

RFP No. ASDM-95/2017/28

Dated 30<sup>th</sup> June 2018

**Requests for Proposal**

FOR

**Selection of Contractor**

FOR

**Interior Works Contract of North East Skill Centre**

**For ASDM**

**at Gorchuk, Guwahati Assam**



**Assam Skill Development Mission (ASDM)  
Guwahati**

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## **1. SHORT TENDER NOTICE**

**Assam Skill Development Mission (ASDM)**  
**Nayantara Building, 5<sup>th</sup> floor, Six Mile,**  
**Guwahati – 781022**

**RFP No. ASDM-95/2017/28**

**Dated 30<sup>th</sup> June 2018**

Assam Skill Development Mission (ASDM) invites online bids under two bids system from registered contractors having adequate experience in implementing interior works including Civil, Electrical, Sanitary & Plumbing, Fixed Furniture, HVAC, Fire, Data and Voice etc. to undertake the interior space development of the North East Skill Centre (NESC), at Gorchuk (Opposite ISBT), Guwahati as specified in the detailed bid document.

<b>Estimated Value of Work</b>	<b>Earnest Money Deposit</b>	<b>Period of Completion</b>
<b>Rs. 8,92,82,347/-</b>	<b>Rs. 17,85,647/-</b>	<b>90 Days</b>

For details please visit [www.assamtenders.gov.in](http://www.assamtenders.gov.in) / [www.asdm.assam.gov.in](http://www.asdm.assam.gov.in) or contact ASDM office at 5<sup>th</sup> Floor, Nayantara Building, Six Mile, Guwahati. E-mail : [missiondirector.asdm@gmail.com](mailto:missiondirector.asdm@gmail.com).

All corrigenda, addenda, amendments, time extension, clarification etc to the tender will be hosted on the website and e-tender portal and no separate notification shall be issued in the press. Prospective bidders are requested to regularly visit the website and e-portal to keep themselves updated.

**Last date of submission of bids is on 21<sup>st</sup> July 2018 up to 02:00 PM.**

**Mission Director**  
**Assam Skill Development Mission**

## **2. NOTICE INVITING TENDER**

**Assam Skill Development Mission (ASDM)**  
**Nayantara Building, 5<sup>th</sup> floor, Six Mile,**  
**Guwahati – 781022**

**RFP No. ASDM-95/2017/28**

**Dated 30<sup>th</sup> June 2018**

Assam Skill Development Mission (ASDM) invites Sealed Tenders under Two Bid System from registered contractors having adequate experience in implementing interior Works Contract, specific to hospitality, education or office setup of corporate sectors, to undertake the interior space development of North East Skill Centre (NESC), at Gorchuk, Guwahati.

Submission of bid shall be through e-procurement portal [www.assamtenders.gov.in](http://www.assamtenders.gov.in).

The detailed scope of work and qualifying criteria of the bidder are specified below:

### **2.1 Brief Scope of work:**

The detailed scope of work is mentioned in Annexure I and detailed in Annexure 1A to 1J.

### **2.2 Procurement of bid documents:**

The bidder is required to submit a Demand draft/ Banker's Cheque of Rs. 50,000/- (Rupees Fifty thousand) only towards the cost of non-refundable tender fee of this Bid document, from a Scheduled commercial bank, in favour of "Assam Skill Development Mission" payable at Guwahati. The Tender document fee in any other form shall not be entertained.

The detailed Tender Document, once purchased, cannot be returned, resold, transferred, or reassigned; and there shall not lay any claim on ASDM for refund of tender fee, payment of expenses incurred etc. and ASDM shall not be responsible in any way for any damage, loss etc., consequential or otherwise.

### **2.3 Eligibility Criteria:**

#### **2.3.1 Legal entity of the bidder:**

The bid is open to any one of the following:

- i. Companies that are incorporated in India
- ii. Partnership firm, including Limited Liability Partnerships
- iii. Sole Proprietorship firm

#### **2.3.2 The bidder should be a registered contractor with at least one of the following:**

- i. CPWD or State PWD as Class IA contractors
- ii. Any Public Sector Enterprise/ Public Sector banks

#### **2.3.3 Financial Eligibility :**

- i. The Bidder must have an average annual turnover of at least Rs.10 crore (Rupees Ten Crore) in the 3 financial years 2016-17, 2015-16, 2014-15.

- ii. The Bidder should have a positive net worth in each of the 3 financial years 2016-17, 2015-16, 2014-15.
- iii. The bidder should submit a Solvency Certificate from a Scheduled Bank, stating sufficiency of funds for executing the project.

**2.3.4 Experience:**

The bidder should have experience of executing works contract for projects with the following size:

- i. At least 3 projects each with a work Order value of Rs. 1 crore each or,
- ii. At least 2 projects each with a work Order value of Rs. 2 crore each or
- iii. At least 1 project with a Work Order value of Rs. 4 crore.

The date of Work Order should be after 01.01.2008. At least 1 project submitted as work experience should have been completed on the date of submission of bids. Work Orders for all projects and Completion Certificate, wherever applicable need to be submitted as proof of all experience.

**2.3.5 Registration & licenses**

- i. The bidder must have an office in Guwahati or the Bidder should submit an undertaking as affidavit, to establish a place of business in Guwahati after being awarded the Work Order.
- ii. The bidder has to submit documentary proof of PAN, GST, Labour License, Employees Provident Fund, ESIC.

**2.3.6 Manpower:**

The bidder should deploy at least the following resources on the project, the qualification of each would be as follows:

S. No	Position Title	Qualification
1	Project Lead	The candidate should be at least the following: B. Arch/ B.E./ B. Tech (civil) with a minimum experience of at least 7 years
2	Supervisor- Civil	Diploma Holder in Civil Engineering with Work Experience of at least 5 years
3	Supervisor- Electrical	Diploma in Electrical Engineering with Work Experience of at least 5 years

**2.3.7 General criteria**

The bidder should not have been blacklisted by any institution of the Central or State government on ground of involvement of the bidder in corrupt or fraudulent practices or any other matter, since 1st of April, 2014. The bidder shall have to submit an affidavit in Stamp Paper of value Rs.10/- duly notarised in this regard.

**2.4 Earnest money:**

The bid document must be accompanied by Earnest Money Deposit of **Rs.17,85,647/- (Rupees Seventeen Lakh Eighty five thousand Six hundred forty seven)** only in the form of a demand draft/ Banker's Cheque from a Scheduled Commercial Bank, in favour of "Assam Skill

Development Mission” payable at Guwahati.

**2.5 Bid Evaluation:**

The bidder will have to score at least 60 as Technical Score to qualify for the commercial bid opening. The Technical and Financial scores will be given a weightage of 60:40. The bidder scoring the highest score will be awarded the contract

**2.6 Key Events:**

S. No.	Event	Details
1	Downloading of bid document	30 <sup>th</sup> June 2018
2	Last date of receipt of written queries	6 <sup>th</sup> July 2018
3	Date for Reply to Pre-bid queries	11 <sup>th</sup> July 2018
4	Date for Submission of bid	21 <sup>st</sup> July 2018 till 02:00 PM
6	Opening of Technical Bid	21 <sup>st</sup> July 2018 at 04:00 PM
7	Opening of commercial bid	Will be intimated later
8	Point of Contact	Mr. Indrajit Singha, (Contact 7578014310) <a href="mailto:indrajit.asdm@gmail.com">indrajit.asdm@gmail.com</a>

**Note:** The Bidder shall bear all costs associated with the preparation and submission of its bid, and ASDM will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

Place: Guwahati

Mission Director  
Assam Skill Development Mission



### **3. OVERVIEW OF PROJECT**

#### **3.1. About ASDM:**

Assam Skill Development Mission (ASDM) was created with the vision of capacity building of unemployed youth and to deliver quality skill training leading to meaningful employment to stimulate economy of the state. The Mission leads to ensure that the youth of the state must be in a position to face their counterparts in any part of the country by virtue of their hard work and their dexterity of hands through their skills.

A few major initiatives taken by the mission in achieving its objectives and reaching out to the youth in the state are:

- a. Attempt has been made to establish Pradhan Mantri Kaushal Kendra (PMKK) in every district of Assam in collaboration with NSDC in PPP mode.
- b. 9 multi skill education centers (Centre of Excellence) are envisaged to be set up across 9 districts.
- c. Special mobilization plans have been launched to give “right skill to right person”.
- d. Till date, ASDM has been able to register more than 40,000 candidates through various offline and online platforms.
- e. ASDM has initiated the development of a ‘one stop mobile application’ to facilitate easy and navigation based access to registered, enrolled and placement of skilled individuals. This application would be utilized for linking trained candidates to jobs, candidate feedback, monitoring and tracking.
- f. Establishing North East Skill Centre to provide technical and vocational education training across various sectors.

#### **3.2. About NESC:**

North East Skill Centre is a state of the art multi-skill training Centre with a mandate for imparting Technical and vocational Education & Training in four sectors- Hospitality, Beauty & Wellness, Food & Beverage Services and Retail. An MoU has already been signed between the Government of Assam and the Government of Singapore. The terms of Reference (ToR) has been finalised between ASDM and ITE Education Services (ITEES), Singapore. The curriculum has also been designed by the ITEES.

The NESC will train up to a total of 400 students each year.

ASDM, on behalf of Skill Employment & Entrepreneurship Department (SEED) is responsible for the entire range of construction and refurbishment activities at NESC campus, including mechanical, electrical works and civil structural works. ASDM will also be closely monitoring the daily progress on the development of infrastructure.

ASDM has already taken an area of 48000 sq ft on lease in Gorchuk, Guwahati, spread across 4 floors, for the NESC. The built up space is already available. An architect has been appointed for designing the interior of the NESC.

This RFP aims to select a reputed Works Contractor for undertaking the interior civil, electrical, plumbing etc. works and supply of basic furniture and fixtures and readymade furniture

furnishing, works relating to supply and installation of AV systems and acoustic controls, CCTV and access control etc. as detailed in the scope of work at the NESC.

## **4. SCOPE OF WORK**

### **4.1 Scope of Activities:**

The Contractor shall undertake the interior civil, electrical, plumbing, Data & Voice, CCTV & Access Control Rire Detection & Alarm system works etc. works and supply of basic furniture and fixtures and readymade furniture & furnishing at the NESC. The built up area of the space is approx. 48000 Sq.ft, spread across 4 floors (approx. 12000 sq ft per floor). The bidder will have to undertake complete interior work of the office including all material, labour, cartage, services etc.

The scope of activities and detailed Bill of Material is as per Annexure I and sub-Annexures IA to IJ.

The Bidders should visit the site prior to submission of their bids.

### **4.2 Place of execution:**

The location of the office would be as follows:

1<sup>st</sup>-4<sup>th</sup> floor,  
Mukand Infrastructure Pvt. Ltd.,  
Katabari, Gorchuk,  
NH-37, Guwahati-32

### **4.3 Deployment of Resources:**

The resources as proposed in the proposal for Project Leader, Supervisor (Civil) and Supervisor (Electrical) shall be compulsorily deployed in the project. They will be present throughout the tenure of the project. In case of any change, approval of ASDM shall first be obtained.

In addition to the above, any number and type of resources may be deployed as per the requirement of the contractor.

## 5. INVITATION OF PROPOSAL

### 5.1 Bid Submission:

#### 5.1.1 Procedure for Bid Submission: The bidders are requested to submit the following:

- a) Technical bid along with the Response to Pre-Qualification Criteria on e-procurement portal and hard copy as detailed in RFP document.
- b) Financial Proposal on e-procurement portal. **No hard copy of financial proposal is to be submitted.**

#### 5.1.2 Instruction for online submission:

- a) Bids (Technical & Price bid) shall be submitted online on <https://assamtenders.gov.in> as well as hard copies as detailed below.
- a) The participating bidders in the tender should register themselves free of cost on e-procurement portal in the website <https://assamtenders.gov.in>
- b) Bidders can log-in to e-procurement platform in secure mode only by signing with the Digital certificates.
- c) The bidders should scan and upload the respective documents in Technical bid and Price Bid documentation as specified in the e-tendering portal. The bidders are advised to scan the relevant document with 100 DPI only to reduce the file size.
- d) Technical & Price bids are to be digitally uploaded in the e-tendering portal. **Please Note that Prices should not be indicated in the Technical Proposal but should only be indicated in the Financial Proposal failing which the bid submitted shall be summarily rejected.**
- e) Please Note that all the formats given has to be duly filled up, signed and submitted in the bid failing which the bid submitted shall be summarily rejected.
- f) **Submission of hard copy of the financial bid shall make cause the bid to be summarily disqualified.**

#### 5.1.3 Instruction for Hard Copy Submission:

The bidders should submit the hardcopies (on the next day of submitting the online bid) of the following only:

- a) Signed copy of bid document as a token of acceptance of the clauses and terms & conditions of the RFP.
- b) Original Demand draft/ Bankers Cheque in respect of Tender document fee & EMD.
- c) Letter of Authorisation/ Power of Attorney in original along with Board Resolution in case of a Company.
- d) Format 1, 4, 5 and 7 in original

All these documents as mentioned above should be sealed in an envelope and to be submitted in the O/o The Mission Director, Assam Skill Development Mission, Nayantara Building, 6<sup>th</sup> Mile, Guwahati- 781022 within the bid no., submission time & date mentioned in the bid document. The cover thus prepared should also indicate clearly the name, address, telephone number, E-mail ID and fax number of the bidder to enable the Bid to be returned unopened in case it is declared "Late".

Only one hard copy is required to be submitted. The soft copies of the above needs to be uploaded online also.

**5.1.4 Other Conditions of bid submission:**

- a) ASDM will not hold any risk and responsibility regulating non-visibility of the scanned and uploaded documents. If documents are not visible, the same may not be evaluated at the risk of the bidder.
- b) The Documents that are uploaded online on e-procurement portal will only be considered for Bid Evaluation.
- c) The Bidder shall bear all costs associated with the preparation and submission of its bid including cost of presentation for the purposes of clarification of the bid. ASDM will, in no case, be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.
- d) The Bids prepared by the Bidder and all correspondence and documents relating to the bids exchanged by the Bidder and ASDM, shall be written in English language, provided that any printed literature furnished by the Bidder may be written in another language so long the same is accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern.
- e) It shall be deemed that the bidders have done careful study and examination of the Tender document and has fully understood the implications.
- f) The response to the Tender should be full and complete in all respects. Failure to furnish the requisite information or submission of a proposal not substantially responsive to the Tender document in every respect will be at the bidder's risk and may result in rejection of the proposal and forfeiture of the EMD
- g) All materials submitted by the bidder shall become the property of ASDM and may be returned at its sole discretion.
- h) Failure to furnish any of the uploaded documents, certificates, will entail rejection of the bid. ASDM shall not hold any risk on account of postal delay. Similarly, if any of the certificates, documents, etc., furnished by the Bidder are found to be false / fabricated / bogus, the bidder will be disqualified, blacklisted, action will be initiated as deemed fit and the Bid Security will be forfeited.
- i) The hard copies and the soft copies submitted should be properly page numbered and appropriately flagged/ tagged; and must contain the list of contents with page numbers. Any deficiency in the documentation may result in the rejection of the Bid.
- j) The bid shall contain no interlineations, erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be signed by the person or persons signing the bid.
- k) The Tender should be signed on all the pages by the Bidder or his authorised representative and should be affixed with the bidder's Seal
- l) All outstation bids should be sent through registered post/ speed post/ courier.
- m) The proposals must be properly signed in ink as detailed below:
  - i. By the proprietor in case of a proprietary firm
  - ii. By the partner holding the Power of Attorney in case of a firm in partnership (A certified copy of the Power of Attorney shall accompany the Proposal).
  - iii. By a duly authorized person holding the Power of Attorney in case of a Limited Company or a corporation (A certified copy of the Board Resolution shall accompany the proposal).

**5.2 Bid queries:**

A prospective Bidder requiring any clarification on the tender document may submit their queries, in writing, to the contact person and as per schedule indicated in Notice Inviting tender. The queries must be submitted in the following format only to be considered for clarification:

S No.	Page No.	Clause No.	Subject	Query
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ASDM will respond to all pre-bid queries on the e-procurement portal. If required, a Pre-bid meeting will be held to answer the queries.

However, ASDM makes no representation or warranty as to the completeness of the response, nor does it undertake to answer all the queries that have been raised. Queries raised after the date prescribed as the last date of pre-bid queries in the NIT, will not be answered. Individual responses will not be communicated to any bidder.

**5.3 Supporting Documents for eligibility criteria:**

The documentary evidence for the fulfilment of minimum eligibility criteria shall be as mentioned in the Annexure 10. All evidence must be submitted by the bidder along with the Technical bid, otherwise the bid is liable to be rejected. The bidder must highlight the relevant sections and flag the pages in certified copies of the documents and should necessarily mention, in reference, in the relevant document/ page/ paragraph/ section/ part thereof etc. of the original bid document.

**5.4 Amendment or Supplementation of Tender Document**

At any time before the deadline for submission of bids, ASDM may, for any reason, whether at own initiative or in response to a clarification requested by a prospective Bidder, modify the bidding document by issuing an addendum or corrigendum. All the amendments/ Corrigendum made in the document would be published in the procurement portal. All such amendments shall be binding on bidders. The bidders are also advised to visit the aforementioned portal on regular basis for checking necessary updates. ASDM reserves the rights to amend the dates mentioned in Notice Inviting Tender.

**5.5 Termination of bidding process:**

ASDM reserves the right to accept any bid and to annul the Tender process and reject all bids at any time prior to award of Contract, without thereby incurring any liability to the affected Bidders or any obligation to inform the affected Bidders of the grounds for ASDM's action. ASDM makes no commitments; either expresses or implied that this process will result in a business transaction with any bidder.

**5.6 Technical & Financial Bid Documents:**

The documents of the bid will be as follows:

- a) Technical bid: The following shall be submitted as Technical bid:
- i.Format 1-10
  - i.Tender Document Fee & Earnest Money Deposit (EMD)
  - ii.All documents as mentioned in Annexure 10
  - iii.Brochures of product to be used in the interiors
- b) Price Bid: The Price bid shall consist of Format 11 and sub annexures 11A to 11J.

**5.7 Price Bid:**

- a) The Bidder shall quote price in the prescribed format, the unit rates and total Bid Price of the material / services it proposes to provide as per the Tender document. Prices should be shown separately for each item as detailed in Tender Documents. All items shall be inclusive of GST.
- a) The unit rate including GST and quantity, wherever applicable should be shown separately
- b) GST will be at the applicable rates against each item mentioned in sub annexures 11A-11J or against the total value of the Work in the Price Bid at Annexure 11, as may be applicable to the bidder.
- c) In any case the total value of the bid will be Grand Total at Annexure 11, and it will be assumed that all applicable taxes are included in the same.
- d) Prices quoted in the bid must be firm and final and shall not be subject to any upward modifications, on any account whatsoever. However, ASDM reserves the right to negotiate the prices quoted in the bid to effect downward modification.
- e) Price shall be quoted for all the items mentioned in price bid.
- f) The Price Bid should be uploaded only in e-procurement portal; no hard copy is to be submitted
- g) The prices of items which are not included in the Schedule of Rates of PWD, need to be ascertained based on market survey.
- h) The Price bid should clearly indicate the price to be charged without any qualifications whatsoever and should include all taxes, duties, fees, levies, works contract tax and other charges as may be applicable in relation to the activities proposed to be carried out.
- i) If there is a change in the applicable taxes, ASDM reserves the right to negotiate with the Bidder.
- j) Prices in any form or by any reason before opening the Price Bid should not be revealed, failing which the offer shall be liable to be rejected.
- k) Prices shall be quoted in Indian National Rupees (INR).
- l) All payments will be subjected to tax deduction at source as applicable/required at the prevailing tax rates.
- m) It is the responsibility of the Bidder that all local/ national and international conditions and laws be factored properly while submitting the bid proposals and that no claim whatsoever including those for financial adjustment to the contract awarded under the bidding documents will be entertained by ASDM and that neither any change in the time schedule of the contract nor any financial adjustments arising thereof shall be permitted by ASDM on account of failure of the Bidder to appraise themselves of such laws and/or site conditions.
- n) The Unit Rate as mentioned in the following formats shall be used for the purpose of 'Change Order' for respective items, if any. However, based on the market trends, ASDM retains the right to negotiate this rate for future requirements.

**5.8 Bid Security/ Earnest Money Deposit:**

- a) Amount of Bid Security (EMD): The Bidder shall furnish, as part of its bid, a bid security as mentioned in NIT.
- b) Currency of Bid Security: The bid security shall be furnished in Indian National Rupees (INR).
- c) The EMD Draft should be valid for a period of at least 80 days from the date of submission of bids.
- d) Requirement of Bid Security: The bid security is required to protect ASDM against the risk of Bidder's conduct, which would warrant the security's forfeiture, pursuant to Section "Forfeiture of Bid Security"
- e) Rejection of Bid: Any bid not secured in accordance with above mentioned clause, shall be rejected by ASDM as being non-responsive, without any further correspondence
- f) Discharge of Security Bid of Unsuccessful Bidder: Unsuccessful bidders' bid security will be discharged / returned within 90 days of Selection of Suitable Bidder by ASDM.
- g) Discharge of Security Bid of Successful Bidder: In case of the successful bidder(s) and supplier/(s) thereof, the Earnest Money Deposit will become refundable to the successful bidder on submission of Performance Bank Guarantee.
- h) Forfeiture of Bid Security: The Bid Security can be forfeited in the following cases:
  - i. if a Bidder withdraws its bid during the period of bid validity
  - ii. if a Bidder indulges in any such deliberate act that would jeopardize or unnecessarily delay the process of bid evaluation and finalization,
  - iii. if any information supplied by the bidder is found wrong / manipulated / hidden in the bid,
  - iv. If the bidder fails to accept the Letter of Intent
  - v. If the bidder fails to accept the Work order duly awarded, after accepting the Letter of Intent issued by ASDM
  - vi. If after accepting the Work Order, the bidder fails to adequately perform any of the obligations under the Work Order or does not sign the Agreement,
  - vii. If the bidder supplies material that is at variance with the material quotedThe decision of ASDM regarding forfeiture of the Bid Security shall be final & shall not be called upon question under any circumstances.
- i) No interest will be paid on the EMD.

