# **CO-OPERATIVE ACADEMY OF PROFESSIONAL EDUCATION (CAPE)**

1<sup>st</sup> floor, COBANK Towers, Vikas Bhavan P.O.,Trivandrum – 695 033 Tel: 0471-2316236, 2317696

TENDER DOCUMENT

# Construction of Academic and Administrative Blocks at College of Engineering, Aranmula Phase II

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# FORM OF TENDER

Name of work	: Construction of Academic and Administrative Blocks at College of Engineering, aranmula Phase II
Date of Issue	:
Name of Tenderer	:
Address	:

**Class of Registration** 

: Class A

#### TENDER NOTICE INVITING TENDERS FOR PRE-QUALIFICATION AND EXECUTION OF WORK

Tender No. W-PQ/03/2015-16/CAPE

Dated 08.02.2016

Sealed pre-qualification cum competitive tenders are invited by the undersigned from financially sound and well experienced valid Registered 'A' class contractors/firms of KPWD/CPWD/Railway/Irrigation who have successfully completed at least one similar work costing more than Rs.6.5 crore(Rs.Six crores and fifty lakhs only) of the estimate PAC during the last five years, for the construction work prescribed below up to **1.00 pm on 19.02.2016** The Pre-qualification details to be submitted in separate cover-A will be opened on the same day at 3.00pm. and financial bid (cover B) of the selected Pre-qualified contractors will be opened on 24.02.2016. at 3.00 pm. Bidders shall submit the tender document fees and EMD along with the Technical Bid in Cover A in the form of DD drawn in favour of Director, CAPE payable at Thiruvananthapuram.

1	Name of Work	:	Construction of Academic and Administrative blocks at College of Engineering,Aranmula (Phase II).
2	Estimate PAC	:	Rs.18,79,99,944/-
3	Nature of work	:	Multi storeyed RCC framed structure with pile foundation, including, water supply and sanitary works, septic tank, water tank, etc.
4	Time of completion	:	16 months (*The Ground floor should be completed within 8(Eight ) months so as to arrange the classes in the academic year 2016-17. The first floor, should be completed within 10(Ten) months, second floor should be completed within 12(Twelve) months and third floor floor should be completed within 14(Fourteen) months.
5	Cost of Tender Documents	:	Rs. 15,800/- (Inclusive of VAT)
6	EMD	:	Rs.5,00,000/- (Rs. Five lakh only)
7	Issue of tender documents	:	To be downloaded from the website www.capekerala.org
8	Last date and time of submission of tender	:	19.02.2016 up to 1.00 pm –off line (no online submission)
9	Date and Time of opening of Technical bid	:	19.02.2016 at 3.00 pm
10	Date and Time of opening of financial bid	:	24.02.2016 at 3.00 pm
11	Tools and plants required for the work	:	Pile driving machineries (8 nos) Concrete mixer(8nos), concrete vibrator(16nos), welding machine(2nos), scaffolding steel pipe(8000nos) and shuttering steel(4000m <sup>2</sup> ),pump set with motor(2nos.), generator(1no.),concrete hoist with motor(2 nos), PVC portable water storage tank (4 nos.) tipper lorry(4 nos), earth excavator etc.

The details of the work, drawings, tender conditions and documents can be downloaded from the website <u>www.capekerala.org</u> from 09.02.2016 .For any further details or clarification, the Technical Assistant, CAPE Head Quarters may be contacted. The Director reserves the right to reject any or all the tenders without assigning any reason therefor and his decision is final and binding.

#### DIRECTOR

Name of Work : Construction of Academic and Administrative blocks at College of Engineering, Aranmula Phase II.

Time of Completion: 16 (Sixteen) months= The Ground floor<br/>should be completed within 8(Eight ) months so as to arrange<br/>the classes in the academic year 2016-17. The first floor,<br/>should be completed within 10(Ten) months, second floor<br/>should be completed within 12(Twelve) months and third<br/>floor floor should be completed within 14(fourteen) months.

All communications shall be addressed to the Director, CAPE in the following address by post/person

Co-operative Academy of Professional Education(CAPE) Co-Bank Towers VIKAS BHAVAN P.O Thiruvananthapuram-695033 Tel No.0471-2316236 Fax No.0471-2310049

Director

Thiruvananthapuram Date: 08.02.2016

### **II- DETAILS OF TENDER**

Name of Work: Construction of Academic and Administrative blocks at College of Engineering, Aranmula (Phase II).

Competitive tenders in two parts viz, Tender Bid and Financial Bid quoting percent rate are hereby invited by Co-operative Academy of Professional Education for the above-referred work.

