

# NOTICE INVITING OFFERS

BIRLA INSTITUTE OF TECHNOLOGY,  
MESRA, RANCHI

FOR

Renovation of Seminar Hall-I, UPS & battery room, Main lobby and lounge of R&D Building for Centre of Excellence at BIT Mesra.

**Tender Date: 30.06.2026**

**Last Date for submission of bids on or before 03/07/2026**

**Duration of the Work:**

**The time for completion for the work has been considered as 2.5 months with the breakup as follows:**

- 1. Main lab, Viewing Gallery & UPS rooms to be completed before 15th August, 2026**
- 2. Main Lobby, Lounge and Seminar Hall to be completed before 15th September, 2026**

Office of: The Registrar  
Birla Institute of Technology  
Mesra, Ranchi -835 215

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# बिरला प्रौद्योगिकी संस्थान

## BIRLA INSTITUTE OF TECHNOLOGY

(वि० अनु० आ० अधिनियम १९५६ की धारा ३ के तहत मानित विश्वविद्यालय || A Deemed to be University u/s 3 of UGC Act, 1956)  
मेसरा, राँची ८३५२१५ (भारत) || MESRA, RANCHI 835 215 (INDIA)

PABX: +91 651 2275444/2275896, Extn: 4663, Fax: 0651 2275401, Email: ar.purchase1@bitmesra.ac.in  
Website: www.bitmesra.ac.in

Ref No.: **Tender/26-27/Renovation of SH-I/01**

Date: **30/06/2026**

## Invitation for Offers

BIT MESRA, established in 1955 by Mr. B M Birla, is a premier technical institute and Deemed to be University u/s 3 of UGC Act, 1956. You are invited to submit your most competitive quotation for the Services required for Institute use.

Sl. No.	Name of the work	Duration of Contract	EMD (Rs.)	Cost of Document (Rs.)	Single/ Two / Three Bid
1.	<b>Renovation of Seminar Hall-I, UPS &amp; battery room, Main lobby and lounge of R&amp;D Building for Centre of Excellence at BIT Mesra.</b>	<b>2.5 months</b>	<b>Rs. ....../-</b>		<b>.....</b>

- The address for submission of Quotations and for obtaining further information:  
**REGISTRAR  
BIRLA INSTITUTE OF TECHNOLOGY, MESRA RANCHI-  
835 215 (JHARKHAND) – INDIA**
- Bids must be accompanied by EMD amount specified for the work in the table above, payable at Ranchi and drawn in favour of Birla Institute of Technology, Mesra. EMD will have to be in anyone of the forms as specified in the bidding document and shall have to be valid for 60 days beyond the validity of the bid. In the event of the date specified for Quotation receipt is declared as a closed holiday, the due date for submission of Offers will be the following working day at the appointed time
- The Schedule for Submission of Quotations is as follows:-

	Date	Time in hours (IST)	Submit to / Venue
Submission of Quotations	<b>03/07/2026</b>	-----	<b>Registrar Office, BIT MESRA</b>
Opening of Quotations	.....	.....	

- Tenderer(s) shall enclose self-attested Xerox copy of his/her valid registration, Sales tax, Income Tax Clearance, TIN, PAN, Audited turnover, Character Certificate (Proprietorship Companies), Labour License, EPF Registration, ESIC Registration, partnership deed etc.
- The Vice-Chancellor, BIT MESRA reserves the right to accept or reject any or all Quotations / offers either in part or in full or to split the order without assigning any reasons thereof.

Sd/-  
REGISTRAR

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## SECTION-2

# INSTRUCTIONS TO THE BIDDERS

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## INSTRUCTIONS TO THE BIDDERS

### 1 GENERAL INSTRUCTIONS

1.1 For the Bidding / Tender Document Purposes, 'BIT MESRA' shall be referred to as 'Client' and the Bidder / Successful Bidder shall be referred to as 'Contractor' and / or Bidder or interchangeably.

1.1.1 The Bidders are advised to inspect the site before filling in and submitting the bids to get fully acquainted with the scope of work as no claim whatsoever will be entertained for any alleged ignorance thereof.

1.2 The sealed bidding documents should be delivered in the office of the Registrar, BIT MESRA by the stipulated date and time.

1.3 The tender documents may also be downloaded from this office website [www.bitmesra.ac.in](http://www.bitmesra.ac.in). Those bidders who wish to download the tender documents from the official website should furnish the Tender Document cost specified in NIT through Bank Draft/Pay Order from **any Nationalized (Indian) Bank** along with the Bidding Documents and EMD.

1.4 While all efforts have been made to avoid errors in the drafting of the tender documents, the Bidder is advised to check the same carefully. No claim on account of any errors detected in the tender documents shall be entertained.

1.5 Each page of the Tender documents must be stamped and signed by the person or persons submitting the Tender in token of his/their having acquainted himself/herself/ themselves and accepted the entire tender documents including various conditions of contract. Any Bid with any of the Documents not so signed is liable to be rejected at the discretion of the Client. **NO PAGE SHOULD BE REMOVED/DETACHED FROM THIS BIDDINGDOCUMENT.**

1.6 The bidder shall attach the copy of the authorization letter / power of Attorney as the proof of authorization for signing on behalf of **the Bidder or Proprietor**

1.7 All Bidders are hereby explicitly informed that conditional offers or offers with deviations from the conditions of the Contract, the bids not meeting the minimum eligibility criteria, Technical Bids not accompanied with EMD of requisite amount/format, or any other requirements, stipulated in the tender documents are liable to be rejected.

1.8 For all purposes of the contract, including arbitration, thereunder, the address of the bidder mentioned in the bid shall be final unless the bidder notifies a change of address by a separate letter sent by registered post with acknowledgement due to BIT MESRA. The bidder shall be solely responsible for the consequences of any omission or error to notify change of address in the aforesaid manner.

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2 EARNEST MONEYDEPOSIT:

2.1 This bid should be accompanied by a Scanned Copy of the Earnest Money Deposit in e-Tender Website of Rs. ....../- in the form of Demand Draft of any scheduled bank. The validity of the Demand Draft must be up to 3 (three) months starting from the date of submission of the bids. The Hardcopy of Demand Draft shall be in favor of BIT MESRA and payable at Ranchi should reach before Tender Closing.

2.2 Bidders shall not be permitted to withdraw their offer or modify the terms and conditions thereof. In case the bidder fails to observe and comply with the stipulations made herein or backs out after quoting the rates, the aforesaid bid security shall be forfeited.

2.3 The bids without Earnest Money shall be summarily rejected.

2.4 No claim shall lie against BIT MESRA in respect of erosion in the value or interest on the amount of earnest money deposit or security deposit.

2.5 The bid security may be forfeited:

(i) If the bidder withdraws his bid during the period of bid validity specified by the bidder in the bid form; or

(ii) in case of successful bidder, if the bidder

a) Fails to sign the contract in accordance with the terms of the tender document

b) Fails to furnish required performance security in accordance with the terms of tender document within the time frame specified by the Client.

c) Fails or refuses to honor his own quoted prices for the services or part thereof.

3 VALIDITY OF BIDS

3.1 Bids shall remain valid and open for acceptance for a period of 120 days from the last date of submission of Bids.

3.2 In case Client calls the bidder for negotiation then this shall not amount to cancellation or withdrawal of original offer which shall be binding on the bidder.

3.3 The Client may request for extension for another period of 60 days, without any modifications and without giving any reasons thereof.

4 PREPARATION OF BIDS

4.1 Language: Bids and all accompanying documents shall be in English or in Hindi

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- 4.2 Minimum Eligibility Criteria: PART I of the Bid; to be submitted in the 1<sup>st</sup> sealed envelope consisting of:
- a. **Cost of Document: Rs. .... EMD: Rs. ..../-**
  - b. **Bid Submission Form duly signed and printed on Company's letterhead. Annexure –A**
  - c. Qualification information (Minimum Eligibility Criteria) as indicated in the Bid Document and documents as required with accordance with stipulations of bid document and any other material required to be completed and submitted by the Bidder in accordance with these instructions. All these documents are required to be signed by the signatory as per format given in bid document. Annexure –B to D

**The Qualification Information, Part I, should be kept in a separate sealed envelope, superscribed as "Minimum Eligibility Criteria for Tender No. Tender/26-27/Renovation of SH-I/01 Dtd:30/06/2026 with the Name and address of the Bidder.**

- 4.3 Technical Bid: PART II (if applicable) of the Bid; to be submitted in the 2<sup>nd</sup> sealed envelope, comprising of:
- a. Technical Offer along with technical specifications of equipment / know-how offered, drawings, pamphlets, etc., strictly in terms of tender enquiry.
  - b. The Bid Document downloaded from website, signed and stamped by authorized signatory of the bidder on each page of the tender document.
  - c. BOQ attached here is indicative and bidders are encouraged to prepare his own BOQ satisfying Fire safety norms as per NBC and Fire advisory issued by Fire department Government of Jharkhand.
  - d. For the purpose drawings are attached and bidders are encouraged to visit the site at their own cost for preparing more realistic BOQ.
  - e. It will be the responsibility of the bidder to get the system inspected by Fire official and get it cleared before their final payment.

The Technical Bid should then be kept in a separate sealed envelope, super scribed as "Technical Bid for **Tender/26-27/Renovation of SH-I/01 Dtd:30/06/2026** with the Name and address of the Bidder.

- 4.4 Technical Bid: Financial Bid: PART-III of the Bid; as per the Price Schedule as provided in the Tender Document.

The financial bid should be kept in a separate sealed envelope, superscribed "Financial Bid for **Tender/26-27/Renovation of SH-I/01 Dtd:30/06/2026** with the Name and address of the Bidder.

## 5 SUBMISSION OF BIDS vendor

- 5.1 The Bidder shall submit his bid in a sealed envelope containing three separate sealed envelopes consisting of (i) Minimum Eligibility Criteria; (ii) Technical Bid and (ii) Financial Bid, clearly subscribing so and the three envelopes shall be kept in another single sealed envelope and duly superscribed.
- 5.2 The Bid shall be submitted not later than **3:00 pm on 03/07/2026**, addressed to Registrar, Birla Institute of Technology, Mesra, Ranchi-835215.
- 5.3 Bidders sending their bids through courier should also ensure that their bids are received on the said address by the stipulated date and time. No time extension for couriers shall be granted.

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- 5.4 Bids must be received in the office at the address specified above not later than the date and time stipulated in the notification. No Bid shall be accepted after the aforesaid date and time. However, the competent authority of the BIT MESRA reserves right to extend the date / time for receipt of bids, before opening of the Technical Bids.
- 6 CLARIFICATION ON TECHNICAL BID EVALUATION.
- 6.1 The Eligibility Criteria and the technical bids shall be evaluated based on the available documents submitted by the bidder. To assist in the examination, evaluation, and comparison of the bids, and qualification of the bidders, the Client may, at its discretion, ask any bidder for a clarification of its bid. Any clarification submitted by a bidder that is not in response to a request by the Client shall not be considered. The Client's request for clarification and the response shall be in writing.
- 6.2 The Client also reserves the right to seek confirmation/clarification from the issuer agency, on the supporting documents submitted by the bidder.
- 7 RIGHT OF ACCEPTANCE:
- 7.1 BIT MESRA reserves all rights to reject any bid. including of those bidders who fail to comply with the instructions without assigning any reason whatsoever and does not bind itself to accept the lowest or any specific bids. The decision of the Competent Authority of BIT MESRA in this regard shall be final and binding.
- 7.2 Any failure on the part of the bidder to observe the prescribed procedure and any attempt to canvass for the work shall render the bidder 's bids liable for rejection.
- 7.3 The competent authority of BIT MESRA reserves the right to award any or part or full contract to any successful agency (ies) at its discretion and this will be binding on the bidders.
- 7.4 In case of failure to comply with the provisions of the terms and conditions mentioned, by the agency that has been awarded the contract, the competent authority of the BIT MESRA reserves the right to award the contract to the next higher bidder or any other outside agency and the difference of price shall be recovered from the defaulter agency who has been awarded the initial contract and this will be binding on the bidders.
- 7.5 BIT MESRA may terminate the Contract if it is found that the Contractor is blacklisted on previous occasions by any of the Government Departments / Institutions / Local Bodies / Municipalities / Public Sector Undertaking etc.

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8 NOTIFICATION OF AWARD BY ISSUANCE OF 'LETTER OF ACCEPTANCE'/ WORK ORDER

- 8.1 After determining the successful evaluated bidder, Client shall issue a Work Order/ Letter of Acceptance (LoA) in duplicate, who will return one copy to Client duly acknowledged, accepted and signed by the authorized signatory, within Three (3) days of receipt of the same by him/her.
- 8.2 The issuance of the Letter of Acceptance to the bidder shall constitute an integral part and it will be a binding to the contract.
- 8.3 The time taken between the date of issue of LoA and Notice to Proceed shall not prevent the contractor to mobilize the manpower and other resources.

9 SIGNING OF CONTRACT AGREEMENT

- 9.1 The successful Bidder shall enter into contract and shall execute and sign the Contract Agreement in accordance with the Articles of Agreement before commencement of the works and services.
- 9.2 Client shall prepare the draft Articles of Agreement in the Proforma included in this Document, duly incorporating all the terms of agreement between the two parties and send the same in duplicate to the successful Bidder for their concurrence.
- 9.3 The successful Bidder shall return the duly concurred copies of the draft Articles of Agreement within a Week of receipt of the draft Articles of Agreement from Client, duly printed on the correct amount of stamp paper, duly adjudicated by the registrar of stamps where the contract is proposed to be executed.
- 9.4 The competent authority of the Client shall sign the Contract agreement and return a copy of the same to the successful bidder.

10 RETURNING OF EARNEST MONEY DEPOSIT (BID SECURITY AMOUNT)

- 10.1 For the successful bidder the earnest money deposited in the form of Bank guarantee shall be discharged after the bidder has signed the Agreement/ furnished the required Performance Security/security deposit. The Earnest money/ Bid Security deposited in the form of Demand Draft/ECS Transfer shall be adjusted against the Performance Security/security deposit.

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# PART - I

*(To be submitted in a separate envelope)*

## SECTION-3

MINIMUM ELIGIBILITY CRITERIA

&

OTHER ANNEXURES

*(To be filled up, certified by Bidders and submitted along with supporting documents)*

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## MINIMUM ELIGIBILITY CRITERIA

The following shall be the minimum eligibility criteria for selection of bidders technically.

- i. Legal Valid Entity: The Bidder shall necessarily be a legally valid entity either in the form of a Limited Company or a Private Limited Company registered under the Companies Act, 1956, or JV/consortium, Proprietorship, Partnership, etc. A proof for supporting the legal validity of the Bidder shall be submitted.
- ii. Registration: The Bidder should be registered with the Income Tax, GST and also registered under the labour laws - Employees Provident Fund Organization, Employees State Insurance Corporation.
- iii. Clearance: The Bidder should also have enclosed 3 Years ITR.
- iv. **Annual Turnover: Three Crore**
- v. Experience: The Bidder should have experience in the similar works performed in reputed organizations during last 5 (five) years ending last day of month previous to the one in which bid applications are invited (i.e. eligibility period). The bidder has to submit the relevant work experience certificates in last 5 years. Pre-qualification shall be done based on experience of successfully completed works and not on experience of work in progress.
- vi. Working Bid Capacity of Contractor /Agency:

- a) The Working bid capacity of the contractor should be equal to or more than the estimated cost of the work put to tender. The Working Bid capacity shall be worked out by the following formula:

$$\text{Working Bid Capacity} = [A \times N \times 2] - B$$

Where,

A = Average Annual Turnover of the bidder for the last Three years (ending 31st march of Preceding Financial Year) from Construction activities. (*Annexure D*)

N = Number of years prescribed for completion of work for which bids have been invited.

B = Value of existing commitments and ongoing works to be completed (for all the clients of the Bidder) during the period of completion of work which bids have been invited. (*Annexure C*)

- b) The Tenderer / Bidder shall submit the details as required in clause 2(vii) above in proforma at Form Annexure C&D.

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- vii. All materials used shall be as per specifications and ISI marked wherever applicable. ISI marking referred relate to latest BIS code as published by the Bureau of Indian Standards up to 30 days before the date of opening the tender.
- viii. The contractor shall give a performance test of the entire installation (s) as per standard specifications and/or as directed by the In-charge CMC / Engineer I/cand will also submit Test Certificates as are required by Municipal / Electrical authority or any other authority. Nothing extra shall be payable for the same other than the fees paid to such authorities, which shall be reimbursed on production of receipts.

Documents supporting the Minimum Eligibility Criteria

- i. In proof of having fully adhered to the minimum eligibility criteria at 2(i), attested copy of Certificates of Incorporation issued by the respective registrar of firms/companies.
- ii. In proof of having fully adhered to minimum eligibility criteria at 2(ii), attested copies of GST & PAN Registration, Service Tax Registration, EPFO Registration, ESIC Registration shall be acceptable.
- iii. In proof of having fully adhered to minimum eligibility criteria at 2(iii), attested copies of Last three years returns from Income Tax Department shall be acceptable.
- iv.** In proof of having fully adhered to minimum eligibility criteria at 2(iv), attested copy of the audited balance sheets along with audit report for the completed three financial year i.e. **for 2023-24, 2024-25 and 2025-26.**
- v. In proof of having fully adhered to minimum eligibility criteria at 2(v), attested copy of experience certificates for completed work / ongoing work issued by the Government Departments / PSUs / reputed organizations shall be acceptable.
- vi. As provided by Bidder at Page\_\_\_\_\_.
- vii. As provided by Bidder at Page\_\_\_\_\_.
- viii. As provided by Bidder at Page\_\_\_\_\_.
- ix. As provided by Bidder at Page\_\_\_\_\_.

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BID SUBMISSION FORM

Date:

LETTER OF BID

To

REGISTRAR  
BIRLA INSTITUTE OF TECHNOLOGY, MESRA  
RANCHI-835 215 (JHARKHAND) - INDIA

Ref: Invitation for Bid No. BIT MESRA Tender No. Tender No. **Tender/26-27/Renovation of SH-I/01 Dtd:30/06/2026**  
We, the undersigned, declare that:

1. We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders.
2. We offer to execute in conformity with the Bidding Documents for **Tender/26-27/Renovation of SH-I/01 Dtd:30/06/2026** of Birla Institute of Technology, Mesra, Ranchi-835215.
3. Our bid shall be valid for a period of 120 days from the date fixed for the bid submission deadline in accordance with the Bidding Documents and it shall remain binding upon us and may be accepted at any time before the expiration of that period.
4. If our bid is accepted, we commit to submit a performance security in accordance with the Bidding Documents.
5. We also declare that any Government of India or any other Government/Private body has not declared us ineligible or blacklisted us on charges of engaging in corrupt, fraudulent, collusive or coercive practices or any failure/lapses of a serious nature.
6. We also accept all the terms and conditions of this bidding document and undertake to abide by them, including the condition that you are not bound to accept highest ranked bid / lowest bid or any other bid that you may receive.
7. The rates quoted by me are valid and binding upon me for the entire period of contract and it is certified that the rates quoted are the lowest rates as quoted in any other institution in India.
8. I/We give the rights to the competent authority of the office of BIT MESRA to forfeit the Earnest Money/ Security money deposit by me/us in case of breach of conditions of Contract.