**5.9. Bid Validity Period:**

Bids shall remain valid for 180 days after the date of opening of Technical Bids prescribed by ASDM. A bid valid for a shorter period may be rejected as non-responsive.

Extension of Period of Validity: In exceptional circumstances, ASDM may request the Bidder(s) for an extension of the period of validity. The request and the responses thereto shall be made in writing (or by fax). The bidder shall be at liberty to refuse the request. In such a circumstance, it will be construed that the bidder has withdrawn his bid and will not be entitled to claim or receive any penalty/damages/ interest/charges. However, he will be entitled to return of his bid documents submitted and refund of the EMD.

**5.10. Modification/ Withdrawal of bids by bidder:**

Modification and withdrawal of bids can be done as per the Rules of e-Procurement in the Portal.

**5.11. Bid Evaluation Criteria:**

All evaluation process will be carried out by a Tender Evaluation Committee to be formed by ASDM for this purpose. The decision of the Tender committee shall be final and no correspondence will be entertained outside the process of negotiation by the Committee. Evaluation of the bid documents will be a 2-stage process as shown below

**a. Evaluation of Technical Bid**

At this stage, the technical bid will be opened and examined for the following:

- i. Genuineness of the documents submitted towards the pre-qualification requirements
- ii. Submission of EMD, Tender document fees
- iii. Whether the documents have been properly signed
- iv. Compliance with the Pre-qualification criteria
- v. The bidder will be awarded Technical marks on the basis of the following:

<b>S. No.</b>	<b>Criteria</b>	<b>Marks</b>	<b>Max Marks</b>
1.	Work Experience: Projects undertaken for Works Contract for any Government/ Commercial projects since 01.01.2008 with Work order value of more than Rs. 5 cr each (Either completed or ongoing. The date of Work order should be after 01.01.2008)	20 marks for each project upto a maximum of 2 projects.	40 marks
2.	Interior Works contract projects undertaken for Premium Government Guest House/ Accommodation facility since 01.01.2008, with a minimum order value for interior works component of Rs. 2 cr each. (Either Completed or on-going. The date of Work Order should be after 01.01.2008)	10 marks for each project upto a maximum of 2 projects	20 marks
3.	Works Contract for an area of more than 20,000 sq ft undertaken since 01.01.2008. (Either competed or on-going. The date of work Order should be after 01.01.2008.)	10 marks for each project upto a maximum of 2 projects	20 marks
4.	Approach & Methodology	Proposed Work Plan & Timeline submitted, solution proposed	20 marks
	<b>TOTAL</b>		<b>100 marks</b>



The bidder will have to score at least 60 as Technical Score to qualify for the commercial bid opening. Any Technical bid with score less than 60 marks will be rejected and their financial bids will not be opened.

**a. Price bid evaluation:**

The price bid for all the bidders who are technically qualified shall be opened.

The Financial Bid shall be evaluated on the Total Fees quoted by the bidder as per Format 11.

ASDM may disqualify any financial bid, if it is found that there is considerable difference in the pricing offered. Very high or very low financial bids may be considered non responsive. Such non responsive bids would not be considered further for evaluation. Rest of the bids would be called responsive and would alone be considered for further evaluation.

**b. Award of Technical & Financial Score:**

The Bidder shall be selected on the basis of Quality & Cost Based System (QCBS), whereby Technical proposal will be allotted weight age of 60% and Financial Proposal will be allotted weight age of 40%.

- i. The proposals will be awarded Technical Marks on the basis of Technical Evaluation Criteria in clause 5.11.
- ii. The bidder with the highest Technical Score will be awarded marks of 100. All other bidders will be awarded marks proportionately.
- iii. The formula for determining the Technical score (T) of all other Proposals is calculated as following:

$T = 100 \times T_n/T_m$  in which T is the Technical score, "Tm" is the highest Technical score, and "Tn" is the technical marks of the proposal under consideration

- iv. The proposal with the lowest price bid shall be given a financial score of 100 and the other proposals shall be given financial scores that are inversely proportionate to their bid.
  - v. The formula for determining the financial score (P) of all other Proposals is calculated as following:
- $P = 100 \times F_m/F_n$  in which P is the financial score, "Fm" is the lowest price, and "Fn" is the price of the proposal under consideration
- vi. The weights given to the Technical (T) and Financial (P) Proposals are 60 and 40 respectively
  - vii. Proposals are ranked according to their combined Technical (T) and Financial (P) scores using the weights as follows:-  $S = T \times 60\% + P \times 40\%$ , where S is the Total Score
  - viii. The highest scorer shall be awarded the Contract.

**5.12. Rectification of errors:**

Arithmetical errors in the Financial Bid will be rectified on the following basis.

- a) Activities and items described in the Technical Proposal but not priced in the Financial Bid, shall be assumed to be included in the prices of other activities or items, and no corrections shall be made to the proposal.

- b) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and will be considered for future calculations.
- c) If there is a discrepancy between words and figures, the amount in words shall prevail.
- d) If there is any discrepancy in the sum total, the corrected sum total will be considered
- e) Any other arithmetical error will stand corrected for evaluation
- f) If the bidder does not accept the correction of errors, its bid will be rejected and its bid security may be forfeited.

**5.13. Right to vary scope of work by ASDM at the time of award:**

ASDM may at any time, by a written order given to the Bidder, make changes to the scope of the work as specified. If any such change causes an increase or decrease in the cost of or the time required for the Bidder's performance of any part of the work under the Contract, whether changed or not changed by the order, an equitable adjustment shall be made in the Contract Value or time schedule, or both, and the Contract shall accordingly be amended. Any claims by the Bidder for adjustment under this Clause must be asserted within fifteen (15) days from the date of the Bidder's receipt of ASDM's changed order.

**5.14. Bid Rejection Criteria**

The bids may be rejected in the following cases:

- a) Any effort by a Bidder to influence ASDM in its decisions on bid evaluation, bid comparison or contract award may result in rejection of the Bidder's bid.
- b) Bids submitted without or improper EMD, or Tender document fees
- c) Bids which do not confirm unconditional validity of the bid as prescribed in the Tender
- d) If the information provided by the Bidder is found to be incorrect /misleading at any stage / time during the Tendering Process
- e) Bids received by ASDM after the last date prescribed for receipt of bids
- f) Bids without signature of person (s) duly authorized on required pages of the bid or Bids without power of authorization and any other document consisting of adequate proof of the ability of the signatory to bind the Bidder shall be rejected.
- g) If the Technical Bid contains commercial details or reveals prices in any form or by any reason before opening the Commercial Bid
- h) Bids which fails to furnish all information required by the TENDER Document or a bid which is not substantially responsive to the Tender Document in every respect or the Bidders not quoting for the complete scope of Work as indicated in the Tender documents, addendum (if any) and any subsequent information given to the Bidder, or Bidders not complying with the Technical Specifications and General Terms & conditions as stated in the TENDER Documents or the Bidder not confirming unconditional acceptance of full responsibility of providing services in accordance with the Scope of work and Service Level or if the bid does not confirm to the timelines indicated in the bid, the bids shall be rejected.
- i) Any incomplete Price Bid, or price Bids that do not conform to the Tender's price bid format, or bids where the total price quoted by the Bidder does not include all statutory taxes and levies applicable or the bids having any hidden costs or conditional costs, shall be rejected.

**5.15. Post Selection process:**

- a) Notification to Bidder: ASDM shall notify the successful Bidder within 2 days of the opening of Commercial bid, by registered letter or by fax or by hand or by email, about the award of contract. The Bidder shall acknowledge in writing receipt of the notification of award and shall send his acceptance to enter into agreement immediately.
- b) Letter of Intent and Signing of Contract: The letter of Intent will be issued within 5 days of the notification to the bidder. A Work Order will be issued within the time frame as specified in the section proposed Timelines.
- c) Before signing of the agreement, a Performance Bank Guarantee in the format as enclosed with this document, will have to be furnished by the bidder.

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**5.16. Performance Bank Guarantee:**

- a) A Performance Bank Guarantee of an amount of 10% of the value of the Work Order with a validity of 6 months, has to be submitted in the Annexure II, by the successful bidder within 7 days of receipt of LOI or any other document awarding the contract, and before signing of the agreement, whichever is earlier.
- b) The Performance Bank Guarantee should be in the prescribed format from a scheduled bank, acceptable to ASDM.
- c) All payments will be released to the contractor subject to submission of performance bank guarantee
- d) All charges with respect to the PBG such as commission, premium etc. shall be borne by the contractor.
- e) After recording of the completion certificate for the work by the competent authority, the Performance Bank Guarantee shall be returned to the contractor.
- f) No interest will be paid on the PBG
- g) Performance Guarantee shall be forfeited in the following cases:
  - i. If any terms and conditions of the Contract are infringed.
  - ii. If the contractor fails to complete supply/ service satisfactorily.
  - iii. If the contractor fails to deliver the deliverables as per the terms laid down in this document.
  - iv. Supplies material that is at variance with the equipment quoted and submitted for testing.
  - v. Any other case as per the Contract.

Notice will be given to the contractor with reasonable time before performance security deposit is forfeited.

## **6. GENERAL CONDITIONS OF CONTRACT**

### **6.1. Definition:**

- a) ASDM means Assam Skill Development Mission which is formed to provide skill based training to youth in Assam.
- b) Bidder means an entity purchasing this document and desires to participate in the bid for the project titled RFP for Selection of Contractor for Development of Interior for North East Skill Centre.
- c) Government' means the Government of Assam, unless otherwise stated.
- d) Contractor means the bidder selected as the successful bidder and awarded the Work Order.

### **6.2. Governing Law:**

The Contract or Work Order shall be governed by and interpreted in accordance with the laws of India.

### **6.3. Obligation of the contractor:**

- a) The contractor shall carry out the services/ supply in conformity with generally accepted professional and technically accepted norms relevant to such assignments that are required for the project and which are to the entire satisfaction of ASDM.
- b) In the event of any deficiency in services, the contractor shall promptly take necessary action to resolve it, at no additional fees, if deficiencies are for reasons solely and entirely attributable to the supplier
- c) During the tenure of the Contract, nothing shall be done by the contractor in contravention of any law, act and/ or rules/regulations, there under or any amendment thereof
- d) The contractor shall at its own expense adopt suitable Risk Management methodology to mitigate all risks assumed by the contractor under this Contract. ASDM will have no liability on this account.
- e) The Contractor shall comply with all laws in force including national, State, municipal, or other laws that affect the execution of work, and especially ensure compliance with all labour laws, license requirement, insurance of workers, and material.
- f) It should be ensured that provisions of PF, ESI, maternity benefits, extension of time and all other obligations towards labour are met by the Contractor. The Contractor should compensate the workers at least as per the Minimum Wages requirement of the State.
- g) It should be ensured that child labour in any manner is strictly not employed in the execution of work.
- h) The Contractor shall themselves make arrangements for accommodation, fooding, sanitation and safety of the workers involved in the execution of work

### **6.4. Taxes and Duties:**

The Contractor shall be liable to pay such direct and indirect taxes, duties, fees and other impositions levied under the applicable laws of India.

**6.5. Invoice & Payment:**

- a) The contractor will raise invoice at the rates submitted in the Price bid, subject to negotiations.
- b) If there is any downward revision in the rates of taxes applicable at the time of billing, the Contractor shall bill at the reduced rates. If there is any upward revision of tax at the time of billing, proof of such upward revision will first have to be submitted, before billing. ASDM may take decision based on the facts of the case.
- c) All payments will be subjected to tax deduction at source as applicable/required at the prevailing tax rates.

**6.6. Change in scope of work:**

- a) ASDM may at any time give written order to the contractor for making variation, amendment and modification in the Work Order in respect of quantity, scope, extent, information, terms and conditions of the order
- b) Any change order upto 25% of the value of the contract will be compensated in terms of unit cost quoted in the Commercial Bid.

**6.7. Force Majeure**

Force Majeure shall not include any events caused due to acts/omissions of such Party or result from a breach/contravention of any of the terms of the contract, Bid and/or the Tender. It shall also not include any default on the part of a Party due to its negligence or failure to implement the stipulated/proposed precautions, as were required to be taken under the contract.

The failure or occurrence of a delay in performance of any of the obligations of either party shall constitute a Force Majeure event only where such failure or delay could not have reasonably been foreseen or where despite the presence of adequate and stipulated safeguards the failure to perform obligations has occurred. In such an event, the affected party shall inform the other party in writing within five days of the occurrence of such event. ASDM will make the payments due for Services rendered till the occurrence of Force Majeure. However, any failure or lapse on the part of the contractor in performing any obligation as is necessary and proper to negate the damage due to projected force majeure events or to mitigate the damage that may be caused due to the above mentioned events or the failure to provide adequate disaster management/recovery or any failure in setting up a contingency mechanism would not constitute force majeure, as set out above.

In case of a Force Majeure all Parties will endeavour to agree on an alternate mode of performance in order to ensure the continuity of service and implementation of the obligations of a party under the contract and to minimize any adverse consequences of Force Majeure.

Force majeure clause shall mean and be limited to the following in the execution of the Conditions of empanelment placed by State:

- i. War / hostilities
- i. Riot or Civil commotion
- ii. Earth quake, flood, tempest, lightning or other natural physical disaster
- iii. Restriction imposed by the Government or other statutory bodies, which is beyond the control of the selected implementing agency, which prevent or delay the executive of the order by the selected implementing agency

The selected contractor shall advice ASDM in writing, the beginning and the end of the above

causes of delay, within seven days of the occurrence and cessation of the force majeure conditions. Unless otherwise directed by ASDM in writing the contractor shall continue to perform its obligations under the Contract as far as is reasonably practical. In the event of a delay lasting for more than one month, if arising out of clauses of force majeure, ASDM reserves the right to terminate the contract without any obligation to compensate the contractor in any manner for what so ever reason, subject to the provision of clause mentioned, by giving a written notice of minimum 30 days. However, the contractor shall be entitled to receive payments for all services rendered by it under this Assignment.

**6.8. Right of Monitoring, Inspection and Periodic Audit:**

- a) ASDM reserves the right to inspect and monitor/ assess the progress/ performance of the work developed at any time during the course of the Contract, after providing due notice to the contractor.
- b) ASDM may demand and upon such demand being made, the contractor shall provide any document, data, material or any other information which it may require to enable it to assess the progress of the project.
- c) The inspection/ audit/ monitoring can be conducted by either ASDM itself or through another Third Party as it may deem fit.

**6.9. Termination of contract:**

ASDM may terminate the contract under the following circumstances:

- a) Where it comes to ASDM's attention that the contractor or his team is in a position of actual conflict of interest with the interests of ASDM in relation to any of terms of the Bid, the Tender or this Contract or there is any incident of fraud or mis-representation,.
- b) Termination for Default: ASDM may at any time terminate the Contract by giving 15 days written notice to the contractor without compensation in the Event of Default on the part of the Contractor which may include failure on the part of the contractor in respect of any of its commitments with regard to any part of its obligations under its Bid, the Tender or under this Contract. .
- c) Termination for Convenience: ASDM may by prior written notice send to the contractor at least 15 days in advance terminate the Contract in whole or in part at any time for its convenience. The notice of termination shall specify that termination is for ASDM's convenience, the extent to which performance of work under the Contract is terminated and the date upon which such termination becomes effective.

The contractor may terminate the contract under the following circumstances:

- a) Where the payment of the contractor is overdue for more than 3 running bills. Overdue shall start from the last date on which he is entitled to receive such payments
- b) In the event of non-provision of dependencies by ASDM beyond 1 month from the date the request for such dependencies were raised by the contractor

**6.10. Consequences of termination of contract:**

If the contract is terminated by ASDM, it can exercise one or more of the following at its discretion:

- a) Retain such amounts from the payment due and payable by ASDM to the contractor as may be required to offset any losses caused to ASDM
- b) Invoke the Performance Bank Guarantee, forfeit the Earnest Money Deposit and recover such other costs/losses and other amounts from the contractor, which may have resulted from

such default and pursue such other rights and/or remedies that may be available to ASDM under law.

- c) Blacklist the contractor and cancel the empanelment. However, contractor shall not be blacklisted, unless and until such termination is on account of gross negligence or intentional breach of the terms of the Agreement by the contractor.
- d) Claim compensation from the contractor for any such loss, damages or other costs, incurred by ASDM.

**6.11. Settlement of Disputes:**

- a) Arbitration: In the case of a dispute or difference arising between the parties relating to any matter arising out of or connected with this Contract, such dispute or difference shall be referred to the award of two Arbitrators, one Arbitrator to be nominated by each party to the contract or in case of the said Arbitrators not agreeing, then to the award of an Umpire to be appointed by the Arbitrators in writing before proceeding with the reference, and in case the Arbitrators cannot agree to the Umpire, he may be nominated by the Secretary, Indian Council of Arbitration, New Delhi.
- b) The award of the Arbitrators, and in the event of their not agreeing, of the Umpire appointed by them or by the Secretary, Indian Council of Arbitration, New Delhi, shall be final and binding on the parties. The Arbitration and Conciliation Act 1996, the rules thereunder and any statutory modification or re-enactments thereof, shall apply to the arbitration proceedings. The venue of arbitration shall be Guwahati, India. The language of arbitration shall be in English. Each party shall bear its own cost of Arbitration.
- c) Notwithstanding any reference to the arbitration in this clause
  - i. the parties shall continue to perform their respective obligations under the Contract unless they otherwise agree;
  - ii. ASDM shall pay the contractor any amount due to the contractor.

**6.12 Confidentiality:**

Neither the contractor nor ASDM will disclose to any third party without the prior written consent of the other party any confidential information which is received from the other party for the purposes of providing or receiving Services. Each party will take measures to protect the confidential information of the other party that, in the aggregate are no less protective than those measures it uses to protect the confidentiality of its own comparable confidential information, and in any event, not less than a reasonable degree of protection. Both parties agree that any confidential information received from the other party shall only be used for the purposes of providing or receiving Services under these Conditions of Empanelment or any other Conditions of Empanelment between the parties.

These restrictions will not apply to any information which:

- a) Is or becomes generally available to the public other than as a result of a breach of an obligation under this Clause; or
- b) Is acquired from a third party who owes no obligation of confidentiality in respect of the information; or
- c) Is or has been independently developed or was known to it prior to receipt.

- d) Notwithstanding Clause mentioned above, either party will be entitled to disclose confidential information of the other (1) to its respective insurers or legal advisors on a need-to-know basis and shall ensure that such insurers and legal advisors maintain confidentiality of such information, or (2) to a third party to the extent that this is required by any or where there is a legal right, duty or requirement to disclose where reasonably practicable not less than 2 business days' notice in writing is first given to the other party.
- e) Without prejudice to the foregoing provision of this clause above selected contractor may cite the performance of the services to clients and projective clients as an indication of its experience.

**6.13 Indemnity:**

Either party shall indemnify and hold harmless the other, and its employees and officers from and against any and all losses, liabilities and costs (including losses, liabilities, and costs incurred in defending a claim alleging such a liability) that the aggrieved party or its employees or officers may suffer as a result of the death or injury of any person or loss of or damage to any property arising in connection with the supply, installation, testing, and Commissioning of the System and by reason of the negligence of the party or its employees, officers or agents, except any injury, death, or property damage caused by the negligence of the aggrieved party, its contractors, employees, officers, or agents.

**6.14 Limitation of Liability:**

Notwithstanding anything to the contrary, under no circumstances will either Party be liable for indirect or consequential losses or damages of any kind, regardless of whether any such losses or damages are characterized as arising from breach of contract, warranty, or otherwise, even if such damages are foreseeable or either or both parties have been advised of the possibility of such damages. The liability of the contractor shall not exceed the contract value in the agreement during the contract period.

**6.15 Subcontracting:**

The Contractor shall not appoint a subcontractor/affiliate to perform its obligations under this Contract without obtaining prior written approval of ASDM. ASDM's approval of a subcontractor/affiliate shall not constitute a waiver of any rights it may have based on the contractor's representations and warranties. The contractor will be fully responsible for all acts and omissions of its subcontractors and affiliates. Nothing in this Contract shall be construed to create any contractual relationship between ASDM and any subcontractor or affiliate, nor any obligation on the part of ASDM to pay or to ensure the payment of any money due to any subcontractor or affiliate. However, the Contractors are allowed to leverage their Service provider network for effective supply & services.

**6.16 Jurisdiction:**

All legal proceedings, if necessary arising to be instituted by any of the parties shall have to be lodged in courts situated in Guwahati and not elsewhere.



## 7. SPECIAL CONDITIONS OF CONTRACT

### 7.1. Responsibility of ASDM:

- a. ASDM will hand over the venue to the contractor on the day of Issue of Work Order.
- b. ASDM will facilitate the obtaining of necessary permissions from the lessor, and other authorities if required

### 7.2. Payment terms

The Payment terms will be as follows:

S. No.	Milestone	Payment Terms	Documents to be submitted
1	Mobilisation Advance	10% of contract value	On submission of Performance Bank Guarantee
2	RA bills	Monthly running bills upto 80% of contract value, based on actual progress of works. Mobilization advance will be adjusted in the RA bills.	RA Bill with supporting documents, submitted monthly and vetted by the architect and an engineer appointed by ASDM
3	Completion of the Work	After handover of the completed work to ASDM, upto 90% of contract value, within 30 days of completion	Final bill with supporting documents vetted by the architect and an engineer appointed by ASDM, and acceptance report from ASDM
4	After completion	Upto 100% of contract value	After 06(Six) months of completion of work.

### 7.3. Timelines:

The timeline for various activities will be as follows:

S. No.	Activity	Time in days
1.	Issue of Work Order	T
2.	Handover of sites by ASDM	T
3.	Completion of Work	T+90 days

### 7.4. Liquidated Damages:

If the contractor fails to perform his obligations under the Work Order, liquidated damages would be levied upon him as stated below: -

- a) Delay in any of the milestones as per the Timeline submitted and finalised between ASDM and the contractor, except the milestone in 7.4 (b): 0.5% of the value of contract for every week of delay.

- b)** Delay in handover of the completed site beyond the stipulated time as per RFP: Liquidated damages at the rate of 2% of the total value of the Work Order, per week of such delay period.

