BIHAR AGRICULTURAL UNIVERSITY
SABOUR-813210, (BHAGALPUR), BIHAR

No.16/CS (HQ)/B.A.U., Sabour

Dated: 17/10/2017

Re-Tender Notice No. 16
Expression of Interest for Interior Decoration

Sealed EOI are invited from reputed Registered Suppliers/Dealers/Firms/Enterprises/Organizations having five years Experience of related work for Empanelment of firms/Agencies for the Planning, Acoustic Work, Ceiling Work, Repair & Renovation works/Furnishing/Interior Decoration of Classroom/Laboratory/Auditorium/Offices etc of BAU Headquarter and its units. In response of earlier bid (03/CS(HQ)/B.A.U., Sabour, dated:11/04/2017), it was observed in many cases that the bidders failed to submit the required documents as mention in bid. They also failed to mention the brand name of material to be used. Hence it is stressed upon that the material should be of very high quality. Brand name of all materials must be quoted in technical specifications. The bidders who have already submitted bid in response of this university earlier NIT No. 03/CS(HQ)/B.A.U., Sabour, dated: 11.04.2017 need not to deposit the earnest money (EMD) again. If they wish to improve their specifications then they need to submit bid documents afresh without submitting earnest money. **A pre-bid meeting has been scheduled on 04.11.2017 at 3:00 PM.** Sealed envelope of EOI containing full information, technical specification, along with supporting documents, past experiences of similar nature or work etc., should reach in the office to the undersigned only through registered post/speed post/courier on or before 07/11/2017 upto 4.00 P.M. and the same will be opened on dated: 08/11/2017 at 3.00 P.M. in presence of committee and available applicants or their representatives. Details are available on www.bausabour.ac.in.

O/I Central Store (H.Q.)
Expression of Interest FOR

“Planning, Furnishing & Interior Decoration in the University Headquarters and Colleges/Units under Bihar Agricultural University, Sabour

NIT No. 16/CS (HQ)/BAU, Sabour Dated: 17/10/2017
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Chapter – 1: Instructions to Bidders.

BIHAR AGRICULTURAL UNIVERSITY, SABOUR, BHAGALPUR

(NOTICE INVITING Re-TENDER/EOI)

On behalf of the Vice-Chancellor, BAU, Sabour, sealed item rate tenders in the prescribed Performa (from manufactures/Central Govt./State Govt./Public Sector Enterprises etc. (or their ‘authorized’ dealers by submitting letters/certificates, in original, from the manufacturers that they have been authorized to quote in response to this NIT/EOI) of the following items are invited:

<table>
<thead>
<tr>
<th>S.N.</th>
<th>Tender no.</th>
<th>Description of Works</th>
<th>Estimated cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>NIT No.16 /BAU/CSHQ/2017-18/-</td>
<td>Planning, Furnishing &amp; Interior Decoration of different Building like Laboratory, Class Room, Auditorium etc. of different colleges under BAU, Sabour and its H.Q.</td>
<td>₹ 1.10 Crore</td>
</tr>
</tbody>
</table>

The Tender Documents for items will be on two-Bid System consisting of Technical Bid and Price Bid in two separate sealed covers. The Price Bid must be submitted item-wise (Strictly in the format enclosed as ANNEXURE – 1).

The Tender Document (non-transferable) along with detailed specifications, terms and conditions may be purchased by the interested firm on submission of a written application to the undersigned along with payment of non-refundable Tender fee as mentioned below. The Tender fee may be paid in the form of Bank Draft in favour of The Comptroller, Bihar Agricultural University, Sabour payable at Sabour, Bhagalpur. The Tender document can also be downloaded from the University’s website – www.bausabour.ac.in.

  a) Tender Fee : ₹ 2000/- (Two thousand only) Non-refundable.
  b) Date of commencement of issue of Tender Document : 18/10/2017
  c) Last date and time for receipt of Tender Document : 07/11/2017 upto 4:00pm.

The tender should be addressed to the undersigned, and should be sent by speed post/Registered Post/Courier only so as to reach the University on or before 07/11/2017 upto 4:00pm. No tender will be accepted after the due date and time.

All Tender Documents must be accompanied by cost of tender document (₹ 2000/- Two thousand only Non-refundable) & Earnest Money Deposit for Rs. 2,25,000.00 (Rupees Two Lac and Twenty Five Thousand only) in the form of Bank Draft drawn in favour of The Comptroller, Bihar Agricultural University, Sabour, Bhagalpur payable at Sabour, Bhagalpur. The Bid Security Form/Earnest Money Deposit Bank Draft must be enclosed with Technical Bid. The details of Bank Draft Number of Earnest Money Deposit must be endorsed on top of envelope containing Technical Bid.

Any type of case or enquiry should not be pending against the agency/firm which submits the bid.

The University shall not be responsible for any delay in receiving Bids / sending of Tender Document by post.
Initially the rate will be valid for one (01) year from the date of agreement which may be extended up to another three (03) years after successful performance of the agency and approval of the competent authority in this regard.

The Competent authority of University reserves the right to accept or reject any bid, without assigning any reason thereof. No correspondence in this regard will be entertained. Earnest Money shall be forfeited in case it is found at any stage that information/particulars regarding supply of tendered item(s) are false.
Chapter – 2: Conditions of Contract.

TERMS & CONDITIONS
Interested firms are requested to submit their offers in a sealed envelope on terms and conditions given in the prescribed Tender form:

<table>
<thead>
<tr>
<th>Name of the Job</th>
<th>Tender Fee in the form of DD in favour of The Comptroller, BAU, Sabour, payable at Sabour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning, Furnishing &amp; Interior Decoration of different Buildings like Laboratory, Class Room, Auditorium etc. of different colleges under BAU, Sabour and its H.Q.</td>
<td>₹2,000/- (Two thousand only) Non-refundable</td>
</tr>
</tbody>
</table>

Conditional tenders shall not be considered and shall be rejected.

Note: Tender fee on downloaded form from the website www.bausabour.ac.in is also ₹2000/- (Non-refundable) and will have to be rendered at the time of submission of the Tender.

TIME SCHEDULE

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>DATE &amp; TIME</th>
<th>VENUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Last Date of Receiving Sealed Tenders</td>
<td>07/11/2017 upto 4:00pm</td>
<td>Office Chamber of O/I Central Store, Bihar Agricultural University, Sabour, Bhagalpur – 813210 Bihar</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>DATE &amp; TIME</th>
<th>VENUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Bid Meeting</td>
<td>04/11/2017 At 3.00 P.M.</td>
<td>Mini Auditorium/Conference hall, Bihar Agricultural University, Sabour, Bhagalpur – 813210 Bihar</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PARTICULARS</th>
<th>DATE &amp; TIME</th>
<th>VENUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Opening of Technical Bid</td>
<td>08/11/2017 at 3:00pm</td>
<td>Mini Auditorium/Conference hall, Bihar Agricultural University, Sabour, Bhagalpur – 813210 Bihar</td>
</tr>
</tbody>
</table>

The Details of the Tender will be available on website www.bausabour.ac.in
PREQUALIFICATION CRITERIA OF CONTRACTORS/BIDDERS

THE SCOPE OF WORK INCLUDES INTERIOR PARTITIONS, FLOORING, FALSE CEILING

1. The bidder should have at least five years experience of planning, furnishing & Interior decoration of similar nature of work of different building of colleges/Universities and similar govt./corporate/autonomous organization.

   Similar nature of work means: False Ceiling, Wall Panelling, Flooring, Acoustic Treatment, Laboratory, Class Room Furnishing as per requirement, Supply of Chairs & Tables, Electrical Works, AC Installation, Water Supply, etc. complete furnishing job with state of art facilities & specialized service.

   A letter of satisfactory work performance (issued by the respective competent authority) should be enclosed with the bid.

2. The bidder should have completed similar job of not less than 50.0 Lac as single job during preceding five years.

3. General Information for Bidders

   Bidder shall note the following information:

   3.1 Bid Submission

   • Bidder is advised to study the Bid document carefully. Submission of the Bid shall be deemed to have been done after careful study and examination of the Bid document with full understanding of its implications. Failure to furnish all information required by this Bid document or submission of a Bid not substantially responsive to the Bid document in every respect will be at SI’s risk and may result in the rejection of its Bid.

   • The University reserves the right to accept/reject any deviation in the Bid by bidder.

   • The bidder must bear all the costs associated with the preparation and submission of its Bid and the University will in no case be responsible or liable for those costs, regardless of the conduct or the outcome of the Tendering process

   • The Bid will not be returned to the bidder after the decision is made.

   • Submission of Bid in response to this Bid shall not be construed as an obligation on the part of the University to award a purchase order for any products/services or combination of services proposed

   • The University reserves the right to reject any Bid or all Bids without assigning any reason whatsoever to anyone and the bidder shall be bound to follow the decision and not to raise any claim whatsoever against the University
• Blank columns and Overwriting is not permitted in filling up the bids and may entail rejection of the Bid.

• The Bid terms and conditions must be clearly typed or legibly written and have the full name and address of the SI. Each and every page shall have the signature and seal of the authorized representative of SI.

• Income Tax clearance certificate along with an affidavit from the Notary that the firm has never been black-listed must be attached along with the Bid, failing which the Bid shall be rejected.

• Copy of documents duly certified by Chartered accountant indication turnover of last three years.

• List of technical persons employed for planning & designing of various services including name of the service and consultants employed and their experience in their respective fields.

• List of the projects successfully completed during last 5 years along with the satisfactory completion certificate from competent authority. The certificate should cover the value of the project, year of start, year of completion, comments on performance and time over run, if any.

• The Agency /Furnishers should have to furnish the details specification of the work to be done. List of materials with make to be used in the work for electrical, water supply & furnishing works, and any other allied specifications.

• The Power Point Presentation by the Agency/Furnishers before the committee will also be the part of evaluation of EOI. Hence soft copy of presentation should also be submitted with the EOI.

• Quality Control Certificate.