Yours sincerely,

Authorised Signatory

(Authorised person shall attached a copy of Authorisation for signing on behalf of Bidding company)

Full Name and Designation

(To be printed on Bidder's letterhead)

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BIDDER INFORMATION

*(IMPORTANT: Bidders are requested to register at the Vendor Registration Portal of BIT MESRA: <http://purchase.bitmesra.ac.in/VendorPortal>(Vendor Registration Portal)*

1. Vendor ID (at BIT MESRA Site) :
2. Name of Tendering Firm / Agency :  
(Attach certificate of registration)
3. Registration & incorporation particulars of the Firm /Agency
  - i. Private Limited
  - ii. Public Limited
  - iii. Any other – Please specify :
4. Name of Proprietor / Director(s) :
5. Full Address of Reg. Office (Local) :
- Telephone No. :
- E-Mail Address :
6. Full Address of Reg. Office (Corporate) :
- Telephone No. :
- E-Mail Address :
7. Bank of Firm / agency :  
Current Account Number :  
IFSC Code :
8. GST No. :  
(Attach attested copy)
9. PAN No :  
(Attach attested copy)
10. E.P.F. Registration No. :  
(Attach attested copy)
11. E.S.I. Registration No :  
(Attach attested copy)

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## FORM

(UPTO THE PRECEDING MONTH OF SUBMISSION OF BID)

S. No	Name of the Work / Project	Details of client along with address and telephone	Contract Value	Start Date	Finish Date	Work done up to the preceding month of submission of bid	Value of existing commitments and ongoing works to be completed (for all the clients of the Bidder) during the period of completion of work for which bids have been invited (i.e. Balance value of work)  (B)

Note: The bidder shall also include the value of all such works which are awarded to bidder but yet not started up to the preceding month of submission of bid. Any misrepresentation by the bidder will debar him/her for 2 years from BIT MESRA works.

Date:

Place:

Signature of authorized person

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IN RESPECT OF DETAILS ON WORKING BID CAPACITY

NAME OF THE BIDDER: \_\_\_\_\_

## FINANCIAL INFORMATION

1. Financial Analysis: Details to be furnished duly supported by figures in Balance Sheet / Profit & Loss Account for the last 3 (ending 31<sup>st</sup> March of preceding FY) years duly certified by the Chartered Accountant, as submitted by the applicant to the Income Tax Department (Certified copies to be attached).

		1st FY	2ndFY	3rd FY(ending 31st March of preceding FY)	Average annual turnover.
		Rs. (In Lacs)	Rs. (In Lacs)	Rs (In Rs Lacs)	(In Lacs)
		a	b	c	(a + b + c) / 3
(1)	Gross Annual turnover of construction works only.				

11. Provisional balance sheets for FY (ending 31<sup>st</sup> March of preceding FY), duly certified by Chartered Accountants is also permitted in case the Audited Balance Sheet is not available.

Signature of Chartered  
Accountant with SealSeal and Signature of  
Bidder

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# PART - II

*(To be submitted in a separate envelope)*

## SECTION-4

# GENERAL CONDITIONS OF CONTRACT (GCC)

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## GCC INDEX

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## 1 DEFINITIONS

### 1.1 General

In this Contract including the Schedules the following words and expressions shall (unless the context requires otherwise) have the meaning assigned to them in this Schedule.

AGREEMENT	The word "Agreement" and "Contract" has been used inter changeably.
CONTRACTOR	The word "Contractor" and the "Successful Bidder" has been used inter changeably.
OWNER/ CLIENT / BIT	Shall mean Birla Institute of Technology, Mesra, Ranchi - 835215 (JHARKHAND).
PARTY	The word "party" means the Successful Bidder to whom the work contract has been awarded by the Client.
LETTER OF ACCEPTANCE	Shall mean the intent of the Client to engage the successful bidder for providing goods and services in its premises.
CONFIDENTIAL INFORMATION	Shall mean all information that is not generally known, and which is obtained / received during the tenure of the contract and relates directly to the business / assets of Client including the information having the commercial value.
TERMINATION DATE	Shall mean the date specified in the notice of Termination given by either Party to the other Party, from which the Contract shall stand terminated.
TERMINATION NOTICE	Shall mean the notice of Termination given by either Party to the other Party.
CONTRACTOR	Shall mean the individual, firm, LLP or company, whether incorporated or not, undertaking the works and shall include the legal personal representative of such individual or the persons composing such firm or LLP or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company
APPROVAL	Means approved in writing including subsequent written confirmation of previous verbal approval

BILL OF QUANTITIES OR SCHEDULE OF QUANTITIES	Means the priced and completed Bill of Quantities or Schedule of Quantities forming part of the tender
CONTRACT VALUE	Means the sum for which the tender is accepted as per the letter of Award
DATE OF COMMENCEMENT OF WORK	The date of start of contract shall be reckoned from 10 days after the date of issue of letter of Award, unless and until agreed otherwise.
INCHARGE P & D	Means the Engineer of BIT MESRA who shall supervise and be in-charge of the work
LETTER OF AWARD	Shall mean CLIENT's letter or notification conveying its acceptance of the tender subject to such conditions as may have been stated therein

## 2 SECURITY DEPOSIT

Security Deposit shall consist of two parts:

- A. PERFORMANCE SECURITY TO BE SUBMITTED AT AWARD OF WORK
- AND
- B. RETENTION MONEY TO BE RECOVERED FROM RUNNING BILLS.

### A. PERFORMANCE SECURITY

2.1 The successful bidder within fifteen days of the acceptance of the LOA shall execute a Performance Bank Guarantee in the form of a Bank Guarantee of any scheduled banks, a sum equivalent to **5%** of the accepted contract value in favour of BIT MESRA, payable at Ranchi (if applicable).

2.1.1 The Performance Bank Guarantee shall remain in force throughout the period of the Contract. The Performance Guarantee shall be initially valid up to the stipulated date of completion plus 60 days beyond that. In case the time for completion of works gets extended, the contractor shall get the validity of Performance Guarantee extended to cover such extended time for completion of work.

2.1.2 In case the contractor fails to submit the performance guarantee of the requisite amount within the stipulated period or extended period, letter of Award automatically will stand withdrawn and EMD of the contractor shall be forfeited/ adjustment shall be made from RA Bill.

2.1.3 BIT MESRA reserves the right of forfeiture of the performance guarantee in the event of the contractor's failure to fulfil any of the contractual obligations or in the event of termination of contract as per terms and conditions of contract.

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2.1.4 Performance guarantee shall be returned without any interest after successful completion/testing / commissioning and handing over the project to the client up to the entire satisfaction of BIT MESRA/ Client.

## 2.2 ADDITIONAL PERFORMANCE SECURITY DEPOSIT

For identified abnormally low rate (ALR) items, the contractor will be required to deposit with BIT MESRA the difference in amount calculated between the departmental justified rate multiplied by the quantity of a particular ALR item and the ALR rate quoted by the contractor multiplied by the quantity of the same item. The total amount to be deposited will be the sum total of all the identified ALR items calculated as per the method outlined above.

The amount so retained shall be released after successful completion of the individual item ALR items of work.

## B. SECURITY DEPOSIT/ RETENTION MONEY

2.1 The Security deposit or the retention money shall be deducted from each running bill of the contractor @ **5%** (five per cent only) of the gross value of the Running Account bill. The Earnest money deposited in the form of Demand Draft/ECS Transfer shall be adjusted against the security deposit and further recovery of security deposit shall commence only when the up-to-date amount of security deposit exceeds the earnest money deductible under this clause. No Interest shall be paid on amount so deducted.

2.2 The release/refund of security deposit of the contractor shall be subject to the observance/compliance of the conditions as under and whichever is later:

- a) Expiry of the defect liability period in conformity with provisions contained in clause 25 (Defect liability clause). The expiry of defect liability period shall be extended from time to time depending upon extension of time granted by BIT.
- b) The contractor produces a clearance certificate from the labour office. As soon as the work is virtually completed, the contractor shall apply for the labour clearance certificate to the Labour Officer under intimation to the In-charge CMC / Engineer I/c. The In-charge CMC / Engineer I/c, on receipt of the said communication, shall write to the Labour Officer to intimate if any complaint is pending against the contractor in respect of the work. If no complaint is pending, on record till after 3 months after completion of the work and/or no communication is received from the Labour Officer to this effect till six months after the date of completion, it will be deemed to have received the clearance certificate.

2.3 BIT MESRA reserves the right of part or full forfeiture of security deposit in addition to other claims in the event of contractor's failure to fulfill any of the contractual obligations or in the event of termination of contract as per terms and conditions of contract.

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### 3 MOBILIZATION ADVANCE

3.1 If the Contract Value exceeds 50 Lakhs, Mobilization advances up to maximum of 10% of Contract Value shall be paid to the contractor, if requested by him/her, on submission of irrevocable Bank Guarantee valid for contract period of an amount 1.2 times of the mobilization advance.

3.1.1 The Mobilization advance shall be interest bearing @ 10% Simple Interest.

3.2.1 The mobilization advance shall be released only after obtaining a bank Guarantee bond from a schedule bank for the amount of advance to be released and valid for the contract period. This shall be kept renewed time to time to cover the balance amount and likely period of complete recovery together with interest. The interest on the advance shall be calculated from the date of payment to the date of recovery, both days inclusive and shall be calculated from the date of payment to the date of recovery (365 days in a year), on the outstanding amount of advance.

3.2.2 This advance shall be paid in three instalments as follows:

- (i) First Instalment of 50% of total mobilization advance shall be paid after the agreement is signed and upon submission of performance guarantee for full amount as specified.
- (ii) 2nd instalment of 25% of total mobilization advance will be paid after the setting up of site office and site laboratory, complete mobilization of plant and machinery, scaffolding & shuttering materials etc.
- (iii) The Balance 25% of total mobilization advance shall be paid on completion of 10% of work in terms of cost and after the contractor has fully mobilized the work at site.

3.2.3 It shall be ensured that at any point of time, Bank Guarantee is available for the amount of outstanding advance.

3.2.4 The recovery should be commenced after 10% of work is completed and the entire amount together with interest shall be recovered by the time 80% of the work is completed.

### 4 SECURED ADVANCE AGAINST NON-PERISHABLE MATERIALS

Not applicable to this contract.

### 5 ESCALATION

No claim on account of any escalation on whatsoever ground shall be entertained at any stage of works. All rates as per Bill of Quantities (BOQ) quoted by contractor shall be firm and fixed for entire contract period as well as extended period for completion of the works. No escalation shall be applicable on this contract.

### 6 LIQUIDITY DAMAGES / COMPENSATION FOR DELAY

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6.1 If the contractor fails to complete the work within the date of completion or extended date of completion, he shall without prejudice to any other right or remedy available under the law to BIT MESRA on account of such breach, pay as compensation (Liquidated Damages): half percent (½ %) of the contract /Revised Contract amount whichever is less, per week of delay.

6.2 The aggregate of such compensation/compensations shall not exceed 10% of the total contract / revised contract value and adjusted against any sum payable to the contractor under this or any other contract with BIT MESRA.

6.3 If BIT MESRA is satisfied, that the works can be completed within a reasonable time after the specified time of completion, may allow further extension of time at its discretion with or without the levy of L.D. If the contractor fails to complete within the further extended period, LD shall be imposed

6.4 BIT MESRA may at its sole discretion, waive the payment of compensation on request received from the contractor indicating valid and acceptable reasons if the entire work is completed within the date as specified in the contract/work order or as validly extended date without stipulating any compensation for delay.

6.5 In case, the contractor does not achieve a particular milestone mentioned elsewhere in the tender document, or the re-scheduled milestone(s) the amount shown against that milestone shall be withheld, to be adjusted against the compensation levied at the final grant of Extension of Time. With-holding of this amount or failure to achieve a milestone, shall be automatic without any notice to the Contractor. However, if the contractor catches up with the progress of work on the subsequent milestone(s), the withheld amount shall be released. In case the contractor fails to make up for the delay in subsequent milestone(s), amount mentioned against each milestone missed subsequently also shall be withheld. However, no interest, whatsoever, shall be payable on such withheld amount.

## 7 ACTION IN CASE WORK NOT DONE AS PER SPECIFICATIONS

7.1 All works under or in course of execution or executed in pursuance of the contract, shall at all times be open and accessible to the inspection and supervision of the In-charge CMC / Engineer I/c and his authorized subordinates.

7.2 If it shall appear to the In-charge CMC / Engineer I/c or his authorized subordinates, that any work has been executed with unsound, imperfect, or unskillful workmanship, or with materials or articles provided by him/her for the execution of the work which are unsound or of a quality inferior to that contracted or otherwise not in accordance with the contract, the contractor shall, on demand in writing which shall be made within twelve months of the completion of the work from the In-charge CMC / Engineer I/c specifying the work, materials or articles complained of; notwithstanding that the same may have been passed, certified and paid for forthwith rectify, or remove and reconstruct the work so specified in whole or in part, as the case may require or as the case may be, remove the materials or articles so specified and provide other proper and suitable materials or articles at his own charge and cost. In the event of the failing to do so within a period specified by the In-charge CMC / Engineer I/c in his demand aforesaid, then the contractor shall be liable to pay compensation at the same rate as under clause 7 of the

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contract (for non-completion of the work in time) for this default. In such case the In-charge CMC / Engineer I/c may not accept the item of work at the rates applicable under the contract but may accept such items at reduced rates as the In-charge CMC / Engineer I/c may consider reasonable during the preparation of on account bills or final bill if the item is so acceptable without detriment to the safety and utility of the item and the structure or he may reject the work outright without any payment and/or get it and other connected and incidental items rectified, or removed and re-executed at the risk and cost of the contractor. Decision of the In-charge CMC / Engineer I/c to be conveyed in writing in respect of the same will be final and binding on the contractor.

## 8 CANCELLATION/DETERMINATION OF CONTRACT IN FULL OR PART

8.1 Subject to other provisions contained in this clause the In-charge CMC / Engineer I/c may, without prejudice to his any other rights or remedy against the contractor in respect of any delay, inferior workmanship, any claims for damages and / or any other provisions of this contract or otherwise, and whether the date of completion has or has not elapsed, by notice in writing absolutely determine the contract in any of the following cases:

- i) If the contractor having been given by the In-charge CMC / Engineer I/c a notice in writing to rectify, reconstruct or replace any defective work or that the work is being performed in an inefficient or otherwise improper or un-workmanlike manner shall omit to comply with the requirement of such notice for a period of seven days thereafter: or
- ii) If the contractor has, without reasonable cause, suspended the progress of the work or has failed to proceed with the work with due diligence so that in the opinion of the In-charge CMC / Engineer I/c (which shall be final and binding) he will be unable to secure completion of the work by the date for completion and continues to do so after a notice in writing of seven days from the In-charge CMC / Engineer I/c  
; or
- iii) If the contractor persistently neglects to carry out his obligations under the contract and / or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him/her in that behalf by the In-charge CMC / Engineer I/c; or
- iv) If the contractor shall obtain a contract with BIT MESRA as a result of wrong tendering or other non-bona-fide methods of competitive tendering or commits breach of Integrity Pact; or
- v) Transfers, sublets, assigns full or a part of work without prior approval of department.

8.2 When the contractor has made himself/herself liable for action under any of the cases aforesaid, the In-charge CMC / Engineer I/c may without prejudice to any other right or remedy which shall have accrued or shall accrue hereafter to BIT, by a notice in writing to cancel the contract as whole or only such items of work in default from the Contract, shall determine the amount, if any, is recoverable from the contractor for completion of the part work/part incomplete work of any item(s) taken out of his hands and execute at the risk and cost of the contractor, the liability of contractor on account of loss or damage suffered by BIT MESRA because of action under this clause shall not exceed 10% of the tendered value of the work. The In-charge CMC / Engineer I/c shall have powers:

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- a. To determine or rescind the contract as aforesaid (of which termination or rescission notice in writing to the contractor under the hand of the In-charge CMC / Engineer I/c shall be conclusive evidence). Upon such determination or rescission, the full security deposit recoverable under the contract and performance guarantee shall be liable to be forfeited and un-used materials, construction plants, implements, temporary buildings, etc. shall be taken over and shall be absolutely at the disposal of BIT. If any portion of the Security Deposit has not been paid or received it would be called for and forfeited; and/or
- b. To employ labour paid by BIT MESRA and to supply materials to carry out the work or any part of the work debiting the contractor with the cost of the labour and the price of the materials of the amount of which cost and price certified by the In-charge CMC / Engineer I/c shall be final and conclusive against the contractor and crediting him/her with the value of the work done in all respects in the same manner and at the same rates as if it had been carried out by the contractor under the terms of his contract. The certificate of the In-charge CMC / Engineer I/c as to the value of the work done shall be final and conclusive against the contractor provided always that action under the sub-clause shall only be taken after giving notice in writing to the contractor. If the expenses incurred by BIT MESRA are less than the amount payable to the contractor at his agreement rates, the difference shall not be paid to the contractor; and/or
- c. By a notice in writing to withdraw from the contractor any items or items of work as the In-charge CMC / Engineer I/c may determine in his absolute discretion and get the same executed at the risk and cost of the contractor.

8.3 Any excess expenditure incurred or to be incurred by BIT MESRA in completing the works or part of the works or the excess loss or damages suffered or may be suffered by BIT MESRA as aforesaid after allowing such credit shall without prejudice to any other right or remedy available to BIT MESRA in law be recovered from any moneys due to the contractor on any account, and if such moneys are not sufficient the contractor shall be called upon in writing and shall be liable to pay the same within 30 days.

8.4 If the contractor shall fail to pay the required sum within the aforesaid period of 30 days, the In-charge CMC / Engineer I/c shall have the right to sell any or all of the contractors unused materials, constructional plant, implements, temporary buildings, etc. and apply the proceeds of sale thereof towards the satisfaction of any sums due from the contractor under the contract and if thereafter there be any balance outstanding from the contractor, it shall be recovered in accordance with the provisions of the contract and law.