1. The contract documents consisting of Technical specification, Bills of Quantities to be duly signed on every page by the bidder shall be submitted to the Director.

2. The time allowed for the work is **16(SIXTEEN) months** from the date of execution of agreement. The Ground floor should be completed within 8(Eight) months so as to arrange the classes in the academic year 2016-17. The first floor, should be completed within 10(Ten) months, second floor should be completed within 12(Twelve) months and third floor floor should be completed within 14(fourteen) months.

- The tender shall be accompanied by registration cost of Rs.15800/-(Rs. Twenty six Thousand Three hundred only) and Earnest Money deposit for Rs.5,00,000/-(Rs. Two Lakh only) in the form of Demand Draft drawn on any Nationalized Bank/ State Co-operative Bank in favour of Director, CAPE payable at Thiruvananthapuram
- 4. The successful tenderer shall furnish a security deposit (Performance Guarantee) calculated at 5 percent of the contract value. At least fifty percent (50%) of the Performance Guarantee will be in the form of DD drawn on any Nationalized Bank/State Co-operative Bank in favour of the Director, CAPE payable at Thiruvananthapuram and the rest in the form of Bank Guarantee Valid up to the expiry of the Guarantee period (ie, for a period of 52**(Fifty two) months** from the date of agreement).
- 5. The Tenderer shall submit his tender only after carefully examining the whole tender documents and the conditions thereof.
- 6. This notice, the conditions of tender and the duly completed form of tender will inter alia form part of the agreement to be executed by the tenderer with the Director

## Director Co-operative Academy of Professional Education

Note :

- 1. Detailed notice inviting tender deemed as part of Contract and agreement.
  - 2. Guarantee period of the work is **36 months** from the date of completion.
- 3. All defects noticed in the construction within the guarantee period from the date of completion should be rectified by the Contractor at his own cost.

# **III- FORM OF COVERING LETTER**

То

The Director, CAPE Co-Bank Tower VIKAS BHAVAN P.O Thiruvananthapuram-695033 Tel No.0471-2316236

Sir,

# Sub: Construction of Academic and Administrative blocks at College of Engineering, Aranmula (Phase II).

Having examined the above tender details along with the specifications relating to the above subject work and the general conditions therein referred to, we hereby offer to carry out the work described in the said specification and general conditions for the sums and percentage rates quoted in the tender submitted herewith.

- 1. I/We hereby undertake to complete the work envisaged in accordance with contract conditions within the time specified in the tender.
- 2. I/We hereby guarantee the accuracy and correctness of particulars entered into the tender submitted by me/us.

Signature of Tenderer

(Name, Title and Position)

Address:

Place: Date:

# A- TECHNICAL BID

# I NOTICE INVITING TENDER

**Name of work**: Construction of Academic and Administrative blocks at College of Engineering, Aranmula -Phase II.

Sealed Percentage rate quoting tenders are invited on behalf of Co-operative Academy of Professional Education (CAPE) (THE OWNER) for the Construction of Academic and Administrative blocks at College of Engineering, Aranmula -Phase II.

from eligible Contractors possessing 'A' class registration in Irrigation/CPWD/Kerala PWD or Railways having sufficient financial strength for executing this work. The details of contract together with the estimate cost are given under

1.01 Owner /Employer	<ul> <li>Director, Co-operative Academy of Professional Education</li> </ul>
Engineer	- Project Director, CAPE
Consultant	- M/s.Pithavadian &partners, Chennai
Site Engineer	Project Engineer, College of Engineering, Aranmula

1.02 The Project contract mainly include the following

SL. No	Description of main construction	Approximate plinth area in m <sup>2</sup>
а	Civil works	
1	Ground floor	2597.16
2	First floor	2451.85
3	Second floor	2451.85
4	Terracefloor	99.90
b	Water supply and sanitary works	
С	Sump	

Total cost

Rs.18,79,99,944/-

Tender No.	Location and Terrain	Rainfall season and annual Rainfall	Type of soil and nature of terrain
W-	Aranmula ,Pathanamatitta	June, July, August,	Clay soil,
PQ/03/2015-	Plain	October,	-
2016/CAPE		November	

#### Broad scope and salient features of work

This work is planned for the construction of 4 storied building connected with a passage to the existing building. Construction of Ground floor is to be completed within 8(Eight) months, the First floor is to be completed within 10 (Ten) months, the second floor is to be completed within 12 (Twelve) months, Third floor are to be completed within next 14(fourteen) months and completed in all respects within 16 (Sixteen) months.

The estimate is prepared based mainly on CPWD specification with KPWD SOR 2012.