In the event that the delays/defaults/disruptions mentioned herein above, continue so as to exceed one month, the contractor in addition to levy of liquidated damages for the entire period(s) of such delays/defaults/disruptions, shall be liable for invocation of his PBG.

**Annexure I: Scope of Work & Bill of Material**

The selected contractor shall undertake the following activities:

<b>S. No.</b>	<b>Activity</b>	<b>Annexure no.</b>
1.	CIVIL WORKS	1A
2.	FIXED FURNITURES	1B
3.	FURNISHINGS AND READYMADE FURNITURES	1C
4.	ELECTRICAL WORKS	1D
5.	SANITARY WARE, SANITARY FITTINGS AND PLUMBING WORKS	1E
6.	HVAC WORKS	1F
7.	AUDIO, VIDEO SYSTEMS AND ACOUSTICS CONTROL WORKS	1G
8.	CC TV AND ACCESS CONTROL	1H
9.	DATA AND VOICE WORKS	1I
10.	FIRE DETECTION AND ALARM SYSTEM	1J

## Annexure 1A: Civil Works

S. No.	SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT
<b>1</b>	<b>DEMOLITION BRICK WORK, PLASTERING, RCC AND REINFORCEMENT</b>				
	1.1	23.2	Demolishing PCC work including stacking of steel bars and disposal of unserviceable material as directed in all levels. (i) prop 1:3:6	3.00	cum
	1.2	23.3	Demolishing RCC work including stacking of steel bars and disposal of unserviceable material as directed in all levels.	3.00	cum
	1.3	23.4	Demolishing RB work including stacking of steel bars and disposal of unserviceable material as directed in all levels.	5.00	cum
	1.4	23.7	Demolishing brickwork work including stacking of steel bars and disposal of unserviceable material as directed in all levels.	10.00	cum
	1.5	23.13	Demolishing Skirting/dado in walls /RCC &PCC members without causing damage to walls/ members upto any height including disposal of debris as directed.	5.00	cum
	1.6	4.1.4	Brick work in cement mortar with 1st class brick including racking out joints and curing complete as directed. (ii) In superstructure above plinth level up to 1st floor level.		
			(b) In proportion 1:4.(1 cement:4 sand)	49.38	cum
	1.7	4.1.5	Extra over item no. 4.1.5 above for brick work in each subsequent floor or part thereof above 1st floor level.		
	1.8		upto 2nd floor level	28.75	cum
	1.9		upto 3rd floor level	27.88	cum
	1.10		upto 4th floor level	40.25	cum
	1.11	6.2.3	20 mm thick Cement plaster in two coats on single or half brick walls for interior plastering up to 1st floor level including arises, internal rounded angles, chamfers and / or rounded angles not exceeding 80mm in girth and finished even and smooth including curing complete as directed.		
	1.12		A) On rough side (backing coat 15 mm and finishing coat 5mm thick)b) In cement mortar 1:4 upto 1st floor level	335.00	Sq.M.
	1.13		Extra o for interior plastering above 1st floor level for every addl floor or part thereof including curing complete as directed. b) On two coat plaster		
	1.14		upto 2nd floor level	210.00	Sq.M.
	1.15		upto 3rd floor level	200.00	Sq.M.
	1.16		upto 4th floor level	297.00	Sq.M.
	1.17		B) On fair side (backing coat 10 mm and finishing coat 10mm thick) In cement mortar 1:4 upto 1st loor level	335.00	Sq.M.
	1.18		Extra over item no 6.2.1to 6.2.3 for interior plastering above 1st floor level for every addl floor or part thereof including curing complete as directed.		
	1.19		upto 2nd floor level	210.00	Sq.M.
	1.20		upto 3rd floor level	200.00	Sq.M.
	1.21		upto 4th floor level	297.00	Sq.M.
	1.22	2.2.1	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm downgraded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately)		
	1.23		(i) Using Mixer Machine		
	1.24		(B) In super structure from plinth level up to 1st floor level.		
	1.25		ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing ) including preparing the top surface and finishing of nosing.		
	1.26		N) Without using admixture, plasticiser		
	1.27		b) M20 grade concrete or Prop. 1:1.5:3	8.36	Cum
	1.28	18.1.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)		
	1.29		a) From Primary Producer: TATA/SAIL/Esser Steel/ Jindal steel/Shyam steel/RINL		
	1.3		(ii) Super Ductile (SD) TMT reinforcement bars	11.00	Qtl
	1.31	3.1.1	Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in:		
	1.32	3.1.1.4	Sides and Soffits of Beams, beam haunchings, cantilever girders, bressumers, lintels and horizontal ties.		
			(a) For depth not exceeding 1.0M.		
			(ii) Using 25mm thick plank	149.00	Sq.M.
<b>2</b>	<b>WALL PANELLING</b>				
	2.1	NS 1	Providing, Fixing and Finishing 12mm /6mm Plyboard Panelling of required thickness fixed over Sal Wood /Gypsteel Frame of size 50mm x 38mm & 50mm x 50mm made of required section as per design finished with 4mm veneer /12.5mm Fire Line Gypsum Board as specified, complete with necessary hardware and fittings as specified and directed.	45.00	sqm
<b>3</b>	<b>PARTITION WALLS</b>				

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S. No.	SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT
	3.1	NS 2	Providing, Fixing and Finishing 6mm Plyboard partition wall of required thickness fixed over Sal Wood Frame /Gyp steel flanged studs of size 50mm x 38mm made of required section as per design finished with 12/6 mm BWR grade plywood on both sides finished with 1 mm laminate as specified and as per design complete with necessary hardwares and fittings as specified and directed.	35.00	sqm
	3.2	NS 3	Providing, Fixing and Finishing partition wall of required thickness fixed with 12 mm thick BWR grade Plywood of approved brand on both sides with 25mm drywall screw at 300 mm c/c to one side of 75 mm studs (0.55 mm thk having one flange of 34mm and another of 36 mm made og GI steel with joints staggered. 12mm ply wood shall be finished with 1mm thick laminate of approved brrand as per desaign and as directed.	520.00	sqm
	3.3	7.2.6	Supplying, fitting, fixing and painting where necessary (one coat primer and two coats of paint)97 mm metal stud partition (single layer) including one layer of 12.5 mm thk gypsum board fixed with 25mm drywall screw at 300 mm c/c to one side of 75 mm studs (0.55 mm thk having one flange of 34mm and another of 36 mm made og GI steel with joints staggered with jointing the tapered and square edges of gypboard with joint tape to have a flushed look and two coats of drywall coats as per design and as directed.	402.00	Sq.M.
	3.4	NS 4	Providing and fixing 2.4m high FRAMELESS GLASS INTERNAL PARTITIONS at all locations with 12mm clear tempered glass or as per elevation drawings enclosed with approved make of 316 grade patch connector S.S. fittings of DORMA/Ozone or equivalent make , fixed with S.S. screws or with fixing clips including necessary filling up gaps at junction, at top, bottom u channel make jindal and sides with required weather silicon with backer rod shall be inserted between aluminium section channel and glass as well as both inside and outside around the periphery of the glass to make the glazing water tight and air tight as shown in enclosed drawings and directions of Engineer-in-charge. Glasswork including making suitable holes in the glass before tempering process of glass, for installation complete as per design drawings. The periphery shall have to be sealed both from inside and outside with silicon weather sealant to make the glazing water and air tight.The sealing of glass to patch connector hardware with stainless steel fixtures as detailed in drawings. Silicon sealant grade shall be "Dow coming - USA" or "WACKER - Germany" or approved equivalent as per the design requirement. The partition shall be aligned for the entire height and for the entire length by laser beam equipment to ensure 100 percent X-axis and Y-axis alignment. The glass joints must be properly sealed with weather silicon to make the joint water tight and air tight as well. as per directions of Engineer-In-Charge.	201.00	Sq.M.
	3.5	NS 5	Providing & fixing Greenlam Sturdo Classique Evergreen Toilet Cubicle (with standard dimension of 2025mm Height x 1000mm Width x 1550mm Depth, which includes 600mm door size width including I-Shape (Front Partition) with standard dimension of 2025mm Height x 1000mm Width which includes 600mm door size width.) made of heat, bacteria, water, chemical, scratch, impact and anti bacterial resistant 12mm thick solid compact laminate panels tested by Shriram Test House. Finish of the compact laminate should be Suede / *Raw silk, which includes doors, pilasters & intermediate panels finished with approved texture/shade as per the detail drawings & as per IS 2046 (Indian Standard) and as per fire retardant BS-476/97 standard. The product should have Green Guard Certificate. This also includes providing and fixing in position necessary hardware made out of Stainless steel (Grade 304) as per manufacturer's specifications & Architects instructions like (1) Door Knob, (2) Gravity Hinges, (3) Thumb tum lockset with Occupancy indicators, (4) Coat hooks with Door stopper (5) U-Channels, (6) Adjustable foot/pedestal, (7) Top rail with Corner connector (8) Rubber noise deafening tape, (9) Screws & wall Plugs. The top fitting should consist of SS round top rail which will get fixed with pilasters, with SS panel tube holder, SS corner bend (connected with top rail) will be used on the corner of cubicle in absence of brick wall, SS wall fixing is used only on the wall which will hold the ss top rail.	38.00	each
<b>4</b>	<b>FLOORING AND FLOOR/WALL FINISHES</b>				
	4.1	NS 6	Providing, laying and fixing of Flotex flooring with nylon fibre 6.6 pile, 80m fibres per sq. mt. with two layer PVC foam and compact PVC layer with fibre glass net reinforcement to make suitable for mechanical wet cleaning.The flooring to be lain over even tiled flooring with necessary adhesive.	470.00	Sq.M.
	4.2	NS 7	Providing, fitting and installing of Armstrong make 10.5 mm thick Engineered Hard wood flooring with 02 mm thick underlay with T profile, skirting and reducer as per design and as directed.	230.00	Sq.M.
	4.3	NS 8	Providing fitting and fixing Armstrong make 12mmx75mm one side rounded edge wooden skirting as approved and directed.	100.00	Rm
	4.4	NS 9	Providing, fitting and installing of Carus Roll carpet of 9 mm thick including laying of 8 mm thick PUF as underlay as per approved shade and as directed.	390.00	Sq.M.
	4.5	5.7.2.1	Providing VITRIFIED floor tiles of approved quality of specified size, shape and thickness not less than 18mm on floors, skirtings, risers and treads of steps over 15 mm thick base of cement mortar in prop. 1:3 (1 cement : 3 coarse sand ) including cutting where necessary finished with flush pointing with Fix-A-Tile (Choksey/Sika/Pedelite/Rouf) / white cement slurry mixed with approved pigment to match shade of tiles, mixed with approved pigment to match the shade of the tiles, complete at all levels as specified and directed. (Coloured pigment should be in conformity with colour of tiles and as approved and directed by the Department)		
			a) Normal range Somany/ Orient/Nitco /Varmora/VITA/ Marbitto/ Make ii) Of size 600mmx600mm and above	1.00	Sq.M.
			b) Executive range Somany/ Orient/Nitco /Varmora/VITA/ Marbitto/ Make i) Of size 800mmx800mm and above	1.00	Sq.M.

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			c) Delux range Somany/ Orient/Nitco /Varmora/Jhonson Make. i) Of size 1000 mm x 1000 mm and above	1.00	Sq.M.
			ii) Of size 1200mmx1600mm and above	1.00	Sq.M.
	4.6	NS 10	Providing, fitting and installing of 6.5 mm thick PVC matt sports flooring including laying and jointing by heat welding as per approved shade and as directed.	63.00	Sq.M.
<b>5</b>	<b>PAINTING, POLISHING AND CHEMICAL ETCHING</b>				
	5.1	13.3.4	Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) - Thickness = 1.5 mm thick	7,000.00	Sq.M.
	5.2	13.2.3(a)	a) Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	7,000.00	Sq.M.
	5.3	13.4.1	Wall painting (two coats) with acrylic emulsion paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) on new surface to give an even shade after thoroughly brushing the surfaces free from mortar droppings and other foreign matter and sand papered smooth - Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	7,000.00	Sq.M.
	5.4	13.4.2	Extra for every subsequent coat of wall painting with acrylic emulsion paint of approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac) - Acrylic Emulsion Paint approved brand and manufacture (Asian paint/ Berger paint/ ICI paint/ J & N paint/ Nerolac)	7,000.00	Sq.M.
	5.5	14.2.1	Polishing with french sprit polishing on new wood and wood based surfaces to give an even surface including cleaning the surface of all dirt, dust sand papered smooth and including a coat of wood filter	324.00	Sq.M.
	5.6	NS 11	Designing on glasses where ever required as per engineer - in- charge chemical etched with HF	90.00	Sq.M.
<b>6</b>	<b>WALL PAPER</b>				
	6.1	NS 12	Supply fitting and pasting of wall paper on existing painted wall surface as per choice of design and texture with glue and edges cut to give a even look both vertically and horizontally.	68.00	Sq.M.
<b>7</b>	<b>DOORS AND ARCHITRAVE</b>				
	7.1	NS 13	Providing ditting and fixing of 35 mm thk BWP grade (green/century/archid or equivalent)solid core flush door with 6mm glass panels finished with 1mm thk laminate (green/century or equivalent make) on both sides as per design including nessecary harware fittings including door closer, door mortice lock, SS himges, door stopper as directed.	145.00	Sq.M.
	7.2	9.18.1(b)	Providing, fitting and fixing factory made <b>Santro Flush door shutters</b> having core & cross bands fabricated from seasoned 1st class timber, 25mm core battens, 2.5mm to 3.5mm uniformly thick cross bands, styles & rails made from hardwood timber of width not less than 50mm, fixed to the door frames (chowkath) with necessary hinges, screws, bolts etc. as specified and directed at all levels (Door fixtures and fittings to be measured and paid seperately.) 35 mm thick	40.00	Sq.M.
	7.3	9.1.2(b)	Providing wood work in frame (chowkaths) of doors, windows, clerestory windows and other similar works wrought, framed and fixed in position in contact with C.C or brick masonry wall including supplying, fitting and fixing with M.S. hold fast (40mmx3mmx250mm) as per design embeded in cement concrete block in proportion 1:2:4 and with two coats of kiricide oiling to the timber faces in contact with C.C and masonry as directed and specified. With 1st class timber (Bonsum/ Sundi)	4.00	cum
	7.4	NS 14	Providing fitting and fixing of ply wood panelling over chowtkahs on 3 sides finished with 4mm thick veneer and 25-35 mm x 10- 12 mm teakwood architrave(as per design) finished with melamine spray polish including necessary hardwares as per design and as directed.	110.00	Rm
	7.5	11.7.2(a)	Providing, fitting and fixing anodised aluminium framed glazed doors with anodised aluminium frame made of 100mm x 45mm x 2.5mm section with door style of size 88mm x 45mm x 2.5mm, top rails 50mm x 45mm x 2mm and bottom rails 100mm x 45mm x 2.5mm fitted with glazing clip, special type rubber gasket complete etc complete as specified and directed by the department at all levels.with 12 mm thick toughened glass	18.00	Sq.M.
	7.6	NS 15	Providing, supplying and fixing of Frameless Single leaf/double Swing Glass Door of Doma/ Ozone or equivalent make in glazing using 12mm thick toughened glass of Saint Gobain / or approved equivalent with die cast patch fitting with stainless steel cover including fixing of patch fittings, floor springs, locks, handles etc. using the hardware items as detailed, complete in all respects as per detailed drawings, specifications and direction of Engineer in charge. Single Leaf Door with Dorma or Equivalent Hardware's as specified:- Swing Glass Door which includes each of Top Pivot PT 24, Bottom Patch PT 10, Top Patch PT 20, Floor Lock US 10, Strike Plate , Floor Spring BTS 75v, with pair of TGDIH SS Pull Handle 25 mm dia x 450 mm long and other accessories for self closing feature as per detailed drawings.	107.00	Sq.M.
<b>8</b>	<b>CEILING WORKS</b>				
	8.1	7.11.1(A)	Providing fitting and fixing of Mineral fibre Acoustic ceiling tiles of 600mm x 600 mm of 13/15 mm thickness to be placed in E - grid suspended ceiling grid 2430 system consisting of main runner 3600 mm long, cross Tee 1200 mm long/600mm long and wall angle. the wall angle shall be fixed on PVC dash fasteners on the perimeter of wall; by steel screws @ 300 mm c/c. Main runner shall be placed along the shorter dimension of the area to be covered. The distance between the 2 main runners to be maintained at 1200 mm. The cross Tee 1200 mm to be will be inserted in a pre cut slots of main runer at a regular interval of 600 mm to form a	786.00	Sq.M.

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			regular interval of 600 mm to form a modular grid of 1200mm x 600 mm. Additional cross Tees of 600 mm to be place perpendicular to the cross tee 1200 mm long to finally form a grid of 600mm x 600 mm. E - grid of module size 600 mm x 600 mm shall be supported by 4/6 mm dia G.I wire from soffits mineral fibre acoustics ceiling tiles of Armstrong/US Boral/ Everest make to be placed in E- grid module to form a false ceiling including cuttings for light fittings as directed and specified using 13 mm thk perforated ceiling tiles.		
	8.2	7.2.1	Supplying, fitting, fixing and painting where necessary (one coat primer and two coats of paint) M/F Suspended Ceiling which includes G.I. perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling, screw fixed to brick wall/ partition with the help of nylon sleeves and screws, at 610mm c/c. Then suspending G.I. intermediate channels of size 45mm (0.9mm thick with two equal flanges of 15mm each) from the soffit at 1220mm c/c with ceiling angle of width 25mmx10mmx0.55mm thick fixed to soffit with G.I. cleat and steel expansion fasteners. Ceiling sections of 0.55 mm thk with knurled web of 51.5 mm and two equal flanges of 26mm each with lips of 10.5 mm fixed to the intermediate channel with connecting clips perpendicular to the intermediate channel at 457mm c/c and 12.5 mm thk gypboard fixed to the ceiling sections with 25 mm drywall screws at 230mm c/c. the boards joints are finished with joint paper and two coats of drywall topcoat at all levels including cutting for providing and fixing light fixtures whwre ever necessary. and as p[er] design.	3,217.00	Sq.M.
<b>9</b>	<b>WALL TILES</b>				
	9.1	5.7.1.2	Providing polished ceramic tiles of approved quality size, shape and thickness not leaa than 8mm on walls and skirting over cement mortar base 10 mm thick in prop 1:3 (1 cement: 3 coares sand) including cutting where necessary finished with flushed pointing with Fix A Tile(Choksey/Sika/Pidilite/Rouf, white cement slurry) mixed with approved pigment to match shadow of tiles complete at all levels as specified and directed.)cement, plastering to be measured and paid separately) (color pigment should be in conformity with colour of tiles as approved and directed by the department) for both interior and exoerior walls.(c) Delux range Somany/ Orient/Nitco/Vamora Make		
			ii) Of size 300mmx450mm and above	400.00	Sq.M.
			iv) Of size 300mmx600mm and above	560.00	Sq.M.
<b>10</b>	<b>SLIDING FOLDING PARTITION</b>				
	10.1	NS 16	Providing fitting and installing of DORMA HSW glass manual sliding partitions, 1.25 mt width and max. 4 mt height, consisting of individually movable elements with 100 mm height & 32 mm thick top/bottom rail fitted with 10 / 12 mm clear toughened glass, suspended from a top track only, each element must have top/bottom horizontal aluminium clamping profiles, clamping covers and plastic end covers. The sealing for top and bottom can be done with optional flexible contact seals. The system shall be of all glass with fixing only at top and bottom. The system shall have panels with locking device provided per element with floor bolt. Also the locking of elements to one another by interlocking profiles to prevent lever attack. The end panels shall be of swing doors. The entire system should be hanged by the help of heavy duty track with 2 multi directional rollers per element providing smooth movements.The track shall be affixed to the main structure with suitable accessories after leveling and straightening. Also the longevity and ease of operation depends on the precision and level of track achieved before the partition is installed. These panels are thereafter suspended in the track and checked for smooth operation, parallel horizontal movement. Levels : The bottom of the track level is on the same height as the false/Finished ceiling. Finish : The finish shall be satin stainless steel / silver anodized top/bottom rail with 10 / 12mmthick clear toughened glass, complete with all hardwares and accessories and sound baffle barrier.	30.25	Sq.M.