• List of item used without Brand name/Make etc. with detailed specification. Non ISI Items will not be entertained.

• Last date and time for Bid submission is 07/11/2017 at 4.00 P.M.

• All responses that are received after the due date / time will be treated as invalid and would not be accepted or opened.

Technical Bid and Financial Bid/Price Bid must be submitted in separate sealed envelopes. The envelope cover in each case should be superscripted with “Technical Bid for Planning, Furnishing & Interior Decoration work of different colleges under BAU Sabour and its H.Q” and “Financial Bid/Price Bid for Planning, Furnishing & Interior Decoration work of different colleges under BAU Sabour and its H.Q” respectively. BIDDER’s name and address should also be superscripted on each envelope. These two envelopes should be put in another sealed envelope and super scribed with “Bid for Planning, Furnishing & Interior Decoration work of different colleges under BAU Sabour and its H.Q. along with BIDDER’s name and address. This sealed envelope should be submitted to ‘The Officer-in-Charge, Central Store, Bihar Agricultural University, Sabour, Bhagalpur – 813210 on or before the Bid due date/time. The place of submission shall be ‘Office of O/I Central Store, Bihar Agricultural University, Sabour, Bhaglapur – 813210 Bihar’.”
- The Technical Bid must contain the technical specification as per requirement and scope of the work. The equipment / instruments must confirm to their relevant codes. Each page of the Original Documents must be signed by the authorized person or the BIDDER with Seal.

- Financial Bid on the letter head of the bidder must contain the prices excluding taxes. All taxes and other charges shall be mentioned separately, all rates shall be F.O.R. destination i.e. colleges and H.Q. of BAU, Sabour. Each page of the bidding document must contain seal and signature of Bidder.

3.2 The University and Memorandum of Understanding (MOU)

- By submitting a Bid in response to this Tender, the bidder agrees to promptly engage in contract with the University if it is selected for the assignment.

- The University will first issue a Letter of Intent (LOI) to the bidder. The bidder shall submit its acceptance within a week of issue of the LOI.

- From the date of issuance of a Letter of Intent to the selected bidder, the bidder shall sign an agreement in this Bid document, with the University at the time, place and in the format prescribed by the University. The MOU agreement shall include all agreed terms, conditions and specifications of this tender document and also the Bill of material and price, as agreed finally after Bid evaluation. The MOU shall be executed in English language in 2 (TWO) original, with both University and the BIDDER receiving the duly signed original. The MOU shall be valid till all contractual obligations are fulfilled.

- The effective date of start of the MOU with the selected bidder shall be the date of signing of the MOU by the bidder.

- All questions, disputes and differences arising under and out of, or in connection with the MOU shall be referred to the sole arbitration by an arbitrator appointed under the provisions of the Arbitration and Conciliation Act, 1996 by the Vice-Chancellor, BAU, Sabour.

- Any notice by one party to the other pursuant to the MOU shall be sent by registered post/speed post in writing to the address specified for that purpose in the Memorandum of Understanding.

- By entering into a MOU with the University, the BIDDER acknowledges that the BIDDER has the expertise and the competence in executing all phases of work involved in the provisions of this Bid. The BIDDER also acknowledges that University relies on this statement, therefore neither accepting responsibility for, nor relieving the BIDDER of the responsibility for the performance of all provisions and terms and conditions of this Bid.

- All goods or materials shall be supplied by the BIDDER, whose Bid is accepted, strictly in accordance with the specifications, drawings, data sheets, other attachments and conditions stated. Any alterations of these conditions shall not be made without the consent of University in writing which must be obtained before any work against the order is commenced.
• All material furnished by the BIDDER pursuant to the MOU (irrespective of whether engineering, design data or other information has been furnished, reviewed or approved by the University) will be guaranteed to the best quality of their respective kind (unless otherwise specifically authorized in writing by the University) of workmanship and materials, and to be of sufficient size and capacity and of proper materials so as to fulfil in all respects with all operating conditions.

• In the event that the material supplied is defective or do not meet the specifications and are not in accordance with the drawings, data sheets or the terms of the order, BIDDER shall replace the material at no extra cost to the University. Failure on the part of BIDDER may prompt University to immediately replace the material at the cost of BIDDER.

• The entire responsibility of supply, warranty and the MOU execution lies with the BIDDER, on whom the Purchase-cum-Work Order is placed and with whom the MOU is signed.

3.3 Amendment of Bidding Documents:

3.3.1 At any time prior to the deadline for submission of bids, the University may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the bidding documents by amendment.

3.3.2 All prospective bidders who have received the bidding documents will be notified of the amendment in writing which will be binding on them.

3.3.3 In order to allow prospective bidders reasonable time within which to take the amendment into account in preparing their bids, the University, at its discretion may extend the deadline for the submission of bids.

3.4 Tender Bid Clarification

• To assist in the examination, evaluation and comparison of Bids, University may, at its discretion, ask the BIDDER for clarification of the same. The request for clarification and the response shall be in writing and no change in the price or substance of the Bid offer shall be sought, offered or permitted.

• A prospective BIDDER requiring any clarification of the Bid Document may notify University in writing or by fax, telex or email at the University mailing address as indicated in the Bid Document. No query from any BIDDER shall be entertained by University if it is received after 10 (Ten) days of issue of the tender notice.

• The preferred mode of communication shall be registered post/speed post.

3.5 Governing Language

• The bids prepared by the BIDDER and all correspondence and documents relating to the bids exchanged between the BIDDER and the University, shall be written in the English language, provided that any printed literature furnished by the BIDDER may be in any another language as long as the same is accompanied by an English translation in which case, for purposes of interpretation of the Bid, the English translation shall govern.
3.6 **Bid Validity**

- The Bid will remain valid for 180 days from the date of submission of the Bid

3.7 **Late Bids**

Any Bid received after the Bid due date and time prescribed in the Bid Document shall be rejected. Telegraphic/fax/E-mail offers whether sent directly or submitted by local agent in India will not be considered and shall be rejected.

3.8 **Modification and withdrawal of Bid Document**

The BIDDER shall not be allowed to modify or withdraw his Bid after the Bid submission even if the deadline for submission is not reached.

3.9 **Canvassing**

Any efforts by a BIDDER to influence University on Bid evaluation, Bid comparison or contract award decisions may result in the rejection of its Bid.

3.10 **Right to vary quantities at the time of award**

University reserves the right at the time of award of Contract to increase or decrease the quantity of Goods specified in the scope (in respect of each item of scope), without any change in unit price or other terms & conditions. Any variation in quantity will be mutually agreed upon by University and the BIDDER.

3.11 **Earnest Money Deposit**

The Bidder shall submit an Earnest Money Deposit (EMD) of **Rs. 2,25,000/- (Rupees Two Lac and Twenty Five Thousand Only)** along with the Bid, in the form of a Banker’s Cheque / Demand Draft drawn on any Nationalized Bank, in favor of —“The Comptroller, BAU, Sabour.”

3.14 **After successful furnishing, installation & decoration and handing over the party will be responsible for One year maintenance Free of Cost and will be providing warrantee / Guarantee on items as per recommendation of the manufacturer.**
4.0 Time Frame of the Work and Penalty due to late completion of works

4.1 The entire work has to be executed within a span of ______________ months. An extension for a maximum period of 3 months can be given, only if there are cogent reasons.

4.2 The work has to be carried out in a phased manner (Block wise) as per the directives of the University/Colleges.

4.3 Penalty (As per Bihar PWD provisions) would be imposed in case of late completion of the work.

5.0 Mode of Payment:

5.1 30% payment as advance on fabrication work may be made as per Rule 131Q of Bihar Financial Rule against Bank Guarantee.

5.2 5% of the bill amount would be kept as performance security and would be released after the end of defect liability period of 1 (One) Year from the handover/takeover of the premises.

5.4 Running payment shall be made for Civil and Electrical works on the basis of joint measurement in the phased manner as per University’s rule.

5.5 If any defect in the works is found after one year of handing over, the concerned firm would be liable to repair the same without any cost.

6.0 Others

6.1 Form 3 D will not be provided by the University.

6.2 Importing of any materials for the aforesaid work shall be the sole responsibility of the Firm.

6.3 Warranty of Electrical gadgets / equipments will be effective from the date of commissioning of the Operation Theatre and not from the date of supply.

6.4 All materials supplied and used will be as per bid document. Any deviation will not be acceptable.

6.5 The materials removed from the existing setup shall be the property of the BAU, Sabour and will be handed over to the University administration appropriately.

6.6 The firm will be responsible for the periodical disposal of building rubbish, Steel Sections and condemned materials from the work site & will dump them at the site specified by the University at their own cost.
**Evaluation criteria**

The details submitted by the bidders will be evaluated as per the criteria fixed by the tender opening committee. The committee’s decision would be final and all the bidders would be bound to follow it.

**OFFICER-IN-CHARGE, CENTRAL STORE (HQ)**
Chapter – 3: Schedule of Requirements

The schedule of requirement is enclosed in the annexure – 1 in which the rate should be submitted by the bidder.
Chapter – 4 : Specifications and allied Technical Details

SCOPE OF WORK

PLANNING, FURNISHING & INTERIOR DECORATION OF BUILDING LIKE LABORATORY, CLASS ROOM, AUDITORIUM, ETC. OF DIFFERENT COLLEGES UNDER BAU, SABOUR

Complete Planning and preparation of conceptual design and drawings with respect to interior designing/planning, finishing and furnishing work with following items as per requirement of the BAU, Sabour and/or its different units.