#### 1.04 Eligibility Criteria for applying prequalification

1) The tenderer should submit a copy of valid Registration Certificate mentioned in the tender notification

2) The tenderer should have executed at least one similar work of value not less than Rs. 6.5crore (six crore fifty lakhs) in single contract, during **last five years** as a prime contractor. (Completion Certificate from the client should be produced).

"Similar work" under this clause means construction of Buildings in particular. In respect of similar works carried out for private persons, firms etc in addition to completion certificates, proof in the form of certificates of actual payment by the client or TDS certificates issued by the client is to be produced for accepting the cost of work. The date of completion of the work should be indicated in the completion certificate.

- 3) Should produce statement showing annual financial turnover for **at least for 3 years or upto the last 5 years** ending 31/03/2015. This should be certified by a chartered accountant.
- 4) The applicant should have own construction equipments as notified in the Notice Inviting Tenders, for proper and timely execution of the work. Else, he should certify that he would be able to manage the equipment by hiring etc and submit the list of firms from whom he proposes to hire.
- 5) The applicant should have sufficient number of Qualified Technical persons (copy of certificate to be attached) and Administrative employees for the proper execution of the contract. The applicant should submit a list of all employees stating clearly how they would be involved in this work.
- 6) The applicant's performance in respect of completed works and on going works should be certified by an officer not below the rank of Executive Engineer of KPWD or equivalent of the concerned department and should be obtained and enclosed along with the Technical bid.
- 7) The applicant should have sufficient financial strength to execute the work.
- 8) The applicant should associate a reputed and eligible Licensed Plumbing for carrying out Plumbing works, if the contractor is not possessing Plumbing Contract license

## 9) EVALUATION BY SCORING

#### (A) <u>Structure</u>

(a) Valid License	- 70
(b) Financial Strength (Form A)	- 80

(B) Financial Status

	(a) Average Annual turn over (Form A) (b) Work in hand (Form B1)	- 160 - 90
(C)	Resources(a) Project Management (key personnel)(b) labour force (skilled and unskilled)(c) Plant and Equipments (Form E)	- 70 - 30 - 160
(D)	Experience (Form B &C)	- <u>340</u>

#### Total 1000 marks

- **NOTE:** To qualify, the applicant must secure 65% (Sixty five percent) marks in aggregate.
- **1.05** The general information on the project may be found from the bidding document. The information is only indicative. The tenderers must visit the site and familiarize themselves with the site conditions, nature of substrata, availability of construction materials, etc., before quoting. The drawings, conditions of contract, schedule of quantities and the specifications may be carefully studied before they offer their prices. No claims for extra compensation over and above the quoted rates will be entertained by THE OWNER on the ground that the tenderer have misjudged site conditions, nature of substrata, tender conditions or any item of tender. The tender documents will be available from the website of Co-operative Academy of Professional Education ie www.capekerala.org from 09.02.2016
- 1.06 The priced tender documents signed and complete in all respects shall be forwarded so that it reaches the office of the Director, CAPE on or before 1.00 pm on 19.02.2016 Any tender received after the due time on this date will be summarily rejected. All the required details are self-contained in the documents. It may be noted that separate Submission of details, explanatory notes, any relevant documents etc. will not be further entertained.
- **1.07** Tender should be submitted in a single sealed cover enclosing two sealed separate cover noted as cover A and Cover B

<u>Cover No. A: TECHNICAL BID</u>: Super scribing the TENDER NO.W-PQ/03/2015-16/CAPE for the Construction of Academic and Administrative blocks at College of Engineering, Aranmula - Phase II.

<u>Cover No. B: PRICE BID</u>: Super scribing the TENDER NO. W-PQ/03/2015-16/CAPE for the Construction of Academic and Administrative blocks at College of Engineering, Aranmula - Phase II.

Both covers should specifically mentioned as **TECHNICAL BID** and **PRICE BID** so as to identify each one at the time of opening.

These two covers A & B shall then be put in another single cover superscribed the name of work with tender no. and sealed before submission.

Cover No. A : (Technical Bid) shall contain:

- 1. Registration cost in the form of DD as specified
- 2. Earnest Money Deposit in the form DD as specified
- 3. All documentary evidence to prove the specified eligibility criteria.
- 4. Tender documents Technical Bid
- 5. Preliminary agreement duly filled in stamp paper worth Rs.200/-

Cover No. B : (Price Bid) shall contain:

1. Duly signed and stamped Price Bid only, without any conditions.

2. Schedule of Quantities with percentage quoted duly filled and signed on each page and stamped by the tenderer. ie quoted tender schedule.