8.5 Any sums in excess of the amounts due to BIT MESRA and unsold materials, constructional plant etc. shall be returned to the contractor, provided always that if cost or anticipated cost of completion by BIT MESRA of the works or part of the works is less than the amount which the contractor would have been paid had he completed the works or part of the works, such benefit shall not accrue to the contractor.

8.6 In the event of anyone or more of the above courses being adopted by the In-charge CMC / Engineer I/c the contractor shall have no claim to compensation for any loss sustained by him/her by reasons of his having purchased or procured any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of the contract. And incase

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action is taken under any of the provision aforesaid the contractor shall not be entitled to recover or be paid any sum for any work thereof or actually performed under this contract unless and until the In-charge CMC / Engineer I/c has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

8.7 Provided further that if any of the recoveries to be made, while taking action as above, are in excess of the security deposit forfeited, these shall be limited to the amount by which the excess cost incurred by the BIT MESRA exceeds the security deposit so forfeited.

## 9 CONTRACTOR LIABLE TO PAY COMPENSATION EVEN IF ACTION NOT TAKEN UNDER CLAUSE 9

In any case in which any of the powers conferred upon the In-charge CMC / Engineer I/c by relevant clause thereof, shall have become exercisable and the same are not exercised, the non-exercise thereof shall not constitute a waiver of any of the conditions hereof and such powers shall notwithstanding be exercisable in the event of any future case of default by the contractor and the liability of the contractor for compensation shall remain unaffected.

## 10 SUSPENSION OF WORKS

10.1 The contractor shall, on receipt of the order in writing of the In-charge CMC / Engineer I/c, suspend the progress of the works or any part thereof for such time and in such manner as the In-charge CMC / Engineer I/c may consider necessary for any of the following reasons:

- i. On account of any default on the part of the contractor, or
- ii. For proper execution of the works or part thereof for reason other than the default of the contractor, or
- iii. For the safety of the works or part thereof.

The contractor shall, during such suspension, properly protect and secure the works to the extent necessary and carry out the instructions given in that behalf by the In-charge CMC / Engineer I/c.

10.2 If the suspension is ordered for reasons (ii) and (iii) in sub-para (a) above:

- i. The contractor shall be entitled to an extension of the time equal to the period of every such suspension plus 25% for the completion period. No adjustment in contract price will be allowed for reasons of such suspension.
- ii. If such suspension exceeds 45 (forty-five) days, the contractor will be compensated on mutually agreed terms.
- iii. In the event of the Contractor treating the suspension as an abandonment of the Contract by BIT, he shall have no claim to payment of any compensation on account of any profit or advantage which he may have derived from the execution of the work in full.

## 11 FORECLOSURE OF CONTRACT

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BIT MESRA at any point of time can abandon/reduce scope of work by issuing a notice to the contractor and contractor shall act accordingly. The contractor has no claim for payment of compensation other than those mentioned below:-

- a. The expenditure incurred by the contractor on preliminary works.
- b. Full amount for works executed up to the date of abandonment.
- c. Materials brought out to be delivered at site, which the contractor is legally liable to pay, for the purpose of works carried out or were to be carried out but for the foreclosure, including the cost of purchase and transportation and cost of delivery of such materials.
- d. Transportation of tools and plants of the contractor from site to contractor's place or to any other destination, whichever is less.

## 12 TERMINATION OF CONTRACT

The contract shall also stand terminated under any of the following circumstances:

- a. If the contractor being an individual in case of proprietary concern or in the case of a partnership firm, any of the partners declared insolvent as per provisions of Insolvency Act.
- b. In case of contractor being a company, its affairs are under Liquidation either by a resolution passed by the contractor's company or by an order of the court.
- c. On the death of the contractor.
- d. If the contractor shall suffer an execution being levied on his/their goods, estates and allowed it to be continued for a period of 21 days.

## 13 TIME ESSENCE OF CONTRACT & EXTENSION FOR DELAY

13.1 The time allowed for execution of the Works as specified in the Work Award or the extended time in accordance with these conditions shall be the essence of the contract. The execution of the works shall commence from such time period as mentioned in Work Award or the date on which the In-charge CMC / Engineer I/c issues written orders to commence the work.

13.2 Within 10 (Ten) days of Letter of Award, the Contractor shall submit a Time and Progress Chart (CPM/ PERT/ Quantified Bar Chart) and get it approved by the In-charge CMC / Engineer I/c. The Chart shall be prepared in direct relation to the time stated in the contract documents for completion of items of the works. It shall indicate the forecast (milestones) of the dates of commencement and completion of various items, trades, sections of the work and may be amended as necessary by agreement between the In-charge CMC / Engineer I/c and the Contractor within the limitations of time stipulated in the Contract documents. This approved Network/ PERT Chart shall form a part of the agreement. Achievement of milestones as well as total completion has to be within the time period allowed.

13.3 Contractor shall mobilize and employ sufficient resources for completion of all the works as indicated in the agreed BAR CHART/PERT Network. No additional payment will be made to the contractor for any multiple shift work or other incentive methods contemplated by him/her in his work schedule even though the time schedule is approved by the In-charge CMC / Engineer I/c.

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13.4 If the work(s) be delayed by:

- i) force-majeure; or
- ii) Abnormally bad weather; or
- iii) Serious loss or damage by fire; or
- iv) Civil commotion, local commotion of workmen, strike or lockout, affecting any or the trades employed on the work; or
- v) Delay on the part of other contractors or tradesmen engaged by In-charge CMC / Engineer I/c in executing work not forming part of the Contract; or
- vi) Non-availability of stores, which are responsibility of BIT; or
- vii) Non-availability or break down of tools and plant to be supplied or supplied by BIT; or
- viii) Any other cause which, in the absolute discretion of BIT, is beyond the Contractor's control,

then upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the In-charge CMC / Engineer I/c within 07 days but shall nevertheless use constantly his best endeavour to prevent or make good the delay and shall do all that may be reasonably required to the satisfaction of the In-charge CMC / Engineer I/c to proceed with the works.

14.4 Request for extension of time, to be eligible for consideration, shall be made by the Contractor in writing within fourteen days of the happening of the event causing delay. The Contractor may also, if practicable, indicate in such a request the period for which extension is desired. In any such case BIT MESRA may give a fair and reasonable extension of time for completion of work. Such extension shall be communicated to the Contractor by the In-charge CMC / Engineer I/c in writing within a reasonable time from the receipt of such request. Non application by the contractor for extension of time shall not be a bar for giving a fair and reasonable extension by the In-charge CMC / Engineer I/c and the extension of time so given by the In-charge CMC / Engineer I/c shall be binding on the contractor.

## 14 TAXES AND DUTIES

14.1 Except as otherwise specifically provided in the contract, the contractor shall be liable and responsible for the payment, of all taxes, such as Goods & Services Tax, excise duty, custom duty, sales tax, Value Added Tax including the purchase tax, consignment tax, work contract tax, service tax, entry tax or any other similar tax in the state concerned, turnover tax, toll tax, octroi charges, royalty, labour cess, levy and other tax(es) or duty(ies) which may be specified by local/state/ central government from time to time on all material articles / contract job including labour which may be used for this work. The rates quoted by him/her in the tender in bill of quantities shall be inclusive of all taxes, duties, levies etc.

14.2 The imposition of any new and/or increase in the aforesaid taxes, duties levies (including fresh imposition of any other Tax) is imposed by Statute, after the last stipulated date for the receipt of tender including extensions if any and the contractor thereupon necessarily and properly pays such taxes/levies/cess, the contractor shall be reimbursed the amount so paid, provided such payments, if any, is not, in the opinion of In-charge CMC / Engineer I/c attributable to delay in execution of work within the control of contractor. The contractor shall, within a period of 30 days of the imposition of any such further tax or levy or cess, give a written notice thereof to the In-charge CMC / Engineer I/c that the same is

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given pursuant to this condition, together with all necessary information relating thereto. In the event of non payment/default in payment of any of the above taxes, BIT MESRA reserves the right to with-hold the dues/payments of contractor and make payment to local/state/Central Government authorities or to labourers as may be applicable.

14.3 The rate quoted by the contractor shall be deemed to be inclusive of all taxes. Tax deductions at source shall be made as per laws prevalent in the State as applicable for the work.

14.4 The stamp duty and registration charges, if any, on the contract agreement levied by the Government or any other statutory body, shall be paid by the contractor as applicable in the state of work.

14.5 in the event of decrease / relaxation and / or waiver of any of the existing / prevailing tax(es), duties, levies, cess by Central / state Govt. Or any other statutory body(ies), after the last stipulated date for the receipt of tender including extension (if any), and the contractor thereupon has been paid or has raised claims of such tax(es), duties, levies, cess; such sums shall be recovered / deducted (from claims raised but which has not been paid) effective from the date as reckoned in the relevant statutory order / law / ordinance etc. The contractor, shall, within a period of 30 days of any such waiver/relaxation/decrease in tax(es), duties, levies, cess, give a written notice thereof to In-charge CMC / Engineer I/c stating the statutory change with documentary proof thereto. Provided always that In-charge CMC / Engineer I/c shall have full powers to effect recovery/deduction on account of any such statutory change even if the contractor has not intimated in the event when any such statutory action comes to his notice.

#### 15 INCOME TAX DEDUCTION(TDS)

Income tax deductions shall be made from all payments made to the contractor including advances against work done, as per the rules and regulations in force, in accordance with the Income Tax act prevailing from time to time.

#### 16 CONTRACTORS ALL RISK POLICY

The contractor is responsible for loss or damage to the work and shall at his own cost repair and make good the loss/damage to the work.

#### 17 PAYMENTS

All running payments shall be regarded as payments by way of advance against the final payment only and not as payments for work actually done and completed and/or accepted by BIT MESRA and shall not preclude the recovery for bad, unsound and imperfect or unskilled work to be removed and taken away and reconstructed or re-erected or be considered as an admission of the due performance of the Contract, or any part thereof, in this respect, or the accruing of any claim, nor shall it conclude, determine or affect in any way the powers of the BIT MESRA under these conditions or any of them as to the final settlement and adjustments of the accounts or otherwise, or in any other way vary/ affect the contract. The final bill shall be submitted by the contractor within three months of the completion of work, otherwise BIT's certificate of the measurement and of the total amount payable for the work accordingly shall be final and binding on contractor.

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Each Running Bills should be accompanied by two sets of at least 20 (twenty) photographs as per direction of In-charge CMC / Engineer I/c taken from various points depicting status of work as on Report/ Bill date and Monthly Progress Report for the concerned month in the pro-forma to be given/ approved by In-charge CMC / Engineer I/c . Intermittent progress Photographs as and when required shall also be provided by the Contractor at his own cost as per direction of In-charge CMC / Engineer I/c . No payment of running account bill shall be released unless it is accompanied by photographs and Monthly Progress Report as above.

## 18 MATERIALS AND SAMPLES

18.1 The contractor shall, at his own expense, provide all materials, required for the works. The contractor shall at his own expense and without delay; supply to the In-charge CMC / Engineer I/c samples of materials to be used on the work and shall get the same approved in advance. All such materials to be provided by the Contractor shall be in conformity with the specifications laid down or referred to in the contract. The contractor shall, if requested by the In-charge CMC / Engineer I/c furnish proof, to the satisfaction of the In-charge CMC / Engineer I/c that the materials so comply. The contractor shall at his risk and cost, submit the samples of materials to be tested or analyzed and bear all charges and cost of testing unless specifically provided for otherwise elsewhere in the contract or specifications.

18.2 The materials/products used on the works shall be one of the approved make/ brands out of list of manufacturers / brands /makes given in the tender documents. The contractor shall submit samples/ specimens out of approved makes of materials/ products to the In-charge CMC / Engineer I/c for prior approval. In exceptional circumstances In-charge CMC / Engineer I/c may allow alternate equivalent makes/brands of products/ materials at his sole discretion. The final choice of brand / make shall remain with the In-charge CMC / Engineer I/c, whose decision in this matter shall be final and binding and nothing extra on this account shall be payable to the Contractor. In case single brand/make are mentioned, other equivalent makes/ brands may be considered by the In-charge CMC / Engineer I/c.

18.3 The above provisions shall not absolve the contractor from the quality of final product and in getting the material and workmanship quality checked and approved from the In-charge CMC / Engineer I/c.

## 19 MOBILIZATION OF MEN, MATERIALS AND MACHINERY

19.1 The contractor shall provide at his own cost all men, materials, machinery, tools & plants as required for completion of work. In addition to this, appliances, implements, other plants, ladders, cordage, tackle, scaffolding and temporary works required for the proper execution of the work, whether original, altered or substituted.

19.2 All expenses towards mobilization at site and de-mobilization including bringing in equipment, work force, materials, dismantling the equipment, clearing the site etc. shall be deemed to be included in prices quoted and no separate payment on account of such expenses shall be entertained.

19.3 It shall be entirely the Contractor's responsibility to provide, operate and maintain all necessary construction equipment, scaffoldings and safety, gadget, lifting tackles, tools and appliances to perform the work in a workman like and efficient manner and complete all jobs as per the specifications and within the schedule time of completion of work. Further, contractor shall also be responsible for obtaining temporary electric and water connection for all purposes. The contractor shall also make standby arrangement for water & electricity to ensure un-interrupted supply.

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## 20 SAFETY

Precaution should be exercised at all times by the contractor for the protection of persons and equipment. The safety required and recommended by all applicable laws, codes, statutes and regulations shall be observed by the contractor. In case of accidents, the contractor shall be bound for compliance with all the requirements imposed by the Workmen Compensation Act or any other similar law in force & the contractor shall indemnify BIT MESRA against any claim on this account.

## 21 HINDRANCE REGISTER

21.1 A Hindrance register shall be maintained by both department and the contractor at site to record the various hindrances, encountered during the course of execution.

21.2 Hindrance register will be signed by both the parties. The contractor may also record his observations in the Hindrance Register. In case the contractor has a different opinion for hindrance and a dispute arises then the matter would be referred to the In-charge CMC / Engineer I/cand or the next higher authority whose decision would be final & binding on the contractor & the decision to be communicated within 15 days.

## 22 MEASUREMENTS OF WORKS

22.1 In-charge CMC / Engineer I/c shall, except as otherwise provided, ascertain and determine by measurement, the value of work done in accordance with the contract.

22.2 All measurements and levels shall be taken jointly by the In-charge CMC / Engineer I/c or his authorized representative and by the contractor or his authorized representative from time to time during the progress of the work and such measurements shall be signed and dated by the In-charge CMC / Engineer I/cand the contractor or their representatives in token of their acceptance. If the contractor objects to any of the measurements recorded, a note shall be made to that effect with reason and signed by both the parties.

22.3 All measurements of all items having financial value shall be entered by the contractor and compiled in the shape of the Computerized Measurement Book as per the format of BIT MESRA so that a complete record is obtained of all the items of works performed under the contract. All such measurements and levels recorded by the contractor or his authorized representative from time to time, during the progress of the work, shall be got checked by the contractor from the In-charge CMC / Engineer I/c or his authorized representative as per interval or program fixed in consultation with In-charge CMC / Engineer I/c or his authorized representative.

Whenever bill is due for payment, the contractor would initially submit draft computerized measurement sheets and these measurements would be got checked/test checked from the In-charge CMC / Engineer I/c and/or his authorized representative. The contractor will, thereafter, incorporate such changes as may be done during these checks/test checks in his draft computerized measurements, and submit to CLIENT a computerized measurement book, duly bound, and with its pages machine numbered. The In-charge CMC / Engineer I/cand/or his authorized representative would thereafter check this MB and record the necessary certificates for their checks/test checks.

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The final, fair, computerized measurement book given by the contractor, duly bound, with its pages numbered, should be 100% correct, and no cutting or over-writing in the measurements would thereafter be allowed. If at all any error is noticed, the contractor shall have to submit a fresh computerized MB with its pages duly numbered and bound, after getting the earlier MB cancelled by the CLIENT. The contractor shall submit two spare copies of such computerized MB's for the purpose of reference and record by the various officers of the CLIENT.

The contractor shall also submit to the department separately his computerized Abstract of Cost and the bill based on these measurements, duly bound, and its pages numbered along with two spare copies of the "bill.

22.4 It is also a term of this contract that checking and/or test checking the measurements of any item of work in the measurement book and/or its payment in the interim, on account of final bill shall not be considered as conclusive evidence as to the sufficiency of any work or material to which it relates nor shall it relieve the contractor from liabilities from any over measurement or defects noticed till completion of the defects liability period.

## 23 COMPLETION CERTIFICATE

23.1 Within ten days of the completion of the work, the contractor shall give notice of such completion to the In-charge CMC / Engineer I/cand within thirty days of the receipt of such notice, the In-charge CMC / Engineer I/c shall inspect the work and if there is no defect in the work, shall furnish the contractor with a final certificate of completion, otherwise a provisional certificate of physical completion indicating defects (a) to be rectified by the contractor and/or (b) for which payment will be made at reduced rates, shall be issued.

23.1.1 But no final certificate of completion shall be issued, nor shall the work be considered to be complete until the contractor shall have removed from the premises on which the work shall be executed all scaffolding, surplus materials, rubbish and all huts and sanitary arrangements required for his/their work people on the site in connection with the execution of the works as shall have been erected or constructed by the contractor(s) and cleaned off the dirt from all wood work, doors, windows, walls, floor or other parts of the building, in, upon, or about which the work is to be executed or of which he may have had possession for the purpose of the execution; thereof, and not until the work shall have been measured by the In-charge P & D.

23.2 If the contractor shall fail to comply with the requirements of this Clause as to removal of scaffolding, surplus materials and rubbish and all huts and sanitary arrangements as aforesaid and cleaning off dirt on or before the date fixed for the completion of work, the In-charge CMC / Engineer I/c may at the expense of the contractor remove such scaffolding, surplus materials and rubbish etc., and dispose of the same as he thinks fit and clean off such dirt as aforesaid, and the contractor shall have no claim in respect of scaffolding or surplus materials as aforesaid except for any sum actually realized by the sale thereof less actual cost incurred on removal of materials / debris / malba etc.

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23.3 The contractor shall submit completion plan as required vide General Specifications for Electrical works as applicable within thirty days of the completion of the work. In case, the contractor fails to submit the completion plan as aforesaid, he shall be liable to pay a sum equivalent to 2.5% of the value of the work subject to a ceiling of Rs.5,00,000 (Rs. Five Lakhs only) as may be fixed by the In-charge CMC / Engineer I/c concerned and in this respect the decision of the In-charge CMC / Engineer I/c shall be final and binding on the contractor.

23.4 Four copies of 'as built' drawings shall be supplied to BIT MESRA by the contractor within 30 days of the completion. All costs incurred in this respect shall be borne by the contractor **(If Applicable)**.