## Annexure 1B: Fixed Furniture

S. No.	SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT
<b>11</b>	<b>CABINET AND STORAGE UNITS</b>				
	11.1	NS 17	Providing fitting and fixing of full height (above 1200 mm) storage cabinet with horizontal shefls and solid shutters, all made with 19 mm thk BWP grade blockboard(green/century or equivalent make), inside finished with 0.8 mm white laminate and outside with 1mm thk green/century make laminate complete with all necessary hardwares complete as per design and as directed.	75.00	Sq.M.
	11.2	NS 18	Providing fitting and fixing of low height (750-1200 mm) storage cabinet with horizontal shefls and solid shutters, all made with 19 mm thk BWP grade blockboard(green/century or equivalent make), inside finished with 0.8 mm white laminate and outside with 1mm thk green/century make laminate complete with all necessary hardwares complete as per design and as directed.	5.00	Sq.M.
	11.3	NS 19	Providing fitting and fixing of low height (750-1200 mm) storage cabinet with horizontal shefls and solid shutters, all made with 19 mm thk BWP grade blockboard(green/century or equivalent make), inside finished with 0.8 mm white laminate and outside with 1mm thk green/century make laminate including an additional 18 mm thick granite as per approved shade to be fixed over the blockboard top including necessary cutting and installation of sink/basin as per design and as directed.	70.00	Sq.M.
	11.4	NS 20	Providing fitting and fixing of low height (750-1200 mm) storage cabinet with horizontal and vertical shefls all made with 19 mm thk BWP grade blockboard(green/century or equivalent make), inside and outside with 1mm thk green/century make laminate finished as per design and as directed.	14.00	Sq.M.
<b>12</b>	<b>TABLES</b>				
	12.1	NS 21	Providing, fitting and fixing of restaurant tables with 50mm x 50 mm 1st class timber frame as per design finished with melamine sparay polish including table top made with Green/Century/Samrat or equivalent make 19 mm thick BWR grade plywood with 38 mm revealed edge finished with 1 m thick laminate of approved brand complete as per design and as directed.		
		i)	6 Seater	3.00	each
		ii)	4 Seater Round	13.00	each
		iii)	2 Seater	3.00	each
	12.2	NS 22	Providing, fitting and fixing of restaurant /study chairs with 38 mm x 38 mm 1st class timber frame as per design finished with melamine sparay polish of approved shade including seat and back rest with HD foam complete with leatherite cover complete as per design and as directed.	77.00	each
	12.3	NS 23	Providing, fitting and fixing of bar/cash counter with Green/Century/ Artchid/ Samrat or equivalent make 19 mm blockboard and 19 mm plywood as per design including drawers, storage units to be finished with 0.8 mm laminate on inner sides and 1.0 mm laminates on outer siodes with the serving top finished with 12 mm thick Korean/18 mm thick granite complete as per design and as directed.	22.00	Sq.M.
	12.4	NS 24	Bar Stool with 1st class teak wood with leatherite cushion and exposed wood fininshed with melamine polish complete as per design and as directed.	12.00	each
	12.5	NS 25	Providing fitting and fixing of king size bed with head board with 19 mm thk BWP grade blockboard(green/century or equivalent make), inside finished with enamel paint and outside with 1mm thk green/century make laminate including foam padding with leatherite finished panel on the headboard as per design including necessary hardwares as per design and as directed.	3.80	Sq.M.
	12.6	NS 25	Providing fitting and fixing of single bed with head board with 19 mm thk BWP grade blockboard(green/century or equivalent make), inside finished with enamel paint and outside with 1mm thk green/century make laminate including foam padding with leatherite finished panel on the headboard as per design including necessary hardwares as per design and as directed.	4.60	Sq.M.
	12.7		study cum mini bar cabinet unit with 19 mm block board finished with 1 mm thick laminatre of approved brand with complete with all hardwares as per design and as directed	1.00	Each
	12.8		luggage cum dress unit unit with 19 mm block board finished with 1 mm thick laminatre of approved brand complete as per design and as directed	1.00	Each
<b>13</b>	<b>VERTICAL BLINDS</b>				



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S. No.	SL NO	SOR NO	DESCRIPTION	QUAN TITY	UNIT
	13.1	15.7.1 (A)	Supply fitting and fixing of Mac/Vista or equivalent make vertical blinds with necessary hardwares like runner channels etc with 100 mm width fabric blinds and as per choice and directed.	653.00	Sq.M.

## Annexure 1C: Furnishings and Readymade Furniture

	SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT
<b>14</b>	<b>FURNISHINGS</b>				
	14.1	NS 26	Matress Double	7.00	each
	14.2	NS 27	Matress Single	2.00	each
	14.3	NS 28	Matress protector	9.00	each
	14.4	NS 29	Bedsheet double	14.00	set
	14.5	NS 30	Bedsheet single	4.00	set
	14.6	NS 31	Bed pillow	18.00	each
	14.7	NS 32	Comforter double	7.00	each
	14.8	NS 33	Comforter single	2.00	each
	14.9	NS 34	Bed runner double	7.00	each
	14.10	NS 35	Bed runner single	2.00	each
	14.11	NS 36	Big size towel	18.00	each
	14.12	NS 37	Small size towel	18.00	each
	14.13	NS 38	Bathrobe	9.00	each
	14.14	NS 39	Dustbin as per choice and as directed	42.00	each
<b>15</b>	<b>CURTAINS</b>				
	15.1	NS 40	Providing stitching and fixing and fitting of curtain against glass partitions in slots provided in the gypsum ceiling with approved fabric, shade, colour and texture.	560.00	mtr
	15.2	NS 41	Providing fitting and fixing of drapery rods as approved and directed.	85.00	mtr
<b>16</b>	<b>READYMADE FURNITURES</b>				
	16.1	NS 42	<b>PRINCIPAL CABIN TABLE</b>		
			<b>MAIN TABLE</b> : 2400W X 900D X 750HT		
			<b>SIDE STORAGE</b> : 1500 W X 450D X 750 HT SLIDING DOOR		
			<b>BACK STORAGE</b> : 750 W X 450D X 750 HT - 1 NOS		
			<b>BACK STORAGE</b> :900W X 750D X 750HT- 2 NOS, SLIDING DOOR		
			Specification:		
			<b>Table top</b> : 25mm thick Pre-laminate particle board finished with 2mm edge lipping.		
			Supported On – Gable end and modesty panel.		
			<b>Back Storage</b> : Storage is made of 18mm PLB with Sliding shutters,		
			adjustable shelves, locking mechanism and recessed handles.		
			Wire Management : Grommet Hole provided on table top.		
			<b>MOBILE PEDESTAL 2D+1F</b>		
			<b>SIZE</b> : 400W x 450D x 640HT		
			<b>Pedestal</b> : Pedestal are made of 18mm thick PLB with 2 drawer		

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				units and 1 filling folder unit. The Drawer units are made mobile		
				with the use of castors. The. drawer units are provided recessed		
				handle and suitable locks		
				<b>CPU TROLLEY AND KEYBOARD TRAY</b>		
				<b>Make:</b> Featherlite	1.00	each
	16.2	NS 43		<b>VICE PRINCIPAL CABIN TABLE</b>		
				<b>MAIN TABLE :</b> 2100W X 900D X 750HT		
				<b>SIDE STORAGE:</b> 1350 W X 450D X 750 HT SLIDING DOOR		
				<b>BACK STORAGE:</b> 750 W X 450D X 750 HT - 2 NOS		
				<b>BACK STORAGE:</b> 900W X 750D X 750HT- 1 NOS, SLIDING DOOR		
				Specification:		
				<b>Table top :</b> 25mm thick Pre-laminate particle board finished with 2mm edge lipping.		
				Supported On – Gable end and modesty panel.		
				<b>Back Storage :</b> Storage is made of 18mm PLB with Sliding shutters,		
				adjustable shelves, locking mechanism and recessed handles.		
				Wire Management : Grommet Hole provided on table top.		
				<b>MOBILE PEDESTAL 2D+1F</b>		
				<b>SIZE:</b> 400W x 450D x 640HT		
				<b>Pedestal :</b> Pedestal are made of 18mm thick PLB with 2 drawer		
				units and 1 filling folder unit. The Drawer units are made mobile		
				with the use of castors. The. drawer units are provided recessed		
				handle and suitable locks		
				<b>CPU TROLLEY AND KEYBOARD TRAY</b>		
				<b>Make:</b> Featherlite	1.00	each
	16.3	NS 44		<b>NEO 50 WORKSTATION</b>		
				<b>MAIN TOP :</b> 1350W X 600D X 750HT TABLE TOP AND 1200HT		
				PARTITIONS		
				<b>Side Storage:</b> 900W x 450D x 750 HT Sliding door		
				<b>Specification:</b>		
				Partition: NEO 50, Height 1200 mm		
				<b>Table top :</b> 25mm thick Pre-laminate particle board finished		
				with 2mm edge lipping.		
				Tile Finishes:		
				Above Table top level: Glass marker tile & one magnetic tile		
				per workstation.		
				Below Table top level: Pre-laminated tiles and metal		
				skirting tile.		
				Support : MS Brackets and gable ends		
				Wire Management : Grommet Hole provided on table		

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				top.		
				Raceway provided below table top for Power and Skirting		
				Level for Data.		
				<b>CPU TROLLEY AND KEYBOARD TRAY</b>		
				<b>Make:</b> Featherlite	26.00	each
	16.4	NS 45		<b>EXCUETIVE TABLE (MGR)</b>		
				<b>MAIN TABLE :</b> 1500W X 600D X 750HT		
				<b>SIDE STORAGE:</b> 900W X 450D X 750 HT		
				<b>Specification:</b>		
				<b>Table top :</b> 25mm thick Pre-laminate particle board finished		
				with 2mm edge lipping.		
				Supported On – Gable end and modesty panel.		
				<b>SIDE Storage :</b> Storage is made of 18mm PLB with Sliding shutters,		
				adjustable shelves, locking mechanism and recessed handles.		
				Wire Management : Grommet Hole provided on table top.		
				<b>MOBILE PEDESTAL 2D+1F</b>		
				<b>SIZE:</b> 400W x 450D x 640HT		
				Pedestal : Pedestal are made of 18mm thick PLB with 2 drawer		
				units and 1 filling folder unit. The Drawer units are made mobile		
				with the use of castors. The. drawer units are provided recessed		
				handle and suitable locks		
				<b>CPU TROLLEY AND KEYBOARD TRAY</b>		
				<b>Make:</b> Featherlite	6.00	each
	16.5	NS 46		<b>EXCUETIVE TABLE (MGR)</b>		
				<b>MAIN TABLE :</b> 1500W X 600D X 750HT		
				<b>SIDE STORAGE:</b> 750W X 450D X 750 HT		
				<b>Specification:</b>		
				<b>Table top :</b> 25mm thick Pre-laminate particle board finished		
				with 2mm edge lipping.		
				Supported On – Gable end and modesty panel.		
				<b>SIDE Storage :</b> Storage is made of 18mm PLB with Sliding shutters,		
				adjustable shelves, locking mechanism and recessed handles.		
				Wire Management : Grommet Hole provided on table top.		
				<b>MOBILE PEDESTAL 2D+1F</b>		
				<b>SIZE:</b> 400W x 450D x 640HT		
				Pedestal : Pedestal are made of 18mm thick PLB with 2 drawer		
				units and 1 filling folder unit. The Drawer units are made mobile		
				with the use of castors. The. drawer units are provided recessed		
				handle and suitable locks		

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				<b>CPU TROLLEY AND KEYBOARD TRAY</b>		
				<b>Make:</b> Featherlite	2.00	each
	16.6	NS 47		<b>OFFICE TABLE (PA &amp; TEACHERS TABLE)</b>		
				<b>MAIN TABLE :</b> 1500W X 600D X 750HT		
				<b>Specification:</b>		
				Table top : 25mm thick Pre-laminate particle board finished		
				with 2mm edge lipping.		
				handle and suitable locks		
				Wire Management : Grommet Hole provided on table top.		
				<b>MOBILE PEDESTAL 2D+1F</b>		
				<b>SIZE:</b> 400W x 450D x 640HT		
				Pedestal : Pedestal are made of 18mm thick PLB with 2 drawer		
				units and 1 filling folder unit. The Drawer units are made mobile		
				with the use of castors. The. drawer units are provided recessed		
				handle and suitable locks		
				<b>CPU TROLLEY AND KEYBOARD TRAY</b>		
				<b>Make:</b> Featherlite	11.00	each
	16.7	NS 48		<b>OFFICE TABLE (Back Office)</b>		
				<b>MAIN TABLE :</b> 1200W X 600D X 750HT		
				<b>Specification:</b>		
				Table top : 25mm thick Pre-laminate particle board finished		
				with 2mm edge lipping.		
				Supported On – Gable end and modesty panel.		
				Wire Management : Grommet Hole provided on table top.		
				<b>MOBILE PEDESTAL 2D+1F</b>		
				<b>SIZE:</b> 400W x 450D x 640HT		
				Pedestal : Pedestal are made of 18mm thick PLB with 2 drawer		
				units and 1 filling folder unit. The Drawer units are made mobile		
				with the use of castors. The. drawer units are provided recessed		
				handle and suitable locks		
				<b>CPU TROLLEY AND KEYBOARD TRAY</b>		
				<b>Make:</b> Featherlite	6.00	each
	16.8	NS 49		<b>OFFICE TABLE (Support Staff)</b>		
				<b>MAIN TABLE :</b> 900W X 600D X 750HT		
				<b>Specification:</b>		
				Table top : 25mm thick Pre-laminate particle board finished		
				with 2mm edge lipping.		
				Supported On – Gable end and modesty panel.		
				Wire Management : Grommet Hole provided on table top.		
				<b>Make:</b> Featherlite	16.00	each

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	16.9	NS 50	<b>OFFICE TABLE (Customer Office)</b>		
			<b>MAIN TABLE : 2100W X 900D X 750HT</b>		
			<b>Specification:</b>		
			Table top : 25mm thick Pre-laminate particle board finished		
			with 2mm edge lipping.		
			Supported On – Gable end and modesty panel.		
			Wire Management : Grommet Hole provided on table top.		
			<b>MOBILE PEDESTAL 2D+1F</b>		
			<b>SIZE:</b> 400W x 450D x 640HT		
			<b>Pedestal :</b> Pedestal are made of 18mm thick PLB with 2 drawer		
			units and 1 filling folder unit. The Drawer units are made mobile		
			with the use of castors. The. drawer units are provided recessed		
			handle and suitable locks		
			<b>CPU TROLLEY AND KEYBOARD TRAY</b>		
			<b>Make:</b> Featherlite	3.00	each
	16.10	NS 51	<b>IT TRAINING ROOM</b>		
			<b>Specification:</b>		
			Table top : 25mm thick Pre-laminate particle board finished		
			with 2mm edge lipping.		
			Support: Supported on Perform Legs and 18mm thick modesty		
			panel of 450 mm ht at front.		
			Wire Management: 300 mm flip up at table top with cable dump		
			and vertebra to be considered.		
	16.11	NS 51 A	3 Seater linear non sharing		
			Size: 1650 L x 600 D x 750 ht		
			CPU TROLLEY AND KEYBOARD TRAY (2 Nos each)	9.00	each
	16.12	NS 51 B	2 Seater linear non sharing		
			Size: 1650 L x 600 D x 750 ht		
			CPU TROLLEY AND KEYBOARD TRAY (2 Nos each)	6.00	each
	16.13	NS 51 C	3 Seater linear non sharing		
			Size: 750 L x 600 D x 750 ht		
			CPU TROLLEY AND KEYBOARD TRAY (1 No each)	12.00	each
	16.14	NS 51 D	2 Seater linear non sharing		
			Size: 750 L x 600 D x 750 ht		
			CPU TROLLEY AND KEYBOARD TRAY (1 No each)	16.00	each
	16.15	NS 52	<b>CLASS ROOM TABLE</b>		
			<b>Specification:</b>		
			Table top : 25mm thick Pre-laminate particle board finished		
			with 2mm edge lipping		
			Support: Supported on Perform Legs and 18mm thick modesty		

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			panel of 450 mm ht at front. Mesh book shelves to be provided at each table (as per image)		
			Note: All are individual tables not linear.	125.00	each
	16.16	NS 53	<b><u>U-SHAPED CONFERENCE TABLE</u></b>		
			<b>MAIN TABLE : 2400W X 900D X 750HT</b>		
			<b>SIDE TABLE : 1350W X 900D X 750HT (6 NOS)</b>		
			<b>Table Top : Table top 25mm thick pre laminated particle board</b>		
			finished with 2mm edge lipping.		
			<b>Support : Supported on gable ends and modesty panel.</b>		
			Wire Management - 7nos 300mm Flip Up with cable tray is		
			considered in each table with vertical wire entry cover.		
			<b>Make: Featherlite</b>	1.00	each
	16.17	NS 54	<b><u>MEETING TABLE</u></b>		
			<b>Main Table: 3000 W x 1200 D x 750 Ht</b>		
			<b>Specification:</b>		
			<b>Table top : 25mm thick Pre-laminate particle board finished</b>		
			with 2mm edge lipping.		
			<b>Support : Gable ends and modesty panel of 18mm thick.</b>		
			Wire Management : 2 Nos 300mm Flip Up with cable tray is		
			considered in the table with vertical wire entry cover.		
			<b>Make: Featherlite</b>	1.00	each
	16.18	NS 55	<b><u>DISCUSSION TABLE</u></b>		
			<b>Main Table: 1200 DIA x 750 Ht</b>		
			<b>Specification:</b>		
			<b>Table top : 25mm thick Pre-laminate particle board finished</b>		
			with 2mm edge lipping.		
			<b>Support : Connect legs.</b>		
			<b>Make: Featherlite</b>	1.00	each
	16.19	NS 56	<b><u>CAFETRIA TABLE FOLDABLE</u></b>		
			<b>Specification:</b>		
			<b>Table top : 25mm thick Pre-laminate particle board finished</b>		
			with 2mm PVC edge lipping pn all exposed edges		
	16.20	NS 56 A	<b>Size: 800W x 800D</b>	2.00	each
	16.21	NS 56 B	<b>Size: 1200W x 800 D</b>	16.00	each
	16.22	NS 57	<b><u>STORAGE</u></b>		
			<b>Specification:</b>		
			Storage is made of 18mm PLB with openable shutters, adjustable shelves, auto hinges, locking mechanism and recessed handles.		
			<b>Size: 750 x 450 x 1200 ht</b>		
			<b>Make: Featherlite</b>	28.00	each

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	16.23	NS 58	<b>MODEL: TANGO</b>		
			Cafeteria Chair		
			Moulded plastic chair		
			<b>Make:</b> Featherlite	68.00	each
	16.24	NS 59	<b>MODEL: MAGNA FLIP VA WD( Small) class room chair</b>		
			Plastic Seat		
			Plastic Back		
			Fixed Arms		
			Powdercoated with castors.	40.00	each
	16.25	NS 60	<b>MODEL: MAGNA MULTIPURPOSE ROOM CHAIR</b>		
			Cushioned Seat		
			Plastic Back		
			Powdercoated Four Legs	160.00	each
	16.26	NS 61	<b>MODEL: MAGNA Class room chair</b>		
			Plastic Seat		
			Plastic Back		
			Powdercoated Four Legs	160.00	each
	16.27	NS 62	<b>MODEL: SMART MBG ( SUPPORT STAFF)</b>		
			Smart Mesh Back		
			Tilting Mechanism		
			Fixed Arms		
			Nylon Base		
			<b>Make:</b> Featherlite	28.00	each
	16.28	NS 63	<b>MODEL: SMART VA (VISITORS)</b>		
			Smart Low Mesh Back Visitors chair		
			Powdercoated Four Legs		
			<b>Make:</b> Featherlite	24.00	each
	16.29	NS 64	<b>MODEL: CONTACT PROJECT MB (ALL STAFF &amp; TEACHERS)</b>		
			Medium Mesh Back Chair		
			Single Lock Synchro Mechanism		
			Fixed Arms		
			Nylon Base		
			<b>Make:</b> Featherlite	86.00	each
	16.30	NS 65	<b>MODEL: CONTACT PROJECT HBGS ADJ ARMS ( PRINCIPAL &amp; VICE PRINCIPAL)</b>		
			High Mesh Back Chair		
			Single Lock Synchro Mechanism		
			Fixed Arms		
			Nylon Base		
			<b>Make:</b> Featherlite	2.00	each
	16.31	NS 66	<b>MODEL: CONTACT PROJECT VA (VISITOR PRINCIPAL &amp; VICE PRINCIPAL)</b>		
			Contact Project		



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				Mesh Back		
				Visitors chair		
				Powdercoated Sledge Base		
				Fixed Arms		
				<b>Make:</b> Featherlite	9.00	each
	16.32	NS 67		<b>MODEL: STOOL 7-91</b>		
				<b>Make:</b> Featherlite	30.00	each
	16.33	NS 68		<b>MODEL: 238-15 Pearl</b>		
				Sofa Single Seater		
				Leatherette Sofa		
				Chrome Frame		
				<b>Make:</b> Featherlite	9.00	each
	16.34	NS 69		<b>Centre Table For Reception Area</b>		
				<b>Model:</b> Ambassador		
				Square table		
				Glass top with wooden frame		
				Size: 501 x 502 mm		
				<b>Make:</b> Featherlite	2.00	each
<b>17</b>	<b>BEDS</b>					
	17.1			King Size Bed	5.00	LS
	17.2			Single Bed	2.00	LS

## Annexure 1D: Electrical Work

S. No.	SI No	SOR No	Description	Qty	Unit
18	<b>CONDUIT WIRING</b>				
	18.1	2.17	Wiring for light/fan/call bell point with 3x1.5 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system with 20mm dia 2mm thick / heavy rigid PVC IS: 9537 Part - III conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) ceiling rose etc. complete		
		2.17.1	Short point up to 3.00 metre. length.	724	Each
		2.17.2	Medium point up to 6.00 metre. Length.	384	Each
		2.17.3	Long point up to 10.00 metre. Length.	645	Each
	18.2	2.12	Wiring to a 5 pin 6 Amps plug point with 1.5 sq. mm P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel or Equivalent Make as approved by the Deptt.) in surface/ recessed 2 mm thick/ heavy rigid ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system including earth continuity with 1.5 sq. mm. cable to third pin of the plug socket etc. as required complete.		
		2.12.1	Short point up to 3.00 metre. length.	50	Each
		2.12.2	Medium point up to 6.00 metre. Length.	100	Each
		2.12.3	Long point up to 10.00 metre. Length.	213	Each
	18.3		Wiring for 5/6 pin 16 Amps power plug point with 4 sq. mm. P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel or Equivalent Make as approved by the Deptt.) in surface/ recessed conduit wiring system including earth continuity with 2.5 sq. mm cable to the 3rd pin of the socket as required complete with 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.)		
		2.13.1	Short point up to 3.00 metre. length.	6	Each
		2.13.2	Medium point up to 6.00 metre. Length.	5	Each
		2.13.3	Long point up to 10.00 metre. Length.	25	Each
	18.4	2.9	Wiring for drawing sub-main line with P.V.C. insulated single core unsheathed industrial (Multistrand) cable FR conforming to IS-694: 1990 with flexible bright annealed electrolytic copper conductor for voltage grade up to 1100 volts (Finolex /RR Kabel or Equivalent Make as approved by the Deptt.) in surface/ recessed PVC 20 mm. dia. 2mm thick/ heavy ISI marked IS: 9537 PART - III rigid PVC conduit (Berlia/ AKG / Precision/ Presto Plast/Polycab/ MW or equivalent make as approved by the Deptt.) wiring system.		
		2.6.1	With 2 x 1.5 sq. mm. cable in 20 mm dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	145	Metre.
		2.6.2	With 3 x 1.5 sq. mm. cable in 20 mm dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	240	Metre.
		2.7.1	With 2 x 2.5 sq. mm. + earth continuity with 1x1.5 sq. mm. in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	1980	Metre.
		2.7.2	With 2 x 4 sq. mm. + earth continuity with 1x2.5 sq. mm. cable in 20 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	456	Metre.
		2.9.1	With 4 x 2.5 sq. mm. + earth continuity with 2 x 1.5 sq. mm. cable in 25 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	650	Metre.
		2.9.2	With 4 x 4 sq. mm. + earth continuity with 2x2.5 sq. mm. cable in 25 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	340	Metre.
		2.9.3	With 4x 6 sq. mm. + earth continuity with 2x4 sq. mm. cable in 32 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	640	Metre.
		2.9.4	With 4 x 10 sq. mm. + earth continuity with 2x6 sq. mm. cable in 40 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	360	Metre.
		2.9.5	With 4 x 16 sq. mm. + earth continuity with 2x10 sq. mm. cable in 40 mm. dia. 2mm thick/ heavy rigid PVC IS: 9537 Part - III conduit.	250	
19	<b>MODULAR SWITCH</b>				
	19.1	SB. 8.2	Supplying with fitting and fixing of 120 watt electronic modular STEP speed control 2 - module type MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.		
		SB. 8.1.1	120 watt electronic modular step speed control 2 - module type WHI	5	Each
	19.2	SB. 8.3	Supplying with fitting and fixing of 6 amp one way modular clip in bell push MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	10	Each
	19.3	SB. 8.4	Supplying including installation of socket outlet 10/16 Amps 3/5 pin combine shuttered complete , MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE).	50	Each