(i) Internal arrangement with details of all the floors as per requirement of user department etc.
(ii) Light weight partition walls and flooring Design at various levels.
(iii) HVAC, fire fighting, fire Intelligent detection system with P.A system of various areas etc.
(iv) Interior designing of Conference Room, Media rooms and other areas with provision of audio visual systems, stage lighting, stage curtains, etc
(v) Net working, intercom system as per latest technology for conference and Media Centre.
(vi) Interior planning of pantry, toilets and other areas to ensure barrier free environment.
(vii) False ceiling and acoustic treatment etc.
(viii) Internal public Health services and electrical installation work etc.
(ix) Signage system.
(x) Electrical Installation scheme along with type of luminaries/other gadgets required if any for lounge & media room, Media centre communication & electronics, Conference documentation printing & reproduction
(xi) Electrical Installation scheme along with type of luminaries/other gadgets required if any for studio, interview room, voice over room, Lounge area
(xii) Scheme for terrace lighting along with type of luminaries
(xiii) Security lighting/Façade lighting
(xiv) Lift. and internal and external Lighting and illumination work etc.
(xv) Any other provision/requirement as per the National Building Code (Latest addition).
(xvi) Landscaping of surrounding area sides with 1 mm. hard
Chapter – 5 : Price Schedule (to be utilised by the bidders for quoting their prices).

The price schedule is enclosed in the annexure – 1 in which the rate should be submitted by the bidder.
Chapter – 6: Contract/Tender Form

Tender document for Planning, Furnishing & Interior Decoration of different Building like Laboratory, Class Room, Auditorium etc. of different colleges under BAU, Sabour and its H.Q.

<table>
<thead>
<tr>
<th>BID REFERENCE</th>
<th>16/CS(HQ)/BAU, Sabour dt. 17/10/2017</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATE OF COMMENCEMENT OF SALE OF BIDDING DOCUMENT</td>
<td>18/10/2017</td>
</tr>
<tr>
<td>LAST DATE AND TIME FOR RECEIPT OF BIDS</td>
<td>07/11/2017 at 4.00 P.M.</td>
</tr>
</tbody>
</table>
| ADDRESS FOR COMMUNICATION | OFFICER –IN –CHARGE, CENTRAL STORE (HQ)  
Bihar Agricultural University, Sabour, Bhagalpur-813210 |
TENDER FORM  
(Techno commercial unpriced Bid)  
FOR PLANNING, FURNISHING & INTERIOR DECORATION OF BUILDINGS OF  
DIFFERENT COLLEGES UNDER BAU, SABOUR AND ITS H.Q.  

1. Name and full address of Tender ........................................................................................................
..........................................................................................................................................................
..........................................................................................................................................................
..........................................................................................................................................................
..........................................................................................................................................................

2. Address to : The Officer-In-Charge, Central Store (Headquarters), Bihar Agricultural University, Sabour, Bhagalpur – 813210


4. Tender fee ₹ 2000/- deposited vide demand draft No...........................dated.....................
of .....................................................................................(Name and address of Banker)

5. We...........................................................................................................(Name of Firm) agree to abide by all the terms & conditions as mentioned in (i) : Re-Tender Notice No. 16 CS(HQ)/BAU Sabour/2017 dated: 17 /10/2017.

6. We have enclosed Earnest Money ₹ 2,25,000/- (Rupee Two lac and Twenty Five Thousand only) in form of demand draft No...........................dated.....................of.....................................................................................(Name of Banker) in favour of The Comptroller, BAU Sabour.

7. All tender documents are complete in all respect and have been duly signed.

Yours faithfully,

(Signature of bidder)
Dated this day of ________

Address:........................................................................................................
........................................................................................................
........................................................................................................

18
TENDER FORM

(Price Bid)

FOR PLANNING, FURNISHING AND INTERIOR DECORATION

To
The Officer-in-Charge, Central Store
Bihar Agricultural University, Sabour,
Bhagalpur – 813210

Ref: NIT No.16 /CS(HQ)/BAU, Sabour  Dated: 17/10/2017.

Sir,

Having examined the bidding documents and having submitted the techno commercial unpriced bid for the same, we, the undersigned, hereby submit the priced bid for supply of goods and services as per the schedule of requirements and in conformity with the said bidding documents.

We hereby offer to supply the Goods/Services at the prices and rates mentioned in the Annexure-1.

We do hereby undertake, that, in the event of acceptance of our bid, the supply of Goods/Services shall be made as stipulated in the schedule of requirement and that we shall perform all the incidental services.

The prices quoted are inclusive of all charges net E.O.R University/units. We enclose herewith the complete Financial Bid as required by you. This includes:
Price Schedule as per schedule of requirements (Annexure -1).
Statement of deviations from financial terms and conditions.
We agree to abide by our offer for a period of 180 (One Hundred and Eighty) days from the date fixed for opening of the bid documents and that we shall remain bound by a communication of acceptance within that time.

We have carefully read and understood the terms and conditions of the bid document and we do hereby undertake to supply as per these terms and conditions. The Financial Deviations are only those mentioned in the statement of deviations from financial terms and conditions.

Certified that the bidder is:
A sole proprietorship firm and the person signing the bid document is the sole proprietor/ constituted attorney of sole proprietor;

Or
A partnership firm, and the person signing the bid document is a partner of the firm and he has authority to refer to arbitration disputes concerning the business of the partnership by virtue of the partnership agreement/by virtue of general power of attorney,

Or
A company and the person signing the bid document is the constituted attorney.
(NOTE: Delete whatever is not applicable. All corrections/deletions should invariably be duly attested by the person authorised to sign the bid document.)

We do hereby undertake, that, until a formal notification of award, this bid, together with your written acceptance thereof, shall constitute a binding contract between us.

Dated this day of_______
Details of enclosures

Yours faithfully,

(Signature of bidder)

Dated this day of _________
Chapter – 7: Other Standard Forms, if any, to be utilised by the purchaser and the bidders
UNDEARTAKING

WE HEREBY UNDEARTAKE THE FOLLOWING:

1. We will not sell the product (s) to other institutions, bodies and also in the market on the rates less than those quoted by us to the University.

2. The goods on which GST has been charged are not exempted for payment of GST Act or the rules made there under and the amount mentioned on account of GST on goods is not more than what is payable under the provisions of the relevant Act or Rules made there under.

3. The rate of GST mentioned in the quotation is in accordance with the provisions of the rules and the same is payable to the GST Authorities in respect of the stores.

4. The goods / Stores / articles offered shall be of the best quality and workmanship and their supply will be strictly in accordance with the technical specifications and particulars as detailed in the quotation.

5. The information furnished by us in the quotation is true and correct to the best of our knowledge and belief.

6. We have read and understood the rules, regulations, terms and conditions and agree to abide by them.

Authorized Signatory
(Seal)
Following proforma should be filled in and duly signed by the firm and sent along with the quotation. (Please refer to the detailed instructions/notes before filling this proforma).

1. Validity of the offer

2. Approximate Delivery Period

3. (a) Whether rates have been quoted F.O.R. site and covers packing forwarding and insurance charges. : YES / NO
   (b) If not, please mention the same

4. (a) Whether the prices are inclusive of GST and other taxes. : YES / NO
   (b) If not, kindly specify the amount / rate

5. If the GST is charged extra, declaration for charging GST correctly attached. : YES / NO

6. (a) Whether supply will be made directly or through any Local / Regional / Authorized Dealer / Stockist : Directly / Stockist / Authorized Dealer
   (b) If through a Stockist / Dealer :
      (i) Name and full address of the Party
      (ii) Whether the order to be placed with the : Principal / Stockist / Dealer
      (iii) Who will raise the bill : Principal / Stockist / Dealer
      (iv) Cheques will be drawn in favour of : Principal / Stockist / Dealer
      (v) Whether any Delivery, Packing and Forwarding Charges will be payable to local Stockist/Dealer : (Please specify the amount/percentage etc, if any)

7. Whether any GST is payable on the items. : YES / NO
   If yes, indicate the amount / percentage. : ...........................................%

8. Whether any installation charges are payable extra. : YES / NO
   If yes, amount to be specified. : ..............................................................

9. Whether any discount for educational institution offered on the printed price list of the manufacturer. : YES / NO
   Please mention the amount / percentage. : ..............................................................

10. Whether the product is on DGS &D/D.I. Rate contract. : YES / NO
    If yes, please enclose a photocopy of the same.

11. Whether the product bears I.S.I. Mark. : YES / NO
    If yes, please mention the I.S.I. License no. : ..............................................................
12. (a) Whether the firm is GST payer. : YES / NO
   If yes, please mention the GST Numbers. : ............................................................

   (b) Whether the Local Dealer(s) is / are GST payer(s) : YES / NO
       If yes, please mention the GST numbers of each : ..............................................

