

**TENDER DOCUMENTS**  
**FOR**

**Providing and making Wooden Partition, false ceiling ,civil and plumbing work for BSc. MSc. Integrated program at 3<sup>rd</sup> floor, School of Life Sciences.**

**JAMIA HAMDARD**  
**HAMDARD NAGAR, NEW DELHI-62**

**JAMIA HAMDARD**  
**(DEEMED TO BE UNIVERSITY)**  
**HAMDARD NAGAR, NEW DELHI-110062**

**TENDER NOTICE**

Ref. No.JH/Maint. Civil/10/18

Date:04-10-2018

Jamia Hamdard, New Delhi invites sealed items rate Tenders from reputed contractors registered with Govt. Department such as CPWD, DDA or other Govt. organizations or Jamia Hamdard listed as appropriate class of contractors for the below work. The tender documents and other details are available on the **website: [www.jamiahamdard.edu](http://www.jamiahamdard.edu)**. Last date of submission of the Tender is 19-10-2018 **up to 3.00 PM**. The Parties/agencies may submit the tender after satisfying themselves eligible for the work as per Terms & Conditions of tender.

**Name of work (Civil) :** Providing and making wooden partition, false ceiling, civil and plumbing work for Bsc. Msc. Integrated program at 3<sup>rd</sup> floor School of life Science.

**Estimated Cost:** Rs. 23.50 Lakhs

**Earnest Money:** Rs.47,000.00

**Tender cost :** Rs. 2500.00 only (Non Refundable)

**Time Period:** 60 days

The Tender dully filled should be dropped in the Tender Box kept in purchase section on or before 19-10-2018 **upto 3.00 PM** along with demand draft of earnest money & Tender fee in sealed envelope clearly specifying the name of work. The D.Ds shall be in favor of Jamia Hamdard payable New Delhi. The tender shall be opened on 19-10-2018 **at 3.30 PM** in presence of available interested parties. Jamia Hamdard reserves the right to reject any or all tenders or split the tenders without assigning any reason.

**Registrar**

## ELIGIBILITY CRITERIA

1. Bidders must be registered/ empanelled with Jamia Hamdard, CPWD, DDA or other Govt. organizations as appropriate class of contractors. Bidders have to submit the up-to date certified copy of the Registration Certificate along with his Tender. The original will have to be produced when demanded for verification.
2. Copies of work orders for similar nature of work of at least one contract of value Rs. 18.79 lakh, or two contracts of similar nature of work of Rs. 14.09 lakh or three contracts of similar natures of works of Rs. 9.39 lakh in last 3 years. Contractors should have executed similar nature of work in prestigious institutional buildings, Universities, hospitals. and produce credentials in support thereof, Certificates of satisfactory completion of works must also be provided.
3. Experience of having successfully completed similar works during last 03 financial years.
4. Average annual financial turn over on said work should be 11.74 lakhs during the immediate last 3 consecutive financial year.
5. The contractor should have IT & excise return acknowledgement for last three years.
6. Complete list of machinery and equipments and details of Technical Manpower along with supporting staff and in house Design capability duly signed and sealed on company's letter head.
7. Copies of completion and Performance Certificates (duly attested) for similar scope of works issued by the officer of the client/Deptt of the rank of Executive Engineer/ equilent or the Head of the Institution will have to be furnished along with the application. The completion certificate must clearly indicate the following.
  - The date of completion of work with cost of completed work with letters of successful completion. Nature and scope of work, Time period of completion (attache client's list).
  - Similar work means providing and making wooden partition, false ceiling, civil and plumbing work for Bsc. Msc. Integrated program at 3<sup>rd</sup> floor School of life Science.
  - The firms are advised to enclose attested copies of all relevant documents along with valid PAN, GSTN Company turn over, ISO etc. registration and other related documents along with the tender.
  - The firm should have valid PF, ESI, GSTN, WCT if applicable, and Registration in Delhi at the time of prequalification.

Jamia Hamdard reserves the rights to increase or decrease the quantum of work during the execution of work and to accept/reject full/part proposals without assigning any reason thereof.

## GENERAL TERMS AND CONDITIONS

**Name of Work: - Providing and making wooden partition, false ceiling, civil and plumbing work for Bsc. Msc. Integrated program at 3<sup>rd</sup> floor School of life Science.**

1. The work shall be carried out following standard and accepted norms of civil engineering practice.
2. The CPWD General Terms and conditions and CPWD specifications with latest amendments & CPWD Manual provisions shall be applicable in execution of the project and shall form part of the contract.
3. The EMD shall be only in the form of Demand Draft drawn in favor of Jamia Hamdard, payable at New Delhi, failing which the Tender will summarily be rejected.
4. The rates shall be inclusive of all duties and cartage etc. No escalation of taxes shall be payable by the Jamia Hamdard during the contract period. GST will be considered as per Govt. norms if applicable.
5. Duly sealed tenders shall be dropped in the tender box placed at the Purchase section.
6. The conditional bids shall not be considered under any circumstances and rejected without any notice or assigning any reasons therefore.
7. All bids once submitted shall be the property of Jamia Hamdard, and bidders will lay no claim whatsoever on the same.
8. Sr. Consultant Jamia Hamdard, reserves the right to reject any or all the tenders in full or in part without assigning any reasons whatsoever, and the decision of the Sr. Consultant in this regard will be binding on all the bidders. Tenderers not complying with any of the provisions stated in this tender document are liable to be rejected.
9. No T & P shall be supplied by the Jamia Hamdard.
10. Income tax shall be deducted from the contractor bill as per Govt. of India rules.
11. Jamia Hamdard welfare fund charges are livable @0.25% of the amount of bill claimed.
12. (i) Security shall be deducted @ 5 % of value of work done and total amount of security shall be released after expiry of the defect liability period of SIX MONTH effective from date of completion.
13. Earnest money deposited by the successful tender shall be converted in to security deposit & is adjustable against the actual amount to be deducted under clause 12 above.
14. The time allowed for completion of work shall be **(60 days)** which shall be reckoned from 02 (Two) day from the date of letter of intent.
15. Time allowed for the work shall be strictly followed otherwise the contractor shall be liable to pay compensation at the rate of **1.0%** of the tendered value of the work per week of delay on the part of the contractor. The decision of Engineer-in-charge about the delay

shall be final and binding. However, for any reason beyond the control of the contractor the extension of time shall be granted upon application submitted by the contractor. No claim for any compensation during the extended period shall be entertained and the Sr. Consultant Jamia Hamdard decision in this regard shall be final.