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S. No.	SI No	SOR No	Description	Qty	Unit
			SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.		
	19.4	SB. 8.5	Supplying including installation of socket outlet 6/10/13 Amps INTERNATIONAL SOCKET , MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	313	Each
	19.5	SB. 8.7	Supplying with fitting and fixing of 16 amp one way modular clip in switch, MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	50	Each
	19.6	SB. 8.8	Supplying with fitting and fixing of 6/10 amp one way modular clip in switch, MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	800	Each
	19.7	SB. 8.11	Supplying with fitting and fixing of 6/10 amp two way modular clip in switch , MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	6	Each
	19.8	SB. 8.12	Supplying with fitting and fixing of 16 amp two way modular clip in switch , MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	2	Each
	19.9	SB. 8.13	Supplying including fitting and fixing of following Metal boxes for MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) in surface/ recessed system complete as per direction of department.		
		SB. 8.13.1	1-2 module type Metal	12	Each
		SB. 8.13.2	3 module type Metal	30	Each
		SB. 8.13.3	4 module type Metal	42	Each
		SB. 8.13.4	6 module type Metal	160	Each
		SB. 8.13.5	8 module type Metal	120	Each
		SB. 8.13.7	12 module type Metal	40	Each
		SB. 8.13.8	18 module type Metal	20	Each
	19.10	SB. 8.15	Supplying including fitting and fixing of following MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) front plate of suitable colour as per direction of department.		
		SB. 8.14.2	2 module	12	Each
		SB. 8.14.3	3 module	30	Each
		SB. 8.14.4	4 module	42	Each
		SB. 8.14.5	6 module	160	Each
		SB. 8.14.6	8 module	120	Each
		SB. 8.14.8	12 module	40	Each
		SB. 8.14.9	18 module	18	Each
	19.11	SB. 8.15	Supplying including fitting and fixing of TV SOCKET, MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	20	Each
	19.12	SB. 8.18	Supplying with fitting and fixing of blank plate single in modular switch system , MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	50	Each
	19.13	SB. 8.19	Supplying with fitting and fixing of 25A Modular Motor Starter 2M , MODEL RANGE LEGRAND (ARTEOR), ANCHOR (AVE), MK (BLENZE), SCHNEIDER (ZENSELO), CRABTREE(MURANO) including making necessary connection as per direction of department.	50	Each
<b>20</b>	<b>DISTRIBUTION BOARD, MCB, MCCB etc</b>				
	20.1	15.14	Supplying with fitting and fixing sheet steel, phosphatised, powder painted dust & vermin proof reversible Double door (IP-43) surface mounting horizontal TPN MCB DB incorporated with bus-bar, Neutral link, Earth bar and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.		
		15.14.1	(Schneider neo break, C&S, Havells, INDOASIAN, Standard, HPL or equivalent Make as approved by the Deptt.)		

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S. No.	SI No	SOR No	Description	Qty	Unit
		15.14.1.1	4 way TPN (8+12) double door	8	Each
		15.14.1.2	6 way TPN (8+18) double door	8	Each
		15.14.1.3	8 way TPN (8+24) double door	8	Each
		15.14.1.4	12 way TPN (8+36) double door	2	Each
	20.2	15.21	Supplying with fitting and fixing MCCB incomer and MCB outgoing sheet steel, phosphatised, powder painted single door surface mounting vertical TPN MCB DB incorporated with bus-bar, Neutral link, Earth bar up to 125A and din rail etc fitted on wall with grouting nuts & bolts as reqd. complete with making necessary connection as approved, specified and directed by the deptt.		
		15.21.1	(ABB, Schneider MG, legrand, Hager, Crabtree xpro make)		
		15.21.1.2	8 way TPN (4+24) single door	4	Each
	20.3	16.1	Supplying with fitting and fixing single Pole 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		
		16.1.1	B Series (Schneider MG, legrand, Hager, Crabtree xpro make)		
		16.1.1.1	6 to 32A	245	Each
		16.1.2	C Series (Schneider MG, legrand, Hager, Crabtree xpro make)		
		16.1.2.1	6 to 32A	86	Each
		16.1.3	3. D Series (ABB, Schneider MG, legrand, Hager, Crabtree xpro make)		
		16.1.3.1	6 to 32A	42	Each
	20.4	16.3	Supplying with fitting and fixing DP 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		
		16.3.1	B Series (ABB, Schneider MG, legrand, Hager, Crabtree xpro make)		
		16.3.1.1	6 to 32A	15	Each
		16.3.2	C Series (ABB, Schneider MG, legrand, Hager, Crabtree xpro make)		
		16.3.2.1	6 to 32A	16	Each
	20.5	16.6	Supplying with fitting and fixing 4P 10 KA 240/415V 50Hz MCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		
		16.6.1	B Series (Schneider MG, legrand, Hager, Crabtree xpro make)		
		16.6.1.1	6 to 32	8	Each
		16.6.1.2	40A	4	Each
		16.6.1.3	63A	4	Each
		16.6.2	C Series (ABB, Schneider MG, legrand, Hager, Crabtree xpro make)		
		16.6.2.1	6 to 32	4	Each
		16.6.2.2	40A	2	Each
		16.6.2.3	63A	4	Each
	20.6	16.7	Supplying with fitting and fixing 30/100/300mA sensitivity 240/415V 50Hz DP RCCB of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		
		16.7.2	100/300mA sensitivity DP RCCB (ABB, Schneider MG, legrand, Hager, Crabtree xpro make)		
		16.7.2.1	25A	24	Each
		16.7.2.2	40A	24	Each
	20.7	16.16	Supplying with fitting and fixing panel mounting open execution 25KA 415V 50Hz 4P MCCB (Ics=Icu, adjustable Ir setting 0.7) without enclosure of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		
		16.16.1	25 KA 415V 50 Hz 4P MCCB (Schneider, legrand, Siemens, Indo Asian make)		
		16.16.1.4	63A	1	Each
		16.16.	80A	1	Each

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S. No.	SI No	SOR No	Description	Qty	Unit
		1.5			
		16.16.1.6	100A	1	Each
	20.8	16.17	Supplying with fitting and fixing panel mounting open execution 35/36KA 415V 50Hz 4P MCCB (lcs=lcu, adjustable Ir setting 0.7) without enclosure of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		
		16.17.1	35/36 KA 415V 50 Hz 4P MCCB (Schneider, legrand, Siemens make)		
		16.17.1.1	160A	8	Each
		16.17.1.2	250 A	1	Each
	20.9	16.18	Supplying with fitting and fixing panel mounting open execution 50KA 415V 50Hz 4P MCCB (lcs=lcu, adjustable Ir setting 0.5-1, neutral adjustable with earth fault protection and with rotary handle without enclosure of the following capacity complete with making necessary connection as approved, specified and directed by the deptt.		
		16.18.1	50 KA 415V 50 Hz 4P MCCB (Schneider, legrand, Siemens make)		
		16.18.1.3	800 A	2	Each
<b>21</b>	<b>PANEL BOARD</b>				
	21.1		21.23 Supplying, Fabrication, Erection ,Testing commissioning of vermin and dust proof (IP-43 protection) totally enclosed cubical type compartmental floor mounting panel board of size 2300mm x11500mm x 500 mm made of 16 SWG (1.66mm thick) C.R. sheet and 300mm x 30mmx5mm MS Angle having 4 nos. legs at the bottom and C.R. sheet roofing on the top complete painting with 2 coats of Red Oxide metal primer and 2 coats of Enamel paint. The panel board is to be erected in 1 :3:6 PCC foundation including excavation complete neatly wiring done, with the provision for the following electrical accessories. Incomer 800 A 4P MCCB and provision for 11 nos TPN MCCB 0-500 V (Digital) Voltmeter 1 0-800 A (Digital) Ammeter 1 Voltmeter Selector Switch 1 Ammeter Selector Switch 1 Indicator Lamp (R,Y, B) 3 2A Slide Lock fuse 3 800/5 CT Coils 3 Control Wiring along with required size of copper bus bar 1 (Incoming and Outgoing MCCB/MCB will be paid extra)	1	Each
	21.2		21.1 Supplying, Fabrication, Erection ,Testing commissioning of vermin and dust proof (IP-43 protection) totally enclosed cubical type compartmental floor mounting panel board of size 1450mm x 1000mm x 500mm made of 16 SWG (1.66mm thick) C.R. sheet and 300mm x 30mmx5mm MS Angle having 4 no legs at the bottom and C.R. sheet roofing on the top complete painting with 2 coats of Red Oxide metal primer and 2 coats of Enamel paint. The panel board is to be erected in 1 :3:6 PCC foundation including excavation complete neatly wiring done, with the provision for the following electrical accessories. Incomer 125A ,4Pole 25KA AC 415V MCCB with D.P. Handle OUTGOING TPN MCB 5nos 0-125A (Digital) Ammeter 1 0-500V (Digital) Ammeter 1 Ammeter Selector Switch 1 Voltmeter Selector Switch 1 Indicator Lamp (R,Y, B) 3 2A Slide Lock fuse 3 125/5 CT Coils 3 Control Wiring along with required size of copper bus bar 1 (Incoming and Outgoing MCCB/MCB will be paid extra)	9	Each
<b>21</b>	<b>CABLE MV/ TRAYS</b>				
	21.1	32.1	Supply and laying of following size PVC/XLPE insulated and PVC sheathed 1.1 KV Grade Solid Aluminium conductor up to 10 sq mm balance stranded conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Armour (Aluminium for single core up to 70 sq mm balance Aluminium strip, Galvanised for cables up to 2x10 sq mm,3x10 sq mm,4x6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 sheathed, 650/1100V grade as per IS 7908(Part 1) 1988 armoured U.G. cable U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make or equivalent) .		
		32.1.3	3 & 1/2 Core A2XFY		
		32.1.3.1	25.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	45	Metre
		32.1.3.2	35.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	30	Metre
		32.1.3.3	50.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	190	Metre
		32.1.3.4	70.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	200	Metre
		32.1.3.5	95.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	25	Metre
		32.1.3.6	120.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	15	Metre
		32.1.3.9	240.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	100	Metre

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S. No.	SI No	SOR No	Description	Qty	Unit
		32.1.3.10	300.00 Sq. mm.3 & 1/2 Core armoured U.G. cable	100	Metre
	21.2	32.3	Supply and laying of following size Power/Control Copper cables, Solid Copper conductor, XLPE Insulated, cores laid up, PVC tape inner sheathed, Unarmoured/Armour (Galvanised for cables up to 10 x 1.5 sq mm.8 x 2.5 sq mm.2 x 10 sq mm.3 x 10 sq mm.4 x 6 sq mm balance all galvanised steel strip) , extruded PVC Type ST2 Sheathed, 650/1100 V grade as per IS 7098 (Part 1) 1988, U.G. cable laid in ground/partially in air (as required for termination over ground including excavation of cable trench up to depth of 75cm, refilling, protective brick covering, Sand cushioning etc complete handling of surplus spoil, debris et to proper place as specified and directed by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make or equivalent) .		
		32.3.2	3 core A2XWY A2XFY		
		32.3.2.1	4.00 Sq.mm 3 Core armoured U.G. cable	256	Metre
		32.3.2.2	6.00 Sq.mm 3 Core armoured U.G. cable	350	Metre
		32.3.2.3	10.00 Sq.mm 3 Core armoured U.G. cable	25	Metre
		32.3.4	4 Core, 2XWY 2XFY		
		32.3.4.1	4.00 Sq. mm.4 Core U.G. armoured cable	360	Metre
		32.3.4.2	6.00 Sq. mm.4 Core U.G. armoured cable	480	Metre
		32.3.4.3	10.00 Sq. mm.4 Core U.G. armoured cable	120	Metre
		32.3.4.4	16.00 Sq. mm.4 Core U.G. armoured cable	280	Metre
	21.3	32.6	Supply and laying 11/33 KV HT 3 core Stranded compact Circular Aluminium Conductor, Conductor Screen With Extruded Semi Conducting compound, XLPE Insulated, Insulation Screening with truded Semi Conducting compound in combination with Copper Tape (0.3kA for 1 se , cores laid up, inner sheath of PVC tape, galvanised flat steel strip armoured and overall PVC Sheathed cable conforming to IS 7098 / (PART-I 1985 with latest amendment cable laid through medium duty hot dip galvanised pipe (AKG or equivalent as approved by the Deptt.) / partially in air as required for connection as directed, including excavation of trench, refilling reconstruction of damaged done to road, drain, wall et as specified by the deptt. (Nicco/ Havells/ RPG/CCI/Polycab/Gloster/ Finolex make or equivalent)		
		32.6.9	185sq mm 3 Core armoured 11 KV H.T. U.G. cable laid through 150mm dia hot dip galvanised pipe (AKG or equivalent as approved by the Deptt.)	45	Metre
	21.4	33.1	SUPPLYING FITTING AND FIXING OF (DOWELLS/ COMET make) DOUBLE compression BRASS GLANDS WITH NICKEL - PLATED		
		33.1.1	WEATHERPROOF (CBW) Size: 8 - 10, 3/4 "	8	Each
		33.1.2	FLAMEPROOF (CBF) Size: 8 - 10, 3/4 "	6	Each
		33.1.3	WEATHERPROOF (CBW) Size: 1Size: 2.5 - 16, 3/4 "	5	Each
		33.1.4	FLAMEPROOF (CBF) Size: 1Size: 2.5 - 16, 3/4 "	4	Each
		33.1.5	WEATHERPROOF (CBW) Size: 16.5 - 18, 3/4 "	7	Each
		33.1.6	FLAMEPROOF (CBF) Size: 1Size: 2.5 - 16, 3/4 "	7	Each
		33.1.7	WEATHERPROOF (CBW) Size: 16.5 - 18, 1 "	6	Each
		33.1.8	FLAMEPROOF (CBF) Size: 1Size: 2.5 - 16, 1 "	2	Each
		33.1.9	WEATHERPROOF (CBW) Size: 18.5 - 20, 1 "	6	Each
		33.1.10	FLAMEPROOF (CBF) Size: 18.5 - 20, 1 "	5	Each
		33.1.11	WEATHERPROOF (CBW) Size: 20.5 - 23, 1 "	14	Each
		33.1.12	FLAMEPROOF (CBF) Size: 20.5 - 23, 1 "	15	Each
		33.1.13	WEATHERPROOF (CBW) Size: 23.5 - 26, 1- 1/4 "	20	Each
		33.1.14	FLAMEPROOF (CBF) Size: 23.5 - 26, 1- 1/4 "	1	Each
	21.5	33.2	SUPPLYING FITTING AND FIXING OF (DOWELLS/ COMET make) SINGLE compression BRASS GLAND HEAVY DUTY		
		33.2.6	SINGLE compression BRASS GLAND HEAVY DUTY Size: 1 - 1/8"	4	Each
		33.2.7	SINGLE compression BRASS GLAND HEAVY DUTY 1-1/4"	4	Each
		33.2.8	SINGLE compression BRASS GLAND HEAVY DUTY Size: 1 - 3/8"	4	Each
		33.2.9	SINGLE compression BRASS GLAND HEAVY DUTY Size: 1 - 1/2"	4	Each
		33.2.10	SINGLE compression BRASS GLAND HEAVY DUTY Size: 1 - 3/4"	4	Each
	21.6	33.3	SUPPLYING FITTING AND FIXING OF (DOWELLS/ COMET make Copper tube terminal heavy duty BIS 4579		
		33.3.1	Copper tube terminal heavy duty BIS 4579 Size: 1.5 - 5	150	Each
		33.3.2	Copper tube terminal heavy duty BIS 4580 Size: 1.5 - 6	150	Each
		33.3.3	Copper tube terminal heavy duty BIS 4581 Size: 2.5	200	Each
		33.3.4	Copper tube terminal heavy duty BIS 4582 Size: 4	150	Each
		33.3.5	Copper tube terminal heavy duty BIS 4583 Size: 6	160	Each
		33.3.6	Copper tube terminal heavy duty BIS 4584 Size: 10	120	Each
		33.3.7	Copper tube terminal heavy duty BIS 4585 Size: 16	80	Each

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S. No.	SI No	SOR No	Description	Qty	Unit
	21.7	33.9	Supplying, installation of GI PERFORATED cable tray on wall or from ceiling including necessary channel, nuts and bolts, washer etc. as required as directed and specified by the department. (LEGRAND/ AKG /STRUTFAST make).		
		33.9.1	Size of Tray		
		33.9.1.4		152	60 Metre
		33.9.1.5		203	150 Metre
		33.9.1.6		228	250 Metre
		33.9.1.7		304	150 Metre
		33.9.2	Bend		
		33.9.2.4		152	12 Each
		33.9.2.5		203	15 Each
		33.9.2.6		228	25 Each
		33.9.2.7		304	20 Each
		33.9.3	Inter/Exter Bend		
		33.9.3.4		152	6 Each
		33.9.3.5		203	10 Each
		33.9.3.6		228	8 Each
		33.9.3.7		304	9 Each
		33.9.4	Tee		
		33.9.4.4		152	15 Each
		33.9.4.5		203	12 Each
		33.9.4.6		228	18 Each
		33.9.4.7		304	10 Each
		33.9.5	4 Way		
		33.9.5.4		152	4 Each
		33.9.5.5		203	6 Each
		33.9.5.6		228	8 Each
		33.9.5.7		304	10 Each
	21.8	33.17	Supplying, installation of pre galvanised sheet steel std thickness 1.6mm under floor trunking including necessary nuts and bolts, washer etc. as required, as directed and specified by the department. (MK/ LEGRAND make) Size		
		33.17.1	50X25X1.6/1 compartment	30	Metre
		33.17.2	75X25X1.6/1 compartment	25	Metre
		33.17.3	100X25X1.6/1 compartment	60	Metre
		33.17.4	225X25X1.6/3 compartment	70	Metre
		33.17.2	JOINT SLEEVE		
		33.17.2.1	50/1/ 6 FOR 25mm	5	Each
		33.17.2.2	50/1/ 6 FOR 38mm	6	Each
		33.17.2.3	75/1/ 6 FOR 25mm	10	Each
		33.17.2.4	75/1/ 6 FOR 38mm	12	Each
		33.17.2.5	100/1/ 6 FOR 25mm	15	Each
		33.17.2.6	100/1/ 6 FOR 38mm	18	Each
		33.17.2.7	150/2/ 6 FOR 38mm	23	Each
		33.17.	225/3/ 6 FOR 25mm	25	Each

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S. No.	SI No	SOR No	Description	Qty	Unit
		2.8			
		33.17.2.9	225/3/ 6 FOR 38mm	25	Each
		33.17.3	Access point		
		33.17.3.1	250x250x60 - 75mm 3 compartments	25	Each
		33.17.5	JUNCTION BOX		
		33.17.5.1	150x150x60 - 75 mm Depth	30	Each
		33.17.5.2	250x250x60 - 75 mm Depth	30	Each
	21.9	22.11	Supply, installation & testing of Copper Plate earth station with 600 mmx600 mmx6 mm heavy duty copper earth plate with necessary 40 mm dia. G.I. medium duty watering pipe with G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement with 300 mmx300 mmx6 mm C.I. hinged cover plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt .	8	Each
	21.10	22.13	Extra for using salt 5 Kg and Charcoal 96 Kg in G.I./Copper plate Earth Station pit to provide low impedance ground in location of high soil resistivity as and when required and specified by the deptt .	16	Each
	21.11	22.9	Supply, installation & testing of G.I. Plate earth station with 600 mmx600 mmx6 mm heavy duty G.I. earth plate with necessary 40 mm dia. G.I. watering pipe with G.I. Fittings such as Socket, Tee, elbow, nipple and 50 mmx40 mm G.I. reducing socket for funnel including locking arrangement with 300 mmx300 mmx6 mm hinged cover C.I. cover plate complete with digging of earth pit, construction of brick chamber and plastering of both inner & outer surface of wall as specified and directed by the deptt .	8	Each
	21.12	22.21	Supplying & laying of 25x6 mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.	120	Metre.
	21.13	22.22	Supplying & laying of 32x6 mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.	160	Metre.
	21.14	22.23	Supplying & laying of 50x6 mm size G.I. strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of G.I. nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.	100	Metre.
	21.15	22.24	Supplying & laying of 25x4 mm size Copper strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of Brass nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.	220	Metre.
	21.16	22.25	Supplying & laying of 25x5 mm size Copper strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of Brass nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.	50	Metre.
	21.17	22.26	Supplying & laying of 30x5 mm size Copper strips drawn on surface from earth electrode to Electrical switch gears, machineries etc complete with supply of Brass nuts & bolts, screws etc including riveting, soldering & making necessary connection as approved, specified and directed by the deptt.	20	Metre.
	21.18	22.15	Supplying & laying of 6 SWG G.I. earth from Earth Electrode (below G.L.) to electrical switch gears or electrical machineries including making necessary connection as approved, specified and directed by the deptt.	260	Metre.
	21.19	22.16	Supplying & laying of 8 SWG Copper. earth from Earth Electrode (below G.L.) to electrical switch gears or electrical machineries including making necessary connection as approved, specified and directed by the deptt.	45	Metre.
<b>22</b>	<b>LUMINARIES</b>				
	22.1	ECBC. 3.11	Supplying, installation, testing and commissioning of the following indoor Decorative recessed typed mirror optics down lighter luminaries complete with all accessories such as ballast, starter etc. In the false ceiling type Armstrong /Gypsum or similar ceiling mounting with necessary support with 1.5 sq.mm. P.V.C. insulated S.C.copper conductor as required and as directed by the department		
	22.2	NS 70	Havells make Destello Suspended 25 W 857 50 mm white LED	1	Each
	22.3	NS 71	Havells make Destello Recessed 25 W 857 50 mm white LED	5	Each
	22.4	NS 72	Havells make Consta 40 W 857 1144 LED	30	Each
	22.5	NS 73	Havells make Mondo 25 W 857 400 mm white LED	5	
	22.6	NS 74	Havells makeLED Flexi Strip 24 W 830 IP 20 5 mtr	300	mtr
	22.7	NS 75	Havells makeLED strip Driver upto 24W	69	Each
	22.8	NS 76	Havells make Integra 15 W 857 LED round type recessed down lighter	145	Each
	22.9	NS 77	Havells make Edgepro 6 W 857 LED round type recessed down lighter	155	Each
	23	ECBC. 3.11.2	DNI 9IB LED 9 S 6500 PSU WH/ 4000 PSU WH/ 3000 PSU WH		
		5		300	Each
	23.1	ECBC. 3.11.2	DNI 9IB LED 12 S 6500 PSU WH/ 4000 PSU WH/ 3000 PSU WH	120	Each