13. Whether printed / authenticated price list of the Firm’s Products and Catalogue etc. enclosed. : YES / NO

Signature of the Authorized Official with Seal
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of items</th>
<th>Rate Per Unit/Per Square Feet</th>
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</thead>
<tbody>
<tr>
<td>1.0</td>
<td>FALSE CEILING</td>
<td></td>
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<tr>
<td>1.1</td>
<td><strong>False Ceiling: Acoustic Ceiling:</strong> P/F of 2’ X 2’ Acoustic ceiling tile with micro look Silhouette channels. Tile to be Prime Dune of Armstrong make. Shall be white in color with providing, of Compound board suspended Ceiling which are fixed with dash fasteners; in curvilinear design. With single or two layers of 12mm Compound board, screw-fixed to the underside of the suspension grid consisting of intermediate channels, along with required Matching Ceiling light of good brand (Philips/Osram/Orpat or equivalent) with complete accessories of Havel's/Crabtree or equivalent</td>
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<tr>
<td>1.2</td>
<td><strong>Acoustic Cieling:</strong> P/F Armstrong microlook edge ceiling tiles with glass fiber substrate of size 600mmx600mmx15mm having NRC 0.90, Light reflectance of &gt;80% (WT), thermal conductivity k = 0.040 W/m0K, Humidity Resistance of 95% RH, and having Fire Performance CLASS 1 (BS 476). The tile shall have a front facing of white scrim tissue of 180 gsm and 45 gsm formaldehyde free fiber tissue backing with Armstrong stitched trulok 15 exposed grid system with T section flages, white colour 15mm grid to comprise main runners spaced at 1200mm centre to centre securely fixed to structural soffit by approved hangers at 1200mm maximum centre to centre and not more than 150mm from spliced joints. (wiring light fitting and other accessories excluded)</td>
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<tr>
<td>1.3</td>
<td><strong>False Ceiling:</strong> P/F of Compound Designer Ceiling: Providing of Compound board suspended Ceiling which are fixed with dash fasteners; in curvilinear design. With single layers or multiplier layer as desired of 12mm Compound board, screw-fixed to the underside of the suspension grid consisting of intermediate channels, wiring, along with required matching light of good brand (Philips/Osram/Orpat or equivalent) with complete accessories of Havel's/Crabtree or equivalent</td>
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</tr>
<tr>
<td>1.4</td>
<td><strong>False Ceiling:</strong> P/F of Commercial Ceiling of commercial 12mm thk ply base for Laminated ceiling with supporting framework. along with required Matching Ceiling light of good brand (Philips/Osram/Orpat or equivalent) with complete accessories of Havel's/Crabtree or equivalent</td>
<td></td>
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<tr>
<td>1.5</td>
<td>Pelmet: Providing of pelmet made in 19 mm thk (12&quot;X6&quot; SIZE) commercial board as required</td>
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<td>S. No.</td>
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<tr>
<td><strong>2.0</strong></td>
<td><strong>PARTITION WALL</strong></td>
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<tr>
<td>2.1</td>
<td>P/F of Gypsum/boral board partitions with board on both side: Providing and fixing full / med. height metal stud single layer best quality Gypsum/boral board partitions (both side) on 0.55mm x 32 mm metal channel section, 0.55mm x 48mm x (36-34mm) stud sections at 610mm c/c complete with 2&quot;x2&quot; timber reinforcement as an where required with all accessories as required. All necessary openings, fixing to masonry walls and connecting to glass partitions and door frames including provision for outlet boxes &amp; necessary conduits for electrical, telephone &amp; data in proper plumb &amp; alignment. The joints between the boards to be taped and filled with joining compound.</td>
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<tr>
<td>2.2</td>
<td>P/F and fixing partition in at back of stage wall using 150 mm thick metal stud partition as per manufacturers specification complete in all respects including providing and fixing 2&quot;x2&quot; wooden frame of soft dried wood with 10 mm treated plywood of good brand and nailed on it and 1 mm thk laminate pasted on it as per detailed drgs including cutting for light fixtures, conduiting etc. The rates quoted should include the cost of any support systems required etc complete in all respects.</td>
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<tr>
<td><strong>3.0</strong></td>
<td><strong>WALL PANELLING</strong></td>
<td></td>
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<tr>
<td>3.1</td>
<td><strong>Laminate Panelling</strong> : P/F of Wall paneling on soft wood frame of 22&quot;x 27&quot; (miranthi / sembal) or as per site requirement of all walls up to the height of ceiling of 1mm thk Laminate of Safedecore/Durian/Milton/Marino/Equivalent with 10mm thk commercial Ply surfaces of supreme/Dumex/Safron/Equivalent with ISO Certified as required with suitable adhesive &amp; ensuring no air bubbles, whether pasting on flat or curved surfaces with or without grooves with edges also duly laminated with all due care.</td>
<td></td>
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<tr>
<td>3.2</td>
<td><strong>Laminate Panelling</strong> : P/F of Wall paneling on soft wood frame of 22&quot;x 27&quot; (miranthi / sembal) or as per site requirement of all walls up to the height of ceiling of 1mm thk Laminate of Safedecore/Durian/Milton/Marino/Equivalent with 10mm thk Termite/Boral treated/water proofPly surfaces of Kitply/Green/Centuray/Equivalent brand as required with suitable adhesive &amp; ensuring no air bubbles, whether pasting on flat or curved surfaces with or without grooves with edges also duly laminated with all due care.</td>
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<td>S. No.</td>
<td>Description of items</td>
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<tr>
<td>3.3</td>
<td><strong>Veneer Paneling</strong>: P/F of Wall paneling on soft wood frame of 22&quot; x 27&quot; (miranthi / sembal) or as per site requirement of all walls up to the height of ceiling of 4mm natural teak veneer of mint/Safron/Dumex/Equivalent on thick commercial ply surface of 10mm of Mint/Safron/Dumex/Supreme/Equivalent ISO Certified as required with suitable adhesive, whether pasting on flat or curved surface with or without grooves duly finished, with duly melamine polish coat on sealer as required</td>
<td></td>
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<tr>
<td>3.4</td>
<td><strong>Veneer Paneling</strong>: P/F of Wall paneling on soft wood frame of 22&quot; x 27&quot; (miranthi / sembal) or as per site requirement of all walls up to the height of ceiling of 4mm natural teak veneer of Green/Century/Sonear(Donear)/Legend/Debonair/Equivalent on thick treated water proof, termite proof , Boral Proof ply surface of 10mm of Green/Kiptly/Century/Oxford/Summi/Zorden/equivalent as required with suitable adhesive, whether pasting on flat or curved surface with or without grooves duly finished, with duly melamine polish coat on sealer as required</td>
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<tr>
<td>3.5</td>
<td><strong>Fabric Panelling</strong> : P/F of Fabric mounted pin-board panels using 1/2&quot; tack board surface on 1/4&quot; ply cladding duly covered in suitable fabric, Tack board to have suitable 1/2&quot; x 1/4&quot; timber beading under fabric for crisp edge.</td>
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<tr>
<td>3.6</td>
<td><strong>Wall Paper</strong>: P/F of Indian wall paper on wall / ceiling as &amp; where required including wall putty</td>
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<tr>
<td>3.7</td>
<td><strong>Wall Paper</strong>: P/F of Imported wall paper on wall / ceiling as &amp; where required including wall putty</td>
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<tr>
<td>3.8</td>
<td>Prepare surface by cleaning and puttying wherever necessary, applying interior grade texture painting of approved shade and colour and finishing neatly for interior faces of walls at places</td>
<td></td>
</tr>
<tr>
<td>3.9</td>
<td>Prepare surface by cleaning and puttying &amp; punning over with chicken mess if required wherever necessary, applying interior grade enamel painting of approved shade and colour of Asian/Berger/or Equivalent required no of coats &amp; type of primer up to the finishing</td>
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<tr>
<td>5.1</td>
<td><strong>Frame Less Glass Partition Wall</strong>: Providing of frameless glass fixed panels with 12mm thick tempered / toughened float glass, set within 15mm Aluminium C-Channels, glass and plumb finishe with adjoining exposed glass.</td>
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<tr>
<td>S. No.</td>
<td>Description of items</td>
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<tr>
<td>5.2</td>
<td>Providing of 6mm float glass mirror on 1/2” BWP backing with 3” box behind with exposed polished edges fitted with 1” dia SS stud fittings as reqd in select areas &amp; toilets.</td>
<td></td>
</tr>
<tr>
<td>5.3</td>
<td><strong>ACP CLADDING:</strong> Providing and fixing Aluminum composite paneling using 4mm thick (Aluminum sheet shall be coated with PVDF Coating) of approved make. The Aluminum composite panels are fixed to AL Box section 50 x 50mm or as per site requirement. The panel shall be fixed using self-tapping screw in the shape of 610x1220 mm rectangle size and joints shall be sealed with coloured pigment sealant (colour as per choice) and the panel shall be waterproof. The thickness of Aluminum sheet in the sandwiched sheet shall be 0.50 mm.</td>
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<td>5.4</td>
<td><strong>STRUCTURAL GLAZING:</strong> Providing &amp; fixing Aluminum Structural Glazing work with reflective type glass using Aluminum extruders 64 mm X 64 mm X 2mm (with flange of 10 mm). This box section will form both the mullion &amp; the transom of Structural glazing. The glass shall be minimum 5mm reflective type of approved make &amp; duly toughened. This glass will be bonded with the panel frames by means of structural silicone bonding wherever required using appropriate sealants i.e., G.E. Silicone. Sheet metal screws for bracket joining, wooden screws for erecting of frame &amp; anchor fasteners for fixing on wall or slab.</td>
<td></td>
</tr>
<tr>
<td>6.0</td>
<td><strong>DOORS / SHUTTERS</strong></td>
<td>Rate Per Unit/(In Square Feet)</td>
</tr>
<tr>
<td>6.1</td>
<td>Providing of frameless glazed door shutters using 12 mm thick toughened glass incl stainless steel pivot with clamps at top, patch fittings, floor springs, stainless steel handles and locking mechanism complete as per design &amp; detailed drawings.</td>
<td></td>
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<tr>
<td></td>
<td>i) DG-1 (Double Leaf Glazed Door) 1800 mm wide &amp; 2400 mm ht.</td>
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<tr>
<td></td>
<td>ii) DG-1 (Double Leaf Glazed Door) 1200 mm wide &amp; 2400 mm ht.</td>
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<tr>
<td></td>
<td>ii) DG-2 (Single Leaf Glazed Door) 900 mm wide &amp; 2400 mm ht.</td>
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<tr>
<td>6.2</td>
<td>Providing and fixing of Solid doors shutters of 38mm thick solid core shutters and door frames with 1mm thick laminate of approved make shade as per design, having high quality stainless steel door handle, lock, complete in all respects.</td>
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<tr>
<td>S No</td>
<td>Description of items</td>
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<tr>
<td>i)</td>
<td>DS-1 (Single Leaf Solid Door) 900 mm wide &amp; 2400 mm ht.</td>
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<tr>
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<tr>
<td>6.3</td>
<td>Providing of Laminated storage made in 19mm thk post formed laminated shutters with bull nose edge with all SS snap hinges, 6&quot; SS handles, locks etc as reqd. Depth of storage between 15&quot;-18&quot; as required (for files, folders coats etc) with select shelves duly adjustable as reqd on metal stud. Teak / maple edge margin to all edges, incl laminated skirting in approved shade with all hardware, magnetic catchers, tower bolts, etc.</td>
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<tr>
<td>i)</td>
<td>Low height Storage 15&quot; - 18&quot; deep</td>
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<tr>
<td>ii)</td>
<td>Low height Storage 20&quot; deep</td>
<td></td>
</tr>
<tr>
<td>iii)</td>
<td>Medium height storage 15&quot;-18&quot; deep</td>
<td></td>
</tr>
<tr>
<td>iv)</td>
<td>Full height storage 15&quot;-18&quot; deep</td>
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<tr>
<td>v)</td>
<td>Over head storage 15&quot; deep</td>
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<tr>
<td>6.4</td>
<td>Providing of Laminated Full height library storage with T.V. cabinet made in 19mm thk floated glass shutters with all SS snap hinges, 6&quot; SS handles, locks etc as reqd. Shutter size varies between 15&quot;-18&quot; w 30&quot;-54&quot; h. Depth of storage between 18&quot;-32&quot; as required.</td>
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<tr>
<td>7.0</td>
<td>INTERNAL SIGNAGES</td>
<td></td>
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<tr>
<td>7.1</td>
<td>Providing of Floor Signages 2'x2' on 1/2&quot; thick frosted acrylic on SS spacers</td>
<td></td>
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<tr>
<td>7.2</td>
<td>Providing of Wall Signages 18&quot;x22&quot; on SS 304 grade of 2mm thick embossed on SS spacers</td>
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<tr>
<td>7.3</td>
<td>Providing of Toilet Door signages on 6&quot;x6&quot; acrylic 1/2&quot; sheets with stickers &amp; ss spacers</td>
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<tr>
<td>7.4</td>
<td>Providing of Individual door signage with etching film 1'x1' each</td>
<td></td>
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<tr>
<td>7.5</td>
<td>Providing of &quot; No smoking signage&quot; signage on 4&quot;x4&quot; acrylic panels with red imported vinyl reverse cut, as required on ss bolts</td>
<td></td>
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</tbody>
</table>
7.6 Providing of "Fire Exit" signage on 4"x8" acrylic panels in glow-sign & green film with directional indications as directed.