16. No escalation in any form either of material or labour shall be payable by the University. The bidder shall also absorb any statutory escalation/increase of wages /material cost if any, anticipated during the contract tenure, including extended tenure.
17. All material brought at site shall be as per contract specification & schedule of quantities and shall be got entered in the site book and approved by Engineer-In-charge before being used.
18. Mandatory tests have to be carried out as asked for by the Sr. Consultant/Engineer-In-Charge. Nothing extra shall be paid for such purpose.
19. In case the successful bidder resiles from the offer within one month of the work order, the Security deposit will be forfeited. Similarly if successful bidder fails to commence the work after issue of award letter, the amount of earnest money will also be forfeited.
20. Any violation of instruction/agreement or suppression of facts will attract cancellation of contract without any reference or any notice period and in such case the amount of the contractor security deposit will be forfeited.
21. If agency at any time makes default during currency of work or does not execute any part of the work with due diligence or Commits default in complying with any of the terms and conditions of the contract and does not initiate any remedy for it or takes effective steps for its remedy or Fails to complete the work(s) or items of work within date of completion, on or before the date(s) so determined, and does not complete them within the period specified in the notice given in writing in their behalf by the Engineer-in-Charge. The Engineer- in-Charge without prejudice to any other right or remedy against the contractor which have either accrued or accrue thereafter to the Government, by a notice in writing to take the part work / part incomplete work of any item(s) out of his hands and shall have powers to take possession of the site and any materials, constructional plant, implements, stores, etc., thereon; and/or Carry out the part work / part incomplete work of any item(s) by any means at the risk and cost of the contractor.
22. Sr. Consultant, Jamia Hamdard reserves the right to terminate the contract without any reference or any notice period on account of poor workmanship, non-compliance of set norms/specifications for the works, delay in progress of work, violation of any contract provisions by the contractor, failure to start the work at Jamia Hamdard, within 10 days from date of issue of Work order. In such cases the contractor is liable to pay Liquidated Damages @ 5% of tendered value besides security deposit.
23. Decision of Sr. Consultant Jamia Hamdard in regard to interpretation of the terms and conditions and the Agreement shall be final and binding on the Contractor.
24. The Contractor shall be solely responsible for any accident/medical/health related liability/compensation for the personnel deployed by it at Jamia Hamdard . The Jamia Hamdard shall have no liability in this regard.

25. The personnel provided by the Contractor will not claim to become the employees of Jamia Hamdard and there will be no Employee and Employer relationship between the personnel engaged by the Agency and Jamia Hamdard.
26. No tent or hut shall be allowed to be put up for workers to stay within the campus. The contractor is deemed to have inspected the site and thoroughly acquainted himself with the site conditions, availability of storage space for materials etc.
27. The Contractor should take extra precaution to ensure that there is absolutely no damage to the surrounding structure/existing system etc. If any damage made by agency, it will be got repaired/replaced/rectified by the agency itself at no extra cost.
28. The Contractor should make special note of the fact that the Renovation/remodeling/repair works are to be carried out in the existing functional building and the agency will adopt necessary barricading / covering of the area under execution with no / least disturbance to adjoining / surrounding areas of the building under use for teaching / research, etc. The Contractor shall depute their own security staff for watch and ward of their materials supplied/ installed at site till the final handing over of the complete work and temporary lockable shed/Almirah etc. shall be arranged by contractor at his own risk and cost. No accommodation/ staff/ lockable space will be provided by Jamia Hamdard under any circumstances.
29. It may here be noted, that the entire staff and labour of the Contractor will follow all the security instructions issued by Jamia Hamdard from time to time and these instructions may include the provisions to make suitable barricades or temporary wall fence to ensure that the labour confines itself to the area of the work only. Serious action will be taken in case any of the contractor's workmen are found to be tampering with the Laboratory equipment and property of the University. Suitable damages will be recovered from the contractor's bills if anyone is found to do so. All decisions of the Engineer-in Charge in respect of the same will be final and binding on the contractor.
30. On completion of all work, Contractor shall remove all surplus materials & leave the site in a broom clean condition, failing which the same shall be done at Agency's risk & cost.
31. The Contractor shall ensure compliance of all statutory laws & bye laws of the central govt./state govt./Municipal authorities related to the employment of their staff and all obligations under Minimum Wage Act, Workman Compensation Act, Provident Fund & Miscellaneous Provision Act, Bonus Act & Contract Labour Act 1970 etc. Jamia Hamdard will not be responsible for such purposes in anyway.
32. Any claim, dispute or difference arising out of or in connection with this agreement and which cannot be settled by mutual consultations, shall be referred to sole Arbitration to be appointed by the Vice Chancellor Jamia Hamdard. The award of the Arbitrator shall be final and binding between the parties as per the Arbitration Act. The Arbitrator proceeding shall be governed by the Arbitration and Conciliation Act and shall be conducted in Delhi.
33. Shop Drawing:- (i) The shop drawing for all works as required by Engineer-in-charge shall be submitted in quadruplicate at no extra cost by the contractor and in the manner so required by them. The contractor shall proceed with the works only after approval by the Engineer-in-charge. Such drawings shall be coordinated with all disciplines of work

## **GENERAL CONDITIONS FOR SUBMISSION OF TENDER**

### **1.0 Submission of Tender:**

Tenders should be submitted in sealed envelopes. The tender duly filled in sealed condition should be hand delivered in the tender box kept in the Purchase section, Jamia Hamdard. It should not be handed over to any employee of the Jamia Hamdard. No tender shall be accepted later than the time schedule specified. Tender once submitted will remain with the Jamia Hamdard and will not be returned to the bidder.

### **2 Validity of Tender:**

Tender shall be valid for our acceptance without any change in rates and NIT conditions for a period of 30 days from the date of opening of Technical Bid.

### **Declaration by the Tender**

This is to certify that I/We before signing this tender have read and fully understood all the terms and conditions contained herein and undertake myself/ourselves to abide by them.