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S. No.	SI No	SOR No	Description	Qty	Unit
		6			
	23.2	NS 78	Havells make Sparkle Pro Snoot 20 W 840 40 LED round type spot light	10	Each
	23.3	NS 79	Havells make Sparkle Pro Snoot 30 W 840 40 LED round type spot light	10	Each
	23.4	ECBC. 3.19	Supplying and fixing of Jaquar Philips/ Wipro/Havells or equivalent LED down lighter fittings complete with Shade, back plate including connection cable, as approved by the Deptt.s etc. as required.		
	23.5	NS 80	Havells make Venus Neo 24 W 857 2 x 2 LED square type recessed down lighter	50	Each
	23.6	NS 81	Havells make Venus Neo LED Downlight,2"2,34W 6000K	90	Each
	23.7	27.2	Supplying including fitting and fixing of following A.C. Exhaust fan in the existing hole on the wall of following sweeps with making necessary connection as approved by the Deptt. as required complete and as directed by the Department.		
	23.8	27.2.1	Domestic		
	23.9	27.2.1. 2	Power Flow 225 mm sweep (ORIENT make)	5	Each
	24	27.4	Supplying including fitting and fixing of following A.C. Wall fan in the wall of following sweeps with making necessary connection as approved by the Deptt. as required complete and as directed by the Department.		
	24.1	27.4.1	(CROMPTON /ORIENT/Havells/USHA or equivalent make)		
	24.2	27.4.1. 1	SDX 120 with metal body metal blade 400 mm sweep	160	Each
<b>22</b>	<b>TRANSFORMER, UPS</b>				
	25.1	S.B. 17.7	<p>Supplying installation testing and commissioning of 11/0.4KV 500 KVA compact sub station with APFC panel as details below:-</p> <p>HT Switchgear (Compact Switchgear)</p> <p>Outdoor type package substation with facility for internal lighting, earthing, padlocks etc. connection (or equivalent as approved by the Deptt.) between RMU &amp; transformer will be by 3 nos. 1Cx95 sq.mm. Aluminium XLPE cable and connection (or equivalent as approved by the Deptt.) from transformer to LT ACB will be by Aluminium busbar connection (or equivalent as approved by the Deptt.).</p> <p>"RMU-NON-Extensible 2 isolators (C), 1 Vacuum circuit breaker(T2), al busbars, make - SCHNEIDER/ABB/SIEMENS/ CROMPTON</p> <p>C FUNCTION Type:- 3 position Disconnection (or equivalent as approved by the Deptt.) and Earthing switch equipped with separate drive unit.</p> <p>1. Operation of LBS- Manual.</p> <p>2. Cable Switch Rating- 12KV, 630 A , 21 KA/3 sec.</p> <p>3. Cable Bushing Rating- 630 A ,</p> <p>4. Cable Cover:- As per Company standard,</p> <p>5. Fixed type Capacitive voltage indication,</p> <p>6. On/Off/EARTH Switch via MIMIC,</p> <p>7. Bottom Cable Termination- Suitable up to 300sq. mm. .</p> <p>T2 FUNCTION Type:- 3 position Disconnection (or equivalent as approved by the Deptt.) and Earthing switch equipped with separate drive unit. T2 equipped with over current time release for transformer protection.</p> <p>1. Vacuum circuit breaker 12 kV, 630 A , 21 KA/3 sec.</p> <p>2 Operation of breaker – MANUAL</p> <p>3 Self Powered Electronic numerical protection relay providing over-current &amp; earth fault protection – relay.</p> <p>4 Ring core protection current transformers.</p> <p>5 Aux. contacts for VCB. ( 2 no + 2nc )</p> <p>6 Capacitive voltage indication fixed type.</p> <p>7 ON, OFF, TRIP indication on the front mimic of the panel.</p> <p>8 Cable box for termination of cable up to 1 No. x 300 sq. mm.</p> <p>9 Cable cover standard.</p> <p>10 Emergency trip push button.</p> <p>11 Shunt trip coil – 230 V AC.</p> <p>"</p> <p>Transformer rating</p> <p>"TRANSFORMER (Manufactured as per IS 2026).</p> <p>TYPE:- ONAN, Hermitically sealed. make -Kotsons/Danish/Nucon</p> <p>1. Ratio- 11KV/433V,</p> <p>2. Capacity:- 500 KVA,</p> <p>3. Vector Group- DYn11,</p> <p>4. Off Load Tapings-+/-5% in steps of 2.5%,</p> <p>5. Winding- Double wound copper,</p> <p>6. Class of Insulation- A,</p> <p>7. Ambient Temperature- 50Deg C,</p> <p>8. Temperature rise in winding over ambient- 50Deg C,</p> <p>9. Temperature rise in oil over ambient- 40Deg C,</p> <p>9. Max losses at 50% loading - 1600 watts</p> <p>10. Max losses at 100% loading - 5500 watts</p> <p>11. Impedance - 4.5% ( IS tol applicable)</p> <p>"</p> <p>Transformer Accessories</p> <p>Winding Temperature indicator</p> <p>Oil Temperature indicator</p> <p>LT Switchboard</p> <p>LT BUSBARS- ALUMINIUM</p> <p>Voltage Rating- 433V</p>		

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S. No.	SI No	SOR No	Description	Qty	Unit
			Current Rating- 800 A R/Y/B indicating lamps LT PANEL Incomer ACB, 800 A, 4 Pole , 65 KA, microprocessor based over current, short circuit and earth fault release . make -SCHNEIDER/ABB/SIEMENS/ CROMPTON On, OFF, TRIP lamps - Provided. make -SCHNEIDER/ABB/SIEMENS/ CROMPTON APFC PANEL- 180 KVAR Incomer:400 A, 3P, 36KA,TMD based MCCB,Type - CVS . make : SCHNEIDER/ABB/SIEMENS/ CROMPTON Digital VAF Meter make : SCHNEIDER/ABB/SIEMENS/ CROMPTON Phase indicating Lamps. [R, Y, B] make : SCHNEIDER/ABB/SIEMENS/ CROMPTON Current Transformer-400/5A, CI-1 10VA make : Kappa/Precise On/Off Indication Lamp make : SCHNEIDER/ABB/SIEMENS/ CROMPTON APFC Relay: 6 stage, make : SCHNEIDER/ Beluk or equivalent Control Transformer. Fans make : Hicool Capacitor type - VarplusCan Capacitor @440V mode - Auto Steps :- 15 KVAR – 2 STEPS Step protection -32 A, 3P, 10Ka , MCB Capacitor Duty Contactor - 15 KVAR Steps :- 25 KVAR – 2 STEPS Step protection - 63 A, 3P, 10Ka , MCB Capacitor Duty Contactor - 25 KVAR Steps :- 50 KVAR – 2 STEPS Step protection - 100 A, 3P, 36 Ka , TMD ,MCCB Capacitor Duty Contactor - 25 KVAR APFC Cable - ENCLOSURE- HV KIT EARTHING - ALUMINIUM TROLLEY COPPER FLEXIBLE		
		S.B. 17.7.1	With Oil type Transformer"N.B. :-Package Sub-station will be complete with the internal interconnection (or equivalent as approved by the Deptt.) & earthing. Accessories required for the external connection (or equivalent as approved by the Deptt.) of HT & LT cables like termination kits , lugs , glands etc & extending of earth bar to earth pits is included in the scope of work. Civil work for package substation is extra to be paid separately."	0	Each
		SB. 16.2	Supplying including installation of UPS		
	25.2	SB. 16.2.2 4	15 KVA On-Line UPS System (Orion or equivalent make as approved by the Deptt.) with PWM-IGBT technology 360V AC Input (300V – 470V) 3 Ph input- 1 Ph output with Isolation Transformer 12KW output with 0.8 PF, 120 min backup using SMF battery	2	each

## Annexure 1E: Sanitary ware, Sanitary Fittings and Plumbing works

S. No	SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT
23	SANITARY WARE, SANITARY FITTINGS AND PLUMBING WORKS				
	23.1	1.4(c)(iv)	Providing fitting and fixing of Jaquar make white vitreous china wall hung dual flush coupled water closet extended type (European type WC pan) with seat and head CP brass hinges and rubber buffers, CI/MS brackets (cat no LYSWHT0309 Lyric) as directed.	39.00	Each
	23.2	1.7	Providing fitting and fixing vitreous china flat back type lipped front urinal basin of with automatic flushing cistern with standard flush pipe and CP brass spreader and brass unions, etc. complete including painting of fittings and brackets, cutting and making good the walls & floors wherever required.		
	23.3		C) Jaquar make		
	23.4		a) White		
	23.5		(i) Urinal (Cat. No.URS-WHT-0704) with Sensor (Cat. No.SNR-CHR-51097)	17.00	Each
	23.6	1.13	Providing vitreous China wash basin with CI/MS brackets, C.P brass chain with plug,PVC waste pipe including painting of fittings and brackets, cutting and making good the walls wherever required. (Pillar cock, stop cocks, waste coupling are to be paid separately)		
	23.7	1.13.6	Under Counter Basin		
	23.8		(C) Jaquar Make		
	23.9		(i) Florentine (Cat. No. FLS-WHT-0401)	39.00	Each
	23.10	NS 82	Hindware make Square type under counter CAT no Garnet 10080	18.00	
	23.11	1.22(i)(a)	Providing fitting and fixing of chrome plated Jaquar make soap dish (cat no ACN 1131 N)	48.00	each
	23.12	1.20.1(iii)(c)	Providing fitting and fixing of Jaquar make Glass self copmplete as directed	8.00	each
	23.13	1.23(i)(a)	Providing fitting and fixing of Jaquar make liquidsoap dispenser and liquid soap container complete as directed.	25.00	each
	23.14	1.24(a)(ii)	Providing fitting and fixing of chrome plated 600 mm long Jaquar make Towel rail complete as directed.	11.00	each
	23.15	1.26(a)(ii)	Providing fitting and fixing of Jaquar make chrome plated Towel ring complete as directed.	52.00	each
	23.16	1.27	Providing, fitting and fixing Chrome Plated robe hook complete as directed and specified.		
	23.17		(a) Jaquar make		
	23.18		(i) Continental (Cat.No. ACN-1191N)	45.00	each
	23.19	1.31	Providing, fitting and fixing Chrome Plated TOILET PAPER holder complete as directed and specified.		
			(a) Jaquar make		
			(i) Continental toilet paper holder (Cat.No. ACN-1151N)	39.00	each
		1.12(A)(a)	Supplying fitting and fixing glass division plate of Jaquar make including fitting and fixing compete as directed and specified.	17.00	each
		1.19(A)(a)	Providing fitting and fixing Decorative Mirror complete as directed and specified.Parryware Make Size 800mm x 600mm	24.00	each
		1.32	Providing, fitting and fixing Chrome Plated waste coupling complete as directed and specified.		
			(a) Jaquar Make		
			(i) 32mm (HT/FT) (Cat.No.ALD-705 / 709)	70.00	each
		1.33	Providing, fitting and fixing Chrome Plated bottle trap complete as directed and specified.		
			(a) Jaquar make		
			(ii) Bottle trap (with internal partition) 32mm size with 300mm long wall connection pipe (Cat.No. ALD-769B)	49.00	each
		1.35	Supplying fitting and fixing bath tub including providing necessary fittings complete as directed and specified.(pipes will be measured and paid separately)		
			(d) Jaquar Make		
			(ii) Elba (1800mmx800mm), plain bathtub	1.00	each
		NS 83	Hindware make Health Faucet CAT no 160001	39.00	
		1.39	Providing fitting and fixing PVC cowel of ISI make complete as directed and specified.		
			(i) 160mm dia. PVC cowel of ISI make	4.00	each
			(ii) 110mm dia. PVC cowel of ISI make	4.00	each
		1.42	C.P. Grating		
			(ii) 110mm dia	90.00	each
		3.2.1	Supplying fitting and fixing C.P. bib cock 15mm dia of approved brand directed and specified. (G.I. & C.P pipes will be measured separately)		
			(ii)Jaquare make		
			(a)Continental /Clarion		
			(iii)2-Way bib cock	39.00	Each
		3.3.1	Supplying fitting and fixing stop-cock of approved brand of size as mentioned below		

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S. No	SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT
			and directed and specified (G.I. & C.P. pipes will be measured and paid separately)		
			(i)15mm dia	1.00	Each
			(ii)20mm dia	1.00	Each
		3.3.2	Supplying fitting and fixing chrome plated (C.P.) stop-cock of approved brand and size as mentioned below as directed and specified.(G.I. & C.P pipes will be measured and paid separately)		
			(i)Jaquar		
			(a) Continental / Clarion		
			(ii)15mm dia( Angular stop cock )	130.00	Each
			(iv) 15mm dia, (Concealed stop cock extra heavy with adjustable wall flange )	13.00	Each
		3.5.1	Supplying and fitting fixing C.P. pillar cock of 15mm dia of approved brand as specified and directed.		
			(ii)Jaguar make		
			(a) Continental	20.00	Each
			(b)Long neck with areator	14.00	Each
		3.6.1	Supplying fitting and fixing Chrome Plated (C.P.) sink cock of approved brand as directed and specified. (G.I. & C.P pipes will be measured and paid separately)		
		(V)	Jaquar brand		
			a) Continental / Clarion		
			i) Sink cock with swinging casted spout	3.00	Each
		3.8.2	Supplying fitting and fixing Chrome Plated (C.P.) shower 15mm dia. Of approved brand as directed and specified. (Pipes will be measured and paid separately)		
			(iii)Jaquar make		
			a) Continental		
			(ii) Shower arm 190mm long heavy casted body with wall flange	6.00	Each
		3.8.4	Supplying fitting and fixing Telephonic Chrome Plated (C.P.) shower of approved brand as directed and specified. (Pipes will be measured and paid separately)		
			(iii)Jaquar make		
			a) Continental		
			(i) Telephone shower 2-in-1 shower with massage effect with 1.5m PVC tube and swinging wall hook.	2.00	Each
		3.9.1	Supplying, fitting and fixing Chrome Plated (C.P.) basin mixer complete as directed.		
			(v)GROHE make Single - Lever Basin Mixer		
			a) Grohe BauFlow Single lever basin mixer with out popup Cat no-32851000		
			i) Central hole basin mixer Cat No.1100	18.00	Each
		3.11.1	Supplying, fitting and fixing Chrome Plated (C.P.) sink mixer complete as directed.		
			Jaquar make		
			ii) Single lever sink mixer with swinging spout (table mounted model)(40mm cartridge) with 450mm long coper pipes and brass nuts.Cat No.21173	3.00	Each
			bath tub mixer		
		3.14.1	Supplying, fitting and fixing Chrome Plated (C.P.) bath tub spout of approved brand complete as directed.		
			(iii) Jaquar make		
			a)Continental		
			(iv) Bath tub spout with button attachment for telephone shower Cat No.463	1.00	Each
		3.15.3	Supply, Installation, Testing & Commissioning of Urinal Sensor- <b>GROHE</b> make urinal sensor,Urinal flash valve concealed 230V Cat no-37338000 with Tectron infrared Skete 6V Cat no-37324000	17	Each
		3.16.4	Supply, Installation, Testing & Commissioning of Divertor- <b>Grohe make</b> single lever concealed Bath Shower mixer (diverter). Crome plated (CP) both overhead shower and spout option. Grohe BauFlow Cat no-29065000	6.00	Each
		3.17.1	Supplying and fitting gun metal country pit valve (full way valve) I.S.I. Make as specified and directed.		
			a) 50mm dia	7.00	Each
			b) 40 mm dia.	21.00	Each
		3.17.2	Supplying and fitting ball valve as specified and directed..		
			a) 25 mm dia. (gun metal)	27.00	Each
			b) 20mm dia. (gun metal/Copper)	12.00	Each
		1.37.1	Supplying, fitting and fixing PVC pipes of 6 Kg/cm2 (Supreme/Prince) or other ISI approved including joining ,fitting and fixing with clamps etc.as necessary complete at all levels including below G.L as directed and specified.		
			a) In exposed surfaces or in trenches.		
			(i) 160mm dia.	23.00	each
			(ii) 110mm dia.	55.00	each
			(iv) 75mm dia.	11.00	each
			(v) 63 mm dia.	1.00	each
			(vi) 50mm dia	10.00	each
		1.37.2	Supplying, fitting and fixing 87.5 degree PVC bend of (Supreme/Prince) or other ISI approved including joining ,fitting and fixing etc.as necessary complete at all levels including below G.L as directed and specified.		
			a) In exposed surfaces or in trenches.		
			(i) 160mm	46.00	each

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S. No	SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT
			(ii) 110mm dia.	95.00	each
			(v) 50mm dia	150.00	each
		1.37.3	Supplying fitting and fixing 87.5 degree PVC bend with door of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.		
			a) In exposed surfaces or in trenches.		
			(i) 160mm dia	10.00	each
			(ii) 110mm dia.	16.00	each
		1.37.4	Supplying fitting and fixing 45degree PVC bend of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.		
			a) In exposed surfaces or in trenches.		
			(i) 160mm dia	14.00	each
			(ii) 110mm dia.	32.00	each
		1.37.5	Supplying fitting and fixing PVC Plain single tee of (Supreme/ Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.		
			a) In exposed surfaces or in trenches.		
			(i) 160mm dia	1.00	each
			(ii) 110mm dia.	12.00	each
		1.37.6	Supplying fitting and fixing PVC single tee with door of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.		
			a) In exposed surfaces or in trenches.		
			(i) 160mm dia	14.00	each
			(ii) 110mm dia.	4.00	each
		1.37.7	Supplying fitting and fixing PVC single 'Y' of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.		
			a) In exposed surfaces or in trenches.		
			(i) 160mm dia	2.00	each
			(ii) 110mm dia.	16.00	each
		1.37.8	Supplying fitting and fixing PVC single 'Y' with door of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.		
			a) In exposed surfaces or in trenches.		
			(i) 110mm dia.	16.00	each
		1.37.1 3	Supplying fitting and fixing PVC coupler of (Supreme / Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.		
			a) In exposed surfaces or in trenches.		
			(i) 110 mm dia	73.00	each
			(iii) 75 mm dia	85.00	each
		1.37.1 4	Supplying fitting and fixing PVC reducer of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.		
			b) Concealed by chiselling or breaking brick wall/C.C./R.C.C and making good to the damages.		
			(i) 160mm x 110 mm	10.00	each
			(iv) 110 mm x 75mm	140.00	each
		1.37.1 5	Supplying fitting and fixing PVC reducing Tee of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. as necessary complete at all levels including below G.L. as directed and specified.		
			b) Concealed by chiselling or breaking brick wall/C.C./R.C.C and making good to the damages.		
			(i) 160mm x 110 mm	31.00	each
			(iii) 110 mm x 75mm	100.00	each
		1.37.1 8	Supplying fitting and fixing PVC cleaning pipe of (Supreme/Prince) or other ISI approved including joining , fitting and fixing etc. in exposed surface or trenches as necessary complete at all levels including below G.L. as directed and specified.		
			(a) 160 mm	12.00	each
		3.1.6	Providing fitting and fixing of Chlorinated Polyvinyl Chloride (CPVC) Pipes having thermal stability for hot and cold water supply with all necessary plain and brass threaded fittings and fixing the pipes with clamps at 1.0 m interval including jointing of pipe.		
			(B) Concealed pipe with cutting chases & making good the walls		
			a) 15 mm nominal outer dia pipe	1.00	Rm
			b) 20 mm nominal outer dia pipe	195.00	Rm
			c) 25 mm nominal outer dia pipe	210.00	Rm
			d) 32 mm nominal outer dia pipe	1.00	Rm
			e) 40 mm nominal outer dia pipe	1.00	Rm
			f) 50 mm nominal outer dia pipe	1.00	Rm
		5.1.1	Supplying fitting and fixing Pipes with all necessary fittings in exposed or in trenches		

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S. No	SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT
			including trenching and refilling the same etc complete as directed		
			B) uPVC pipe with uPVC fittings ( Using uPVC high pressure pipe) (Using SUPREME/ PRINCE/ SFMC/ FUSION brand pipe)		
			iii) 25mm diameter	1	Rm
			iv) 32 mm diameter	228	Rm
			v) 40 mm diameter	1	Rm
			vi) 50mm diameter	189	Rm
			vii) 63mm diameter	1	Rm