3. Tender Drawings each signed and stamped by the Tenderer.

#### 1**.08**.

01 Pre-qualification cum technical bid cover A will be opened in the presence of tenderers or their authorized representatives who are present at 3.00 pm on 19.02.2016 at CAPE Headquarters.

THE OWNER will evaluate the pre-qualification bids and the price bids of those pre-qualified bidders only will be opened. The date of opening of price bid will be intimated to the pre-qualified bidders. THE OWNER reserves the right to reject any bid without assigning any reasons. Non-submission of documentary evidence to prove pre-qualification criteria will lead to rejection of tender.

- .02 Subject to THE Owner's right to accept any tender and reject any or all tenders; the work will be awarded to the tenderer whose bid has been determined to be substantially responsive to the tender documents and who has offered the lowest Evaluated Tender Price provided further that the tenderer has the capability and resources to carry out the contract effectively.
- .03 Prior to the expiry of the period of validity of the tender THE OWNER will notify the successful tenderers in writing their name the sum which THE OWNER will pay to the contractor in consideration of the execution, completion, operation, defect maintenance and guarantee of the work by the contractor as specified by the contract (hereinafter called the contract price). This letter of acceptance will constitute the formation of a contract.
- .04 The tenderer shall make a security deposit as given in clause 1.11 of this notice and furnish the same for the proper fulfillment of the contract and shall execute an agreement for the work in required non-judicial stamp paper in the format given as "Articles of Agreement" within 20 days from the date of award of communication (selection notice). Further time of 10 days shall be allowed to execute agreement on realizing a fine of 1% of the PAC subject to minimum of Rs.500/- and maximum of Rs.15,000/-. The tenders will be rejected if agreement is not executed with in 30 days and work will be awarded to the next lowest tenderer as per rules.
- .05 If the tenderer fails to execute the agreement as stated above within the specified period, **the earnest money deposit shall be forfeited** to THE OWNER and the work will be arranged through the 2<sup>nd</sup> lowest tenderer or retendered.

- 06 Tenders not properly filled, mutilated with incorrect calculations or generally not complying with the conditions are susceptible shall be rejected.
- 07. The rate quoted as percentage rate will deemed to include the cost of all materials, labour, hire charges for all machinery, cost of fuel, power, all leads and lifts, taxes, levies, royalties incidental charges all overheads contingencies, profits, etc.
- .08 If the tender is made by an individual, it shall be signed with his full name and his complete address shall be given. If it is made by partnership firm it shall be signed by the authorized signatory with name and seal of the firm. No price preference will be allowed to any Corporation/Society/firm/individual for the finalization of financial bid due to paucity of funds since CAPE is executing projects by availing financial assistance. There will not be any allowance/relaxation to any Corporation /Society/firm/individual for the exemption of the EMD and security deposit mentioned in the tender documents.

#### 1.09 Instructions to applicant

- i. Pre qualification questionnaire completed in all respect shall be submitted on or before 19.02.2016 up to 1.00 pm to Director, CAPE .
- ii. No costs incurred by bidders in making this offer in providing clarification on attending discussions or site visits will be reimbursed by the employer or Engineer
- iii. Incomplete offers will be rejected
- iv. The enclosed schedules should be filled in completely and all questions should be answered. If any particulars query is not relevant, it should be stated as not applicable.
- v. If the offer is submitted by a bidder backed up by specialized sub contractors, the bidder and each of the sub contractors should fill in all the schedules completely. The responsibility of the contract is vested with the main bidder and the main bidder should be clearly identified and the extent of responsibility of each of the sub contractors should be defined.
- vi. Financial rate, project value of work etc, should be given in equivalent Indian Rupees only.
- vii. For any clarification the Technical Assistant CAPE Headquarters may be contacted.
- viii. If the application is made by a firm in partnership, it should be signed by all the partners of the firm, with their full name and current address or by a partner holding power of attorney for the firm by signing the application in which case a certified copy of the power of attorney shall accompany the application.
- ix. A certified copy of the partnership deed, current address of the firm and the full name and current address of the all the partners of the firm shall also accompany the application.
- x. If the application is made by a limited company or a Ltd corporation, it shall be signed duly by authorized person holding the power of attorney for signing the application in which case a certified copy of the power of attorney shall accompany the application of such Ltd Company or Corporation will be

required to furnish satisfactory evidence of its existences before the contract is awarded.