#### 24 DEFECTS LIABILITY PERIOD

The contractor shall be responsible for the rectification of defects in the works for a period twelve months from the date of taking over of the works by BIT MESRA whichever is later. Any defects discovered and brought to the notice of the contractor forthwith shall be attended to and rectified by him/her at his own cost and expense. In case the contractor fails to carry out these rectifications, the same may without prejudice to any other right or remedy available, be got rectified by BIT MESRA at the cost and expense of the contractor.

#### 25 RESTRICTION ON SUBLETTING

25.1 The contractor shall not sublet or assign the whole or part of the works except where otherwise provided, by the contract. The provision of labour on piece work basis shall not be deemed to be a subletting under this clause.

25.2 The contractor may entrust specialist items of works like MEP services, HVAC, Lifts, Building Management System, Water Proofing, and Data & Communication networking, interiors, landscaping etc. to the agencies specialized in the specific trade. The contractor shall give the names and details of such firm whom it is going to employ for approval of CLIENT. These details shall include the expertise, financial status, technical manpower, equipment, resources and list of works executed and on hand of the specialist agency. Further, prior written approval is required from CLIENT to deploy such agency / sub- contractor.

#### 26 FORCE MAJEURE

Any delay in or failure to perform of either party, shall not constitute default so as to give rise to any claim for damages, to the extent such delay or failure to perform is caused by an act of God, or by fire, explosion, flood or other natural catastrophe, governmental legislation, orders or regulation etc. The time for performance of the obligation by the parties shall be deemed to be extended for a period equal to the duration of the force majeure event. Both parties shall make their best efforts to minimize the delay caused by the force majeure event. In the event of foreclosure, the contractor shall not be entitled to any compensation whatsoever. If prior to such foreclosure the contractor has brought any materials to the site, the In-charge CMC / Engineer I/c shall always have the option of taking over of all such materials at their purchase price or at the local current rates, whichever is lower.

#### 27 NO COMPENSATION CLAUSE

The contractor shall have no claim whatsoever for compensation or idle charges against BIT MESRA on any ground or for any reason, whatsoever.

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## 28 WORK IN MONSOON AND RAIN, SUNDAYS, HOLIDAYS AND DURING NIGHT

28.1 The execution of the work may entail working in the monsoon also. The contractor must maintain labour force as may be required for the job and plan and execute the construction and erection according to the prescribed schedule. No special/ extra rate will be considered for such work in monsoon. The contractors' rate shall be considered inclusive of cost of dewatering due to rains required if any and no extra rate shall be payable on this account. The stipulated period for completion of project includes the monsoon period, holidays & festivals.

28.2 For carrying out work on Sunday and Holidays or during night, the contractor will approach the In-charge CMC / Engineer I/c or his representative at least two days in advance and obtain his permission. The In-charge CMC / Engineer I/c at his discretion can refuse such permission. The contractor shall have no claim on this account whatsoever. If work demand, the contractor shall make arrangements to carry out the work on Sundays, Holidays and in two, three shifts with the approval of In-charge CMC / Engineer I/c at no extra cost to BIT.

## 29 WATER AND ELECTRICITY

The contractor shall make his own arrangement for Water & Electrical power for construction and other purposes at his own cost and pay requisite electricity and water charges. The contractor shall also make standby arrangement for water & electricity to ensure un-interrupted supply.

## 30 WATCH, WARD AND LIGHTING OF WORKPLACE

The contractor shall at his own cost take all precautions to ensure safety of life and property by providing necessary barriers, OBSTRUCTIONS, lights, watchmen etc. during the progress of work as directed by In-charge P & D.

## 31 SCHEDULE OF QUANTITIES / BILL OF OF QUANTITIES

The quantities shown against the various items of work are only approximate quantities which may vary as per the actual requirement at site. No item which is not covered in the bill of quantities shall be executed by the Contractor without the approval of the CLIENT. In case any Extra/Substituted item is carried out without specific approval, the same will not be paid.

## 32 WATERPROOF TREATMENT

*As per BOQ*

## 33 LABOUR LAWS TO BE COMPLIED BY THE CONTRACTOR

33.1 Labour License: The contractor shall obtain a valid license under the contract labour (Regulation & Abolition) Act 1970 and the contract labour Act (Regulation & Abolition) Central Rules 1971 and amended from time to time and continue to have a valid license until the completion of the work including defect liability period. The contractor shall also adhere by the provision of the child labour (Prohibition and Regulation) Act. 1986 and as amended from time to time.

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33.2 BOCW: The contractor shall also comply with the provisions of the building and other Construction Workers (Regulation of Employment & Conditions of Service) Act, 1996 and the building and other Construction Workers Welfare Cess Act,1996.

33.3 Any failure to fulfill above requirement shall attract the penal provisions of this contract arising out the resultant for non-execution of the work before the commencement of work. No labour below the age of 18 years shall be employed on the work.

33.4 The contractor shall comply with the provisions of the Payment of Wages Act, 1936, Minimum Wages Act, 1948, Employees Liability Act, 1938, Workmen's Compensation Act, 1923, Industrial Disputes Act, 1947, Maternity Benefits Act, 1961, and the Contractor's Labour (Regulation and Abolition) Act 1970, or the modifications thereof or any other laws relating thereto and the rules made there under from time to time. The contractor shall comply with all the provisions of the minimum wages Act, 1948, contract labour Act (Regulation & Abolition) 1970, and rules framed there under and other labour laws/local laws affecting contract labour that may be brought into force from time to time.

33.5 The contractor shall be fully responsible for observance of all labour laws applicable including local laws and other laws applicable in this matter and shall indemnify and keep indemnified BIT MESRA against effect or non-observance of any such laws. The contractor shall be liable to make payment to all its employees, workers and sub-contractors and make compliance with labour laws. If BIT MESRA or the client/ owner is held liable as "Principal Employer" to pay contributions etc. under legislation of Government or Court decision in respect of the employees of the contractor, then the contractor would reimburse the amount of such payments, contribution etc. to BIT MESRA and/or same shall be deducted from the payments, security deposit etc. of the contractor.

33.6 EPF: The Contractor shall submit proof of having valid EPF registration certificate. He shall within 7 days of the close of every month, submit to BIT MESRA a statement showing the recoveries of contributions in respect of each employee employed by or through him/her and shall furnish to BIT MESRA such information as the BIT MESRA is required to furnish under the provisions of para 36 B of the EPF scheme 1952 to the EPF authorities and other information required by EPFO authorities from time to time. He shall also submit a copy of challan every month in token of proof of having deposited the subscription and contribution of workers engaged on the project.

33.6.1 In case, the contractor is not complying the above provision BIT MESRA shall withhold payment to the extent of 4.70% (Four-point Seven Zero percent) of the value of the Running Account bill and shall release only after the submission of above-mentioned details. If it is incumbent upon BIT MESRA to deposit withhold amount with EPF authorities, the withhold amount shall be deposited by BIT MESRA with EPF authorities. In such a case BIT MESRA shall not refund this withheld amount to the contractor even after the production of EPF registration certificate.

34 LABOUR RECORDS

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The contractor shall submit by the 4th & 19th of every month to the In-charge CMC / Engineer I/cof BIT MESRA a true statement, showing in respect of the second half of the preceding month and the first half of the current month, respectively, of the following data:

- a) The number of the labour employed by him/her(category-wise).
- b) Their working hours.
- c) The wages paid to them.
- d) The accidents that occurred during the said fortnight showing the circumstances under which they happened, and the extent of damage and injury caused.
- e) The number of female workers who have been allowed Maternity Benefits and the amount paid to them.
- f) Any other information required by In-charge CMC / Engineer I/c

Failing which the contractor shall be liable to pay to BIT, a sum not exceeding Rs.200/- for each default or materially incorrect statement. The decision of the BIT MESRA shall be final in deducting from any bill due to the contractor; the amount levied as fine and is binding on the contractor.

### 35 LABOUR CESS

35.1 BIT MESRA shall make a recovery @ 1% on account of labour cess from each RA bill of the contractor and labour cess so recovered/deducted shall be deposited with the Labour Board of the concerned state. In case the Labour Board is not established in the state, recovery made by BIT MESRA on account of labour cess shall be retained under suspense account and will be deposited with the Labour Board at later date as & when the Labour Board is constituted in the state.

35.2 The contractor shall also be responsible for maintaining register of beneficiaries i.e. the workers in such form as may be prescribed by the competent authority & the same shall be kept open at all reasonable times for inspection of relevant authority and officials of client / BITMESRA.

35.3 The contractor shall be further responsible for maintaining such register & records; giving such particulars of Building workers employed by him/her, the work performed by them, the number of hours of work which shall constitute a normal working day, the wages paid to them, the receipts given by them and, such other particulars in such form as may be prescribed by the authority or BITMESRA.

35.4 In the event of contractor failing to comply with the above clause(s) in part or in full, BIT MESRA, without prejudice to any other rights or remedy available under law or any other clause(s) of contract, shall be at absolute liberty to forfeit any sum or sums that are payable or could become payable on account of execution of contract work and decision of In-charge CMC / Engineer I/c shall be final & binding in this regard on the contractor.

### 36 List of papers to be submitted by the contractor, at the time of submission of the bill.

- a) Bill, GST Invoice along with Measurement sheet
- b) Registration certificate of the Agency/ company/ firm
- c) Labor license
- d) Name of staff/ labor along with employee code no. in specified format
- e) Labour payment/ Wage sheet duly signed by the contractor.

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- f) P.F. Deposit Challan/ receipt, contribution details of each staff/ labour duly certified by the contractor.
- g) ESI deposit challan/ receipt, contribution details of each staff / labour duly certified by the contractor.
- h) BOCW- Registration certificate
- i) GST Challan & proof of the payment

#### 37 INSOLVENCY

The competent authority of BIT MESRA may at any time by notice in writing summarily terminate the contract without compensation to the contractor in any of the following events, that is to say: -

If the contractor being a company shall pass a resolution or the court shall make an order for the liquidation of the affairs or a receiver or Manager on behalf of the debenture holder shall be appointed, or circumstances shall have arisen which entitled the court or debenture holders to appoint a receiver or Manager.

If the contractor commits any breach of this contract not herein specifically provided for: Provided always that such determination shall not prejudice any right of action or remedy which shall have accrued or shall accrue thereafter to the Client and provided also that the contractor shall be liable to pay the Client for any extra expenditure, he is thereby put to but shall not be entitled to any gain.

#### 38 CURRENCIES OF BID AND PAYMENTS

The Bidder shall submit his price bid / offer in Indian Rupees and payments under this contract will be made in Indian Rupees.

#### 39 GOVERNING LAWS AND SETTLEMENT OF DISPUTE

Any claims, disputes and or differences (including a dispute regarding the existence, validity or termination of this Contract) arising out of or relating to this contract including interpretation of its terms shall be resolved through joint discussion of the Authorised Representatives of the concerned parties. However, if the disputes are not resolved by the discussions as aforesaid within a period 30 days, then the matter will be referred for adjudication to the arbitration of a sole arbitrator to be appointed by the Client in accordance with the provisions of the Arbitration and Conciliation Act 1996 and rules made there under including any modifications, amendments and future enactments thereto. The venue for the Arbitration will be Ranchi and the decision of the arbitrator shall be final and binding on the parties.

#### 40 JURISDICTION

The agreement shall be executed at RANCHI on non-judicial stamp paper purchased in RANCHI and the courts in RANCHI alone will have jurisdiction to deal with matters arising there from, to the exclusion of all other courts.

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# SECTION-5

## SPECIAL CONDITIONS OF CONTRACT (SCC)

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### SPECIAL CONDITIONS OF CONTRACT (SCC)

1. These special conditions are meant to amplify the general specifications and general conditions of contract.
2. No payment shall be made to the contractor for any damage caused by rain, snowfall, floods or any other natural cause whatsoever during the execution of work. The damage to work will be made good by the contractor at his own cost, and no claim on this account shall be entertained.
3. All materials used shall be as per specifications and ISI marked wherever applicable. ISI marking referred to relate the to latest BIS code as published by the Bureau of Indian Standards up to 30 days before the date of opening the tender.
4. The rate of non-scheduled items will be taken as the rate of **DSR 23** (if available) without any escalation/deviation. That rate will be treated as inclusive of all taxes and overhead. If not available in **DSR 23** then, the rate will be as per analysis based on the actual market rate.
5. The contractor shall give a performance test of the entire installation (s) as per standard specifications and/or as directed by the In-charge CMC / Engineer I/cand will also submit Test Certificates as are required by Municipal / Electrical authority or any other authority. Nothing extra shall be payable for the same other than the fees paid to such authorities, which shall be reimbursed on the production of receipts.
6. All the activities related to the project shall be properly correlated before executing any work. However, in case of any discrepancy, it will be the responsibility of the contractor to sort out the matter in consultation with the Engg. in charge of the work. The decision of the In-charge CMC / Engineer I/c in such cases will be final.

#### 7. MATERIALS OBTAINED FROM DISMANTLEMENT

The contractors in the course of their work should understand that all materials (e.g. stone and other materials) obtained in the work of dismantling, excavation etc. will be considered BIT MESRA's property and may be issued to the contractor if required for use in this work at rates approved by the Employer.

#### 8. SCOPE OF WORK

WORK TO BE CARRIED OUT IN THE FOLLOWING: **Renovation of Seminar Hall-I, UPS & battery room, Main lobby and lounge of R&D Building for Centre of Excellence at BIT Mesra.**

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**Approved Makes:** (The make is applicable wherever required and if not mentioned in the respective BOQ.)

<b>APPROVED MAKE</b>		
<b>Sl.No.</b>	<b>Material</b>	<b>Makes (or equivalent) Preference wise</b>
<b>A</b>	<b>Civil Works</b>	
	Cement -PPC	Lafarge/ACC/Ultra Tech
	Reinforcement Bars-Fe 500	Tata/Sail/JSW
<b>B</b>	<b>LGSFS Works</b>	
	LGFS	Tata/Jindal
	Roofing Sheets	Tata/Jindal/Bhusan
<b>C</b>	<b>Flooring Works</b>	
	Vitrefied Tiles (Range of rate should be Capped)	Somany/Kajaria/Johnson/Nittco/Birla Pivot
<b>D</b>	<b>Aluminium Wooden and Steel Works</b>	
	Aluminium frame for windows	Hindalco/Jindal
	Float Glass	Saint Gobain/Modi Guard
	Ply board	Greenply/Century
	Laminates	Greenply/Century
	WPC	Rajshree / Century
<b>E</b>	<b>Finishing Works</b>	
	Plaster of Paris	Birla/JK/ Birla opus
	Wall Putty	Birla/ JK
	Paints	Asian/Birla opus/ Nerolac/Berger/Dulux
<b>F</b>	<b>False Ceiling Works</b>	
	Gypsum Board	Armstrong/Saint Gobain/Boral
	Frame	Armstrong/Saint Gobain
	False ceiling tiles	Armstrong/Saint Gobain
<b>G</b>	<b>Miscellaneous Works</b>	
	Roller Blinds	Vista/Johnson/Deck Blinds
	Water proofing	Asian/Berger/ Fosroc/Dr Fixit/Masterseal/ Sikka
<b>H</b>	<b>Electrical Works</b>	
	Lighting Fixtures	Orient or equivalent
	PVC Insulated Copper Conductor Cable	Orient or equivalent
	PVC Conduit of thickness 2 mm for recessed wiring	Polycab or equivalent
	Modular Swithes / Socket outlet	Orient or equivalent
	MCB / MCB - DB / TPN - DB / MCCB with variable static, TM Based Releases, Isolator / Industrial Socket Outlets	ABB/ Simens/Orient/L & T
	XLPE Al. Conductor 1.1 KV - grade	Finolex / Polycab/Havells/ KEI
	Copper Control Cable, Telephone Cable Multi Pair	Finolex / Polycab /D Link
	CAT - 5 wires for Telephone	Legrand/ Finolex / Polycab/Havels
	Luminaries (Fluorscent / Incandescent)	Orient or equivalent
	Ceiling Fans and Exhaust Fans (with louver having bird screen)	Orient or equivalent
	CCTV	Hikvision/CP Plus

	UPS	Emulsion-Vertix/Le-Grand
	A/C	Daikin/Voltas/Carrier
<b>I</b>	<b>PHE Works</b>	
	Saitary ware - Like EWC/Urinal/Wash basin etc	Jaquar/Hindware/Cera/Parryware
	CP Fittingf- Bib cock, Health Faucet, Pillar cock, Coupling, Soap dish/container, towel ring, paper holder etc	Jaquar/Hindware/Cera/Parryware
	Urinal Partitions	Marble/Jaquar/Hindware/Cera/Parryware
	Cistern	Jaquar/Hindware/Cera/Parryware/Marc
	PVC Pipes and fittings	Supreme/Astral/Finolex
	UPVC Pipes and fittings Shedule 80	HIL Birla Aerocon
	CPVC Pipes and fittings SDR11	HIL Birla Aerocon
	SWR Pipes and fittings for rainwater and venting applications Type A	HIL Birla Aerocon
	PVC Water Tank ISI	Syntex/Himgiri/Volga
	PVC,Water Tank	Syntex/Reno/Titus/Himgiri /Supreme
	Grating	Prayag/Astral
	Gate valve -gun metal	Scud/ Kiloskar/Marc/Leader
	Waste Pipe	Prayag/Astral/Finolex/Supreme
	Washroom Cubical partition	Greenlam/Marrino/Aura
<b>J</b>	<b>Fire Fighting Works</b>	
	Fire Hydrant Landing Valve	Asco/Newage/Atasee/Lifeguard
	Delivery Hose	Asco/Newage/Atasee/Lifeguard
	Short Branch Pipe	Asco/Newage/Atasee/Lifeguard
	Fire Hose Cabinet	Asco/Newage/Atasee/Lifeguard
	First Aid Hose Reel	Asco/Newage/Atasee/Lifeguard
	Sprinklers	Tyco/HD/Atasee
	Mild Steel Pipes	Tata/Jindal/Bansal/Nezone
	Fire Pumps and Motors	Kirloskar/Mather & Platt/ABB/ITT
	Pump controllers/Starter	Havells/L & T/Sam/Schneider/Scott
	Wires & Cables	Polycab/Finolex/Mescab/Havells
	Manual Valves	Zoloto/GM/Kirloskar/NVR/LP
	Fire Extinguisher	Safefire/Ceasefire/Atasee/Lifeguard
	Fire Alarm Panel	Honeywell/Qutak/Tyco/Simens/Cooper
	Smoke Detectors	Honeywell/Qutak/Tyco/Simens/Cooper
	Manual Call Point	Honeywell/Qutak/Tyco/Simens/Cooper
	Sounder/Hooter	Honeywell/Qutak/Tyco/Simens/Cooper
	Early Streamer Emission (E.S.E)	PARATONEX, MODEL-AURA 60

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# PART – III

*(To be submitted in a separate envelope)*

## SECTION-6

# PRICE BID

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The Tender: Price Bid  
(To be completed by the contractor)

Description of the works: **Renovation of Seminar Hall-I, UPS & battery room, Main lobby and lounge of R&D Building for Centre of Excellence at BIT Mesra.**

Ref: Tender No. **Tender/26-27/Renovation of SH-I/01 Dtd:30/06/2026**

To: \_\_\_\_\_ Date: \_\_\_\_\_

Birla Institute of Technology,  
Mesra, Ranchi

Subject: .....