SIGNATURE OF TENDERER WITH SEAL DATE:

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## **SPECIAL CONDITIONS OF CONTRACT**

### **1. OWNER :**

The name and address of the Owner / Engineer-in-Charge responsible for the preparation of the Contract documents are as follows:-

**OWNER:**JAMIA HAMDARD , NEW DELHI

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### **2. SITE**

**2.1 Providing and making wooden partition, false ceiling, civil and plumbing work for Bsc. Msc. Integrated program at 3<sup>rd</sup>floor School of life Science.**

#### **2.2 CONTRACTOR TO SATISFY HIMSELF ABOUT SITE CONDITIONS**

Before tendering, the Contractor shall visit and examine the site and satisfy himself as to the site conditions the correct dimensions of the work and facilities for obtaining the special articles called for in the contract documents and shall obtain generally his own information on all matters affecting the continuation and progress of the works. No extra charge made in consequence of any misunderstanding or incorrect information on any of these points or on the grounds of insufficient description will be allowed.

#### **2.3 POSSESSION**

The Contractor shall there upon commence the works and regularly and diligently proceed with the same and complete the same in stages on or before the contract date for completion.

### **SCOPE OF WORK**

#### **3.1 SCOPE**

The general character and the scope of work is illustrated and defined by the Schedule of Quantities and Specifications herewith attached.

#### **3.2 EXTENT**

\_\_\_\_\_ The Contractor shall carry out and complete the said work in every respect in accordance with the contract, and with the directions of and to the satisfaction of the Engineer-in-charge and Sr. Consultant , JAMIA HAMDARD .



#### **4.0 CONTRACT DRAWINGS**

Drawings forming part of the contract are listed under. Other drawings and details issued and shop drawings approved during the currency of the contract shall also form part of the contract. The Contractor shall keep at least one copy each of drawings, conditions of contract, specifications, instructions and schedule of quantities at the site of works available for reference by any authorized representative Sr. Consultant, **JAMIA HAMDARD /ARCHITECTS**, at all times during the progress of the works.

#### **5.0 TYPE OF CONTRACT**

The Contract shall be an item rate contract. The Contractor shall be paid at the contract rates, for the actual quantity of work carried out by him in accordance with the Contract documents as measured.

#### **5.1 SCHEDULE OF QUANTITIES**

The quantities given in the Schedule of Quantities are provisional and are meant to indicate the intent of the work and provide a uniform basis for tendering. The Contractor shall be paid for the actual quantity of work executed by him in accordance with Contract Documents at the contract rates.

#### **6.0 WATER AND ELECTRICITY FOR CONSTRUCTION**

Water for use at site of work shall be arranged by the contractor. The contractor shall make his own arrangement for any temporary service piping taps as required for his use on the works and shall remove the same on completion. Electricity required for the job shall be made available and shall be charged the contractor may arrange for the same at their own cost. However, necessary piping, valve, wiring, cabling, lamps, switches & sockets, main switches, halogen/tube light fitting and tapping from existing line/connection including labour have to be arranged by the contractor at their own risk & cost.

#### **7.0 PAYMENT OF CONTRACTORS BILL**

Subject to the provisions of terms and conditions of the contract, Sr. Consultant, JAMIA HAMDARD , shall affect Contract payments against RA Bills shall be released to the contractor as below:

RA Bills: 75% of the recommended payments duly certified by the Engineer-in-Charge within fifteen (15) working days of the submission of the bill and balance within one month of submission of the bills.

Final Bill: Within one (1) months of submission of the Bill with the final completion Certificate and as per the terms and conditions of the Contract.

***Note: All Bills are required to be supported by Detailed Measurement Sheet and Analysis of Rates for Extra Items and its approval along with the Bill. The Bills shall be submitted in specified format which should indicate quantities executed in all RA Bills and cumulative Quantities besides current bill quantities along with tendered quantity/unit/rates.***

## **8.0 SCHEDULE OF RATES TO BE INCLUSIVE**

Schedule of Rates shall be deemed to include and cover all costs, taxes, octroi, expenses and liabilities of every description and all risks of every kind (FOR Site) to be taken in executing, completing and handing over the work to the Owner by the contractor. The contractor shall be deemed to have known the nature, scope, magnitude and the extent of the works and materials required, through the contract documents may not fully and precisely furnish them. He shall make such provision in the Schedule of Rates as he may consider necessary to cover the cost of such item of work and materials as may be reasonable and necessary to complete the works. The opinion of the Architects as to the items of work which are necessary and reasonable for completion of work shall be final and binding on the contractor, although the same may not be shown on or described specifically in contract documents.

**9.0** Generality of this present provision shall not be deemed to cut down or limited in any way because in certain cases it may and in other cases it may not be expressly stated that the Contractor shall do or perform a work or supply articles or perform services at his own cost or without additional payment or without extra charges or words to the same effect or that it may be stated or not stated that the same are included in and covered by the Schedule of Rates.

## **10.0 SCHEDULE OF RATE TO COVER CONSTRUCTIONAL PLANT, MATERIALS, LABOUR, ETC.**

Without in any way limiting the provisions of the preceding sub-clause the schedule of Rates shall be deemed to include and cover the cost of all constructional plant, temporary works (except as provided for herein specifically) pumps, materials, labour, insurance, fuel, stores and appliances to be supplied by the contractor and all other matters in connection with each item in every respect maintained and as shown or described in the contract documents or as may be ordered in writing during the continuance of the contract.

## **11.0 SCHEDULE OF RATES TO COVER ROYALTIES, RENTS, PROVIDEND FUND, ANDCLAIMS**

The Schedule of Rates shall be deemed to include and cover the cost of all royalties and fees for all articles, processes, protected by letters, patent or otherwise incorporated in or used in connection with the works, also all royalties, rents and other payments in connection with obtaining materials of whatsoever kind for the works and shall include an indemnity to Sr. CONSULTANT , JAMIA HAMDARD which the contractor hereby give against all actions, proceedings, claims, damages, costs and expenses arising from the incorporation or the use on the works of any such articles, processes or materials. Octroi or other Municipal or local Board charge, if levied on materials, equipment or machineries to be brought to site and removed from site for use on work or after completion of the work, shall be borne by the contractor. The contractor should be registered for Provident Fund and would be required to make the deductions on the salaries paid to the workers and deposit the same to the concerned department.

## **12.0 SCHEDULE OF RATES TO COVER TAXES AND DUTIES**

No exemption or reduction of customs duties, excise duties sales tax, VAT or any part duties, transport carriages, stamp duties or Central or State Government or other body including one company or dues, taxes or charges (from or of anybody including the company), whatsoever will be granted or obtained all of which expenses shall be deemed to be included in and cover by the Schedule of rates. The contractor shall also obtain and pay for all permits, or other privileges necessary to complete work. In case where SR. CONSULTANT, JAMIA HAMDARD, wishes to avail Tax/Duty exemptions as applicable to the contractors shall comply with the instructions from SR. CONSULTANT, JAMIA HAMDARD.