## Annexure 1F: HVAC Works

SL NO	SOR NO	DESCRIPTION	QTY	UNIT
24		AIR CONDITIONING UNITS		
	24.1	Outdoor Unit with DC Inverter Scroll Compressors		
	24.2	1st Floor: 68 HP	Set	1
	24.3	2nd Floor: 64 HP	Set	1
	24.4	3rd Floor: 70 HP	Set	1
	24.5	4th Floor: 54 HP	Set	1
	24.6	Indoor Units with in-built drain pumps		
	24.7	Four-Way cassette type		
	24.8	3.2 TR	Nos.	2
	24.9	Medium Static Ducted		
	24.10	0.8 TR	Nos.	1
	24.11	1.0 TR	Nos.	2
	24.12	1.3 TR	Nos.	1
	24.13	1.6 TR	Nos.	2
	24.14	2.0 TR	Nos.	4
	24.15	2.3 TR	Nos.	2
	24.16	2.56 TR	Nos.	4
	24.17	2.84 TR	Nos.	10
	24.18	3.2 TR	Nos.	11
	24.19	4.0 TR	Nos.	6
	24.20	High Static Ducted		
	24.21	8.0 TR	Nos.	3
	24.22	11.4 TR	Nos.	5
	24.23	12.8 TR	Nos.	2
	24.24	16 TR	Nos.	1
	24.25	Indoor Centralized Controller (each with 64 Nos. IDUs )	Set	2
	24.26	Outdoor Centralized Monitor	Set	3
	24.27	Treated Fresh Air Unit		
	24.28	4 TR/ 1600 CFM @ 50 mm ESP double skin construction (24 SWG steel sheet), draw through type AHU in sectionalized construction and as per specification sheets consisting of :- a) Drawthrough fan BACKWARD CURVED. EFFICIENCY 70%+ b) Coil section 8 ROW, 8 FIN, 2.5MPS MAXIMUM CFV c) Filter section, MERV 9 FILTERS(10Micron) f) Pressure independent balancing cum control valve g) Panel should be PUF insulated (45mm thick with Thermal break profile)	No.	2
	24.29	3 TR/ 1200 CFM @ 50 mm ESP double skin construction (24 SWG steel sheet), draw through type AHU in sectionalized construction and as per specification sheets consisting of :- a) Drawthrough fan BACKWARD CURVED. EFFICIENCY 70%+ b) Coil section 8 ROW, 8 FIN, 2.5MPS MAXIMUM CFV c) Filter section, MERV 9 FILTERS(10Micron)	No.	1
	24.30	DX Condensing Unit having R-410-a refrigerant		
	24.31	4 TR	No.	2
	24.32	3 TR	No.	1
	24.33	Drain pump for IDUs ( reqd except MSD/Cassette )	No.	11
25				
	25.1	256 HP VRF UNITS (INSTALLATION)		
	25.2	OUTDOOR UNITS (Installation & Commissioning)		
	25.3	Installation, testing and commissioning of Variable Refrigerant Flow modular type airconditioning system complete with indoor and outdoor units, individual cordless remote with Gas Charging process:		
	25.4	68 HP Outdoor unit placed at Terrace Floor Level.	Nos.	1
	25.5	64 HP Outdoor unit placed at Terrace Floor Level.	Nos.	1
	25.6	70 HP Outdoor unit placed at Terrace Floor Level.	Nos.	1
	25.7	54 HP Outdoor unit placed at Terrace Floor Level.	Nos.	1
	25.8	INDOOR UNITS		
	25.9	Installation, testing and commissioning of following indoor units		
	25.10	Cassette type	Nos.	2
	25.11	Medium Static Ducted type	Nos.	43
	25.12	HSD Units	Nos.	11
	25.13	Treated Fresh Air Unit	Nos.	3
	25.14	Refrigerant R-410a	Kg	130
	25.15			
	25.16	Supply, Installation, testing and commissioning of Imported fittings Y-joints, distributor and headers for all Indoor units at both the ends floors layout as per layout drawings	Sets	52
	25.17	REFRIGRANT PIPING		
	25.18	Supply, fixing, testing and commissioning of interconnecting copper refrigerant pipe work duly insulated with elastomeric nitrile rubber type tubular insulation with Mechanically protected between indoor & outdoor units. All piping Specially inside the room shall be properly supported with hanger and shall run in proper support		

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SL NO	SOR NO	DESCRIPTION	QTY	UNIT
	25.19	19 mm thick insulation (Suction)		
	25.20	Line Size: 41.3 OD	RM	30
	25.21	Line Size: 34.9 OD	RM	20
	25.22	Line Size: 28.6 OD	RM	100
	25.23	Line Size: 22.2 OD	RM	200
	25.24	Line Size: 19.1 OD	RM	315
	25.25	Line Size: 15.9 OD	RM	240
	25.26	Line Size: 12.7 OD	RM	100
	25.27	13 mm thick insulation (Liquid)		
	25.28	Line Size: 19.1 OD	RM	80
	25.29	Line Size: 15.9 OD	RM	330
	25.30	Line Size: 12.7 OD	RM	325
	25.31	Line Size: 9.5 OD	RM	150
	25.32	Line Size: 6.4 OD	RM	150
	25.33	TRANSMISSION & CONTROL WIRING		
	25.34	Providing & fixing control cum transmission wiring in medium duty PVC Conduit between indoor and outdoor units.		
	25.35	3C x 0.75 Sqmm Shielded Cu Cable	RM	1100
	25.36	DRAIN PIPING		
	25.37	Providing & fixing rigid uPVC piping complete with fittings, supports as per specifications and pre insulated with 6mm thick closed cell elastomeric nitrile rubber tubular insulation.		
	25.38	25 mm OD	RM	145
	25.39	32 mm OD	RM	200
	25.40	AIR DISTRIBUTION SYSTEM		
	25.41	Supplying, installation, testing and commissioning of G.I. Sheet metal ducts, alongwith thermal insulation with 12 mm nitrile sheet, acoustic insulation with 19 mm nitrile sheet as per drawing, complete with galvanized steel flanges, Vanes, dampers, links, levers and quadrants etc. as per specifications and drawings. The rates shall include all materials and labour for galvanized steel suspension and supporting arrangement for Plenums, Ducts, complete with fire retardant flexible connection as per required. specifications		
	25.42	0.63 MM (24 Gauge )	sqm	435
	25.43	0.80 MM (22 Gauge)	sqm	178
	25.44	SUPPLY / RETURN AIR GRILLS		
	25.45	Supplying, installing, testing and balancing of aluminium supply/return air grills of various sizes. Each grill shall be with fixed horizontal front bar at Zero/15 Deg deflection through the collar and Canvass.		
	25.46	Supply air grills with VCD.	Sqm	6.0
	25.47	Supply Diffuser with VCD	Sqm	5.0
	25.48	Return air Grill without VCD	Sqm	6.0
	25.49	Return air Difuser without VCD	Sqm	5.0
26	EXHAUST SYSTEMS			
	26.1	LAUNDRY EXHAUST SYSTEM		
	26.2	Supply, installation, commissioning & testing of 3000 cfm @ 50 MM ESP Ventilation Unit complete with: a) Centrifugal Fan section b) M S Mounting frame c) Vibration mounts d) Canvas connection e) Drive assembly and motor g) Starter h) Cabinet type	No.	1.0
	26.3	Laundry Exhaust Fan of capacity 2500 CFM @ 50 mm ESP Axial Blower	No.	1.0
	26.4	TOILET EXHAUST SYSTEM		
	26.5	Supply, installation, testing & commissioning of duct inline fans of capacity 450 CFM, 15 mm TSP	No.	7.0
	26.6	Supply, installation, testing & commissioning of duct inline fans of capacity 600 CFM, 15 mm TSP	No.	1.0
	26.7	Supply, installation, testing & commissioning of Propeller type exhaust fan of capacity 125 CFM, 6 mm TSP	No.	1.0
	26.8	Supplying, installation, testing and commissioning of G.I. Sheet metal ducts of 24 G thickness	Sqm	102.0
	26.9	Supplying, installing, testing and balancing of aluminium return air grills in toilets and pantries of size 150x150 mm	No.	42.0



## Annexure 1G: Audio Video Systems and Acoustical Works

SL NO	SOR NO	DESCRIPTION	MAKE	QUANTITY	UNIT
27	<b>FOH Speaker</b>				
	27.1	500 Watts Continuous, 2,000 Watts Peak Power; 2 Way 15" Full Range Loudspeaker With Carbon Fibre Loaded 15" Low Frequency Driver With Inside/Outside Wound Coil And Aluminium Dome 1" Neodymium Motor Compression Driver; Frequency Response 50 Hz – 20 kHz –10 dB; Sensitivity 97 dB (1 W @ 1 m);	<b>Turbosound/ Funktion One/ Behringer</b>	2	Nos
	27.2	2 x 3100 Watts into 4 Ohms, 2 x 1600 Watts into 8 Ohms; Ultra-Lightweight, High-Density Power Amplifier With Built-in Stereo Crossover With Low-Cut, High-cut And Full Range Mode	<b>Behringer/ Funktion One/ Labgruppen</b>	1	Nos
	27.3	Mounting Arrangement For FOH Speaker	<b>Custom</b>	2	Nos
	27.4	2 Way 8" Full Range Loudspeaker for Portable PA Applications, 150 Watts continuous, 600 Watts peak power	<b>Turbosound/ Funktion One/ Behringer</b>	2	Nos
	27.5	Ultra-Lightweight, High-Density 2 x 1500 Watts @ 2 Ohms, 2 x 900 Watts @ 4 Ohms, 2 x 440 Watts @ 8 Ohms, 3000 Watts @ 4 Ohms ( Bridge), Power Amplifier	<b>Behringer/ Funktion One/ Labgruppen</b>	1	Nos
28	<b>Subwoofer System</b>				
	28.1	600 Watts continuous, 2,400 Watts peak power; 18" Front Loaded Subwoofer system; Frequency Response 40Hz – 200 Hz ±3 dB; Sensitivity 97 dB; Impedance 4 Ω	<b>Turbosound/ Funktion One/ Behringer</b>	2	Nos
	28.2	Ultra-Lightweight, High-Density 2 x 1500 Watts @ 2 Ohms, 2 x 900 Watts @ 4 Ohms, 2 x 440 Watts @ 8 Ohms, 3000 Watts @ 4 Ohms ( Bridge), Power Amplifier	<b>Behringer/ Funktion One/ Labgruppen</b>	1	Nos
29	<b>Stage Monitor System</b>				

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	29.1	1100 Watt 2 Way 15" Full Range Powered Loudspeaker with KLARK TEKNIK DSP Technology; 1" High Temperature Dome Compression Driver With Extended High Frequency Reproduction	<b>Turbosound/ Funktion One/ Behringer</b>	2	Nos
<b>30</b>	<b>Sound Processor</b>				
	30.1	Ultra High Precision Digital 24-Bit/ 96Khz Loudspeaker Management System; 3 analog inputs (one suitable as digital stereo AES/EBU input) and 6 analog outputs for maximum flexibility	<b>Behringer/ Klarktechnik/ Biamp</b>	1	Nos
<b>31</b>	<b>Mixing Console</b>				
	31.1	Ultra-Low Noise Design 24-Input 4-Bus Mic/Line Mixer with Premium Mic Preamplifiers And Multi-FX Processor; Effective, Extremely Musical 3-band EQ With Semi-parametric Mid Band Plus Switchable Low-cut Filter On All Mono Channels; 4 aux sends per channel: 2 pre/post fader switchable for monitoring/FX applications, 2 post fader (for internal FX or as external send)	<b>Behringer/ Midas/ Yamaha</b>	1	Nos
<b>32</b>	<b>Microphones</b>				
	32.1	450 mm (17,72") Gooseneck Microphone With Cardioid Directivity Microphone Capsule; Frequency Response Of 50 Hz - 20 KHz; Nominal Impedance <100 Ohm; Maximum Sound Pressure Level 130 dB SPL.	<b>Sennheiser/ Shure/ AKG</b>	4	Nos
	32.2	Solid Ground For Gooseneck Microphones With Lighting Ring.	<b>Sennheiser/ Shure/ AKG</b>	4	Nos
	32.3	Wireless Hand Held Vocal Microphone System With Up To 10 Compatible Channels; Selectable UHF Frequencies Within A Large Bandwidth; AF Frequency Response Of 80Hz-14KHz; Cardioid Pick-up Pattern	<b>Sennheiser/ Shure/ AKG</b>	2	Nos
	32.4	Wireless Lavalier Microphone System With Up To 10 Compatible Channels; Selectable UHF Frequencies Within A Large Bandwidth; AF Frequency Response Of 50 to 16KHz (-3 dB).	<b>Sennheiser/ Shure/ AKG</b>	1	Nos

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	32.5	Wired,Dynamic Super-cardioid Microphone For Speech And Vocals With Noiseless On/Off Switch.	<b>Sennheiser/ Shure/ AKG</b>	4	Nos
<b>33</b>	<b>Cables &amp; Connectors</b>				
	33.1	Audio Signal Cable;Balanced microphone cable with single shield, high flexible, velvet faint PVC-Jacket , Conductor: Stranded bare copper wires 28 x 0.10 mm (0.22mm <sup>2</sup> ) , Jacket: PVC, 6.0 mm max. Ø	<b>Gotham/ Belden/ Sommer</b>	400	Mtr
	33.2	High flexible Speaker cable for power amplifiers upto minimum 500 Watt , Jacket - PVC, ø 0.32 in, black Conductor - Stranded bare copper wires, 140x35 AWG (13AWG) ,	<b>Gotham/ Belden/ Sommer</b>	200	Mtr
	33.3	Of High Flexible Speaker Cable For Power Amplifiers Up To 4000 Watts. 224 Strands Of 0.15 mm Bare Cupper Wires.	<b>Gotham/ Belden/ Sommer</b>	100	Mtr
	33.4	Speakon connectors	<b>Amphenol/ Neutrik</b>	6	Nos
	33.5	XLR connectors Male	<b>Amphenol/ Neutrik</b>	22	Nos
	33.6	XLR connectors Female	<b>Amphenol/ Neutrik</b>	16	Nos
	33.7	1/4"Unbalanced Phono Plug	<b>Amphenol/ Neutrik</b>	14	Nos
	33.8	1/8" (3.5mm) Balanced Phono Plug	<b>Amphenol/ Neutrik</b>	1	Nos
	33.9	12 U Equipment Rack	<b>Valrack/ Netrack/ APW</b>	1	Nos
	33.10	Installation Charge	<b>Custom</b>	1	Job
<b>34</b>	<b>Projector</b>				
	34.1	5400 Lumens,1-Chip DLP Projector With, Long Lasting SOLID SHINE Laser Power; Image Aspect Ratio 16:9, Number of Pixels, 2 304 000 pixels (1 920 x 1 200 dots)	<b>Panasonic/ Christie/ Barco</b>	1	Nos
	34.2	Projector Ceiling Mount	<b>Liberty/ Milan</b>	1	Nos
	34.3	8/10 Feet Motorized Projection Screen	<b>Liberty/ Milan</b>	1	Nos

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	34.4	4500 lm, LCD, XGA (1280*768), Wireless, Miracast, HDMI, USB	<b>Panasonic/ Christie/ Barco</b>	1	Nos
	34.5	Projector Ceiling Mount	<b>Liberty/ Milan</b>	1	Nos
	34.6	6/8 Feet Motorized Projection Screen	Liberty	1	Nos
	34.7	HDMI to HDMI Cable of Length:- 15 Mtr	Kramer/ DAC/ Belden	2	Nos
	34.8	HDMI Wall Plate	Kramer	2	Nos

**Annexure 1H: CC TV and Access Control**

SL NO	SOR NO	DESCRIPTION	MAKE	QUANTITY	UNIT
<b>35</b>	<b>CC TV WORKS</b>				
	35.1	Network TDN WDR IR Bullet Camera, 1/2.7" CMOS, 2 MP, 2.7–12 mm MFZ, 4 High Power IR LEDs, PoE, H.264	<b>Honeywell/ Palco/ Bosch</b>	12	Nos
	35.2	Network TDN IR Rugged Indoor/Outdoor Mini Dome Camera, 1/3" CMOS, 3 MP, 2.7–12 mm MFZ, 24 IR LEDs, PoE, H.264	<b>Honeywell/ Palco/ Bosch</b>	48	Nos
	35.3	24 PoE 10/100/1000 ports + 4 Gigabit SFP ports Web Smart Switch	<b>D-Link/ Cisco/ HP</b>	2	Nos
	35.4	8-ports 10/100/1000 Base-T PoE Smart Switch plus 2 SFP only	<b>D-Link/ Cisco/ HP</b>	3	Nos
	35.5	64ch NVR 8HDD(upto 64TB), 16POE, 16Ch @ 1080p, 4K H.265, RAID5&6, UL	<b>Honeywell/ Palco/ Bosch</b>	1	Nos
	35.6	8TB Surveillance Grade Harddrive	<b>WD/Seagate/ Toshiba</b>	8	Nos
	35.7	9U Equipment Rack	<b>Valrack</b>	1	Nos
	35.8	5 KVA Online UPS with 16 Nos of 42AH Batteries and Battery Rack	<b>APC</b>	1	Nos
	35.9	55" Inch Full HD LED Monitor	<b>Panasonic/ Samsung/ Sony</b>	1	Nos
	35.10	Laying of Cat6 Cable including PVC Conduits	<b>D-Link/ Molex/ Finolex</b>	1050	Mtrs
<b>36</b>	<b>ACCESS CONTROL</b>				
	36.1	Biometric Fingerprint Access	<b>ESSL</b>	9	nos
	36.2	Electro Magnetic Door Lock	<b>Real Time</b>	9	nos
	36.3	Biometric Fingerprint/Card Reader	<b>ESSL</b>	9	nos
	36.4	Battery For Biometric Face Cum Fingerprint Reader	<b>ESSL</b>	9	nos
	36.5	Exit Switch	<b>ESSL</b>	9	nos
	36.6	Other Accessories Related to Access Control		9	Nos

**Annexure 11: Data & Voice**

SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT
<b>37</b>	<b>DATA</b>			
37.1	SB 16.4.1	Solid copper cable Cat 6, 4 pair, UTP-305 m Schneide/Legrand or equivalent make as approved by the department.	10.00	box
37.2	SB16.4.2	Patch Panel Cat 6 UTP Keystone 24 port Loaded Schneider/Legrand or equivalent make as approved by the department.	2.00	Nos.
37.3	SB16.4.3	Patch Cord Cat 6 UTP grtey 1m Schneider/Legrand or equivalent make as approved by the department.	40	Each
37.4	SB16.4.4	Patch Cord Cat 6 UTP grtey 2m Schneider/Legrand or equivalent make as approved by the department.	20	Each
37.5	SB16.4.5	Cat 6Keystone UTP jack with dust cover white Schneider/Legrand or equivalent make as approved by the department.	60	Each
<b>38</b>	<b>VOICE</b>			
38.1	SB.10.5	Supplying, installation,testing and commissioning of Hi path 1190 digital communication system equipped with the following 6 P & T ports - 30 extensions ports (upgradable to 140 extensions) Auto call back, built in FAX/DID, built in voice guided direct inward dialling 3 party conference in built caller ID 100% non block, supports PRI/BRI (Siemens or equivalent make) as approved and directed by the department.	1	Each
38.2	SB 10.21	Supplying installation otesting and commissioning of 5 pair unarmoured telephone cable through existing conduit system in recess.	115	Rm
38.3	SB 10.22	Supplying installation otesting and commissioning of 20 pair unarmoured telephone cable through existing conduit system in recess.	50	Rm
38.4	SB.10.9	Supply, installation and commissioning of Distribution boxes 20 pairs with kronos Siemens or equivalent make as approve and directed by department.	2	Each
38.5	SB.10.12	Supplying, installation and commissioning of digital profiset 3030 for one touch button and busy extension indicator Siemens or equivalent make as approve and directed by department.	2	Each
38.6	SB.10.14	Supplying, installation and commissioning of open stage 20T digital phone Siemens or equivalent make as approve and directed by department.	20	Each

## Annexure 1J: Fire Detection &amp; Alarm System

SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT	MAKE
	51.1	Supply, installation, testing and commissioning of imported portion of the following equipment for FAS.			
	51.2	Microprocessor based below <b>suitable Loop capacity</b> (each loop shall be able to connect minimum 125 detectors and 125 modules or any combination including 20% spare) intelligent ,analogue addressable type fire alarm control panel with minimum 640 character LCD display, four access levels, 400 event historical logging, flash EPROM sufficient numbers of programmable relay controls, 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 2 hours during an emergency condition including all necessary software for remote programming of fire alarm system through central control station. <b>Approved Make: Notifier , Bosch, Godrej</b>			
	51.3	Panel ( Total 450 Nos. Detector & Device)	1	No	GST200-2/2
	51.4	Commissioning Card for Graphics software	1	No	P-9930
	51.5	Networking Card	1	No	P-9940A
	51.6	<i>Bider has to specify the considered Loop capacity of the Panel along with offer.</i>			
	51.7	Supply, instalation, testing & commissionig of The GUI based main network software must be capable of graphically representing each facility being monitored with floor plans and icons depicting the actual locations of the various systems; and / or sensors' locations. The GUI software shall be located in control room in one of the blocks and shall monitor all the blocks panel connected with each other. The software shall be capable of monitoring 100 Nodes with 100 MB baud Transmission rate on Fibre Optics Network and 12 MB baud Transmission on cable or more. The software shall provide the facility to Monitor, Control all the Digital PAVA as well as 2 way communication from main control room using voice signals over Fire Network along with the Fire detection signal. It shall also include PC workstation & A4 colour Laser printer. <b>Approved Make: Notifier , Bosch, Godrej</b>	1	Set	GSTGMC 3.0
	51.8	Supply, instalation, testing & commissionig of Network Repeater Panel with 6 inch or 640-characters; The LCD shall Display all events / detectors, devices status of complete systems in the networked, The NRP shall be equipped with QWERTY Keypad. Mounting options include an annunciator box, and blank modules are required for mounting. <b>Approved Make: Notifier , Bosch, Godrej</b>	1	No.	NRP00+P-9940A
	51.9	Supply, instalation, testing & commissionig of Addressable <b>monitoring module</b> to connect NO/NC contacts such as pressure switch, <b>flow switches</b> , fire pump contacts (provided by Fire fighting contractor). Panel shall be located at Security room and reception area. <b>Approved Make: Notifier , Bosch, Godrej</b>	5	No.	I-9300
	51.10	Supply, instalation, testing & commissionig of Addressable <b>monitoring module</b> to connect NO/NC contacts such as integration with others FDA panel. <b>Approved Make: Notifier , Bosch, Godrej</b>	2	No.	I-9301
	51.11	Supply, instalation, testing & commissionig of Addressable <b>control modules</b> for Elevator recall, fire damper, pressurization fan, speakers, strobes etc. <b>Approved Make: Notifier , Bosch, Godrej</b>	4	Nos.	I-9301
	51.12	Supply, instalation, testing & commissionig of Addressable <b>control relay modules</b> having potential free contact (1NO+1NC) for tripping for 230 volt for AHU , Lift, PA, ACS, Pressurisation fans, smoke extraction fans <b>Approved Make: Notifier , Bosch, Godrej</b>	6	Nos.	I-9301
	51.13	Supply, instalation, testing & commissionig of <b>Web Server</b> ; connects Fire Alarm Control Panels via Internet/Intranet and/or dialup to Internet Explorer Web Server. (One TCP / IP address and one email ID is required). <b>Approved Make: Notifier , Bosch, Godrej</b>	R/o	Set	
	51.14	Supply, instalation, testing & commissionig of Automatic Floating Sensitivity type Analog addressable Acclimate Photo thermal smoke detector with mounting based LED, Address Switch from 01-159 , to programme the detectors, complete as required. (In Changing Environment Area) <b>Multisensor detector (BFC). Approved Make: Notifier , Bosch, Godrej</b>	R/o	Nos	
	51.15	Supply, instalation, testing & commissionig of Intelligent addressable <b>smoke detector</b> with housing, LED and bypass switch for testing complete as per specification. <b>Approved Make: Notifier , Bosch, Godrej</b>	R/o	Nos	
	51.16	Supply, instalation, testing & commissionig of Intelligent addressable <b>Multi Criteria detector (Temperature sensor must be rate of rise type)</b> with housing, LED and bypass switch for testing complete as per specification. <b>Approved Make: Notifier , Bosch, Godrej</b>	55	Nos	I-9101+DZ-03
	51.17	Supply, instalation, testing & commissionig of Intelligent addressable type <b>rate of rise temperature heat detectors</b> as per specifications. <b>Approved Make: Notifier , Bosch, Godrej</b>	5	Nos	I-9103+DZ-03
	51.18	Supply, instalation, testing & commissionig of Addressable <b>Beam Detector</b> consisting of both transmitter & receivers including mounting base as per specification. <b>Approved Make: Notifier , Bosch, Godrej</b>	R/o	Nos	
	51.19	Supply, instalation, testing & commissionig of Addressable type <b>manual call</b>	4	Nos	DI-9204E