Reference: Letter No. \_\_\_\_\_ dated \_\_\_\_\_ from \_\_\_\_\_

Sir,

We offer to execute the works described in your letter referred to above in accordance with the Conditions of contract enclosed therewith at a total contract price of (Including all duties & taxes)

Part1

Rs.\*\* \_\_\_\_\_ (In figures)Rs. \_\_\_\_\_ (In words)

Part2

Rs.\*\* \_\_\_\_\_ (In figures) Rs. \_\_\_\_\_ (In words)

Part 3

Rs.\*\* \_\_\_\_\_ (In figures)Rs. \_\_\_\_\_ (In words)

Part 4

Rs.\*\* \_\_\_\_\_ (In figures) Rs. \_\_\_\_\_ (In words)

This tender and your written acceptance of it shall constitute a binding contract between us. We understand & accept that you are not bound to accept the lowest tender you receive.

We hereby confirm that this tender is valid for 120 days.

Yours faithfully,

Authorized Signatory

Name & Title of Signatory : \_\_\_\_\_

Address: \_\_\_\_\_

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BIRLA INSTITUTE OF TECHNOLOGY

BILL OF QTY. FOR 26-27/IW/000..... Date: ...../2026 (AT-BIT MESRA)

ALL MATERIALS TO BE APPROVED BY THE Engineer IN-CHARGE

**BILL OF QUANTITY**

**RENOVATION OF SEMINAR HALL-I, UPS & BATTERY ROOM, MAIN LOBBY AND LOUNGE OF R&D BUILDING FOR CENTRE OF EXCELLENCE AT BIT MESRA:**

<b>Centre of Excellence at B.I.T. MESRA, RANCHI</b>						
<b>CIVIL &amp; INTERIOR WORKS BOQ</b>						
<b>MAJOR PKG NO</b>	<b>MINOR PKG NO</b>	<b>PARTICULARS</b>	<b>UNITS</b>	<b>QTY</b>	<b>RATE</b>	<b>AMOUNT</b>
<b>1</b>		<b>CIVIL WORKS</b>				
	1.1	<b>Demolition</b>				
		Dismantling of existing wall/floor tiles using appropriate tools and techniques. This includes breaking the tiles without damaging the underlying structure, removal of tile adhesive or mortar from substrate as needed, stacking serviceable materials (if salvageable) for resale as instructed, ensuring minimal damage to adjacent areas during tile removal.	SQM	112.90		₹ -
	1.2	<b>Debris Clearance - Civil &amp; Interior Waste</b>				
		Clearing and disposal of debris generated during tile removal, including collection of broken tiles, adhesives and other waste, loading, transporting and safe disposal of debris to be included	No's	24.00		₹ -
	1.3	<b>Blockwork Masonry</b>				

		<b>Providing and constructing in Excellent Quality Light Weight AAC 200mm thk block masonry</b> confirming to slabs conforming to IS 6073 and blocks are conforming to IS 2185 (Part 3). Installation to include complete with required raking out joints, curing, doing independent double legged scaffolding etc. as per the specification at all heights, depths and leads to the satisfaction of the Architect. No wastage would be accounted for in the measurements.	SQM	401.90		₹ -
	1.4	<b>Cement Plastering Works</b>				
		Provide 15 mm thick cement-sand plaster in CM 1:4 on block masonry surfaces, finished smooth, including curing, scaffolding, and surface preparation, complete.	SQM	779.53		₹ -
	1.5	<b>Doors &amp; Window Dismanteling Works</b>				
		Carefully dismantling existing doors, door frames, windows, glazing, hardware and associated fixtures, including stacking of reusable materials at designated location, removal of debris and disposal of unserviceable materials, complete.	No's	12.00		₹ -
	1.6	<b>Pre-construction Anti-termite Treatment</b>				

		Providing and carrying out pre-construction/pre-interior anti-termite treatment using an approved, odourless, water-based chemical emulsion (Imidacloprid 30.5% SC / Chlorpyrifos 20% EC or approved equivalent) to all floor surfaces, wall-floor junctions, masonry surfaces, existing wooden members, door frames, window frames, concealed voids, service penetrations, pipe sleeves and other vulnerable locations prior to commencement of interior works. The treatment shall be carried out strictly in accordance with IS 6313 (Part 2): 2019, CPWD Specifications and the manufacturer's recommendations, including drilling wherever required, pressure injection, spraying, sealing of drilled holes, protection of adjacent finishes, all labour, materials, equipment, tools, consumables and cleaning, complete in all respects. The contractor shall submit manufacturer's test certificates and provide a minimum 5-year warranty against termite infestation.	LS	1		₹ -
	<b>1.7</b>	<b>House keeping</b>				
		Providing housekeeping services throughout the project, including regular cleaning of work areas, removal of dust, debris and construction waste, segregation and disposal of waste at approved locations, protection and cleaning of finished surfaces, floors, walls, ceilings, doors, glass, fixtures and fittings, periodic cleaning during execution, and final deep cleaning of all completed areas prior to handover. The work shall include all labour, cleaning materials, equipment, consumables, tools, transportation and disposal charges, complete in accordance with the Architect's instructions and project requirements.	LS	1		₹ -
	<b>1.7</b>	<b>H Frame Scaffolding for internal works (4m)</b>	Months	5		₹ -

SUBTOTAL FOR CIVIL WORKS						₹
2		<b>FALSE CEILING WORKS</b>				
	2.1	<b>GYPSUM FALSE CEILING</b>				
		<p><b>GYPSUM CEILING :</b> Providing &amp; fixing suspended false ceiling using 12.5mm thick gypsum boards confirming to IS 2095-1982 and GI framework of make, Gyp steel system or approved equivalent comprising of following.1. GI perimeter channel of min.0.55mm thick having one flange of 20mm, another of 30mm and web of 27mm fixed to brick wall partition along periphery of ceiling with the help of nylon sleeves and screw sat 610mm c/c2. GI intermediate channel ( size, 45mm web, two flanges each of 15mm &amp; thickness min.0.9mm ) suspended from the soffit / ceiling at 1200mm c/ c spacing.3. GI ceiling sections of min.0.55mm thick having knurled web of 51.5mm and two flanges each of 26mm with leaves of 10.5mm fixed to intermediate channel with the help of connecting clip at direction perpendicular to the intermediate channel at spacing of 600 mm c/c,4. GI suspender angle of 25mmx10mm and thk.0.55mm at spacing of 600mmc/c, fixed to the ceiling / soffit using GI cleat angle 25mm x 25mm,0.55mm thk. or approved quality clamps. Cleat angle to be fixed to the ceiling / soffit using 6mm dia anchor fastener. Gyp boards with tapered edges to be screwed to the framework with 25mm long GI screws at 230 mm c/c. Gyp boards are to be joined and finished so as to have flush look which includes filling and finishing the tapered and square edge of the boards with the approved quality joining compounds and paper tape as per the manufacturer's specifications.</p>				

		The work also includes vertical drops, curvature, cutting of gyp boards & frame work and providing cut outs / openings and additional supports wherever required for the fixing of ceiling fixtures like, lights, A.C grills, sprinklers, smoke detectors, curtain tracks etc. (Mode of measurements : Only the exposed area of gypsum board shall be measured for payment)				
		Also to include, Providing & Fixing Acoustic insulation with rock wool of approved make, well compacted, wrapped in non woven tissues and fixed to the frame etc. complete.				
	<b>2.1.1</b>	<b>Gypsum Ceiling in Lounge, Seminar Hall</b>	SQM	115.34		₹ -
	<b>2.2</b>	<b>ALUMINIUM GRID (OPEN CELL) CEILING</b>				
		Providing, making, and fixing an (100mm x 100mm x 100mm) aluminium open-cell grid ceiling as per the design details shared, including all necessary framework, supports, and suspension system to achieve the required aesthetic and functional intent specified by the Architect. The ceiling shall be composed of lightweight, high-quality aluminium open-cell panels with a standard or customized cell size and depth, finished in <u>powder coating or anodized as per the approved shade</u> and finish. The panels shall be precision-engineered for uniformity and modular installation, ensuring ease of maintenance and accessibility to services above the ceiling.				
		The open-cell panels shall be suspended using a concealed or exposed suspension system with a T-grid framework, securely fixed to the RCC slab or structural members using approved suspension rods, brackets, and fasteners. The installation shall include alignment, leveling, and proper				

		spacing to achieve a seamless and visually appealing grid layout.				
		The system shall allow for easy integration of lighting, HVAC vents, fire sprinklers, and other MEP services without compromising the design aesthetic. All materials, finishes, and fittings shall conform to industry standards, ensuring durability, fire resistance, and compliance with safety regulations. The final installation shall be completed in all respects, including cleaning, protection, and final approval from the Architect.				
	2.2.1	<b>Entrance lobby</b>	SQM	93.50		₹ -
	<b>2.3</b>	<b>Metal Grid False Ceiling (600 × 600 mm)</b>				
		Supply, fabrication and installation of 600 × 600 mm clip-in metal false ceiling comprising 0.6 mm thick electro-galvanized steel (GI) <u>powder-coated ceiling panels with factory-applied polyester finish as per approved colour</u> , suspended from the structural slab using hot-dip galvanized suspension system consisting of main runners, cross tees, hanger rods, clips, perimeter wall angles and all necessary accessories. The work shall include providing cut-outs and reinforcements for light fittings, diffusers, return air grilles, sprinklers, detectors, speakers, access panels and other MEP services, including alignment, levelling, fixing, making good around openings and complete installation as per approved drawings and manufacturer's specifications. <b>LOCATION - Main Lab, Viewing Gallery</b>	SQM	120.00		₹ -

	<b>2.4</b>	<b>Ceiling Plywood Vertical Partition / Supporting Works</b>				
		Providing and fixing vertical ceiling partition/support framing comprising 12 mm BWR Grade plywood fixed over GI framework (50 × 50 × 0.8 mm or approved equivalent) securely anchored to RCC slab and suspended ceiling framework with necessary GI channels, angles, cleats, anchor fasteners, screws and all accessories. The work shall include cutting, edge finishing, necessary openings for MEP services, coordination with lighting fixtures, HVAC ducts, cable trays, fire protection systems and access panels, complete in all respects as per approved shop drawings and Architect's instructions. recommendations.				
	2.4.1	<b>Entrance lobby, Lab area, lounge etc</b>	SQM	72.47		₹ -
		<b>SUBTOTAL FOR FALSE CEILING WORKS</b>				₹ -
	<b>3</b>	<b>WALL PUNNING, PAINTING &amp; POLISHING WORKS</b>				
	<b>3.1</b>	<b>Wall Punning</b>				
		Providing and applying wall punning using approved quality white cement-based polymer modified wall putty over prepared internal plastered masonry and RCC wall surfaces, including thorough surface cleaning, filling of minor cracks, pinholes and undulations, application of minimum two coats to achieve an average finished thickness of 1.5–2.0 mm, rubbing with fine emery paper to obtain a smooth, uniform, level and paint-ready surface, maintaining true line, level and plumb, including all materials, labour, tools, scaffolding, protection of adjacent finished surfaces, cleaning, disposal of debris and all	SQM	513.58		₹ -

		incidental works, complete as per the Architect's instructions and manufacturer's specifications.				
	<b>3.2</b>	<b>WALL PAINTING WORKS</b>				
		Providing and applying 2–3 coats of <u>Birla Opus Premium Interior Emulsion (Royale equivalent)</u> or approved equivalent, washable, stain-resistant, fungus and mildew resistant, low VOC, rich matt finish acrylic emulsion paint over one coat of Birla Opus Interior Water-Based Primer, applied on 2–3 coats of Birla White cement-based wall putty with polymer additives to achieve a smooth and uniform surface finish on internal walls and ceilings. The scope shall include thorough surface preparation, cleaning, removal of loose particles, crack filling (up to 3 mm width) using approved acrylic crack filler, putty application, sanding, primer, finishing coats, masking, protection of adjoining surfaces, providing and removing scaffolding, touch-up, cleaning and handing over complete in accordance with the manufacturer's specifications, approved drawings and the Architect's instructions.				
		<b>Application System:</b> Surface cleaning and preparation, crack filling (up to 3 mm) using Birla Opus approved crack filler, 2–3 coats of Birla White Wall Putty, one coat of Birla Opus Interior Water-Based Primer, followed by 2–3 coats of Birla Opus Premium Interior Emulsion (Royale equivalent) with dilution strictly as recommended by the manufacturer.				

		The contractor shall inspect and assess the existing wall and ceiling finishes in each room, corridor and ancillary space before commencement of work and shall ensure that the specified final finish is achieved. The quoted rate shall include all preparatory works required to obtain the specified finish, and no additional payment shall be entertained for surface preparation, repairs, touch-ups or additional finishing works unless specifically instructed by the Architect.				
	3.2	For Walls	SQM	681.51		₹ -
	3.3	<b>PREMIUM EMULSION</b>				
		Providing and applying 2 coats of <u>Birla Opus Premium Interior Emulsion or approved equivalent</u> , washable, stain-resistant, fungus and mildew resistant, low VOC, rich matt finish acrylic emulsion paint over one coat of Birla Opus Interior Water-Based Primer applied on 2-3 coats of Birla White cement-based wall putty with polymer additives to internal walls and ceilings. The work shall include surface preparation, cleaning, removal of loose particles, crack filling up to 3 mm width using approved acrylic crack filler, putty application, sanding, primer, finishing coats, masking, protection of adjoining surfaces, providing and removing scaffolding, touch-up, cleaning and handing over complete, in accordance with the manufacturer's specifications, approved drawings and the Architect's instructions.				

		<b>Application System:</b> Surface cleaning and preparation, crack filling (up to 3 mm) using Birla Opus approved crack filler, 2–3 coats of Birla White Wall Putty, one coat of Birla Opus Interior Water-Based Primer, followed by 2 coats of Birla Opus Premium Interior Emulsion with dilution strictly as recommended by the manufacturer.				
		The contractor shall inspect and assess the existing wall and ceiling finishes in each room, corridor and ancillary space prior to commencement of the work and shall ensure that the specified final finish is achieved. The quoted rate shall include all preparatory works required to obtain the specified finish, and no additional payment shall be entertained for surface preparation, repairs, touch-ups or additional finishing works unless specifically instructed by the Architect.				
	3.3	<b>For Ceilings</b>	SQM	279.24		₹ -
	3.4	<b>TEXTURE PAINTING WORKS</b>				

		<p>Providing and applying premium low VOC textured acrylic coating (Birla Opus Texture Finish or approved equivalent) on internal wall and ceiling surfaces, comprising thorough surface preparation, cleaning, removal of loose particles, crack filling up to 3 mm width using approved acrylic crack filler, levelling with white cement-based polymer modified wall putty wherever required, one coat of Birla Opus Penetrating/Interior Water-Based Primer, application of approved textured coating by roller to achieve the specified texture and pattern, followed by two coats of Birla Opus Premium Exterior/Interior Acrylic Finish Coat or approved equivalent in approved shade and colour. The completed coating system shall provide low VOC content, crack bridging capability up to 2.6 mm, 100% pure acrylic emulsion, anti-carbonation protection, very low flame spread characteristics, superior washability, fungus and algae resistance, UV stability and excellent weather durability. The work shall include all materials, labour, scaffolding, masking, protection of adjoining finishes, touch-ups, cleaning and handing over complete, in accordance with the manufacturer's specifications, approved drawings and the Architect's instructions. The contractor shall inspect and assess all existing wall and ceiling surfaces prior to commencement of work and ensure the required final finish is achieved without any additional claim for surface preparation or rectification.</p> <p><b>Basic Rate: ₹1400/Sqm</b></p>				
	3.5	<b>Texture Paint As Per Required Finish</b>	SQM	-		₹ -
	3.6	<b>WALL &amp; CEILING PAINTING: Fire-Retardant Intumescent Wall Coating</b>				

		Supply and application of certified water-based intumescent fire-retardant coating system over prepared internal wall surfaces of <b>AI Lab and UPS Room</b> , including surface preparation, cleaning, compatible primer, intermediate and finish coats to achieve the specified dry film thickness (DFT) and minimum 2-hour fire resistance, complete with all materials, labour, scaffolding, touch-up, testing, manufacturer's warranty and certification, as per approved fire consultant's specifications and manufacturer's recommendations.				
	<b>3.6.1</b>	<b>Fire-Retardant Intumescent Wall Coating</b>	SQM	189.20		₹ -
	<b>3.6.2</b>	<b>Fire-Retardant Intumescent Ceiling Coating</b>	SQM	95.00		₹ -
	<b>3.7</b>	<b>Main door &amp; Connected Solid Wood Window - Repolishing</b>				

<p>Supplying and applying premium PU Interior Matt Finish (Semi-Matt / Anti-Scratch) of ICA or equivalent approved Italian make on interior solid wood, veneer, MDF substrates including doors, windows, furniture and wall panelling, comprising complete surface preparation, sanding, sealing and finishing to achieve a uniform, smooth and durable finish. The application shall include thorough sanding along the grain using P150, P180, P220 and P320 grit sandpapers, complete removal of dust using compressed air, application of two coats of epoxy primer, followed by two coats of compatible clear PU sealer (120–150 g/m<sup>2</sup> per coat), with intermediate sanding using P220 and P320–P400 grit sandpapers after each coat. The finish shall comprise one or two coats of ICA PU Interior Matt / PU Anti-Scratch Matt Clear Topcoat (100–120 g/m<sup>2</sup> per coat) applied in accordance with the manufacturer's recommendations, ensuring proper drying intervals, intermediate sanding wherever required and final finishing to achieve a smooth, uniform, scratch-resistant, high-transparency matt finish. The work shall include all materials, labour, specialised tools, protection, masking, transportation, cleaning and completion in accordance with approved mock-ups, manufacturer's specifications and the Architect's instructions.</p>				
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		<p><b>Note:</b> The polishing methodology, sequence of surface preparation, sanding grit progression, epoxy primer application, PU sealer coats, intermediate sanding, PU topcoat application, drying intervals and final finishing requirements shall remain identical for both existing and new solid wood doors, veneer-finished doors, windows, furniture and wall panelling. Existing surfaces shall be thoroughly inspected and all loose coatings, damaged polish, stains, scratches, dents and surface imperfections shall be completely removed and repaired prior to commencement of the polishing process to achieve a uniform finish matching the approved sample. No additional payment shall be made for extra surface preparation required to achieve the specified finish on existing substrates.</p>	SQM	25.00		₹ -
		<b>SUBTOTAL FOR WALL PUNNING, PAINTING &amp; POLISHING WORKS</b>				₹ -
<b>4</b>		<b>PARTITION &amp; PANELING</b>				
	<b>4.1</b>	<b>Toughened Laminated Glass Partition</b>				

		Providing, fabricating and installing fixed 12 mm thick toughened laminated clear glass partition (6 mm Toughened + 1.52 mm PVB/SGP Interlayer + 6 mm Toughened) with approved powder-coated/anodized aluminium framework of suitable sections, including aluminium channels, mullions, transoms, pressure plates, cover caps, EPDM gaskets, rubber beading, structural silicone sealant, stainless steel fasteners, anchor bolts, brackets and all necessary accessories, complete with edge polishing, cutting to required sizes, alignment, levelling and secure fixing, excluding glass door and associated hardware, including all materials, labour, tools, lifting, scaffolding (where required), protection of adjacent finishes, cleaning and handing over complete as per approved drawings, manufacturer's specifications and Architect's instructions.				
	4.1.1	Viewing Gallery	SQM	60.84		₹ -
	4.1.2	Window fixed glass (Double Glazed) with Aluminium/UPVC frame work	SQM	10.00		₹ -
	4.2	<b>Plywood Panelling with MS Framework Finished with MDF Board</b>				

	<p>Providing, fabricating and fixing wall panelling comprising a framework of 40 × 40 × 1.6 mm thick MS hollow square sections, treated with one coat of zinc-rich primer and two coats of synthetic enamel/epoxy paint for corrosion protection, securely anchored to the wall using approved anchor fasteners. The framework shall be clad with 12 mm thick BWR grade plywood, over which 12 mm thick moisture-resistant MDF board shall be fixed using approved screws and adhesive to achieve a smooth, true and level surface, including cutting, routing, edge finishing, necessary backing supports, making openings for electrical, HVAC and other MEP services, joint treatment, alignment, levelling, all materials, labour, hardware, scaffolding, protection of adjacent finishes, cleaning and disposal of debris, complete as per approved drawings and the Architect's instructions, ready to receive the specified final finish (paint, laminate, veneer, fabric, fluted panels or any other approved finish).</p>	SQM	75.21		₹ -
<b>4.3</b>	<b>Veneer Finished Plywood Panelling (incl Polish)</b>				
	<p>Providing and fixing wall panelling comprising 12 mm thick BWR grade plywood securely fixed over the approved supporting framework, finished with approved natural wood veneer of approved species, shade and grain pattern, bonded using high-quality adhesive, including veneer matching, edge lipping with matching hardwood, necessary groove detailing, sanding, staining (if required), including <u>application of PU polish</u> as specified, cutting, routing, making openings for electrical and MEP services, all materials, labour, hardware, consumables, scaffolding, protection of adjacent finished surfaces, cleaning and disposal of debris, complete in all respects as per approved drawings and the Architect's instructions. <b>Note :</b></p>	SQM	174.96		₹ -

		<b>Specifications of PU Polish to be followed as mentioned above in the same BOQ</b>				
	<b>4.4</b>	<b>Acoustic Panelling with 12 mm PET Acoustic Panel on Plywood</b>				
		<p>Providing, fabricating and fixing acoustic wall panelling system for auditorium walls comprising approved GI framework fabricated from 50 mm × 50 mm × 0.55 mm thick galvanized steel sections securely anchored to the wall, complete with 50 mm thick, 48 kg/m<sup>3</sup> density resin bonded glass wool acoustic insulation wrapped in factory laminated black non-woven tissue, maintaining a minimum 25 mm air cavity between the wall and insulation wherever specified. The framework shall be overlaid with 12 mm thick BWR grade plywood fixed with self-drilling screws and approved fasteners, finished with 12 mm thick PET acoustic panels of approved colour, texture and density, having a minimum NRC of 0.85 (tested as per ASTM C423 / ISO 354) and minimum Fire Classification of Class B-s1,d0 or equivalent. The work shall include approved adhesive, concealed mechanical fasteners, aluminium edge trims, shadow gap/groove detailing, corner trims, cut-outs for electrical, audio-visual, lighting, HVAC diffusers, speakers and other MEP services, alignment, levelling, finishing, testing, protection of adjacent finished surfaces, scaffolding, cleaning and disposal of debris, complete with all materials, labour, consumables, accessories and hardware in accordance with the approved drawings, manufacturer's specifications and the Architect's instructions. Basic Rate: ₹6900/Sqm</p>	SQM	99.30		₹ -

		The complete acoustic wall system shall achieve an overall Noise Reduction Coefficient (NRC) of not less than 0.85, with all insulation, framework and finishes forming part of the quoted rate.				
	<b>4.5</b>	<b>Laminate Finished Plywood Panelling</b>				
		Providing, fabricating and fixing wall panelling comprising 12 mm thick BWR grade plywood securely fixed over approved MS/GI framework or hardwood battens with necessary screws and fasteners, finished with 1.0 mm thick premium decorative laminate of approved make, shade and texture, bonded using approved synthetic adhesive, including matching edge lipping, grooves, edge trims, cut-outs for electrical boxes, switches, data outlets and MEP services, complete with alignment, levelling, finishing, protection, cleaning and handing over in accordance with approved drawings, manufacturer's specifications and the Architect's instructions. The rate shall include all framework, plywood, laminate, adhesives, fasteners, accessories, labour, tools, consumables and wastage required for complete installation. <b>Consider Basic Rate of Laminate Shade/Design as per 3d shown (matching the Veneer Colour/Shade)</b>	SQM	35.73		₹ -
	<b>4.6</b>	<b>MDF Wood Moulding (design as per 3d views attached)</b>				
		Providing, fabricating and fixing MDF mouldings of approved design, profile and dimensions, machine-finished and sanded smooth, complete with edge profiling, mitred joints, approved adhesive, concealed fixing using SS pins/screws, filling, sanding, touch-up, and finished with melamine/PU polish or paint as specified. The work shall include cutting, fitting, alignment, levelling, all accessories, labour, consumables, protection	RMT	1,228.70		₹ -

		and cleaning, complete in accordance with the approved drawings and the Architect's instructions. <b>DESIGN as per 3ds shown/attached.</b>				
	<b>4.7</b>	<b>Manual Roller Blinds</b>				
		Providing, supplying and fixing premium roller window blinds of approved make, comprising 100% polyester fabric with PVC coating or equivalent, available in blackout or sunscreen fabric (3% openness) as specified, complete with heavy-duty aluminium roller tube, powder-coated aluminium bottom rail, side brackets, clutch mechanism, stainless steel bead chain/manual operating system, child safety device, fixing brackets, end caps, fasteners and all necessary accessories. The blinds shall be custom fabricated to suit the window opening and installed complete with alignment, testing, adjustment, protection and cleaning, in accordance with the manufacturer's specifications, approved drawings and the Architect's instructions. Fabric shall be UV resistant, anti-fungal, flame retardant, dust resistant and colour fast, with approved colour and texture.	SQM	10.00		₹ -
		<b>SUBTOTAL FOR PARTITION &amp; PANELING WORKS</b>				₹ -
<b>5</b>		<b>DOORS</b>				
	<b>5.1</b>	<b>Veneer Finished Flush Door with Solid Wood Frame (incl Polish &amp; all Hardware)</b>				

	<p>Providing, fabricating and fixing 40 mm thick solid core BWP grade flush door shutter finished on both sides with approved natural wood veneer of approved species, shade and grain pattern, bonded with approved adhesive and finished with matching hardwood edge lipping, complete with PU/melamine polish as specified. The door shall be installed in a seasoned hardwood solid wood frame of minimum size 100 × 75 mm (or as per approved drawings), treated with anti-termite and preservative coating, including necessary holdfasts and architraves. The shutter shall be complete with Dorset premium hardware comprising SS 304 ball bearing butt hinges (minimum 4 Nos.), mortise lock with cylinder, lever handle set, door closer, magnetic door stopper/floor-mounted door stopper, concealed tower bolt, rubber door silencers, all screws, fixing accessories and other necessary hardware. The work shall include cutting, fitting, alignment, polishing, making good to adjoining finishes, protection, cleaning and completion of the work in accordance with approved drawings, manufacturer's specifications and the Architect's instructions. Glass for the Vision Panel also to be included as shown in 3d/design.</p>				
5.1.1	Viewing Gallery Door (1100 X 2400 MM)	No's	2.00		₹ -
5.1.2	Seminar Hall 01 Door (1100 X 2400 MM)	No's	2.00		₹ -
5.1.3	Lounge 01 Door (1100 X 2400 MM)	No's	2.00		₹ -
5.2	<b>12 mm Toughened Laminated Glass Door</b>				

	<p>Providing, fabricating and fixing frameless 12 mm thick clear toughened laminated glass door (6 mm Toughened + 1.52 mm PVB/SGP Interlayer + 6 mm Toughened) with polished edges, complete with Dorset premium heavy-duty SS 304 satin finish glass door hardware comprising double action floor spring, top pivot, bottom patch fitting, top patch fitting, lock patch, corner patch fittings (where required), floor-mounted door stopper, 'D' type pull handle (600 mm long), Euro profile cylinder with key, patch lock, glass-to-glass/glass-to-wall connectors (where applicable), EPDM gaskets, approved structural silicone sealant, anchor fasteners, all necessary fixing accessories, drilling, edge polishing, cutting, alignment, testing, commissioning, protection and cleaning, complete in all respects as per approved drawings, manufacturer's specifications and the Architect's instructions. <u>Rate to also include Wooden Framing with Veneer as per 3d/design shown.</u></p>				
	Glass door - 1.2 x 2.4	No's	2.00		-
5.3	<b>2-Hour Fire-Rated Steel Door</b>				

	<p>Providing, fabricating, supplying and fixing fully glazed fire-rated single/double leaf steel doors and glazed partitions, manufactured by Shakti Hörmann or approved equivalent, certified to ISO 9001:2015 and tested in accordance with IS 3614 (Part 2), BS 476 (Part 22), ISO 834-1 and NBC 2016 for Stability, Integrity and Insulation. The complete glazed door assembly shall be tested and certified by CBRI/TBW or an equivalent accredited laboratory for a fire rating of up to 120 minutes Integrity (E120) and minimum 20 minutes Insulation (EI20), in both latched and unlatched conditions wherever applicable. Independent glass test certificates shall not be accepted; the complete door assembly shall be tested and certified. All supplied door sizes shall fall within the tested specimen or be supported by a valid assessment report. Each door shall bear the manufacturer's permanent fire-rating identification label.</p>				
	<p><b>Door Frame:</b> Door frames shall comprise single rebate pressed galvanized steel profiles of size 125 × 60 mm fabricated from minimum 1.60 mm thick GI sheet conforming to IS 277, complete with smoke seal groove, field assembly tabs, transoms, mullions, side panels, GI glazing beads, ceramic tape, holdfasts, anchor fasteners, brackets, supports, drilling, tapping and all necessary accessories for complete installation.</p>				

	<p><b>Door Leaf:</b> Door leaf shall be Type SH85 or approved equivalent comprising minimum 60 × 85 mm steel profile fabricated from minimum 1.20 mm thick galvanized steel sheet, complete with internal reinforcement, mineral wool insulation of minimum 100 kg/m<sup>3</sup> density, 15 × 2 mm intumescent seals on all edges, integral astragals for double leaf doors, and 14 mm Contraflam or equivalent CE-certified non-wired fire-resistant laminated glass providing E120 Integrity and EI20 Insulation, with minimum 85% light transmission, minimum 37 dB sound reduction and Class 1(B)1 impact resistance to EN 12600. The glazing shall be fixed with steel glazing beads, ceramic tape and concealed fixing system as per the tested assembly.</p>				
	<p><b>Hardware:</b> Door shall be complete with Shakti Hörmann approved/Dorset equivalent premium hardware comprising heavy-duty ball bearing hinges (100 × 75 × 3 mm), narrow profile mortise dead lock (H6) with 35 mm backset, 80 mm euro profile cylinder, SS escutcheon plates, 350 mm long SS C-type offset pull handle, heavy-duty hydraulic door closer (EN 3–5, HDC35), smoke seals, intumescent seals, floor/door stopper, all fixing screws, anchor fasteners and accessories required for complete installation. The door frame shall be filled with approved fire-rated polyurethane foam (PUF) after installation as recommended by the manufacturer.</p>				
	<p>The rate shall include supply, installation, testing, adjustments, complete hardware, sealants, consumables, protection, cleaning and handing over of the complete fire-rated glazed door assembly in accordance with the approved drawings, manufacturer's recommendations and the Architect's instructions.</p>				

	5.3.1	Lab to UPS Room, UPS Room to Corridor (1200 x 2400)	No's	2.00		₹ -
		<b>SUB TOTAL FOR DOORS WORKS</b>				₹ -
<b>6</b>		<b>FLOORING WORKS</b>				
	<b>6.1</b>	<b>Engineered Wooden Flooring</b>				
		Providing and laying approved premium engineered wooden flooring (Birla Wooden Flooring or equivalent approved) of 14–15 mm overall thickness with factory-finished UV lacquered or natural oil finish, comprising a hardwood wear layer over a multi-layer engineered core, installed over the prepared plywood base or approved underlay using the manufacturer's recommended click-lock/tongue-and-groove system with approved adhesive wherever required. The work shall include supply and fixing of matching solid wood/MDF veneered skirting of 75–100 mm height, matching beading, T-profiles, reducer strips, end profiles, stair nosing (where applicable), expansion joints, transition trims, aluminium/stainless steel edge profiles, moisture barrier, acoustic underlay, adhesives, sealants, fasteners and all necessary accessories. The flooring shall be cut and fitted around walls, columns and MEP services, complete with alignment, levelling, finishing, protection of completed flooring, cleaning, labour, tools, transportation, wastage and handing over complete in accordance with the manufacturer's specifications, approved drawings and the Architect's instructions. <b>Basic Rate: ₹5500/Sqm (Cost to include complete installation, skirting, profiles as required etc)</b>	SQM	90.48		₹ -
	<b>6.2</b>	<b>ESD (Electrostatic Discharge) Flooring</b>				

	<p>Providing, supplying and installing 2.0 mm thick homogeneous Electrostatic Dissipative (ESD) vinyl flooring of approved make and colour over a prepared, smooth and self-levelled cementitious subfloor, including surface preparation, self-levelling compound wherever required, conductive adhesive, copper strip earthing grid, hot-welded joints, matching skirting, aluminium/stainless steel edge trims, connection to the building earthing system, testing of electrical resistance, cleaning and complete installation. The ESD flooring shall comply with IEC 61340 / ANSI ESD S20.20 standards and shall have a surface resistance in the range of 10<sup>6</sup>-10<sup>9</sup> Ohms or as recommended by the manufacturer, suitable for AI Lab, UPS Room, Server Room and other static-sensitive areas. The work shall include all materials, labour, tools, consumables, testing, commissioning and handing over complete in accordance with the manufacturer's specifications, approved drawings and the Architect's instructions. <b>(Possible use - MAIN LAB)</b></p>	SQM	R.O		
6.3	<b>Marble Flooring &amp; Skirting Grinding, Honing and Mirror Polishing</b>				

Providing labour, materials, machinery and consumables for restoration, grinding, honing, crystallization and mirror polishing of existing marble flooring and marble skirting using heavy-duty planetary grinding machines (minimum 3-head planetary type) and hand-held edge polishing machines. The work shall comprise inspection of the existing marble surface, protection of adjoining finished surfaces, removal of existing wax, sealers, stains and surface contaminants, followed by coarse grinding to remove lippage, scratches and undulations using metal-bond diamond abrasives (30#, 60# and 120# grit), intermediate honing using resin-bond diamond abrasives (200#, 400# and 800# grit), fine polishing using resin diamond abrasives (1500# and 3000# grit), filling of joints, pinholes, chips and hairline cracks with colour-matched marble epoxy/resin filler after initial grinding, edge grinding and polishing of skirting using hand-held diamond polishing equipment, application of premium crystallization chemical (K2/K3 or equivalent fluorosilicate-based crystallizer such as Klindex, Bellinzoni, Surie Porex or approved equivalent), followed by mirror buffing using steel wool pads and high-speed burnishing machine to achieve a uniform high-gloss mirror finish with a minimum gloss level of 85–90 GU (Gloss Units) measured at 60° angle. The contractor shall carry out a minimum of 8 grinding and polishing stages (30#, 60#, 120#, 200#, 400#, 800#, 1500# and 3000# grit), followed by two coats of crystallization treatment and final mirror buffing. All slurry shall be continuously vacuum extracted, and the work area shall be cleaned after each stage.