## **13.0 SCHEDULE OF RATES TO COVER RISKS OF DELAY**

The schedule or Rates shall be deemed to include and cover the risk of all possibilities of delay and interference with the contractor's conduct of the works which occur from any cause including orders of SR. CONSULTANT , JAMIA HAMDARD, in the exercise of his powers and on account of extension of time granted due to various reasons and for all other possible or probable causes of delay.

## **14.0 SCHEDULE OF RATES CANNOT BE ALTERED**

For work under unit rate basis, no alteration will be allowed in the schedule of rates by reason of works or any part of them being modified, altered, extended, diminished or omitted. The schedule of rates are fully inclusive rates which have been fixed by the Contractor and agreed to by SR. CONSULTANT , JAMIAHAMDARD and cannot be altered.

1 Ordinary Portiant Cement	L&T ,Ultra Tech,ACC, or other brads approved by the Architect
2 Steel Reinforcement Bars	TISCO,SAIL RINL,Rathi udyog Ltd.
3 Structural Steel Sections	TISCO, SAIL RINL, Supreme...
4 Stone Aggregate (Blue/Black)	Sohna, Pali or other Approved
5 Water proof Shuttering	Century, Green, Duro/Haryana Plywood
6 Paints/O.B.D	ICI, Asian, Berger, Nerolac
7 Water proof Paint	Apex(Asian),Super Snowcem (kellick Nixon),
8 White Cement	Birla,JK Cement
9 Waterproofing	Structural Water proofing Co,Dr.Fixit,Overseas Water Proofing
10 Silicon Sealants	Dow Corning/GE
11 Glass and mirror	Saint Gobain/Guardian/Asahi
12 The Adhesives	Weber, Lafarge, Keisel, Balendura
13 Expansion joint covers	CS,Inpro
14 Glass	Saint Gobain, Guardian, Glaverbel,
15.Vitrified tiles	Kajaria double charged
16. Armstrong ceiling	Armstrong
17. Other material of work which are not enlisted	As per approval of Engineer In-charge of work

## Bill of Quantities

For

Providing and making wooden partition, false ceiling, Civil and plumbing work for Bsc. Msc. Integrated program at 3<sup>rd</sup> floor School of Life Sciences

### Schedule of Quantities:

S.No.	Description of work	Qty	Unit	Rate	Amount
1.	Demolishing brick work manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge. In cement mortar	10.20	Cum		
2	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes Cement mortar 1:6 (1 cement : 6 coarse sand)	15.41	Cum		
3	15 mm cement plaster on the rough side of single or half brick wall of mix 1:4 (1 cement: 4 fine sand)	90.30	Sqm		
4	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS:15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	87.00	Sqm		
5	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300 mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, except White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), including pointing the joints with white cement and matching pigments etc., complete.	71.69	Sqm		
6	Providing and fixing water closet squatting pan (Indian type W.C. pan ) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern,	2.00	Nos		

	including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests				
7	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: 17.7.1 White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	3.00	Nos		
8	Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :17.5.1 Single half stall urinal with 5 litre P.V.C. automatic flushing cistern	4.00	Nos		
9	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litter low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	2.00	Nos		
10	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic molded frame of approved make and shade with 6 mm thick hard board backing : Rectangular shape 1500x450 mm	2.00	Nos		
11	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	11.15	Sqm		

12	12 mm cement plaster of mix : 1:4 (1 cement: 4 fine sand)	24.30	Sqm		
13	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	0.19	Cum		
14	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level Mild steel and Medium Tensile steel bars	25.00	Kg		
15	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. Internal work - Exposed on wall				
a	20 mm nominal outer dia Pipes	41.46	Mtr		
b	25 mm nominal outer dia Pipes	15.00	Mtr		
c	32 mm nominal outer dia Pipes	15.00	Mtr		
16	Providing and fixing stone slab with table rubbed, edges rounded and polished, of size 75x50 cm deep and 1.8 cm thick, fixed in urinal partitions by cutting a chase of appropriate width with chase cutter and embedding the stone in the chase with epoxy grout or with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 6 mm nominal size) as per direction of Engineer-in-charge and finished smooth. White Agaria Marble Stone	4.00	Nos		
17	Providing and fixing P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete. Semi rigid pipe 32 mm dia	7.00	Nos		
18	Providing and fixing PTMT grating of approved quality and colour. Circular type 100 mm nominal dia	8.00	Nos		

19	Providing and fixing uplasticised PVC connection pipe with brass unions :45 cm length 15 mm nominal bore	11.00	Nos		
20	Providing and fixing PTMT stop cock of approved quality and color. 15 mm nominal bore, 86 mm long, weighing not less than 88 gms	11.00	Nos		
21	Providing and fixing PTMT bib cock of approved quality and color. 15mm nominal bore, 86 mm long, weighing not less than 88	1.00	Nos		
22	Providing and fixing 4" dia 6 kg pressure Pvc pipe for drainage line and stake line (Prakash make)	59.75	Mtr		
23	Providing and fixing 3" dia 6 kg pressure Pvc pipe for drainage line and stake line (Prakash make)	11.14	Mtr		
24	Providing and fixing health faucet of approved quality(Make of Super flow)	2.00	Nos		
25	Providing and fixing C.P. brass 2 way bib cock of approved quality conforming to IS standards and weighing not less than 690 gms.	2.00	Nos		
	<b>Wooden partition work</b>				
26	Providing and fixing wooden frames partitions including door and 6mm ply of approved make and brand fixing of both side along with 1.00 mm thick laminate of approved make and brand making of partition with necessary required fitting and fixtures (Door hinges, door closer, door stopper, tower bolt, door handle, mortise latch etc complete	680.00	Sqm		
a.	Providing and fixing wooden frames partitions including door and 6mm ply of approved make and brand fixing of both side along with 1.00 mm thick laminate of approved make and brand with sound absorbing resin bonded fiber glass wool having density 32 kg/m <sup>3</sup> , 50 mm thick, wrapped in 200G Virgin polythene bags placed in between existing partition. Fixing of all necessary required fitting and fixtures(Door hinges, door closer, door stopper, tower bolt, door handle, mortise latch etc complete	Rate only	Sqm		



	<b>False ceiling work</b>				
27	<p>Providing and fixing tiled false ceiling of approved materials of size 595x595 mm in true horizontal level, suspended on inter locking metal grid of hot dipped galvanized steel sections ( galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. GI Metal Ceiling Lay in plain Tegular edge Global white color tiles of size 595x595 mm, and 0.5 mm thick with 8 mm drop;made of G I sheet having galvanizing of 100 gms/sqm (both sides inclusive) and electro statically polyester powder coated of thickness 60 microns (minimum), including factory painted after bending.</p>	442.75	Sqm		
	<b>Internal painting work</b>				
28	<p>Removing white wash, color wash, plastic emulsion paint, oil bound distemper, synthetic enamel paint etc. by scrapping with sand papering removing loose</p>	746.29	Sqm		

	particles etc. and making surface smooth for the work.				
29	Filling putty making surface using ready made powder base putty of approved brand Birla putty. JK wall putty or as approved by the engineer in charge etc. complete on walls surface interior including sand papering after filling the putty making the surface smooth for applying the finishing painting coat including necessary centering & shuttering and scaffolding up to all heights complete	746.29	Sqm		
30	Plaster in patchwork and repairing of walls ceiling etc after cutting the old plaster in proper shape and repair with cement mortar 1:4 or plaster of paris etc .complete making good surface including necessary T&P and centering & shuttering and scaffolding up to all requirement high of the buildings.	37.31	Sqm		
31	Finishing walls with premium Acrylic smooth exterior paint with silicone additives like Apex weather shield etc. of approved brand and manufacturer (Asian paints ,ICI Dulux & Berger paints )of required shades .				
a	New work (three or more coats ) over and including base coat of water based exterior primer of same brand applied of same brand applied including necessary tools & plans and Scaffolding /Jhoola up to all high.	746.29	Sqm		
32	Painting with synthetic enamel paint of approved brand and make (Asian paint,ICI Dulux ,Nerolac & Berger paint)to give an even shade such as blue green buff and all other requirement shades including using of colors strainer of approved brand for making of require shades with brushes etc complete including necessary centering and shuttering and scaffolding up to all hight.				
a	Old work(two or more coats)	13.94	Sqm		
b	New work (three or more coats)	0.00	Sqm		
	Total amount				

Total amount in words:-

Contractors Sign with seal

# JAMIA HAMDAD

## HAMDARD NAGAR, NEW DELHI-62

### NOTICE INVITING TENDER

Jamia Hamdard invites sealed items rate tenders in two bids system (Technical & Financial Bid) for the work of electrical at 3<sup>rd</sup> floor: School of Life and Chemical Sciences (Class rooms and Labs) from Registered/Empanelled/Working contractors. The tender documents and other details are available on the website: [www.jamiahamdard.edu](http://www.jamiahamdard.edu)

<b>Name of the work</b>	Electrical work of Cabling, Circuit wirings, Point wirings, Panels etc. at 3 <sup>rd</sup> floor: School of Life and Chemical Sciences (Class rooms and Labs)
Estimated Cost:	12.94 Lakhs
Earnest Money:	Rs.26000/- In the form of DD in favour of Jamia Hamdard, New Delhi
Tender Cost	Rs. 1200/- (Non-Refundable)
Last Date and Time of Submission of Tender	19-10-2018 at 3 pm
Date & Time for opening of Technical bid (Part-A)	19-10-2018 at 3.30 pm
Date & Time for Opening Of Price bid (Part-B)	To be intimated later on to the technically qualified bidders
Address for submission of tender	Purchase Section Adm. Block,(Basement) Jamia Hamdard, Hamdard Nagar, New Delhi-62
Place of opening of tender	Office of the Sr. Consultant: Adm. Block, Jamia Hamdard, Hamdard Nagar, New Delhi-62
Completion Time:	45 Days

## **1. SCOPE OF WORK**

### **Electrical Works**

Electrical sub main circuit wirings, light/power points wiring, AC circuit wiring with circuit breakers, LT floor panel, cabling, cable tray, box, providing and fixing of extended lengths fans and fixtures including dismantling of old fittings/wirings, where required as per BOQ (Annexure 'A')/requirement of site etc.

Feasibility should be explored to use the existing circuits and DBs.

### **(3) ELIGIBILITY CRITERIA**

1. Bidders must be registered/empanelled/working with Jamia Hamdard, CPWD, DDA or other Govt. organizations as appropriate class of contractors. Bidders have to submit the upto date certified copy of the Registration Certificate along with his Tender. The original will have to be produced when demanded for verification.
2. Contractors should have executed similar nature of works of at least one contract of 80% value of estimated cost of works or two contracts of similar nature of works of 60% value of estimated cost of works or three contacts of similar natures of works of 40% value of estimated cost of works in the last 3 years in prestigious institutional buildings, Universities and produce credentials in support thereof, Certificates of satisfactory completion of works must also be provided.
3. Experience of having successfully completed works during the last 3 years ending last day of the month previous to the one in which applications are invited.
4. Average annual financial turn over on said work should be at least 30% of the estimated cost during the last 3 financial years. Documents in support should be attached.
5. The Bidders must have G.S.T & PAN No.

### **(4) SUBMISSION OF BIDS**

Submission of Tender: Tenders should be submitted in two Parts i.e. "Technical bid" (Part-A) and "Price bid" (Part-B) in two separate sealed envelopes. Both the parts should be further put in a single sealed envelope super-scribing NIT No. & name of work, due date for opening, bidder's name & address. The tender duly filled should be dropped in the tender box kept in the Purchase Section; It should not be handed over to any employee of the Jamia Hamdard. No tender shall be accepted later than the time schedule specified above. Any clarifications/amendments/corrigenda etc., to NIT before last date of submission of bid will only be available on our website: [www.jamiahamdard.edu](http://www.jamiahamdard.edu). Therefore bidders are advised to keep visiting our website.

#### **Technical Bid (Part-A):**

In this bid, the bidder shall submit the following:

- a. Covering letter on Company's Letter head
- b. Earnest Money Deposit.
- c. Copies of GST no., PAN no. etc.
- d. Bankers certificate for credit worthiness.

- e. Copies of work orders for similar nature of works of at least one contract of 80% value of estimated cost of works or two contracts of similar nature of works of 60% value of estimated cost of works or three contracts of similar natures of works of 40% value of estimated cost of works in the last 3 years.
- f. Entire NIT (except Price bid) duly signed & stamped by the bidder.
- g. Experience of having successfully completed works during the last 3 years ending last day of the month previous to the one in which applications are invited.

### **Note**

1. Completion certificate submitted should be by an officer not below the rank of Executive Engineer/Assistant Engineer.
2. All documents submitted by the bidder should be self-attested along with stamp

### **Price Bid (Part-B):**

- I. BOQ of Electrical Works is cited on **Annexure “A”**
- II. In this bid, the related works' bidders are required to quote his item rates in the above said attached BOQ in accordance with the scope of works, terms & conditions & technical specifications enclosed. The rates/price quoted by contractor should be all inclusive i.e. should include all material cost, labour, services, plant/machinery/tools & tackles, ladders & scaffolding required for work, freight, Insurance, Octroi, Govt. duties & levies, GST, Service Tax, Sales Tax etc.), transport/cartage of materials/labour and all other expenses not specifically mentioned but reasonably implied. Nothing over and above these rates shall be payable to contractor. Further nothing extra in rates will be considered for any variations in tender quantities or due to any site difficulties. It is mandatory for bidder to quote all items rate as asked for in the BOQ/ PRICE schedule. Failure in not filling some item rates will lead to rejection of tender. The bidders should quote unconditional rates, neatly written without any overwriting and all pages should be duly signed & stamped.

### **(5) GENERAL TERMS & CONDITIONS**

- I. **Earnest Money:** An earnest money of Rs. 26000.00 for the Electrical works have to be enclosed along with the Technical bid (Part-A). The EMD shall only be in the form of Bank Draft in favour of Jamia Hamdard, New Delhi. No Cheques/Cash shall be accepted as EMD. The refund of EMD to the technically disqualified shall be made within 15 days from the date of opening of price bid. The EMD of the successful lowest bidder (L1) shall be held back and will be released after completion of the works and site clearance.
- II. **Validity of Tender:** Tender shall be valid for our acceptance without any change in rates and NIT conditions for a period of 90 days from the date of opening of price bid.

- III. **Escalation:** No escalation over and above items rates quoted by the bidder shall be paid during the execution of contract.
- IV. **Completion time:** The time shall be the essence of this contract and entire work as titled above is to be completed in all respects within a period of 45 days from the date of issue of the work order. Any delay in completing of work for reasons attributable to the Contractor is liable for liquidated damages as per clause 5. "XIII" of NIT. Under the force-majeure conditions or delay due to reasons beyond control of the contractor, Jamia Hamdard may grant suitable time extension without penalty for which the contractor has to request along with the justification/reasons well in advance to Jamia Hamdard for approval without any prejudice to price escalation. No time extension request shall be considered after the expiry of completion period/contract. The decision of the Sr, Consultant (E & M) regarding Time extension will be final and binding on the contractor.
- V. The rates shall be inclusive of all taxes (Service Tax, GST etc.) duties and cartage etc. Jamia Hamdard welfare Relief Fund will be deducted @ 0.25% of the amount of total bill claimed.
- VI. **Deviations:** No deviation from the stipulated terms and conditions will be allowed. Tender will be unconditional.
- VII. **Site Conditions:** Contractor shall acquaint himself fully with the site conditions and the working environment of Jamia Hamdard before quoting his rates. No Compensation on account of any site difficulties will be entertained, at a later date, after award of the work.
- Before tendering, the Contractor shall visit and examine the site and satisfy himself as to the site conditions, the correct dimensions of the work and facilities. In case of any doubt, may be clarified from the office of the Assistant Engineer (Electrical).
- VIII. **Correspondence:** All the correspondence in respect of tender/award of work shall be made to Sr. Consultant (E & M).
- IX. **Terms of Payment:** The payment shall be made on submission of the bills in proper format by the contractor after due certification by the engineer responsible for supervision of the work. Contractor can submit two interim or running bills and one final bill after completion of work for claiming payment based on actual quantities of items of work executed as per BOQ and Engineer's instructions. 5% deductions will be made towards the security deposit from each running bill. The security deposit shall only be refunded after expiry of the defect & liability period.
- X. **Labour Laws:** The contractor will abide by all the rules and regulations related to labour laws, accident, workmen compensation act, workmen insurance etc. This will be the sole responsibility of the contractor. Jamia Hamdard will not be a party at any stage in any of the disputes relating to the above. In case, Jamia Hamdard has to bear any expenditure due to non-conformance of the above provisions by the contractor, the same will be recovered from contractor's bills.
- XI. Rules governing the Contractor's employees working in the Jamia Hamdard Premises: The contractor's employees working inside the Jamia Hamdard campus will abide by the Centre's rules & regulations for works inside the campus. Any damage to the Jamia Hamdard property

due to mishandling, carelessness on the contractor's or his workmen's part will be recoverable from the contractor's bills.

- XII. **Liquidated damages:** In case the work is delayed beyond the specified completion period for reasons attributable to the contractor and without any genuine reason, deductions on account of Liquidated damages @1/2% of the contract value per week will be deducted subject to a maximum of 5% of the contract value. However, during the delayed period, Jamia Hamdard also reserves the right to get some portion of work done by any other contractor at the risk and cost of the existing contractor and amount to that effect along with 10% overhead charges will be deductible from his bills/dues.
- XIII. **Extra or substituted item:** If any extra or substituted item appears in the work, contractor shall submit its rate analysis supported with documents which shall be approved by concerned Engineering Department. Analysis of rates will be based on DSR 16 document of CPWD or based on market rates for determining item rate and pay to contractor accordingly.
- XIV. **Defect Liability period:** Defect liability period shall be one year from the date of completion of work. Any defect arising in this period due to contractor's fault will be rectified by him at his own cost. Failure to do so, shall lead to forfeiture of security deposit.
- XV. **Security Deposit:** A security deposit equal to 05 % of the value of work will be deducted from Contractor's bills and shall be refunded after the completion of defect liability period of one year after ensuring successful performance of the system executed by the contractor.
- XVI. Contractor should depute a qualified supervisor dedicated for this work, who will monitor and coordinate the works from contractor's side and interact with the Jamia Hamdard Engineers, responsible for supervision of work, on regular basis.
- XVII. Contractor will take due permission for entry of all his workmen in Jamia Hamdard. No unauthorized person will be allowed to work inside.
- XVIII. The contractor will arrange all necessary materials, tools, equipment, access ladders & scaffolding, measuring instruments and working consumables etc. needed for execution of the works. Safe custody of all such material will be contractor's sole responsibility. No extra charges will be paid for the same. Watch and ward of all material till the system is taken over by Jamia Hamdard shall be the sole responsibility of the contractor and pilferage etc. shall be entirely to his account.
- XIX. During execution of work, Engineer can make minor changes in the scope of work as per site conditions or other reasons. Contractor will have no extra claim in his rates for the same.
- XX. If during the execution of works, any damage is caused to Jamia Hamdard property by contractor's/contractors' workers, contractor will duly make good the loss. Jamia Hamdard has the right to make suitable deduction from contractor's bills along with penalty, if contractor fails to make good the loss.
- XXI. During execution of work, the contractor/contractors should follow all standard norms of safety measures/precautions as per relevant IS codes and CPWD specifications to avoid accidents/damages to man, machines and buildings, at his own cost. Contractor will have his own arrangement to escort the labour to the nearest hospital for treatment in case any injury happens to any worker during execution of work.

- XXII. Manpower deployed by the contractor at our site for carrying out contract works is strictly prohibited being associated with any other works on the campus.
- XXIII. No material belonging to the contractor whether consumable or non-consumable should be brought inside the Jamia Hamdard campus without proper entry at the Main Gate nor any material should be taken out without proper gate pass issued by the authorized representatives of the Centre.
- XXIV. During execution of the work, contractor should dispose off waste material on regular basis and should keep the area of work properly cordoned off and neat and clean as far as possible. After completion of work, contractor should clear the site completely of all unwanted and junk material before submitting his final bill.
- XXV. Jamia Hamdard will provide electricity, if needed, the electrical energy meter will be provided by the contractor and necessary deduction will be made as per the actual consumption of electricity during execution of work. The contractor has to make his own arrangements for water.
- XXVI. Tender once submitted will remain with the Jamia Hamdard and will not be returned to the bidders.
- XXVII. **Termination of Contract:** The Jamia Hamdard reserve the right to terminate the contract on account of poor workmanship, failure to mobilize site within 15 days, non-compliance of specifications for the works, abnormal delay in progress of work, violation of any contract provisions by the contractor. In such case, contractor's EMD and security deposit deducted so far will be forfeited.
- XXVIII. The contract can also be terminated on the request of contractor. In such cases the contractor is liable to pay Liquidated damages @ 5% of tendered value besides forfeiture of EMD & security deposit recovered so far.
- XXIX. Any dispute arising out of this contract will be subjected to jurisdiction of New Delhi/Delhi.
- XXX. Tenders not complying with any of the provisions stated in this tender document are liable to be rejected. Jamia Hamdard also reserves the right to accept or reject any or all the tenders without assigning any reason and does not bind himself to accept the lowest tender or split the work in two or three parts.
- XXXI. That in the event of any difference, or dispute arising between the parties to this Agreement for any reasons whatsoever relating to the contract, whether during the substance of this Agreement or their after, it has specifically been agreed that the party will endeavor to amicably resolve the difference, but in case if dispute or differences still remain unresolved, the same shall be referred to the sole Arbitrator appointed by the Vice Chancellor of Jamia Hamdard and the Arbitrator decision shall be final and binding upon the parties concerned.



## **(6) SPECIAL TERMS AND CONDITIONS**

- I. Makes of Items to be used by contractor will be according to the list of approved makes given at Annexure 'B'. No other makes will be used by the contractor.
- II. Contractor will first submit the sample of relevant make to Sr. Consultant/A.E. Electrical for approval before procuring the material.
- III. Contractor will arrange proper necessary materials at his own cost and will take all safety measures like safety belts, extra labour to hold ladders etc. If it is observed that work is proceeding without adequate safety precautions, work may be stopped by Engineer in-charge and in such cases, contractor will be solely responsible for delay and its consequences thereof.

## **(7) TECHNICAL SPECIFICATIONS**

- I. List of approved make of electrical materials is attached at Annexure B

## **(8) CHECK LIST**

### **TO BE SUBMITTED ALONG WITH BID**

The tenderers are requested to ensure the submission of the essential documents to avoid disqualification of the bid. However, the check list is not exhaustive and the tenderer are requested to go through to NIT & related documents carefully and completely for fulfillments of tenderers requirement.

S. No.	Enclosures	Submitted
1.	Cost of tender document	
2.	EMD	
3.	Similar works order	
4.	Annual turnover certificate for the last three years	
5.	Signature with stamp in all pages of tender documents.	
6.	Bank account detail	
7.	E-mail address	
8.	Address for communication	
9.	Phone no, Mobile no, Landline no.	

Signature of the Tenderers

Accepted

(Signature of bidder)

Note:- Entire NIT (except price bid) is to be attached with 'Technical bid (Part-A)' duly signed & stamped by the bidder

**LIST OF APPROVED MAKES****(Electrical)**

<b>S.No</b>	<b>Details of Materials</b>	<b>Manufacture's Name</b>
1	<b><u>INTERNAL ELECTRICAL WORK</u></b>	
(A)	<b><u>INTERNAL WIRING:</u></b>	
1.0	PVC Conduit and Conduit Accessories	BEC/AKG/Polypack/Setia
2.0	PVC Insulated FRLS Copper Conductor wire	Havell's /Finolex/Polycab
3.0	MCB / MCCBs/ELCB / Double Door Distribution Boards / Insulated	Legrand-Lexic / L&T-Hager / ABB /Siemens/ Scheneider
4.0	LT Cable PVC / XLPE Insulated	Havell's /Nicco / Polycab
5.0	AC Box	ABB / Hager/ Polycab
6.0	Modular Switch and Sockets	Anchor Roma, Crabtree, Havells
7.0	Light Fittings and Fixtures	Philips / Havells / Wipro
8.0	Networking Wires / Cables	Tyco /D-Link /System (E)
9.0	Internet outlet (IO)/ RJ-11 and RJ-45	Anchor Roma
10.0	LED Panel Lights / LED Hanging Lights	Philips/ Havells /Wipro
11.0	Ceiling Fans	Crompton Greaves (High Speed)/Havells

(Signature of the Contractor &amp; Stamp)

## ANNEXURE-A

**BOQ of Electrical Works**

BOQ for the providing and fixing of electrical works class rooms and labs (existing Examination Hall)  
3<sup>rd</sup> Floor: School of Chemical and Life Sciences

S.No.	Particular	Qty	Rate	Amount
1	<b>DSR 2016/1.10.2</b> Supplying & Fixing of light point wiring with 2x1.5 sqmm PVC insulated single core cable copper conductor at laying in PVC conduit/casing capping including modular switch and other accessories etc. as required.	30		
2	<b>DSR 2016/1.31</b> Supplying & Fixing of 6 Amp light plug point modular accessories complete connections etc. as required.	20		
3	<b>DSR 2016/1.32</b> Supplying & Fixing of 16 Amp power plug point modular accessories complete connections etc. as required.	20		
4	Supplying & fixing wiring for sub main circuit wiring along with earth with the following size of PVC insulated copper conductor single core cable in surface/ recessed PVC conduit as required			
a	1.14.1-2x1.5 sqmm + 1x1.5sqmm	450		
b	1.14.2-2.25sqmm + 1x2.5 sqmm	250		
c	1.14.3-2x4.0 sqmm + 1x4.0 sqmm	300		
5	<b>DSR/2016/1.25</b> Supply and fixing ceiling fan stepped type modular fan regulator complete connection etc as required.	06		
6	Dismantling of 48" ceiling fan	64		
7	Dismantling of 40 watt tube fittings	64		
8	<b>DSR/2016/1.45</b> Fixing of 48" ceiling fan complete connection etc as required	70		
9	Supply and fixing of ceiling fan down rod dia 20mm lenth 1050mm with heavy duty clamp set etc as required	70		
10	Fixing of 2'x2' 34 watt LED panel light complete connection etc as required.	125		
a				
b	Fixing of 2'x2' 34 watt LED surface mounted light, on surface with connection complete in all respect	RO		
11	Supply of following aluminum armored cables PVC insulated and PVC sheathed XLPE 1.1 KV grade etc. as required			
a	4X25 sqmm aluminum armored cable	215		
b	3.5X35 sqmm aluminum armored cable	370		
c	3.5X150 sqmm aluminum armored cable	135		
d	3.5X240 sqmm aluminum armored cable	135		

12	Laying of one number PVC insulated and PVC sheathed /XLPB Power cable of 1.1kv grade of following size direct in ground including excavation sand cushioning protective covering and refilling the trench etc. as required			
a	7.1.4- above 150 sqmm upto 240 sqmm	270m		
13	<b>DSR/2016/7.7.3</b> Fixing/Laying of Aluminum armored cable with saddle on the wall and ceiling etc as required	585		
14	End termination of following size aluminum armored cable XLPE 1.1kv grade with gland and aluminum thimbles			
a	9.1.34- 2x25 sqmm	06		
b	9.1.21-3.5x35 sqmm	12		
c	9.1.26- 3.5x150 sqmm	02		
d	9.1.29-3.5x240 sqmm	02		
15	Supplying, Assembling, erecting, testing and commissioning of 415V, 3 Phase, 50 Hz, 4 wire system, sheet steel clad, dust and vermin proof cubical and Indoor type floor/ wall mounted, free standing extendible type Panel compartmentalized design and fabricated out of 16 swg CRCA sheet steel complete with suitable size of Aluminum Bus bars, Electrical interlock as per the various status of all equipments indicated on the drawings. . P/F the following Switchgears, complete with earth Bus bar throughout the length of the panel, terminal arrangement for Incomings/ outgoing cables and also outgoing terminations for various sizes of cables, The incoming and outgoing feeders shall be accommodated in a modular multitier arrangement, adequate size bus duct/ cable alley, Painting, Earthing, Numbering, Danger plate etc. complete as required as per specifications and drawing attached			
a	<b>Incoming:</b>			
	1 No. 400 amps, MCCB with over current and short circuit release complete with	01		
	1 No. Intelligent multifunction digital panel meters of class 1.0 accuracy with communication interface port RS 485 for recording V (Between Phases and between each phase and neutral), A (In each Phase and neutral ), KWHr with suitable rating CTs, CT shorting links, R,Y,B LED indicting lamp and 2A control SP MCB's			
b	<b>Bus Bar</b>			
	Electrolytic high conductivity aluminum three phase and neutral bus bar rated at 415V, 50 Hz. 400 amps, insulated with heat shrinkable coloured PVC sleeves & clip on shrouds for joints.			
c	<b>Outgoing</b>			
	9Nos. 100 AMP TP MCCB			
16	Supplying, Assembling, erecting, testing and commissioning of 415V, 3 Phase, 50 Hz, 4 wire system, sheet steel clad, dust and vermin proof cubical and Indoor type floor/ wall mounted, free standing extendible type Panel compartmentalized design and fabricated out of 16 swg CRCA sheet steel complete with suitable size of Aluminum Bus bars, Electrical interlock as per the various status of all equipments indicated on the drawings. . P/F the following Switchgears, complete with earth Bus bar throughout the			

	length of the panel, terminal arrangement for Incomings/ outgoing cables and also outgoing terminations for various sizes of cables, The incoming and outgoing feeders shall be accommodated in a modular multitier arrangement, adequate size bus duct/ cable alley, Painting, Earthing, Numbering, Danger plate etc. complete as required as per specifications and drawing attached	01		
<b>a</b>	<b>Incoming</b>			
	1 No.250 amps, MCCB with over current and short circuit release complete with			
	1 No. Intelligent multifunction digital panel meters of class 1.0 accuracy with communication interface port RS 485 for recording V (Between Phases and between each phase and neutral), A (In each Phase and neutral ), KWHr with suitable rating CTs, CT shorting links, R,Y,B LED indicating lamp and 2A control SP MCB's			
<b>b</b>	<b>Bus Bar</b>			
	Electrolytic high conductivity aluminum three phase and neutral bus bar rated at 415V, 50 Hz. 250 amps, insulated with heat shrinkable coloured PVC sleeves & clip on shrouds for joints.			
<b>c</b>	<b>Outgoing</b>			
	03 nos. 63amp TP MCCB			
17	DSR-2016-4.1.2 Supply and installation of 150mm x 50mm x 1.6mm size perforated painted with powder coating MS Cable Tray with suspended with ceiling with MS suspender, nut bolts complete in all respect.	10m		
	<b>Total</b>			
	<b>GST @18 %</b>			
	<b>Grand Total</b>			

(Signature of the Contractor & Stamp)