<table>
<thead>
<tr>
<th>S. No.</th>
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<tbody>
<tr>
<td>8.0 CARPET</td>
<td></td>
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<tr>
<td>8.1 Providing and fixing 26 oz. loop pile carpet of approved make with precision tufted loop piles and underlay of 8mm thick PU foam fixed to existing levelled floor with synthetic adhesives.</td>
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<tr>
<td>8.2 Graphic loop pile fiber PP cabled 30% + PPBCF70% carpet 5mm thick 820 gm/mt sq.with primary backing of woven poly propelene under 3.0 kv static control, solution dyed and underlay of PU foam fixed to existing levelled floor with synthetic adhesivs.</td>
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<tr>
<td>8.3 Structured Graphic loop pile fiber cabled Polypropelene BCF carpet 5mm thick 850 gm/mt sq.with primary backing of woven poly propelene under 3.0 kv static control, solution dyed and underlay of PU foam fixed to existing levelled floor with synthetic adhesivs.</td>
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<tr>
<td>8.4 Level loop pile fiber PP BCF carpet4. 5mm thick 735 gm/mt sq.with primary backing of woven poly propelene under 3.0 kv static control, solution dyed and underlay of PU foam fixed to existing levelled floor with synthetic adhesivs.</td>
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<tr>
<td>8.5 Cut pile fiber 100% PP carpet 8mm thick 900gm/mt sq.with primary backing of woven poly propelene anti static control, solution dyed and underlay of PU foam fixed to existing levelled floor with synthetic adhesivs.</td>
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<tr>
<td>8.6 Providing of Metafex Carpet</td>
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<tr>
<td>9.0 FLOORING</td>
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<tr>
<td>9.1 Wood Flooring Material: Providing of Imported quality wood flooring 5mm thick AC 3 Class 23/31 lying on 2mm, thick foam to resist moister , Heat Resistant, fade resistant, stain resistant, hygienic &amp;easy to clean and resistant to common house hold chemicals</td>
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<tr>
<td>9.2 Wood Flooring Material :Providing of Imported quality hard HDF core board , 8mm thick AC 4 standered lying on 2mm, thick foam to resist moister , Heat Resistant, fade resistant, stain resistant, hygienic &amp;easy to clean and resistant to common house hold chemicals</td>
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<tr>
<td>9.3</td>
<td><strong>Boen Sports Flooring</strong>: Providing and fixing Boen Sports flooring of Boflex range complete as per manufacturers specifications of 28 mm thickness. The marking of badminton coats shall also be made on the flooring using a permanent paint finish and the rates quoted shall also include the cost of applying 2 coats of lacquer finish after completion of laying. The rates quoted by the contractor shall be complete in all respects and nothing extra shall be payable.</td>
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<tr>
<td>9.4</td>
<td><strong>Motorised Rolling Shutter</strong>: Providing &amp; fixing motorised Rolling Shutters behind curtain wall including fixing of looppile carpet &amp; 2mm polyurethane sheet in desired shade on the face of the shutter by using rivets/steel roods etc complete for full functioning of the rolling shutter. The shutter shall be fully motorised by using relevant motor to take the load of the shutter including the carpet etc. The shutter opening and closing shall be automated to include rolling up &amp; down of shutter individually or as group together complete in all respects.</td>
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<tr>
<td>9.5</td>
<td><strong>Poly Vinyl Homogenous XLPU Flooring</strong>: Attractive high high performance floorcovering with polyurethane reinforcement for low maintenance police free, sustainable dry slip resistance suitable for caster chairs.</td>
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<tr>
<td>9.6</td>
<td><strong>Poly Vinyl Homogeneous Classic PUR Flooring</strong>: Attractive high performance floorcovering with polyurethane reinforcement for low maintenance police free, sustainable dry slip resistance which accumulate static charges above 2kv and is classified as antistatic suitable for caster chairs recommended for heavy traffic areas.</td>
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<td>9.7</td>
<td><strong>Vinyl Flooring FX</strong>: For heavy traffic areas that require a hardwearing floorcovering which is attractive, modern &amp; easy to maintain slip resistance, chemical resistance, abrasion resistance suitable for caster chairs.</td>
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<tr>
<td>9.8</td>
<td><strong>Vinyl Flooring</strong></td>
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<tr>
<td>10.0</td>
<td><strong>ALUMINIUM DOOR &amp; WINDOW</strong></td>
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<td>S. No.</td>
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<tr>
<td>10.1</td>
<td>P/F of Door &amp; window of anodized fine quality aluminum of Jindal or equivalent Dia 62.5x37.5mm of horizontal section 112.5x43.75mm bottom section and 43.75x43.75 vertical section with single door fixed at one end with glass of 6mm and boards with flooring spring, key &amp; lock facility</td>
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<tr>
<td>10.2</td>
<td>P/F of Double Door of anodized fine quality aluminum of Jindal or equivalent Dia 62.5x37.5mm of horizontal section 112.5x43.75mm bottom section and 43.75x43.75 vertical section or as per site requirement with Double door with glass of 6mm and boards with flooring spring, key &amp; lock facility</td>
<td>Rate Per Unit(In Square Feet)</td>
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<td></td>
<td>P/F of Door &amp; window of anodized fine quality aluminum of Jindal or equivalent in C &amp; Z Chanel with single &amp; Double Door with glass of 6mm</td>
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<tr>
<td>10.3</td>
<td>P/F Sliding Window 1.5mm thick (16 Gauge) of anodized fine quality aluminum of Jindal or equivalent in square E section fine grooved with 5mm glass to be toughened anti glare and complete in all respect</td>
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<td></td>
<td>Add Extra for Glass of 6mm for window &amp; steel Jali for window</td>
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<tr>
<td>10.4</td>
<td>Add Extra for powder coaed aluminium section to above</td>
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<td>10.5</td>
<td>Add Extra for tinted glass to above</td>
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<tr>
<td>10.6</td>
<td>P/F stainless steel railing with 2.5&quot; hand rail pipe of 16 gauge thk and 1.50&quot; dia vertical ballustrade of 16 gauge thk with 12mm thick toughened glass with attached pattern fixed to vertical ballustrade with stainless steel serios etc. Complete in all respects as per architectural drawings entire stainless steel shall be of 304 grade in Brush painting finish with no welding anywhere.</td>
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<tr>
<td>11.0</td>
<td>PODIUM</td>
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<tr>
<td>11.1</td>
<td>Providing of Acrylic Podium Lectern Podium Acrylic with light &amp; provision of Mic (HxWxL) : 42&quot;x 16&quot;x 22&quot;</td>
<td></td>
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<tr>
<td>12.0</td>
<td>BLINDS</td>
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</table>
### Vertical Blinds: Providing of Good quality Vertical blends of 100mm width mounted on a hot dipped Galvanized flanges which shall be powder coated white Mac/Deck/Vista

### Roller Blinds: Providing of Good quality Roller Blinds on a hot dipped Galvanized flanges which shall be powder coated Mac/Deck/Vista

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<tr>
<td>1</td>
<td>Specification For Sound &amp; Video System-All wiring for the Audio &amp; video system shall be run through conduits which shall be supported independently from the trusses by means of cable trays.</td>
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<td></td>
<td><strong>Supply and erection of main stage two way full range speaker dual 15” and horn</strong></td>
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<tr>
<td>2</td>
<td>* Lightweight and high-power * Dual 15” Differential Drive® woofers for high-power capacity and extended LF performance * 1.5” annular polymer diaphragm compression driver Specifications: Frequency Range (-10 dB) = 35 Hz - 16 kHz, Frequency Response (±3 dB) = 45 Hz - 12 kHz, Coverage Pattern = 90° x 50° nominal Crossover Mode = Passive, Crossover Frequency = 1.8 kHz, Power Rating = 500 Watt, Maximum SPL = 129 dB SPL continuous (135 dB SPL peak), System Sensitivity (1w @ 1m) = 100 dB SPL.</td>
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<td></td>
<td><strong>Supply and erection of stage monitor</strong></td>
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<tr>
<td>3</td>
<td>* 12” low frequency driver with a 64 mm (2½ in) diameter edge wound ribbon voice coil which provides more cross-sectional wire area in the voice coil gap than round wire designs, for greater efficiency and power handling. * Sonic Guard for protecting the high frequency driver from excess power without interrupting the performance. * Non-resonant, all-steel handles are used. Specifications: System Type = 12” 2-way, stage monitor, Frequency Range (-10 dB) = 60 Hz - 16 kHz, Frequency Response (±3 dB) = 70 Hz - 12 kHz, Sensitivity (1w/1m) = 99 dB SPL, Nominal Impedance = 8 ohm, Power Capacity = 250 watts, Peak Power Capacity = 1000 watts, Recommended Amplifier Power = 250 watts @ 8 ohm, Maximum SPL = 129 dB, Nominal Dispersion = 90° x 50° Crossover Frequency = 1.8 kHz, Grille = 18-gauge, powder-coated steel</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Speaker for side fill &amp; balcony area</strong></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Two way full range speaker 15” LF driver with horn. · Vocal perfection and dynamic music · Protection- guard technology · Comes with grill for more safety Specifications: Frequency Range =60Hz-16kHz, Frequency Response=70Hz-12kHz, Sensitivity = 99dbSpl, Nominal Impedance=8 Ohms Power capacity = 250 Watts, Peak Power Capacity= 1000Watts, Maximum SPL=129db, Nominal Dispersion=90x50 Crossover Frequency =1.8kHz, Grille =18gauge,coated steel</td>
<td></td>
</tr>
</tbody>
</table>

| 5 | Amplifier for Side fill & balcony area speaker

* Housed in a rugged, all-steel 2U chassis. * Efficient forced-air fan prevents excessive thermal build up. * Electronically balanced XLR inputs: touch-proof binding post and speakon outputs. * Level control and LED indication for each channel clip, power and fault conditions. Specifications: Rated output with both channels driven with 0.5% THD (at 1 kHz) in Dual model 8 ohm bridges 1,600 watts, 8 ohm dual 500 watts per channel, 4 ohm dual 800 watts per channel, Input sensitivity for rated output at 4 ohms = 1.25 V Frequency Response at 1 watt, 20 Hz to 20 kHz = +0dB,-0.8 dB Signal to Noise Ratio below rated power (20 Hz to 20 kHz) A-weighted, below rated power = >100 dB, No weighting, below rated power = >95 dB, Total Harmonic Distortion at full rated power from 20 Hz to 1 kHz = <0.5% Inter modulation Distortion (60 Hz and 7 kHz at 4:1, from full rated output to –40 dB)= <0.3%, Damping Factor (8 ohms) 10 to 400 Hz = >200, Crosstalk (below rated power), at 1 kHz = –75 dB, at 20 kHz = –50 dB, Input impedance (nominal), Balanced = 20kilohms, Unbalanced = 10kilohms, Load impedance, Stereo = 4-8 ohms per channel Bridge mono = 4-8 ohms, AC Line Voltages and Frequencies Av Make— JBL Crown XLS 802/ |

| 6 | Amplifier for main stage speaker

* Housed in a rugged, all-steel 2U chassis. * Efficient forced-air fan prevents excessive thermal buildup. * Electronically balanced XLR inputs: touch-proof binding post and speakon outputs. * Level control and LED indication for each channel clip, power and fault conditions. Specifications: Rated output with both channels driven with 0.5% THD (at 1 kHz) in Dual model 8 ohm bridges 1,600 watts 8 ohm dual 500 watts per channel 4 ohm dual 800 watts per channel Input sensitivity for rated output at 4 ohms = 1.25 V Frequency Response at 1 watt, 20 Hz to 20 kHz = +0dB,-0.8 dB Signal to Noise Ratio below rated power (20 Hz to 20 kHz) A-weighted, below rated power = >100 dB No weighting, below rated power = >95 dB Total Harmonic Distortion at full rated power from 20 Hz to 1 kHz = <0.5% Inter modulation Distortion (60 Hz and 7 kHz at 4:1, from full rated output to –40 dB)= <0.3%. Damping Factor (8 ohms) 10 to 400 Hz = >200 Crosstalk (below rated power) at 1 kHz = –75 dB at 20 kHz = –50 dB Input impedance (nominal) Balanced = 20kilohms Unbalanced = 10kilohms Load impedance Stereo = 4-8 ohms per channel Bridge mono = 4-8 ohms AC Line Voltages and Frequencies Available (±10%) 120VAC,60Hz 100VAC,50/60Hz 220VAC,50Hz 230 VAC,50 H
<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of items</th>
<th>Rate Per Unit/Per Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td><strong>Supply and erection of amplifiers for stage monitor</strong>&lt;br&gt; * Housed in a rugged, all-steel 2U chassis. * Efficient forced-air fan prevents excessive thermal build up. * Electronically balanced XLR inputs: touch-proof binding post and speak on outputs. * Level control and LED indication for each channel clip, power and fault conditions. Specifications: Rated output with both channels driven with 0.5% THD (at 1 kHz) in Dual model 8 ohm bridges 900 watts 8 ohm dual 300 watts per channel 4 ohm dual 450 watts per channel Input sensitivity for rated output at 4 ohms = 1.25 V Frequency Response at 1 watt, 20 Hz to 20 kHz = +0dB, -0.8 dB Signal to Noise Ratio below rated power (20 Hz to 20 kHz) A-weighted, below rated power = &gt;100 dB No weighting, below rated power = &gt;95 dB Total Harmonic Distortion at full rated power from 20 Hz to 1 kHz = &lt;0.5% Inter modulation Distortion (60 Hz and 7 kHz at 4:1, from full rated output to -40 dB)= &lt;0.3%. Damping Factor (8 ohms) 10 to 400 Hz = &gt;200 Crosstalk (below rated power) at 1 kHz = -75 dB at 20 kHz = -50 dB Input impedance (nominal) Balanced = 20kilohms Unbalanced = 10kilohms Load impedance Stereo = 4-8 ohms per channel Bridge mono = 4-8 ohms AC Line Voltages and Frequencies Available (±10%) 120VAC,60Hz 100VAC,50/60Hz 220VAC,50Hz 230 VAC,50 Hz</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td><strong>Supply and erection of Condenser gooseneck microphone for podium</strong>&lt;br&gt; Cardioid polar pattern • 30 or 50 cm (12 or 20 in.) long • 125° pickup angle • Especially suited for inexperienced talkers • Connects easily via XLR connector Specifications: Polar pattern= cardioid Frequency range= 70 to 18,000 Hz Sensitivity: 18 mV/PA = -35 dB Max. SPL for 1% THD = 125 dB Equivalent noise level = 21 dB-A Signal/noise ratio (A-weighted) = 73 dB Bass roll off filter = 250 Hz, -10 dB at 50 Hz Electrical impedance = ≤ 600 ohms Recommended load impedance = ≥ 2,000 ohms Power requirement = 9 to 52V phantom power to DIN 45596 (DPA adapter integrated) Current consumption = ≤3 mA Connector = 3-pin male XLR Finish = matte dark grey <strong>Model AKG / Audio technica /Shure/equivalent</strong></td>
<td></td>
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</tbody>
</table>
### Supply and erection of wireless presenter microphone

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of items</th>
<th>Rate Per Unit/Per Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>* Body pack transmitter with rugged plastic body * Professional mini XLR input for variety of applications * Ease of use * Operates for more than 35 hours off the same set of AA size batteries. * Extremely low operating cost Specifications: Carrier frequency range = 710 MHz to 865 MHz Modulation = FM Audio bandwidth = 40 to 20,000 Hz THD = 0.8% typ. Signal/noise ratio = 108 dB (A) typ. Power requirement = 2 x 1.5 V AA size batteries RF output = 10 mW typ. (ERP) Battery life = &gt;35 hours (dry batteries)</td>
<td></td>
</tr>
</tbody>
</table>

### Supply and erection of wireless handheld microphone

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of items</th>
<th>Rate Per Unit/Per Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>* Handheld transmitter microphone element for brilliant, uncolored vocal reproduction * Controls include on/off/mute switch and a battery status indicator for ease of use * Operates for more than 35 hours off the same set of AA size batteries. * Lowest operating cost in its class Specifications: Carrier frequency range = 660 MHz to 865 MHz Modulation = FM Audio bandwidth = 65 to 20,000 Hz THD = 0.8% typ. Signal/noise ratio = 110 dB (A) typ. Power requirement = 2 x 1.5 V AA size batteries RF output = 10 mW (ERP)</td>
<td></td>
</tr>
</tbody>
</table>

### Supply and erection of wired vocal microphone

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of items</th>
<th>Rate Per Unit/Per Square Feet</th>
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</thead>
<tbody>
<tr>
<td>11</td>
<td>* Dynamic vocal microphone * Choice of three output modules * Varimotion diaphragm * Spring steel wire-mesh grill * Ergonomically optimized triangular body * Double-action shock mount Specifications: Polar pattern = cardioid, Frequency range = 70 to 20,000 Hz, at 1 cm (0.4 in.) = 20 to 18,000 Hz, /Pa (-52 dBV), Max. SPL = 147/156 dB Equivalent noise level = 19 dB-A, Impedance = ≤600 ohms, Recommended load impedance = ≥2000 ohms, Connector = 3-pin XLR, Finish = matte black</td>
<td></td>
</tr>
</tbody>
</table>

### Supply and erection of instrument microphone

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of items</th>
<th>Rate Per Unit/Per Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>* Extremely rugged instrument/vocal microphone * Highly efficient windscreen * Frequency response optimized for intelligibility * High performance varimotion diaphragm Specifications: Polar pattern = cardioid Frequency range = 60 to 20,000 Hz at 1 cm (0.4 in.) = 20 to 20,000 Hz Sensitivity = 2.5 mV/Pa (-52 dBV) Max. SPL for 1% / 3% THD = 146/156 dB Equivalent noise level = 22 dB-A Impedance = ≤600 ohms Recommended load impedance = ≥2000 ohms Connector = 3-pin XLR Finish = matte black</td>
<td></td>
</tr>
</tbody>
</table>

19”/22u floor mounting equipment steel rack
* Aluminium frame structure powder coated deep grey RAL-7037 * Panel made of steel & powder coated light grey RAL -7035 * Cable managers/cable channel * AC main channel * Earth continuity kit * Castors with brakes * Equipment mounting hardware * Rear steel door * Robust frame structure with ventilated top/bottom panel * Glass front door * Adjustable 19” panel mounts at front/rear * Side panels with slam latches * Rear wall mount section hinged to the frame structure * 22U*600mm*650mm

### Supply and erection of the 16 channel live mixer

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of items</th>
<th>Rate Per Unit/Per Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>16 mic / line in put mixer with lexicon effects, 26 inputs, 16 mono channels with high quality preamp, 4 stereo returns 48 v phantom power 3-band EQ with swept mid, 4-bus with sub-group routable to mix, individually switchable for pre-or post-fade operation, 3 aux sends for effects or monitors. Specifications: Noise Measured RMS, 22Hz to 22kHz Bandwidth, Mic E.I.N. @ max gain, 150 ohm source impedance = -129dBu, Aux, Mix &amp;masters = &lt;- 80 dBu Crosstalk (@1kHz, typical), Channel Mute = &gt;96dB, Fader cut-off (rel. 0 mark) = &gt;90dB, Aux Send pots offness = &gt;834B, Frequency Response Mic/Line Input to any output, 20Hz - 20kHz = +/- 0.5dB, THD+ noise, Mic sens. -30dB, -4dBu inputs, Mix out, &lt;0.009%@ 1kHz Input &amp;Output Impedance, Mic Input +22dBu max., Line Input &gt; +30dBu max., Stereo Return &gt;30dBu max., Input &amp;Output Levels Mic Input max. level = 1.8k ohm, Line Input max. level = 10k ohm, Outputs &gt;75 ohm</td>
<td></td>
</tr>
</tbody>
</table>
Projection System : 3 LCD panels, 1 lens projection system, Panel : 1.3-inch TFT Sony LCD panel with Micro Lens Array, 2,359,296 (1024 x 768) x 3 pixels, Projection Lens : Approx. 1.3 times zoom lens f = 50.8 to 64.0 mm, F 1.7 to 2.0, Lamp : 300 W, Screen Coverage : 40 to 300 inches (viewable area measured diagonally), Light Output : 6000 ANSI lumens (Lamp mode: High) / 5100 ANSI lumens (Lamp mode: Standard), Throwing Distance 40-inch : 1.5 to 1.8 m (4.9 to 6 feet), Throwing Distance 80-inch : 3.06 to 3.74 m (10.0 to 12.3 feet), Throwing Distance 100-inch : 3.85 to 47.0 m (12.6 to 15.4 feet), Throwing Distance 200-inch : 7.77 to 9.50 m (25.5 to 31.2 feet), Throwing Distance 300-inch : 11.69 to 14.3 m (38.4 to 46.9 feet) Signals, Colour System : NTSC3.58, PAL, SECAM, NTSC4.43, PAL-M, PAL-N, PAL60 (automatically/manually selected), Resolution Video : 750 TV lines, Resolution RGB : 1024 x 768 pixels, Acceptable Input Signals Computer : fH: 19 to 92 KHz, fV: 48 to 92 Hz (Up to UXGA+ 60 Hz), Acceptable Input Signals Video : 15k RGB 50/60 Hz, Progressive Component 50/60 Hz, DTV (480/60i, 575/50i, 480/60p, 575/50p, 1080/50i, 720/60p, 720/50p, 540/60p), Composite Video, Y/C Video, Power Requirements : AC 100 to 240 V, 50/60 Hz, Power Cons Operating Humidity : 35% to 85% (no condensation), Storage Temperature : -20 to 60 °C (-4 to 140 °F), Storage Humidity : 10 to 90% Dimensions (WxHxD) : 480 x 169 x 502 mm (19 x 6 5/8 x 19 7/8 inches) (with the projection parts), Mass : Approx. 10.5 kg (23 lb 4 oz), Heat

15

16

Providing & fixing of Motorized glass beaded high contrast screen size 16'x12 ' for LCD projection system

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of items</th>
<th>Rate Per Unit/Per Square Feet</th>
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</thead>
<tbody>
<tr>
<td>17</td>
<td>Providing &amp; fixing of Motorized Ceiling mount kit ,with data cable , video cable complete hard ware including provision of female socket on ground for connectivity to computer/ tv/ DVD etc complete in all respects</td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>Providing and fixing Dual 31 band graphic equalizer for sound system (DOD-231)</td>
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<tr>
<td>19</td>
<td>Providing and fixing Rack mount professional CD/Cassette Deck</td>
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<tr>
<td>20</td>
<td>Providing and erection of clamp for main stage speaker &amp;side phill speakers</td>
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<tr>
<td>21</td>
<td>Providing and fixing of speakon connectors</td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Providing and fixing Two core sheilded wire for all microphone</td>
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<tr>
<td>23</td>
<td>Providing and fixing of XLR connectors (male/female)</td>
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<tr>
<td>24</td>
<td>Providing and fixing of 2.5mm two core flexible low loss wire for the speakers</td>
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<tr>
<td>25</td>
<td>Providing and fixing of 4mm two core flexible no loss wire for the speaker</td>
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<tr>
<td>26</td>
<td>Providing and fixing of RCA/RCF/Bannana plugs</td>
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<tr>
<td>S No</td>
<td>Description of items</td>
<td>Rate Per Unit/In Square Feet</td>
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</tr>
<tr>
<td>27</td>
<td>Providing and fixing of snake cable 16 core for mics</td>
<td></td>
</tr>
<tr>
<td>28</td>
<td>Providing and fixing of cable tray of size 4*2 for wiring on stage lights and sound system fixed on stage and on rocked to control room</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Installation, testing and commissioning of complete system</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Lights on center stage bar</strong></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>Supply and erection of 1000 watt halogen flood light on the stage bar</td>
<td></td>
</tr>
<tr>
<td>31</td>
<td>Supply and erection of 1000W Fersnal halogen spot light on the stage bar.</td>
<td></td>
</tr>
<tr>
<td>32</td>
<td>Supply and erection of 1000 W PAR 64 light coloured gel filter for colour on then side wings.</td>
<td></td>
</tr>
<tr>
<td>33</td>
<td><strong>Lights on first house light bar</strong></td>
<td></td>
</tr>
<tr>
<td>34</td>
<td>Supply and erection of 1000 W Fresnel halogen spot light on the front house of stage bar</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Supply and erection of 1000W halogen flood light on the front house of stage bar.</td>
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</tr>
<tr>
<td>36</td>
<td>Supply and erection of 1000W halogen profile equipped with 2 PC lenses.</td>
<td></td>
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<tr>
<td>37</td>
<td>Supply and erection of 1000W Plano Convex spot light (CPL) for versatile use of stage light.</td>
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<tr>
<td>38</td>
<td>Supply and erection of 1000 W PAR 64 light colored gel filter for color.</td>
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<tr>
<td>39</td>
<td>Supply and erection of 6 channel digital dimmer pack 4 KW per channel</td>
<td></td>
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<tr>
<td>40</td>
<td>Supply and erection of 24 channel digital lighting console</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>MAIN CURTAIN MAID</strong></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Supply and erection of floor mounted equipment rack 19”-12 U with digital voltmeter, selector switch, T.P.N 60 amp, for the mains, wheel caster, cooling fan, a front lockable glass door and a back door open able.</td>
<td></td>
</tr>
<tr>
<td>42</td>
<td>Supply and erection of light to be fixed on the center of the stage, F O H I, with 2.5sq mm. Copper conductor wire from light to control room, independent phase &amp;neutral For each light connected to dimmer pack in the conduct pipe.</td>
<td></td>
</tr>
<tr>
<td>43</td>
<td>MAIN CURTAIN MAID out of velvet curtain curtain cloth with horizontal sliding arrangement complete with fixing rail, brackets, sliding arrangement &amp;motorized operation complete with runners, master runners, pullies,3mm steel wire rope, 1 HP motor (Crompton) 2 nos. air stop, 3 nos push buttons for forward, revers and stop positions. The curtain should be draped to half area when in closed position. Minimum overlap at centre should be 900mm and should be stitched in double gathering with cloth.</td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>WINGS</td>
<td></td>
</tr>
</tbody>
</table>
45 **Lighting Bar**

Frill For main curtain Providing and fixing frills made out of double gathering glazed cotton cloth to be installed the stage on 28 dia GI pipe.

### Computer and UPS Wiring and Electrification

48 Providing, fixing and commissioning of computer network wiring at any location using Dlink/AMP/Clipsal make UTP cat-6 cable from server room to location with each RJ45 jack of Dlink/AMP/Clipsal make terminated by a single cat-6 cable. The rates quoted for each officers table point shall be complete in all respects including metal boxes, conduiting, tagging, chiselling, concealing of conduits (above false ceiling, within partitions etc.), cutting of existing flooring etc., termination of computer wiring as per requirements of computer administrator duly certified from a computer network certification company, termination of electrical wiring in UPS distribution board, termination of telephone wiring etc. complete in all respects. as per

49 Providing fixing commissioning and termination of distribution board for distribution of electrical load for lighting and general power supply and air-conditioning using merlin gerin make distribution box complete in all respects including termination of main supply to UPS using 10sqmm. copper wire of fineolex/RR kabels/Rallison cables and supply from UPS to distribution board also using 6sqmm. copper wire of LAPP Kables Cables make complete in all respects including metal boxes, conduiting, tagging, chiselling, concealing of conduits etc.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of items</th>
<th>Rate Per Unit/Per Square Feet</th>
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<tbody>
<tr>
<td>50</td>
<td>Providing, fixing and commissioning of lighting using mentioned make lighting fixtures as per cat no. mentioned below. The rates quoted should include cost of lamps, wiring for new points, conduits, provision of modular switches and accessories of LK fuga/clipsal/north west make with wooden finish top plates, provision of electrical wiring of 1.5sqmm. copper wiring of fineolex/RR kabels/Rallison cables make, integration of lighting design with occupancy sensors of merlin gerin/Wipro/Clipsal make complete in all respects including metal boxes, conduiting, tagging, chiselling, concealing of conduits (above false ceiling, within partitions etc.), cutting of existing flooring etc.</td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>Providing fixing and commissioning Phillips FBS 570/255 FNCOD MM HFP, <strong>each four fixtures</strong> to be controlled by 1 no. 5 amp. Switch of LK fuga/clipsal/north west make. Each set of court lights to be powered by single MCB with appropirate wiring as required.</td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>Providing fixing and commissioning Artlite RL 2500, <strong>each fixtures</strong> to be controlled by 1 no. 5 amp. Switch of LK fuga/clipsal/</td>
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<tr>
<td>S. No.</td>
<td>Description of items</td>
<td>Rate Per Unit/Per Square Feet</td>
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</tr>
<tr>
<td>53</td>
<td>Providing fixing and commissioning Artilite RL 1901( 2x26W) , each four fixtures to be controlled by 1 no. 5 amp. Switch of LK fuga/clipsal</td>
<td></td>
</tr>
<tr>
<td>54</td>
<td>Providing fixing and commissioning Artilite RL 1901( 2x18W) , each four fixtures to be controlled by 1 no. 5 amp. Switch of LK fuga/clipsal</td>
<td></td>
</tr>
<tr>
<td>55</td>
<td>Providing fixing and commissioning Philips/Wipro (WRF 80128 EBQ/ TCH 128/2005/865) , each five fixtures to be controlled by 1 no. 5 amp. Switch of LK fuga/clipsal/north west make. Each set of recessed lights to be powered by single MCB with appropirate wiring as required.</td>
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</tr>
<tr>
<td>56</td>
<td>Providing, fixing and commissioning of Legrand POP up floor boxes with switch/socket/data point/MIC/LCD/ etc of legrand make for supply of mentioned services from stage level to control room/ any required loaction .The rates quoted should include wiring for new points, conduits, provision of accessories of Legrand make with wooden finish top plates, provision of electrical wiring of 2.5sqmm. copper wiring of finolex/RR kabels/Rallison cables make complete in all respects including metal boxes, conduiting, tagging, chiselling, concealing of conduits (above false ceiling, within partitions etc.), cutting of existing flooring etc.</td>
<td></td>
</tr>
<tr>
<td>57</td>
<td>Providing, fixing and commissioning of 15 amp switch socket of LK fuga/clipsal/north west make for supply of mains power .The rates quoted should include wiring for new points, conduits, provision of accessories of LK fuga make with wooden finish top plates, provision of electrical wiring of 2.5sqmm. copper wiring of finolex/RR kabels/Rallison cables make complete in all respects including metal boxes, conduiting, tagging, chiselling, concealing of conduits (above false ceiling, within partitions etc.), cutting of existing flooring etc.</td>
<td></td>
</tr>
<tr>
<td>58</td>
<td>Providing fixing,commissioning and integration of energy management system of schneider electric/Honeywell/johnson controls/L &amp;T make using occupancy sensors of atleast 9 m range for controlling lighting and air-conditioning wherever required. scope includes supply, fixing, testing and commissioning of enclosures for DISTRIBUTED CONTROL UNITS including all necessary fixing accessories, softwares, hardwares and effecting connections along with Distributed Control Units: Din Rail Mounted Advantys STB / Twido with 24VDC / L &amp;T/ Relay outputs for light groups &amp;required inputs for AC plants &amp;Level Switches for Water tanks as applicable along with 24VDC &amp;230VAC Relay Output Relay output modules for sensors and control system outputs, Cables &amp;Accessories: Cat-5, Thimbles, Ferrules, LED, etc along with motion sensors using contactors as per manufacturers specifications complete in all respects including wiring for integration, conduiting, concealing etc.</td>
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</tbody>
</table>
The building management system shall have to be integrated with the centralized air conditioning control system using software/hardware etc for bacnet/modbus/lonworks protocol the system integrator shall have to work in tandem with the air conditioning equipment supplier to transfer the entire control of the AC system for occupancy based switching on/off etc.

Required Software & Hardware Interface for Modbus RTU / BACNET and Lon devices of the following:

For Energy Meter / Chillers interface and DG Control Panel on Modbus RTU

DDC Controller with I/O module etc., The controllers shall be 16/32 bit microprocessor based, standalone type, works on Bacnet/Lon works/open Protocol and net workable type with real time clock. The DDC's shall be capable of peer to peer communication without help of system interface controller or PC. with lockable mounting cabinets duly powder coated connector strip, internal wiring and space to house controller &relays, connector strip current transformer, MCB, internal wiring. (Contractor shall confirm his I/O provision w.r.t requirement on basis of data point). Make Honeywell (Spyder Unitary Controller) /TAC / schneider/L &T atmos

8 programmable zone controller for lighting automation & airconditioning system Make MG / Clipsal / Anchor/L &T

Supply, installation, testing and commissioning of following cables:

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of Items</th>
<th>Rate Per Unit/Per Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>3 Core 1.5 Sqmm, unarmoured ATC conductor multistranded, cable for Powering DDC, Actuators.</td>
<td></td>
</tr>
<tr>
<td>67</td>
<td>4 Core 1.0 Sqmm, unarmoured ATC conductor multistranded, Shielded cable.</td>
<td></td>
</tr>
<tr>
<td>68</td>
<td>CAT 6 wire</td>
<td></td>
</tr>
<tr>
<td>69</td>
<td>Supplying and laying of following sizes of PVC conduit on surface/recess including cutting/filling chases along with conduit accessories etc. complete as required.</td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>25 mm dia</td>
<td></td>
</tr>
</tbody>
</table>

FIRE FIGHTING
Providing, fixing and commissioning of microprocessor based 1 loop, Networkable analogue addressable type fire alarm control panel with multiline character backlit LCD display of Esser, Notifier, Gent make only. The panel should be equipped with sufficient numbers of loop. each loop shall have a capacity of atleast 120 addressable devices in one loop. The panel should be able to give exact pin point location of the fire / fault conditions. Four access levels, capable of taking Flash Scan devices, flash EPROM sufficient numbers of programmable relay controls for controlling fire pump room, monitoring of fire sprinkler and fire hydrant pump, 240 volts AC power supply, automatic battery charger, 24 volts sealed lead acid batteries sufficient for 24 hours normal working and then be capable of operating the system for 8 hours during an emergency conditions as required.

Repeater Panel for the above panel, with multiline LCD display with complete system function keys for programming and control like system reset, alarm acknowledge, alarm silence, trouble acknowledge etc.

Supply, Installation, Testing & Commissioning of Analog Addressable Intelligent multisensor detector, soft addressable Photothermal (Dual Optical with Forward and backward scattering & One Thermal Chambers) type with inbuilt fault isolator complete with base as required.

Supply, Installation, Testing & Commissioning of Analogue Addressable Intelligent multisensor detector photothermal type with two inbuilt optical smoke sensors with backward & forward scattering light angles as well as additional heat detector sensor, photothermal type with inbuilt fault isolator, sounder and flasher with speech complete with base as required.

Supply, Installation, Testing & Commissioning of Analog Addressable Intelligent multisensor detector, soft addressable Photothermal (With Infra blue LED instead of Infrared inside the detector for early detection) with inbuilt fault isolator complete with base as required.

Supply, Installation, Testing & Commissioning of Addressable Manual Call Point soft addressable type with inbuilt fault isolator complete as required.

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Description of items</th>
<th>Rate Per Unit/Per Square Feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>71</td>
<td>Providing, fixing and commissioning of microprocessor based 1 loop, Networkable analogue addressable type fire alarm control panel with multiline character backlit LCD display of Esser, Notifier, Gent make only. The panel should be equipped with sufficient numbers of loop. each loop shall have a capacity of atleast 120 addressable devices in one loop. The panel should be able to give exact pin point location of the fire / fault conditions. Four access levels, capable of taking Flash Scan devices, flash EPROM sufficient numbers of programmable relay controls for controlling fire pump room, monitoring of fire sprinkler and fire hydrant pump, 240 volts AC power supply, automatic battery charger, 24 volts sealed lead acid batteries sufficient for 24 hours normal working and then be capable of operating the system for 8 hours during an emergency conditions as required.</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>Repeater Panel for the above panel, with multiline LCD display with complete system function keys for programming and control like system reset, alarm acknowledge, alarm silence, trouble acknowledge etc.</td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>Supply, Installation, Testing &amp; Commissioning of Analog Addressable Intelligent multisensor detector, soft addressable Photothermal (Dual Optical with Forward and backward scattering &amp; One Thermal Chambers) type with inbuilt fault isolator complete with base as required.</td>
<td></td>
</tr>
<tr>
<td>74</td>
<td>Supply, Installation, Testing &amp; Commissioning of Analogue Addressable Intelligent multisensor detector photothermal type with two inbuilt optical smoke sensors with backward &amp; forward scattering light angles as well as additional heat detector sensor, photothermal type with inbuilt fault isolator, sounder and flasher with speech complete with base as required.</td>
<td></td>
</tr>
<tr>
<td>75</td>
<td>Supply, Installation, Testing &amp; Commissioning of Analog Addressable Intelligent multisensor detector, soft addressable Photothermal (With Infra blue LED instead of Infrared inside the detector for early detection) with inbuilt fault isolator complete with base as required.</td>
<td></td>
</tr>
<tr>
<td>76</td>
<td>Supply, Installation, Testing &amp; Commissioning of Addressable Manual Call Point soft addressable type with inbuilt fault isolator complete as required.</td>
<td></td>
</tr>
<tr>
<td>77</td>
<td>Supply and Fixing of 2 C X 1.5 Sq mm Twisted copper FRLS wires / Cable in 25 mm MS Conduit fixed on the surface of the building structure. Complete with termination and testing as per requirement.</td>
<td></td>
</tr>
</tbody>
</table>