RFP for Selection of Interior Works Contractor for North East Skill Centre

SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT	MAKE
		<b>point as per specifications. Approved Make: Notifier, Bosch, Godrej</b>			
	51.20	Supply, instalation, testing & commissioning of Surface mounted addressable type fully solid state circuitry dual tone <b>Electronic loud speaker type hooters with strobe lights</b> of 110 Cd intensity as per specifications. <b>Approved Make: Notifier, Bosch, Godrej</b>	4	Nos	I-9403
	51.21	Supply, instalation, testing & commissioning of <b>Directinal sounder /eqv Hooters</b> with mutitones for easy understanding and exit as per specifications <b>Approved Make: Notifier, Bosch, Godrej</b>	R/o	Nos	
	51.22	Supply, instalation, testing & commissioning of <b>Addressable Fault Isolation Module</b> as per specifications <b>Approved Make: Notifier, Bosch, Godrej</b>	12	Nos	C-9503E
	51.23	8 Zone Fire Telephone Panel	1	Nos	GSTFT8WN
	51.24	Supply, instalation, testing & commissioning of <b>Addressable Fire Fighters Telephone Jack</b> as per specifications. <b>Vendor has to consider the Addressable control module if required for the porosed system.</b>	4	Nos	P-9911(J)
	51.25	Supply, instalation, testing & commissioning of <b>Response Indicator</b> as per specifications <b>Approved Make: Notifier, Bosch, Godrej</b>	70	Nos	
	51.26	Supply, instalation, testing & commissioning of <b>Fire Fighters Telephone Receiver</b> as per specifications.	2	Nos	P-9911(M)
	51.27	Supply, instalation, testing & commissioning of <b>Auto Dialer unit</b> as per specifications	1	Nos	
	51.28	Supply, instalation, testing & commissioning of <b>Addressable Magnetic door hold open device</b> including termination, fixing, contact on the door complete as required and as per specification.	R/o	Nos	
	<b>52</b>	<b>CABLES &amp; ACCESSORIES FOR FAS</b>			
	52.1	Supplying, installing, testing and commissioning of cabling for fire detection and alarm system with 2 core annealed tinned copper conductor PVC sheathed, flexible, FRLS 2 x 1.5 sq mm armoured cables as per specifications. Cable conductor size should be minimum 1.5 Sq.mm dia and depends on the loop length the contractor should decide the size of the conductor as per their loop power capacity. More than two cables should not be saddled to wall /ceiling. Perforated Cable tray /trunking of aproprate size should be used more than two cables to be layed thru ceiling /walls. Cables shall be estimated per device basis as per the drawings. <b>Cabling for response indicator/ Input &amp; Output modules to field equipment/ power / LAN / communication cable shall not be considered seperately per device. The cost of the same shall be included in the unit rate estimated for per device.</b>	1000	Mtrs	
		<b>Note: -Mentioned Cable quantity shall be considered as a indicative quantity for the referance only, vendor has to calculate the cable length based on the provided tender drawing, also note that only 5% variation of cable length maight be considered depend on client confirmation.</b>			
	52.2	Supply, Installation, testing and commissioning of the 16 gauge 25 mm dia PVC FRST Conduits with Accessories.	R/o	Mtrs	
	52.3	Supplying, installing, testing and commissioning of 2 mm thick GI trunking with cover of the following sizes complete with angle iron supports/hanging arrangement etc			
	52.4	40 x 300 x 40	R/o	Mtrs.	
	52.5	40 x 200 x 40	R/o	Mtrs.	
	52.6	25 x 150 x 25 in riser	25	Mtrs.	
	52.7	Wiring for the following telephone jack points with two pair 0.61 mm dia PVC sheathed twisted shielded tinned copper conductor 1100 volts grade flexible FRLS wires of approved make <b>in concealed or surface mounted 2 mm thick 25 mm dia PVC FRLS Conduit including fixing, supporting, sadding &amp; flexible conduit etc complete in all respect.</b>	75	Mtrs.	
	52.8	Supplying, Installing, Testing & Commissioning of the Central Control Station consisting of the following			
	52.9	17 core Machine as per specification with cordles mouse and cordless keyboard as per specification.	1	No.	
	52.10	21"color monitor flat screen LCD display as per specifications	1	No.	
	52.11	Laser Jet Printer (A3 size) as per Specification	1	No.	
	<b>53</b>	<b>CONDUITING AND CABLING</b>			
	53.1	Providing and fixing in position the following 16 gauge MS conduits concealed or exposed as called for including all accessories i.e. bends, junction boxes with cover plates of 'approved make and design'.			
	53.2	32 mm dia conduit	R/o	RM	
	53.3	25 mm dia conduit	R/o	RM	
	53.4	20 mm dia conduit	R/o	RM	
	53.5	Supply, laying and connecting of single pair PVC insulated FRLS twisted shielded copper conductor cable of <b>20/0.2 mm dia in PVC FRLS conduit including all fixing accessories as required.</b>	100	RM	
	53.6	<b>Note: -Mentioned Cable quantity shall be considered as a indicative quantity for the referance only, vendor has to calculate the cable length based on the provided tender drawing, also note that only 5% variation of cable length maight be considered depend on client confirmation.</b>			



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SL NO	SOR NO	DESCRIPTION	QUANTITY	UNIT	MAKE
	53.7	Supply, laying and connecting of 4 pair PVC insulated FRLS twisted shielded copper conductor cable of 32/0.2 mm dia in existing MS conduit including all fixing accessories as required.	R/o	RM	
	53.8	Supply, installation, testing and commissioning of volume control unit for speakers including providing and fixing of 1.6 mm thick GI box enclosures complete as required.	R/o	No.	
	54	<b>PUBLIC ADDRESS SYSTEM</b>			
	54.1	Supply, installation, testing and commissioning of <b>True Ceiling Speakers of 6 W RMS</b> power with multitaps, handling capacity, inbuilt 100 V Line Matching Transformer, Wide Opening angle, Optimized for music and speech applications, complete with mounting clamps.	50	No.	
	54.2	Supply, installation, testing and commissioning of <b>Wall Mounted Cabinet Speakers of 15 W RMS</b> power,with multitaps, handling capacity, inbuilt 100 V Line Matching Transformer, Internal Tappings, Trapezoidal Compact Design, Optimized for speech and music applications	R/o	No.	
	54.3	Supply, installation, testing and commissioning of <b>Horn Loudspeakers 20 W RMS</b> power, with multitaps,high efficiency, Weatherproof covering – Dust and Water Protected IP 65 sturdy horn body, complete with connection cable of adequate length.	R/o	No.	
	54.4	Supply, installation, testing and commissioning of (BOSCH/HONEYWELL/AHOOJA) of rack mounted <b>dual Channel Power Amplifier capable of delivering 300 W RMS power output or 480 W RMS</b> burst output; complete with 100 V Line Matching Transformer, built-in fan for temperature control, Distortion typically 0.03% @ 1 KHz, Hum and Noise 90 dB below rated output selection facility,provision for hookup with Fire Alarm Panel, complete with connections and required circuitry.	1	Lot.	
	54.5	<b>Note: - Vendor has to consider the 350 Speakes for finalising the Amplifier quantity</b>			
	54.6	Supply, installation, testing and commissioning of followings with communication cable and accessories as required for system. (Semi Digital only)			
	54.7	<b>Voice Controller</b> as required for system.			
	54.8	<b>Suitable Zone selector</b> with micro phone including keypad as required for system.			
	54.9	<b>Router</b> as required for system.			
	54.10	System compressive of above (S.No.5a-c) as required	1	Lot	
	54.11	<b>Note: - Voice Controler, Zone selector and Router to be considered based on 250 nos. Speakers.</b>			
	54.12	Supply, installation, testing and commissioning of <b>micro phone for remote location and interface with controller</b> including communication cable and all accessories.	1	No.	
	54.13	Supply, installation, testing and commissioning of 19" equipment rack made out of 2 mm thick CRCA sheet duly powder coated; in-built amplifier mounting; amplifier ,controller,; suitable for housing of above control equipment.	1	No.	

**Annexure II: Performance Bank Guarantee Format**

To,

**Mission Director**

Assam Skill Development Mission  
Nayantara Building 5<sup>th</sup> Floor, Six Mile Guwahati – 781022  
Email: [missiondirector.asdm@gmail.com](mailto:missiondirector.asdm@gmail.com)

WHEREAS .....Name and address of Contractor has undertaken, in pursuance of your Letter No..... dated.....to provide the services to the Assam Skill Development Mission (ASDM), on terms and conditions set forth in the said letter.

AND WHEREAS it has been stipulated by you in the said letter that the Contractor shall furnish you with a Bank Guarantee by a Nationalized / Scheduled Bank for the sum specified therein as security for compliance with his obligations in accordance with the terms and conditions set forth in the said letter;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee;

NOW THEREOF we hereby affirm that we are the Guarantor and responsible to you on behalf of the Contractor up to a total of ..... [.....in words], such sum being payable in the type and proportions of currencies in which the Contract Price is payable, and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of ..... as aforesaid without your needing to prove or to show ground so reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the Contract of the services to be performed there under or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this guarantee, and whereby we waive notice of any such change, addition or modification.

The liability of the Bank under this Guarantee shall not be affected by any change in the constitution of the Contractor or of the Bank.

Notwithstanding anything contained herein before, our liability under this guarantee is restricted to Rs..... and the guarantee shall remain valid till unless a

claim or a demand or a request for extension in writing is made upon us on or before..... all our liability under this guarantee shall cease.

This guarantee shall be valid for 6 months from the date of a foresaid letter and may be extendable, if required.

Signature & Seal of the Guarantor

Witness:

**1.Format of the Covering Letter  
(TECHNICAL BID)**

***The Covering Letter is to be submitted on official Letterhead with official seal***

To  
Mission Director  
Assam Skill Development Mission  
Nayantara Building 5th Floor  
Six Mile, Guwahati – 781022

**Sub: RFP for selection of Works Contractor for Development of Interiors for North East Skill Centre**

Dear Sir,

Please find enclosed Copy of our Proposal in respect of the RFP referred above .

We hereby confirm that:

- a) The proposal has been submitted by us in accordance with the conditions stipulated in the RFP.
- b) We have read the guidelines and RFP document in detail and have understood the terms and conditions stipulated in the RFP Document issued by ASDM. We agree and undertake to abide by all these terms and conditions along with subsequent communication from ASDM. Our Proposal is consistent with all the requirements of submission as stated in the RFP or any subsequent communications from ASDM.
- c) The information submitted in our Proposal is complete, is strictly as per the requirements as stipulated in the RFP, and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors/omissions/false information in our Proposal. We acknowledge that ASDM will be relying on the information provided in the Proposal and the documents accompanying such Proposal for empanelment of the applicant for the aforesaid programme, and we certify that all information provided in the application, formats and the Annexures attached herewith are true and correct; nothing has been omitted which renders such information misleading; and all documents accompanying such Proposal are true copies of their respective originals.
- d) We acknowledge the right of ASDM to reject our Proposal without assigning any reason or otherwise and hereby waive, to the fullest extent permitted by applicable law, our right to challenge the same on any account whatsoever.
- e) We fulfil all the legal requirements and meet all the eligibility criteria laid down in the RFP.
- f) This Proposal is unconditional and we hereby undertake to abide by the terms and conditions of the RFP.
- g) We have enclosed an EMD as required in the RFP. This EMD is liable to be forfeited in accordance with the provisions of the tender document.
- h) We have not directly or indirectly or through an agent engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice.
- i) We undertake that the Price bid has been submitted without any conditions and as per the

conditions of the tender document and we are aware that the Price bid is liable to be rejected if it contains any other conditions

- j) The prices and other terms and conditions of this Tender are valid for a period of 180 calendar days from the last date of submission of bids.
- k) The price quoted by us is inclusive of all taxes, rates, delivery charges etc, and no amount will be payable in addition to the amount quoted by us. However, ASDM reserves the right to negotiate the prices downwards.
- l) We understand that our bid is binding on us and that you are not bound to accept a bid you receive.

**For and on behalf of:**

Signature:

Name:

Designation:

(Authorized Representative and Signatory)

Date:

Place:

**2. Applicant Details  
(Technical Bid)**

Sl. No.	Description	Details	
1.	Name of Bidder		
2.	Status / Constitution of the Bidder		
3.	Name of Authorized Signatory		
4.	Address		
5.	PAN Number		
6.	GSTIN		
7.	Type of Contractor(CPWD/ State PWD/ Railways/ PSU etc) & category		
8.	Primary point of contact	Email	Contact No
9.	Secondary Point of Contact	Email	Contact No

**For and on behalf of:**

Signature:

Name:

Designation:

(Authorized Representative and Signatory)

Date:

Place:

**3. Cost of bid document & EMD Particulars**  
**(Technical Bid)**

<b>Sl. No.</b>	<b>Particulars</b>	<b>D.D. No. &amp; Date</b>	<b>Name of the Bank</b>	<b>Amount (Rs.)</b>	<b>Remarks</b>
1	EMD				
2	Tender Document Fees				

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Business Address

**4.Financial Details**  
**(Technical Bid)**

***Declaration to be submitted under the signature of Chartered Accountant on Letterhead***  
**To whomsoever it may concern**

On the basis of audited financial statements, we hereby certify that M/s.....having registered office at .....has the following average annual turnover during last three financial years starting from FY 2014-15, 2015-16 and 2016- 2017 as mentioned below:

<b>S.No</b>	<b>Financial Year</b>	<b>Annual Turnover</b>	<b>Net Worth (Rs.)</b>
1	2016-17		
2	2015-16		
3	2014-15		

Signature

Chartered Accountant firm

Membership No

Contact

Seal



**5.Format for Solvency Certificate**

**(Technical Bid)**

(on the letter head of the Bank)

This is to certify that M/s.....with registered office at..... maintains bank accounts with us and has a good financial standing.

In case work Contract is awarded to the above contractor by Assam Skill Development Mission, vide Tender no.....dated.....we shall be able to provide credit facilities , subject to Bank norms to meet his Working Capital requirements for executing the above during the contract period.

Signature:

Name:

Designation:

Name of Bank:

Seal:

Date:

**6.Experience Details  
(Technical Bid)**

<b>S. No.</b>	<b>Name of Client</b>	<b>Scope of Work</b>	<b>Project Area (in sq ft)</b>	<b>Date of Work Order</b>	<b>Value of Work Order</b>	<b>Status (Complete /In process)</b>	<b>Date of Completion</b>

Note:

- 1.Submit Work Orders for all the projects mentioned above and the completion certificate, where applicable
- 2.Highlight the work Orders for scope of work, date, value of work, area etc.

We undertake that the above information is true and correct.

Yours faithfully,

(Signature of the Bidder)

Designation

Seal

Date:

Business Address:

**7.Declaration Regarding Clean Track Record  
(Technical Bid)**

(To be enclosed in the Bid)

*(To be signed and executed in non-judicial stamp paper of Rs. 10/= and notarised)*

To,  
The Mission Director  
Assam Skill Development Mission  
Nayantara Building 5th Floor  
Six Mile, Guwahati – 781022

**Sub: RFP for selection of Contractor for Development of Interior for North East Skill Centre**

Sir/ Madam,

I have carefully gone through the Terms & Conditions contained in the above TENDER Document. I hereby declare that my company/ organisation or any of my consortium partners, have not been debarred/black listed by any Government / Semi Government organizations in India since 1<sup>st</sup> of April, 2014. I further certify that I am competent officer in my company to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Business Address:

**8. Curriculum Vitae of Resources**

(Technical Bid)

(to be submitted for all the resources as required in the Eligibility Criteria)

<b>S. No.</b>	<b>Particulars</b>	<b>Details</b>
1.	Position Title as per RFP	
2.	Name of the Resource	
3.	Date of Birth	
4.	Country of Residence	
5.	Education (staring from the latest):	Details of Degree/ Diploma/ Certification: Name of university/ Institution: Year of passing:
6.	Employment Record (starting from the latest):	Name of Employer: Position/ Designation: Job Description: Location: Period of service:
7.	Experience specific to the project	Name of Employer: Position/ Designation: Name of the Project: Job Description: Location: Period of service:
8.	Task to be assigned in the project	
9.	Contact Information e-Mail Mobile No.	

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by ASDM.

Day/month/year

Name of Resource:

Signature:

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Business Address:

**9. Work Breakdown Structure, Timeline and Methodology**

(Technical Bid)

- a) Work Breakdown Structure, drilled down to deliverables and activities
- b) Detailed timeline broken down into weeks across 90 days
- c) Brief write-up on the methodology and initiatives of the bidder on this project and the about of technology, equipment and materials to be used for this project

*This section should not be more than 5 pages.*

**10. Checklist for eligibility criteria & Technical Bid documents**

<b>S. No.</b>	<b>Eligibility Criteria</b>	<b>Documents Required</b>	<b>Status and Reference</b>
1.	The bid is open to any one of the following: i. Companies that are incorporated in India ii. Partnership firm, including Limited Liability Partnerships iii. Sole Proprietorship firm	Certificate of Incorporation with MOA and AOA in case of Company, Partnership Deed in case of Partnership	
2.	The bidder should be a registered contractor with at least one of the following: i. CPWD or State PWD as Class IA contractors ii. Any Public Sector Enterprise/ Public Sector banks	Empanelment/ Registration Proof	
3.	The Bidder must have an average annual turnover of at least Rs.10 crore (Rupees Ten Crore) in the 3 financial years 2016-17, 2015-16, 2014-15.	Format 4 signed by CA	
4.	The Bidder should have a positive net worth in each of the 3 financial years 2016-17, 2015-16, 2014-15	Format 4 signed by CA	
5.	The bidder should submit a Solvency Certificate from a Scheduled Bank, stating sufficiency of funds for executing the product.	Format 5 by Bank	
6.	The bidder should have experience of executing works contract for projects with the following size: i. At least 3 projects each with a work Order value of Rs. 1 crore each or, ii. At least 2 projects each with a work Order value of Rs. 2 crore each or iii. At least 1 project with a Work Order value of Rs. 4 crore.  The date of Work Order should be after 01.01.2008. At least 1 project submitted as work experience should have been completed on the date of submission of bids. Work Orders for all projects and Completion Certificate, wherever	Form 6 with copies of Work Orders and Completion certificate	

	applicable need to be submitted as proof of all experience.		
7.	The bidder must have an office in Guwahati or the Bidder should submit an undertaking as affidavit, to establish a place of business in Guwahati after being awarded the Work Order.	Trade License or undertaking as affidavit to establish office in Guwahati after award of work	
8.	The bidder should not have been blacklisted by any institution of the Central or State government on ground of involvement of the bidder in corrupt or fraudulent practices or any other matter, since 1st of April, 2014.	Format 7: Declaration Regarding Clean Track Record	
9.	The bidder has to submit documentary proof of PAN, GST, Labour License, Employees Provident Fund, ESIC	Copies of relevant certificate	
10.	The bidder should deploy at least the following resources on the project, with specified qualification:	CVs of the resources in 1 page in Format 8	
11.	Project Lead: B. Arch/ B.E./ B. Tech (civil) with a minimum experience of atleast 7 years		
12.	Supervisor- Civil: Diploma Holder in Civil Engineering with Work Experience of atleast 5 years		
13.	Supervisor- Electrical: Diploma in Electrical Engineering with Work Experience of atleast 5 years		
14.	Format 1: Covering Letter		
15.	Format 2: Applicant Details		
16.	Format 3: Details of EMD and Tender Document fees		
17.	Format 9: Work Breakdown Structure, Timeline & Methodology		
18.	EMD	Rs. 17,85,647/-	
19.	Tender Document Fees	Rs. 50,000/-	
20.	Signed copy of RFP		
21.	Letter of Authorisation	Board Resolution in case of company, Power of attorney in case of others if not signed by Partner/Proprietor	
22.	Court Fee Stamp	Rs. 500/-	

Yours faithfully,

(Signature of the Bidder)

Printed Name

Designation

Seal

Date:

Business Address: