each		
27.	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	215 nos.	Each		
28.	Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	125 nos.	Nos.		
29.	Supplying and fixing following size modules, GI box along with modular base & coverplate for modular switches in recess etc. as required.				
	a. 3 module (100mmx75mm)	37 nos.	Nos.		
	b. 6 module (200mmx75mm)	12 nos.	Nos.		

	c. 12 module (200mmx150mm)	12 nos.	Nos.		
30.	Rewinding & varnishing of following fan motors				
	a. Ceiling fan 1200 mm/1400mm sweep	200 nos.	Nos.		
	b. Exhaust fan 450mm sweep 900/1400 rpm	60 nos.	Nos.		
	c. Exhaust fan 300mm sweep 900/1400 rpm	75 nos.	Nos.		
	d. Exhaust fan 600mm sweep 700/900 rpm	02 nos.	Nos.		
31.	Replacement of ball bearing in Ceiling fans/Exhaust fans.				
	a. 6201	300 nos.	Nos.		
	b. 6202	300 nos.	Nos.		
	c. 6203	120 nos.	Nos.		

Sub-Head:-VI (Procurement of electrical items for day to day maintenance to the office buildings and Residential flats at IGNOU Campus Maidan Garhi, & AGVC New Delhi.)

S.N.	Description	Qty.	Unit	Rate	Amount
	Supplying of following electrical items at IGNOU Campus as described below:-				
32.	Fluorescent tube Rod TLD 36 watt, 4ft length (make-Philips).	3000 nos.	Each		
33.	Choke copper ballast for 36/40watt TL lamp of model K05 (Make-Philips)	600 nos.	Each		
34.	Starter for 36/40watt TL lamp of model-S10 (Make-Philips)	3000 nos.	Each		
35.	Choke copper ballast for SON-T 70 watt of model BSN 070 M 261 (Make-Philips)	185 nos.	Each		
36.	Choke copper ballast for HPL 125 watt of model PHL 125 A 261 (Make-Philips)	15 nos.	Each		

37.	Choke copper ballast for SON 150 watt of model BSN 150 M 361 (Make-Philips)	20 nos.	Each		
38.	Lamp SON-T 70watt (Make-Philips)	260 nos.	Each		
39.	Lamp 125 watt HPL (pin type/screw ended) (Make-Philips)	20 nos.	Each		
40.	Lamp SON-T 150 watt(Make-Philips)	20 nos.	Each		
41.	Post lantern dome of diamond shape cover for model. HPC 101 1xHPL-N 125 watt E (Make-Philips)	35 nos.	Each		
42.	Post lantern dome of Oval shape cover for model. SPC 102, 1xSON70 watt model (Make-Philips)	15 nos.	Each		
43.	Igniter for 70 watt SON, Model, SN57/01, Philips-Make.	220 nos.	Each		
44.	Lamp PL-S, 11Watt 2P (colour cool daylight). (Make-Philips)	150 nos.	Each		
45.	Lamp PL-S, (DD) 18Watt (colour cool daylight). (Make-Philips)	130 nos.	Each		
46.	Lamp CFL pin type 15Watt (colour cool daylight). (Make-Philips)	30 nos.	Each		
47.	Halogen lamp 12V/50watt Model GU 5.3, Philips essential Make	10 nos.	Each		
48.	QR-111 Halogen lamp (Make-Philips/osram)	20 nos.	Each		
49.	Choke Electronic for 12v/50watt lamp (Make-Philips / Wipro)	05 nos.	Each		
50.	6 amp switch one way (Make-M,K India) ISI marked	20 nos.	Each		
51.	6 amp switch two way (Make-M,K India) ISI marked	20 nos.	Each		
52.	16 amp switch one way (Make-M,K India) ISI marked	20 nos.	Each		

53.	16 amp switch two way (Make-M,K India) ISI marked	15 nos.	Each		
54.	6 amp 5pin socket outlet (Make-M,K India) ISI marked	20 nos.	Each		
55.	16amp 6 pin socket outlet (Make-M,K India) ISI marked	20 nos.	Each		
56.	20amp DP switch (Make-M,K India) ISI marked	20 nos.	Each		
57.	6amp Piano type switch model 1411 Make Anchor, ISI marked	1000 nos.	Each		
58.	16amp Piano type switch old model, (Square type) Make Anchor, ISI marked	130 nos.	Each		
59.	6 pin 15/16amp socket outlet old model, (Square type) Make Anchor, ISI marked	130 nos.	Each		
60.	16amp Piano type switch new model, (Rectangular type) Make Anchor, ISI marked	420 nos.	Each		
61.	6 pin 15/16amp socket outlet new model, (Rectangular type) Make Anchor, ISI marked	420 nos.	Each		
62.	5 pin 5/6amp socket outlet model 14304, Make Anchor, ISI marked	200 nos.	Each		
63.	Stepped type ceiling fan regulator 100 watt model 14502 white Make-Anchor	800 nos.	Each		
64.	Set of Bearing (6201&6202 each in one set) for ceiling fan (Make-SKF open type)	100 nos.	set		
65.	Fan Regulator M.K. India Model	20 nos.	Each		
66.	Ceiling fan blade set (3 nos.) suitable for 1200mm as per site requ. (colour as per decision of E-IN-C)	05 nos.	Each		
67.	PVC insulated tape roll of 9mt length of steel grip make, of colour red, blue, yellow black.	1800 nos.	Each		
68.	PVC insulated FRLS single core copper conductor 1100V confirmed to IS 694 (MakePolycab/Plaza/R.R.Keibel) (Each coil 180m length)				
	(a) 1.5 Sqmm size	08 Roll	Roll		

	(b) 2.5 Sqmm size	02 Roll	Roll		
	(c) 4 Sqmm size	09 Roll	Roll		
	(d) 6 Sqmm size	09 Roll	Roll		
	(e) 16 Sqmm size	05 Roll	Roll		
69.	PVC insulated 3 core copper conductor cable 1.5sqmm (ISI marked) (Make-Havell's/Finolex) (Each coil 90m length)	04 Roll	Roll		
70.	PVC insulated 3 core copper conductor cable 2.5sqmm (ISI Marked) (Make Havell's/Finolex) (Each coil 90m length)	04 Roll	Roll		
71.	Ferrule aluminum Councor ring type (Make-Action)				
	(a) 300 Sqmm	23 nos.	Each		
	(b) 240 Sqmm	23 nos.	Each		
	(c) 120 Sqmm	53 nos.	Each		
	(d) 95 Sqmm	53 nos.	Each		
	(e) 70 Sqmm	53 nos.	Each		
	(f) 50 Sqmm	53 nos.	Each		
	(g) 35 Sqmm	53 nos.	Each		
	(h) 25 Sqmm	74 nos.	Each		
	(i) 16/10 sqmm	36 nos.	Each		
72.	Copper thimble bottle/pin type (Make-Action)				
	(a) 16 Sqmm	108 nos.	Each		
	(b) 10 Sqmm	108 nos.	Each		