		The rate shall include all machinery, diamond abrasives, crystallization chemicals, epoxy fillers, polishing compounds, labour, scaffolding (where required), protection of adjacent finishes, disposal of slurry and debris, testing, final cleaning and handing over complete in accordance with approved specifications and the Architect's instructions. The contractor shall maintain a minimum curing and stabilization period of 24 hours after completion of crystallization before the floor is opened for normal traffic. The finished marble surface shall be free from scratches, swirl marks, stains, visible joints, lippage and dull patches, and shall exhibit a uniform mirror finish throughout.	SQM	152.10		₹ -
	<b>6.4</b>	<b>Tile Flooring</b>				
		Providing labour, materials and machinery for laying approved BRAND Nexion vitrified/porcelain tiles or EQUIVALENT to match 3d Shown (tiles supplied separately by the Client) of approved size, colour and finish over a prepared cementitious substrate using polymer-modified tile adhesive conforming to IS 15477 (Type C2TE or equivalent), including surface preparation, levelling, cutting, edge finishing, laying to true line, level and pattern, maintaining uniform joints of 2-3 mm, filling joints with approved polymer-based grout of matching shade, cleaning, protection, curing where required, and handing over complete. The rate shall include tile adhesive, grout, spacers, movement joints, edge trims wherever required, wastage during cutting, labour, tools, consumables and all incidental works in accordance with the manufacturer's specifications, approved drawings and the Architect's instructions. Tiles shall be supplied free of cost by the Client. <u>Tiles to be laid over Existing Tiles &amp; Cost</u>	SQM	50.00		₹ -

		<u>to consider this for the correct use of adhesive. Basic Rate of Tile : Rs.1500/- per sqft.</u> Areas considere: Viewing Gallery & AI Lab				
	<b>6.5</b>	<b>Epoxy Flooring</b>				
		Providing and applying seamless self-levelling epoxy flooring system of approved make comprising thorough surface preparation by mechanical grinding, crack and surface defect repairs using epoxy mortar, application of epoxy primer, epoxy screed wherever required, followed by self-levelling solvent-free epoxy topping of minimum 2.0 mm finished thickness in approved colour, complete with protective polyurethane top coat where specified. The flooring system shall provide a seamless, dust-free, abrasion-resistant, chemical-resistant and easy-to-clean finish suitable for laboratories, AI Labs, UPS Rooms and technical spaces. The work shall include all materials, labour, machinery, masking, protection, curing, testing, cleaning and handing over complete in accordance with the manufacturer's specifications, approved drawings and the Architect's instructions. <b>LOCATION - MAIN LAB</b>	SQM	-		₹ -
		<b>SUB TOTAL FOR FLOORING WORKS</b>				₹ -
<b>7</b>		<b>ADDITIONAL WORKS</b>				
	<b>7.1.0</b>	<b>Loose Furnitures</b> - All rates to be quoted as per 3d's attached. (Leather / High Quality P.U to be considered across all upholstered furnitures)				
	7.1.1	4 Seater Sofa	No.	2		-
	7.1.2	3 Seater Sofa	No.	2		-
	7.1.3	Single seater Sofa	No.	4		₹ -
	7.1.4	Center Table	No.	4		₹ -
	7.1.5	Side table	No.	6		₹ -

	7.1.6	High chair	No.	6		₹ -
	7.1.7	High Table - 2700 x 600 x 1100 (Ht) mm finished with Laminate	No.	2		₹ -
	7.1.8	Work station tables - 1200 x 600 x 750 (Ht) mm	No.	4		₹ -
	7.1.9	Executive Chairs	No.	4		₹ -
	7.1.10	Seminar Hall Chairs with inbuilt table top	No.	20		₹ -
	7.1.11	Carpet / Rugs	LS	2		₹ -
	7.1.12	Floor Lamps	No.	5		₹ -
	7.1.13	Touch Screen - 85 inch TV	No.	1		
	7.1.14	85 inch Smart TV	No.	1		
	7.1.15	Signage as per 3d	LS	1		₹ -
	7.1.16	Curios	LS	1		₹ -
		<b>SUBTOTAL FOR ADDITIONAL WORKS</b>				₹ -
8		<b>MISCELLANEOUS &amp; CONTINGENCY - 10% of Total</b>				₹ -
		<b>GRAND TOTAL EXCL GST</b>				₹ -
		<b>GST @ 18%</b>				₹ -
		<b>GRAND TOTAL INCL GST</b>				₹ -

## CENTRE OF EXCELLENCE AT B.I.T. MESRA, RANCHI

### MEP WORKS BOQ

MAJOR PKG NO	MINOR PKG NO	PARTICULARS	UNIT S	QTY	RAT E	AMOUNT
1		<b>ELECTRICAL WORKS (General)</b>				
	1.1	<b>Electrical Conduiting, Wiring, Switches &amp; DB Works</b>				
		Providing, supplying, laying, testing and commissioning complete electrical installation comprising FRLS PVC/GI conduits, junction boxes, FRLS copper wiring, modular switches, sockets, switch plates, GI/PVC back boxes, MCB distribution boards with MCBs/RCCBs/RCBOs, earthing connections, cable dressing, ferruling, labelling, chasing, making good, testing and commissioning complete as required for AI Lab, UPS Room, Viewing Gallery, Seminar Hall, Main Lobby and Lounge.	SQM	320		₹ -
	1.2	<b>Lighting Fixtures</b>				
		Providing, supplying, installing, testing and commissioning complete LED lighting system including LED panel lights, recessed/surface downlights, decorative lights, strip/cove lights where required, drivers, mounting accessories, suspension/fixing hardware, connectors, wiring from nearest junction box, testing and handing over complete. Final fixture type, colour temperature and finish shall be as per Architect's approval.	LS	1		₹ -
	1.3	<b>Emergency Lighting &amp; Exit Signage</b>				
		Supply, installation, testing and commissioning of emergency lights, exit signages, rechargeable battery backup units, wiring and accessories complete.	LS	1		₹ -

	<b>1.4</b>	<b>Data / Communication Cabling</b>				
		Supply, installation, testing and commissioning of CAT6 data cabling, I/O faceplates, RJ45 keystones, patch cords, patch panel, QSFP/GBIC Module, OFC Cable, OFC Patch Cord, LIU , cable manager, rack termination, labelling and Fluke testing/certification complete for AI Lab, Seminar Hall, Lobby and support areas.	LS	1		₹ -
	<b>1.5</b>	<b>UPS / Raw Power Points</b>				
		Providing, supplying, laying, installing, testing and commissioning dedicated UPS and Raw Power electrical points for AI workstations, display systems, server/network equipment, presentation systems and associated laboratory equipment, comprising FRLS copper wiring of approved sizes in heavy-duty PVC/GI conduits, modular sockets, switches, industrial sockets where required, back boxes, junction boxes, MCB protection, earthing, circuit identification, labels, cable terminations, testing and commissioning complete. The work shall include segregation of UPS and Raw Power circuits, all conduits, fittings, accessories, making good of disturbed surfaces, documentation and handing over complete in accordance with approved drawings, relevant IS Standards, local electrical authority regulations and the Architect's instructions.  <b>Preferred Makes:</b> Switches & Sockets: Legrand / Schneider Electric / Crabtree / Anchor Wires & Cables: Polycab / RR Kabel / Finolex MCBs / RCCBs / DBs: Schneider Electric / Legrand / Siemens / L&T	LS	1		₹ -
		<b>SUBTOTAL FOR ELECTRICAL WORKS</b>				₹ -

2	2.1	<b>CCTV Set</b>				
		<p>Providing, supplying, installing, testing and commissioning a complete IP-based CCTV Surveillance System comprising Hikvision (or approved equivalent) 4 MP IP cameras, Network Video Recorder (NVR), surveillance hard disks, PoE switches, CAT6 cabling, wall-mounted equipment rack, surveillance monitor, power accessories, conduits, junction boxes, mounting brackets, connectors, testing, commissioning and all associated accessories required for a complete operational surveillance system.</p> <p>The system shall provide continuous monitoring and recording of all critical areas including the AI Lab, UPS Room, Viewing Gallery, Seminar Hall, Main Lobby, Lounge, Entrance/Exit and Staircase Access.</p> <p>The contractor shall provide all hardware, software, licences (if applicable), accessories, configuration, commissioning, training, documentation and warranty complete in all respects.</p>				

	<b>Minimum Equipment deemed included</b> 13 Nos. 4 MP IP Cameras 1 No. 16 Channel Network Video Recorder 1 No. 8 TB Surveillance HDD 1 No. 24 Port Managed Gigabit PoE Switch 1 No. 32" Professional LED Monitor 1 No. 9U Lockable Equipment Rack with PDU 1 No. 1 kVA Online UPS CAT6 Cabling Patch Cords RJ45 Connectors PVC/GI Conduits Junction Boxes Camera Mounting Accessories Labels Programming Testing Commissioning User Training As-built Documentation				
	<b>Providing, supplying, installing, testing and commissioning complete IP CCTV Surveillance System comprising MATRIX (or approved equivalent) 4 MP IP Cameras, NVR, PoE Switch, Surveillance HDD, CAT6 Cabling, Equipment Rack, Monitor, Conduits, Junction Boxes, Mounting Accessories, Configuration, Testing &amp; Commissioning complete as specified.</b>				
	Main Entrance - 4MP Bullet	Nos	1		₹ -
	Main Lobby - 4MP Dome	Nos	2		₹ -

		AI Lab - 4MP Dome	Nos	4		₹ -
		Viewing Gallery - 4MP Dome	Nos	2		₹ -
		Seminar Hall - 4MP Dome	Nos	2		₹ -
		Lounge - 4MP Dome	Nos	2		₹ -
		NVR16 Channel H.265+4 SATA Dual LAN preferred	Nos	1		₹ -
		<b>STORAGE</b> - 8TB Surveillance HDD	Nos	1		₹ -
		<b>Switch</b> - One 24 Port Managed PoE Switch	Nos	1		₹ -
		<b>Rack</b> 9U Wall Mount Rack	Nos	1		₹ -
		<b>Monitor</b> - 32" Professional LED Surveillance Monitor complete with HDMI cable.	Nos	1		₹ -
		<b>Cabling &amp; Accessories</b>	Nos	1		₹ -
		<b>Installation and Testing</b>	Nos	1		₹ -
		<b>Contingency / Future Addition</b>	Nos	1		₹ -
		<b>SUBTOTAL FOR CCTV WORKS</b>				₹ -
<b>3</b>		<b>HVAC WORKS</b>				
	<b>3.1</b>	<b>Mitsubishi Electric: Cassette Air Conditioning System</b>				

	<p><b>The work under this section shall comprise the Supply, Installation, Testing and Commissioning (SITC) of Mitsubishi Electric Inverter Split Type Cassette Air Conditioning Systems, complete in all respects, for providing air conditioning to the areas indicated in the drawings and schedules.</b></p>				
	<p>The scope shall include supply and installation of indoor cassette units, outdoor condensing units, decorative panels, wired/wireless controllers, refrigerant copper piping with nitrile rubber insulation, condensate drain piping, interconnecting power and control cabling, weatherproof isolators, outdoor mounting structures, vibration isolation pads, earthing, supports, sleeves, core cutting, fire stopping, pressure testing, vacuuming, refrigerant charging (where required), testing, commissioning and handing over of the complete installation.</p> <p>The contractor shall furnish all labour, materials, tools, equipment, consumables and accessories whether specifically mentioned herein or otherwise required for the satisfactory completion of the installation in accordance with the manufacturer's recommendations, relevant Indian Standards, CPWD General Specifications for HVAC Works, NBC, and the latest applicable codes of practice.</p>				

	<p>The quoted rates shall be deemed to include all accessories and incidental works necessary for proper functioning of the air-conditioning system including transportation, unloading, lifting, storage, installation, alignment, testing, balancing where applicable, commissioning, submission of as-built drawings, O&amp;M manuals, training of owner's personnel and warranty obligations. Unless otherwise specified, all air-conditioning equipment shall be Mitsubishi Electric (or approved equivalent, if the tender permits), inverter-duty, factory assembled, factory tested and suitable for operation under Indian tropical climatic conditions.</p>				
	<p>Units shall be Inverter Duty, 5-Star (or latest available BEE rating where applicable). Refrigerant shall be R-32 or the manufacturer's recommended low-GWP refrigerant, unless otherwise specified.</p> <p>Copper tubing shall be Type L hard-drawn complete with Class-O nitrile rubber insulation. All brazing shall be carried out under nitrogen purge. The contractor shall perform nitrogen pressure testing, triple evacuation and commissioning in accordance with the manufacturer's recommendations. Outdoor supports shall be hot-dip galvanized or epoxy-coated MS, suitable for the installation environment. The quoted rates shall include all consumables, lifting, transportation, testing, commissioning, statutory clearances (if any), and warranty obligations. Three-year comprehensive warranty and five-year compressor warranty, or as required by the project specifications.</p>				

		Supply, Installation, Testing & Commissioning (SITC) of Ceiling Cassette Split Air Conditioner complete with indoor unit, outdoor condensing unit, decorative panel, wired controller, factory charged refrigerant, all standard accessories and warranty.				
	3.1.1	4TR (Main Lobby)	Nos	2		₹ -
	3.1.2	2TR (Seminar Room 2nos, Lounge 2nos, Gallery 2nos, LAB 2nos)	Nos	8		₹ -
	3.1.3	1TR (Hi-Wall Type) (UPS 2 nos)	Nos	2.00		₹ -
	3.1.4	Copper Refrigerant Piping comprising liquid and suction lines complete with Class-O nitrile rubber insulation, fittings, brazing under nitrogen, supports, clamps and accessories.	RM	220		₹ -
	3.1.5	uPVC Condensate Drain Piping complete with fittings, supports, insulation where required and connection to nearest drain.	RM	120		₹ -
	3.1.6	Outdoor Unit Mounting Structure fabricated from heavy-duty MS sections, hot-dip galvanized / epoxy painted including anchor fasteners and installation.	Set	10		₹ -
	3.1.7	Power Cable with HD PVC Conduit / Trunking from nearest electrical source to outdoor unit including terminations.	RM	250		₹ -
	3.1.8	Interconnecting Control & Power Cable between Indoor and Outdoor Units complete with conduit/trunking and terminations.	RM	250		₹ -
	3.1.9	Additional Refrigerant Charging (where piping length exceeds factory charge), Nitrogen Pressure Testing, Triple Vacuuming and System Commissioning.	LS	1		₹ -
	3.1.10	Weatherproof Rotary Isolator Switch near each outdoor unit complete with enclosure and mounting.	Nos	10		₹ -

	3.1.11	Rubber Anti-Vibration Pads for Outdoor Units.	Set	10		₹ -
	3.1.12	Core Cutting through RCC/Brick Walls/Slabs including making good after installation.	Nos	20		₹ -
	3.1.13	UL-approved Fire Stopping around pipe and cable penetrations through fire-rated walls/floors complete.	LS	1		₹ -
	3.1.14	Earthing for Outdoor Units complete with GI earth wire, earth electrode connection and accessories.	Nos	10		₹ -
	3.1.15	Testing, Commissioning, Performance Demonstration, Submission of O&M Manuals, As-built Drawings and Training of Client Personnel.	LS	1		₹ -
	3	<b>SUBTOTAL FOR HVAC WORKS</b>				₹ -
4	4.1	<b>FIRE SAFETY WORKS</b>				

	<p>Providing, supplying, installing, testing and commissioning a complete Fire Detection, Alarm and Portable Fire Fighting System comprising Notifier by Honeywell / Agni / Ravel (Fire Alarm) and Ceasefire / Safex / Kanex (Portable Fire Extinguishers) including conventional fire alarm control panel, smoke detectors, heat detectors, manual call points, hooters with flasher, response indicators, monitor modules (where required), detector bases, junction boxes, FRLS fire alarm cables, GI/PVC conduits, cable trays, mounting accessories, identification labels, batteries, power supply units, testing, commissioning, training, documentation and all associated accessories. The system shall provide early fire detection and alarm coverage for the AI Lab, Viewing Gallery, Seminar Hall, Main Lobby, Lounge and UPS Room. The contractor shall also provide portable fire extinguishers suitable for Class A, B, C and electrical fires, complete with wall brackets, safety signage and installation. The installation shall comply with the latest editions of NBC 2016, IS 2189, relevant BIS Standards, local Fire Department regulations and the manufacturer's recommendations.</p>				
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	<p>The following minimum equipment shall be deemed included in the quoted rates:</p> <p>Conventional Fire Alarm Control Panel (Minimum 8 Zone)</p> <p>Optical Smoke Detectors</p> <p>Rate-of-Rise Heat Detectors</p> <p>Manual Call Points (Break Glass)</p> <p>Electronic Hooter cum Flasher</p> <p>Detector Bases</p> <p>Remote LED Indicators</p> <p>Sealed Maintenance-Free Batteries</p> <p>Fire Alarm Cables (2C × 1.5 sq.mm FRLS)</p> <p>GI/PVC Conduits, Junction Boxes and Supports</p> <p>ABC Dry Powder Fire Extinguishers (6 kg)</p> <p>CO<sub>2</sub> Fire Extinguishers (4.5 kg)</p> <p>Clean Agent Fire Extinguisher for AI Equipment</p> <p>Fire Safety Signages</p> <p>Testing &amp; Commissioning</p> <p>O&amp;M Manuals and Training</p>				
	<p><b>Specific for AI LAB :</b> Supply, installation, testing and commissioning of Clean Agent Fire Extinguisher, 4–6 kg capacity, suitable for electrical/electronic equipment and server/lab areas, filled with FK-5-1-12 / FE-36 clean agent, complete with wall mounting bracket, discharge hose/nozzle, pressure gauge, safety pin, identification label, operating instructions and commissioning certificate. Location: AI Lab. Preferred make: Ceasefire / Kanex / Safex / NewAge.</p>				
	<p>The contractor shall verify detector coverage and submit detector layout, cable routing drawings and equipment schedule for approval before execution.</p>				

		Providing, Supplying, Installing, Testing & Commissioning of complete Fire Detection, Alarm & Portable Fire Fighting System complete as specified above.	LS	1.00		₹ -
	4	<b>SUBTOTAL FOR FIRE SAFETY WORKS</b>				₹ -
5	5.1	<b>PUBLIC ADDRESS, BACKGROUND MUSIC &amp; PRESENTATION AUDIO SYSTEM</b>				
	5.1	<p>Providing, supplying, installing, testing and commissioning a complete integrated Public Address (PA), Presentation Audio and Background Music (BGM) System comprising Bosch Professional Commercial Audio equipment including mixer amplifier, digital signal processor (DSP), ceiling speakers, wall-mounted speakers, wireless handheld microphone system, wireless lapel microphone, podium gooseneck microphone, audio interface panels, equipment rack, power distribution unit (PDU), speaker cabling, CAT6 cabling, HDMI/audio interconnections, conduits, raceways, mounting brackets, connectors, termination accessories, programming, acoustic tuning, testing, commissioning and integration with projector/display systems.</p> <p>The system shall provide high-quality speech reinforcement, presentation audio, background music and paging facilities for the AI Lab, Viewing Gallery, Seminar Hall, Main Lobby and Lounge. The installation shall include all necessary hardware, software, accessories, supports, wiring, labels, documentation, training, warranties and complete installation as required for a fully operational system in accordance with the approved drawings, manufacturer's</p>				

		recommendations and the Architect/Consultant's instructions.				
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	<p>The following minimum equipment shall be deemed included in the quoted rates:</p> <p>Bosch Commercial Mixer Amplifier (240W minimum)  Bosch Digital Signal Processor (DSP)  Bosch Ceiling Speakers – 24 Nos.  Bosch Wall Mount Speakers – 2 Nos.  Bosch Dual Wireless Handheld Microphone System – 1 Set  Bosch Wireless Lapel Microphone – 1 Set  Bosch Gooseneck Podium Microphone – 1 No.  19" Equipment Rack complete with PDU and accessories – 1 Set  Audio Interface Plate (HDMI + Audio Input) – 1 No.  Speaker Cable (FRLS Copper 2C × 1.5 sq.mm)  CAT6 Cable for AV Integration  HDMI and Audio Interconnections  PVC/GI Conduits, Trunking and Junction Boxes  Speaker Mounting Accessories and Connectors  Programming, Acoustic Tuning, Testing &amp; Commissioning  As-built Drawings, O&amp;M Manuals and Training</p>				
	The contractor shall verify speaker coverage and submit speaker layout, equipment rack layout and cable routing drawings for approval prior to execution.				
	<b>Providing, Supplying, Installing, Testing &amp; Commissioning of complete Bosch Professional Public Address (PA), Background Music (BGM) and Presentation Audio System complete as specified above.</b>	LS	1		₹ -
5	<b>SUBTOTAL FOR PA SYSTEM</b>				₹ -
6	<b>MISCELLANEOUS &amp; CONTINGENCY 10%</b>				
	<b>GRAND TOTAL EXCL GST</b>				₹ -

		GST @ 18%				₹	-
		GRAND TOTAL INCL GST				₹	-

# SECTION-7

## STANDARD FORMATS

Contractor Sign & Seal

BIRLA INSTITUTE OF TECHNOLOGY  
MESRA, RANCHI

Letter No. \_\_\_\_\_

Date: \_\_\_\_\_

To,

M/s

Add:

Ph:

Email:

Kind Attn.:

Subject : Letter of Acceptance Cum Notice to Proceed with

..... OF BIT  
MESRA.

References :

1. Your Techno commercial Bid submission dated \_\_\_\_\_ bearing reference to BIT MESRA Tender No. \_\_\_\_\_ dated \_\_\_\_\_.
- 2.

Dear Sir,

With reference to your offer, for the above mentioned subject and referred set of correspondences, we are glad to issue this letter of acceptance and notice for commencement of works for the price to be undertaken, as per following clauses:

1. Contract Documents : Unless and until a formed contract ( as agreed by BIT MESRA, Ranchi, and the contractor) is prepared and executed , the following documents will constitute a binding contractor between the parties:
  - I) Invitation of Bids;
  - II) Instructions to the Bidders;
  - III) General condition of the contract including any Amendment /addenda / Corrigenda there to ;
  - IV) The Bid submitted by the bidder including all its attachments and the bill of quantities;
  - V) Technical specifications and Drawings, including any Amendment / Errata thereto:
  - VI) Agreed Quality Assurance and safety plan;
  - VII) Letter of Acceptance (LOA) along with its Annexure.
2. Scope of Work: The scope of work shall be ..... OF BIT MESRA, which shall include all labor, material, tools, equipment and transport which may be required in transportation, entire execution and completion of the Project.

Contractor Sign & Seal

3. Contract Price: The estimate cost of the works for the project is INR Rs. \_\_\_\_\_ /-(Rupees \_\_\_\_\_) including all the taxes.
4. Time Schedule: The date for the commencement of work shall be \_\_\_\_\_ and the works were to be completed within \_\_\_\_\_ from the date of commencement.
5. Terms of Payment: Only one bill shall be prepared every \_\_\_\_\_ month which shall be based on the joint measurement by the contractor or his representative and the representative of BIT MESRA, Ranchi.
6. Contract Performance Guarantee: The contract performances security / guarantee shall be 5% of the contract value and due contracts, after approval of draft guarantee bond by the owner / client shall arrange to submit the bank guarantee within 15 days of acceptance of LOA.
7. Remedying Defects: The contractor shall make good all damages to the works or any thereof, if the damages are attributable to the contracts. This will be applicable from the date of commencement to the end of Defect Liability period. The defect rectification will be at the cost of the contractor.
8. Work Progress: Upon acceptance of this LOA, the In-charge CMC / Engineer I/c/clients shall together with contractor, agree upon a work schedule for the execution of the project and the progress of the contract will be based on the terms of agreed schedule.

All the terms and conditions shall be as per bidding document and subsequent amendments/ clarifications issued by the client.

If any of the provisions contained in this LOA are in conflict with the provisions of Bidding documents, then the provisions of this LOA will supersede and prevail. Similarly on signing of the contract, the provisions of the contract shall supersede and prevail the provisions of this LOA.

Please return two originals (duly signed and stamped) by an authorized signatory as a token of acknowledgment and acceptance of this LOA.

For M/s \_\_\_\_\_.

For Birla Institute of Technology, Mesra, Ranchi.

NAME :

DESIGNATION:

(Authorised Signatory)

Contractor Sign & Seal

## PERFORMANCE BANK GUARANTEE

Guarantee No:  
Amount of Guarantee :  
Guarantee cover from :  
Last date for Lodgement of Claim :

To,  
The Registrar  
Birla Institute of Technology  
Mesra, Ranchi

This Bank Guarantee ( herein after the “ Guarantee “ is made at \_\_\_\_\_ on the  
\_\_\_\_\_

### WHEREAS

1.M/S. \_\_\_\_\_ , a company incorporated under the Companies Act,1956  
having its registered Office at \_\_\_\_\_  
(hereinafter referred to as the “ Contractor “, which expression shall, unless repugnant to the context or  
meaning thereof, include its successors and permitted assigns has entered into a contractor Service  
Agreement dated \_\_\_\_\_ ( herein after such agreement, as amended and supplemented,  
referred to as the “ Agreement “ with Birla Institute of Technology, Mesra, Ranchi(hereinafter referred to as “  
BIT “, which expression shall, unless repugnant to the context or meaning thereof, include its successors and  
assigns for undertaking the project management in coordination with BIT, work order No.

Rs. \_\_\_\_\_

2. As per the terms and conditions of the Agreement, the contractor is obliged to furnish to BIT, Mesra an  
irrevocable, unconditional and automatic revolving Bank Guarantee from a Scheduled Commercial Bank in  
India, of a value and validity as set for thereunder.

3. Bank Name & Address branch having registered Office at \_\_\_\_\_  
And a branch office at \_\_\_\_\_ (hereinafter  
referred to as the “ Bank” which expression shall unless repugnant to the context or meaning thereof be  
deemed to mean and include its successors ) , being a scheduled commercial Bank in India, has at the request  
of the Contractor, agreed to issue this Bank Guarantee, in accordance with the terms and conditions set forth  
herewith, in favour of BIT.

NOW THEREFORE, the Bank hereby undertakes the pecuniary responsibility of the Contractor to BIT, MESRA  
for the due performance of the Agreement and hereby issues in favour of BIT, MESRA this irrevocable and  
unconditional bank guarantee (hereinafter referred to as the ‘ Guarantee “ ) on behalf of the Contractor.

A. The Bank for the purpose hereof unconditionally and irrevocably undertakes to pay to BIT MESRA  
without any demur, reservation, caveat, protest or recourse immediately on receipt of a first written demand  
from BIT, a sum or sums ( by way of one or more claims ) without BIT MESRA needing to prove or to show to  
the Bank grounds or reasons for such demand for the sum specified therein and notwithstanding any dispute  
or difference between BIT MESRA and the Contractor in respect of the performance of the Agreement or  
money payable by the Contractor to BIT MESRA or any matter what so.

B. The Bank acknowledges that this Guarantee may be invoked more than once and each one of such  
demands by BIT MESRA of the amount payable by the Bank to BIT MESRA shall be final, binding and conclusive

evidence in respect of the amounts payable by the contractor to BIT MESRA.

C. The Bank hereby waives the necessity for BIT MESRA from demanding the aforesaid amount or any part thereof from the Contractor and also waives any right that the Bank may have of first requiring BIT MESRA to pursue its legal remedies against the Contractor, before presenting any written demand to the Bank for payment under this GUARANTEE.

D. The Bank unconditionally agrees with BIT MESRA that BIT MESRA shall be at liberty, without the Bank's consent and without affecting in any manner the Bank's obligation under this Guarantee, from time to time to.

(i) vary and/or modify any of the terms and conditions of the Agreement,

(ii) extend and/or postpone the time for performance of the obligations of the Contractor under the Agreement, or

(iii) Forbear or enforce any of the rights exercisable by BIT MESRA against the Contractor under the terms and conditions of the Agreement.

And the Bank shall not be relieved from its liability by reason of any such act or omission on the part of BIT MESRA or any indulgence by BIT MESRA to the Contractor or other thing whatsoever which under the law relating to sureties would, but for this provision, have the effect of relieving the Bank of its obligations under this Guarantee.

E. The Bank's obligations under this Guarantee shall not be reduced by reason of any partial performance of the Agreement. The Bank's obligations shall not be reduced by the failure by BIT MESRA to timely pay or perform any of its obligations under the Agreement.

F. Any payment made hereunder shall be made free and clear of and without deduction for, or on account of, any present or future charges, fees, commissions, deductions whatsoever and by whomever imposed.

G. This Guarantee shall be a continuing Bank Guarantee and shall not be discharged by the change in constitution of any member of the contractor and the Guarantee shall not be affected or discharged by the liquidation, winding up, bankruptcy, reorganization, dissolution or insolvency of the contractor or any Affiliate of the Contractor whatsoever.

H. This Guarantee shall have a minimum validity of at least \_\_\_\_\_ months and shall be rolled and renewed at least three (3) months prior to its expiry so as to keep it valid until one year following the expiry or early termination of the Agreement, whichever is earlier. Provided however that in the event the Bank does not renew the Guarantee three (3) months prior to its expiry in the manner provided above, BIT MESRA shall, irrespective of due performance of other terms of the Agreement by the Contractor, have the right to encash the entire amount of the Guarantee in one or more demands. This Guarantee shall remain valid and subsisting until released by BIT MESRA in writing.

I. This Guarantee shall be in addition to and not a substitution or in derogation of any other security held by BIT MESRA to secure the performance of the obligations of the CONTRACTOR under the Agreement.

J. The Bank agrees that BIT MESRA at its option shall be entitled to enforce this Guarantee against the Bank, as a principal debtor in the first instance without proceeding at the first instance against the Contractor or any other security/guarantee that BIT MESRA may have.

K. The quantum of the Guarantee shall be Rs. \_\_\_\_\_ only which is \_\_\_\_\_ % of total value of the Agreement of Rs. \_\_\_\_\_ during the \_\_\_\_\_ after the Effective Date of the Agreement (such amount being the "full amount" of the Guarantee).

In the event any portion of the Guarantee is encashed pursuant hereto, then immediately following such encashment, the Bank shall replenish the Guarantee to its full amount. In the event the Guarantee is not replenished to its Full Amount within three (3) months of its encashment in any part, BIT MESRA shall have the right to encash the entire Guarantee.

L. This Guarantee is subject to the laws of India. Any suit, action, or other proceedings arising out of this Guarantee or the subject matter hereof shall be subject to the exclusive jurisdiction of the courts of Ranchi.

M. Capitalized terms not otherwise defined shall have their respective meanings given to such terms as set forth in the Agreement.

N. The Bank has power and authority to validly to execute and issue this Guarantee and the undersigned is duly authorized to execute and deliver this Guarantee pursuant to the power granted under \_\_\_\_\_ and its obligations under this Guarantee will be legally and binding and enforceable against the Bank.

O. E- NOTICES

Any demand certificates, e-Notice or any other communication under this Guarantee shall be ( i ) in writing and ( ii ) faxed or sent by person, or overnight courier at the following address es :

Mail ID - \_\_\_\_\_ of bank required \_\_\_\_\_

If sent by fax, when sent ( with the correct answer back ) , ( ii ) if sent by person when delivered, (iii) if sent by courier one (I) Business Day after deposit with an overnight courier, and ( iv ) if sent by registered letter when the registered letter would, in the ordinary course of post, be delivered whether actually delivered or not.

All such Demand Certificates, e-Notices and communications shall be effective ( i ) if sent by fax, when sent ( with the correct answerback ) ,(ii) if sent by person, when delivered, ( iii ) if sent by courier one ( I ) Business Day after deposit with an overnight courier, and (iv) if sent by registered letter when the registered letter would, in the ordinary course of post, be delivered whether actually delivered or not.

Notwithstanding anything contained herein above.

1. Our Liability under this Bank Guarantee shall not exceed Rs. \_\_\_\_\_

2. This Bank Guarantee shall be valid up to \_\_\_\_\_

3. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only and if you serve upon us a written claim or demand on or before \_\_\_\_\_

Date :

Signature of the Authorised Officer of the Bank

Witness :

Signature:

Name:

Address:

Name

Designation

Seal

Contractor Sign & Seal

Note: Kindly use our ICICI Bank's IFSC Code ICIC0000175 while preparing the Bank Guarantee, then only it will be accepted.

## AGREEMENT FORM

This agreement made this ..... day of ..... between the **BIRLA INSTITUTE OF TECHNOLOGY MESRA, RANCHI**, established in 1955, a premier technical institute and deemed University, having its Registered Office at Mesra, Ranchi – 835215 (hereinafter referred to as the “BIT MESRA” which expression shall include its administrators, successors, executors and assigns) of the one part and **M/s** ..... having its registered office at ..... (hereinafter referred to as the ‘**Contractor**’ which expression shall unless the context requires otherwise include its administrators, successors, executors and permitted assigns) of the other part.

Whereas, BIT MESRA, desirous of construction of “.....” (hereinafter referred to as the “PROJECT”), had invited tenders as per the Tender documents vide NIT No. **25-26/G/PE/000..... Dt:** .....

And Whereas **M/s** ..... had participated in the above referred tender vide their tender dated ..... and BIT MESRA has accepted their aforesaid tender and awarded the contract for “.....” on the terms and conditions contained in its Letter of Acceptance No. **PCHSE/GEN/....., dated** ..... and the documents referred to therein, which have been unequivocally accepted by **M/s** ..... vide their acceptance letter dated ....., resulting into a contract.

NOW THEREFORE THIS DEED WITNESSETH AS UNDER:

### ARTICLE 1.0 – AWARD OF CONTRACT

#### 1.1 SCOPE OF WORK

BIT MESRA has awarded the contract to **M/s** ..... for the work of “.....” on the terms and conditions in its letter of Acceptance No. **PCHSE/GEN/.....** dated ..... and the documents referred to therein. The award has taken effect from ..... i.e., the date of issue of aforesaid letter of Acceptance. The terms and expressions used in this agreement shall have the same meanings as are assigned to them in the “Contract Documents” referred to in the succeeding Article.

### ARTICLE 2.0 – CONTRACT DOCUMENTS

2.1 The contracts shall be performed strictly as per the terms and conditions stipulated herein and in the following documents attached herewith (herein after referred to as “Contract Documents”).

- a) BIT MESRA Notice Inviting Tender vide No. **25-26/G/PE/000.....** dated ..... and BIT MESRA’s tender documents consisting of:
  - VIII) Invitation of Bids;
  - IX) Instructions to the Bidders;
  - X) General condition of the contract including any Amendment/addenda/Corrigenda thereto;
  - XI) The Bid submitted by the bidder including all its attachments and the bill of quantities;
  - XII) Technical specifications and Drawings, including any Amendment/Errata there to;
  - XIII) Work Order cum Letter of Acceptance along with its Annexure;
  
- b) **M/s** ..... letter proposal dated ..... and their subsequent communication:
  - i) Letter of Acceptance of Tender Conditions dated .....

- 2.2 BIT MESRA's detailed Letter of Acceptance No. **PCHSE/GEN/.....** dated ..... including Bill of Quantities and agreed time schedule submitted by Contractor.
- 2.3 All the aforesaid contract documents referred to in Para 2.1 and 2.2 above shall form an integral part of this Agreement, in so far as the same or any part thereof column, to the tender documents and what has been specifically agreed to by BIT MESRA in its Letter of Acceptance. Any matter inconsistent therewith, contrary or repugnant thereto or deviations taken by the Contractor in its "TENDER" but not agreed to specifically by BIT MESRA in its Letter of Acceptance, shall be deemed to have been withdrawn by the Contractor without any cost implication to BIT MESRA. For the sake of brevity, this Agreement along with its aforesaid contract documents and Letter of Acceptance shall be referred to as the "Contract".

#### ARTICLE 3.0 – CONDITIONS & CONVENANTS

- 3.1 The scope of Contract, Consideration, terms of payments, advance, security deposits, taxes wherever applicable, insurance, agreed time schedule, compensation for delay, and all other terms and conditions contained in BIT MESRA's Letter of Acceptance No. **PCHSE/GEN/.....** dated ..... are to be read in conjunction with other aforesaid contract documents. The contract shall be duly performed by the contractor strictly and faithfully in accordance with the terms of this contract.
- 3.2 The scope of work shall also include all such items which are not specifically mentioned in the Contract Documents but which are reasonably implied for the satisfactory completion of the entire scope of work envisaged under this contract unless otherwise specifically excluded from the scope of work in the Letter of Acceptance.
- 3.3 Contractor shall adhere to all requirements stipulated in the Contract documents.
- 3.4 Time is the essence of the Contract and it shall be strictly adhered to. The progress of work shall conform to the agreed works schedule/contract documents and Letter of Acceptance.
- 3.5 This agreement constitutes a full and complete understanding between the parties and the terms of the present. It shall supersede all prior correspondence to the extent of inconsistency or repugnancy to the terms and conditions contained in the Agreement. Any modification of the Agreement shall be effected only by a written instrument signed by the authorized representative of both the parties.
- 3.6 The total contract price for the entire scope of this contract as detailed in the Letter of Acceptance is **Rs...../- (Rupees ..... Only)** including all the taxes. (For any discrepancy in BOQ/Rates at any stage, the rates submitted by the vendor in the final bid shall prevail), which shall be governed by the stipulations of the contract documents.

#### ARTICLE 4.0 – NO WAIVER OF RIGHTS

- 4.1 Neither the inspection by BIT MESRA or the Engineer In-charge or any of their officials, employees or agents nor order by BIT MESRA or the Engineer In-charge for payment of money or any payment for or acceptance of, the whole or any part of the work by BIT MESRA or the Engineer In-charge nor any extension of time nor any possession taken by the Engineer In-charge shall operate as a waiver of any provisions of the contract, or of any power herein reserved to BIT MESRA, or any right to damage herein provided, nor shall any waiver of any breach in the contract be held to be a waiver or any other or subsequent breach.

#### ARTICLE 5.0 – GOVERNING LAW AND JURISDICTION

- 5.1 The Laws applicable to this contract shall be the laws in force in India and jurisdiction of Ranchi Court only.

5.2 Notice of Default

Notice of default given by either party to the other party under the Agreement shall be in writing and shall be deemed to have been duly and properly served upon the parties hereto, if delivered against acknowledgment due or by FAX or by registered mail duly addressed to the signatories at the address mentioned hereinbelow:

REGISTRAR  
BIRLA INSTITUTE OF TECHNOLOGY,  
MESRA RANCHI-835215 (JHARKHAND) –  
INDIA

IN WITNESS WHEREOF, the parties through their duly authorized representatives have executed these presents (execution whereof has been approved by the Competent Authorities of both the parties) on the day, month and year first above mentioned at Ranchi.

For and on behalf of:

For and on behalf of:

M/s .....

Birla Institute of Technology, Mesra

WITNESS:

1.

WITNESS:

1.

Contractor Sign & Seal