	(c) 6 Sqmm	258 nos.	Each		
	(d) 4 Sqmm	358 nos.	Each		
	(e) 1.5/2.5 Sqmm	392 nos.	Each		
73.	MCB SP6A 'C' series (Make-Hager)	510 nos.	Each		
74.	MCB SP20A 'C' series (Make-Hager)	110 nos.	Each		
75.	MCB SP25A/32 'C' series (Make-Hager)	530 nos.	Each		
76.	MCB DP40A 'C' series (Make-Hager)	60 nos.	Each		
77.	MCB DP63A 'C' series (Make-Hager)	140 nos.	Each		
78.	TP MCB 63A 'C' series (Make-Hager)	20 nos.	Each		
79.	TPN MCB 63A 'C' series (Make-Hager)	35 nos.	Each		
80.	TPN MCB 100A 'C' series (Make-Hager)	35 nos.	Each		
81.	TPN MCB 32A 'C' series (Make Hager)	12 nos.	Each		
82.	Lamp 14 watt T-5 Philips	60 nos.	Each		
83.	Holder for halogen lamp 12v/50w	24 nos.	Each		
84.	Choke electronic ballast of model WBF 60414 suitable for 4x14watt fittings (Make-Wipro).	55 nos.	Each		
85.	Lamp for T-5, 28W fittings (Philips-Make)	15 nos.	Each		
86.	Choke copper ballast for HPMV 250watt (Make-Philips)	05 nos.	Each		
87.	Lamp HP MV 250 watt (Make-Philips)	05 nos.	Each		
88.	2.5 MFD capacitor for fans (Make-EPCOS/Asian)	200 nos.	Each		
89.	10 MFD capacitor for fans (Make-EPCOS/Asian)	10 nos.	Each		

90.	Three Phase Air-break contactor ML-4 with coil voltage 240 v,(Make-L&T)	02 nos.	Each		
91.	Choke for 11watt PL-S Lamp, 2P, of model C 8993x114 (Make-Philips)	30 nos.	Each		
92.	Choke copper ballast for PL-C 18watt DD lamp of model BPL018x261 (Philips-Make)	72 nos.	Each		
93.	Fluorescent lamp of 18 watt of 2ft length (Make - Philips)	45 nos.	Each		
94.	Choke electronic ballast for 18watt florescent lamp (Make-Philips)	10 nos.	Each		
95.	16A, 6pin socket outlet with switch & indicator lamp (Make-Anchor)	310 nos.	Each		
96.	8 way 15/16 A connector, Bakelite	25 nos.	Each		
97.	Surface Pilot Buzzer of model No. 8374 (Anchor Make)	100 nos.	Each		
98.	Bell push switch piano type of model no. 14123 (Make Anchor)	140 nos.	Each		
99.	Lamp 50watt, SON.T, Surya	20 nso.	Each		
100.	Choke SON 50watt, (Surya make)	15 nos.	Each		
101.	RCCB 40amp, 300 MA (DP) (Hager/Legrand)	40 nos.	Each		
102.	RCCB 63amp, 300MA (DP) (Hager/legrand)	60 nos.	Each		
103.	RCCB 40amp, 300MA (4 pole) (Hager/legrand)	11 nos.	Each		
104.	Lamp MHL, 150watt double ended	20 nos.	Each		
105.	MCB DP, 100amp (Hager/legrand)HLF 290S Model	45 nos.	Each		
106.	Lamp 70watt (MHE) Philips	20 nos.	Each		

107.	Geysers Element with pipe 2KW, Theeta ISI make	100 nos.	Each		
108.	Geysers Thermostat (ELCON)	40 nos.	Each		
109.	Geysers Thermelet cutout (ELCON)	40 nos.	Each		
110.	Geysers Tank 25ltr. With Apparatus Assembly.	15 set	Set		
111.	Metal clad socket (3pin) Havells 20amp.	125 nos.	Each		
112.	Metal clad Top (3pin) Havells 20amp.	175 nos.	Each		
113.	a. Phenolic laminated sheet (9x11)	10 nos.	Each		
	b. Phenolic laminated sheet (8x5)	15 nos.	Each		
114.	Lamp SON 400w single ended	20 nos.	Each		
115.	HRC Fuse 250 amps	15 nos.	Each		
116.	HRC Fuse 315 amps	15 nos.	Each		
117.	HRC Fuse 400 amps	12 nos.	Each		
118.	Electronic ballast 2x36 watt EBP 236 PLL, 240 volts Philips/Wipro make	150 nos.	Each		
119.	PL 36 watt	200 nos.	Each		
120.	Metal clad box 20 amp complete with plug top	20 nos.	Each		
121.	24 Hrs. Dial timer (GE make)	04 pcs.	Each		

(U.P.SHARMA)
Executive Engineer (E)