- xi. The language for submission of bid should be English/Malayalam.
- xii. To be eligible for award of contract, bidders shall provide evidence satisfactory to the employer not withstanding any previously conducted prequalification of potential bidders of their capability and adequacy of resource affectively to carry out the subject contract. To this and all bids submitted shall include the following information
- a. Copies of original documents defining the constitution of legal status, place of registration and principal place of business of the company of firm or partnership there to constituting the bidder.
- b. Details of the experience and past performance of the bidder of similar nature with in a past five years and details of current work in hand and other contractual commitment.
- c. Major items of construction equipment proposed for use in carrying out contract in the form prescribed in schedule E.
- d. The qualification and experience of key personnel proposed for administration and execution of the contract in the form at prescribed in schedule- D1.
- e. Proposal for subcontracting elements of the works amounting to more than 10% of the tender amount for each element may be furnished.

The applicant is expected to visit at the project site before submitting the pre-qualification. While submitting the schedule duly filled up the applicant shall enclose latest copies of broachers and technical documentation giving more information about the firm. The owner reserves the right to reject any of all pre-qualification applications with out assigning any reason and the owner decision shall be hereinafter final and binding.

## 1.10 <u>EMD</u>

- .01 Earnest Money Deposit is **Rs.5,00,000/-**(Rs.Five lakh only). It shall be drawn in the form of demand draft from any Nationalized Bank or State Cop-operative Bank in favour of Director, CAPE payable at Thiruvananthapuram
- .02 E.M.D. of the unsuccessful tenders will be refunded by Cheque of State Bank of Travancore without any interest on finalization of the contract with the successful Tenderer or on the expiry of the validity period whichever is earlier.
- .03 E.M.D. deposited with THE OWNER will be forfeited,
  - i) if a bidder withdraws his bid during the period of validity specified.
  - ii) if the successful bidder fails within the time limit to sign the contract document or fails to furnish the required security deposit.

## 1.11 <u>Performance Security Deposit (Performance guarantee)</u>

.01 The successful tenderer on receipt of the letter of acceptance will deposit an amount equal to 5% of the value of contract within 20 days from the date of award of work

- .02 At least fifty percent (50%) of the Performance Guarantee will be in the form of demand draft drawn on any Nationalised/State Co-operative Bank in favour of Director, CAPE payable at Thiruvananthapuram and the rest in the form of Bank Guarantee for a period of not less than **52 (Fifty two) months** from any nationalized bank and execute agreement.
- 03 E.M.D. of the successful tender will be refunded by Cheque of State Bank of Travancore with out any interest on execution of agreement.
- .04 The SECURITY DEPOSIT will be released to the contractor after expiry of the defects liability period of 36months from the date of completion.

#### 1.12 SECURITY DEPOSIT (Retention amount)

- .01 In addition to Performance Guarantee, Security Deposit for the work shall be collected by Deduction from the running/Final bill of the contractor @ 2.5% of the gross amount of each running and/or final claim till expiry of defect liability period.
- 02 Security Deposit (retention) will be released against bank guarantee on it accumulation to minimum of Rs. 5 lakhs. The minimum amount of Bank Guarantee shall not be less than Rs. 5 lakhs at a time
- .03 All kinds of deposits of E.M.D/ SECURITY DEPOSIT will not bear any interest whatsoever.
- **1.13** Income-tax at the rate prevailing at the time of payment will be deducted from all kinds of bill payments.
- **1.14.1** All statutory payments in connection with the employment of the workmen for this work will be recovered from the bill
- .02 The contractor is the employer of all the workers engaged for this work and should therefore take all required registrations and pay premium correctly to labour welfare funds constituted by the Union Government and State Governments from time to time.
- All statutory deductions shall be made from the amount eligible to the contractor 1.15 in each part bill at current rates. The deduction towards the work contract tax shall be as per the prevailing rates of State Government Sales Tax Rules. Any tax omitted, to be deducted in any part bill shall be deducted in the subsequent bills/final bill. As per section 10 of the KVAT Act, 2003 every awarder shall deduct from every payment, including advance payment made by him to any contractor liable to pay tax under section 6 of the KVAT act, 2003 in relation to any works contracts awarded and hence the contract amount will be released to any contractor only on the basis of liability certificate in Form No. IEE issued from the commercial taxes department. On deducting TDS @ 8% of the amount paid as per the works contract in the case of contractors registered under the KVAT Act, 2003 and @ 10% of the amount paid as per the works contract in case of contractor who have not registered under the KVAT Act, 2003. The above recovery will be altered based on subsequent government orders if any issued.

## 1.16 PERIOD OF VALIDITY

The tender shall remain valid for acceptance for a period of two months from the date of opening of the pre-qualification tenders. If any tenderer withdraws his tender before the said period or makes any modifications in terms and conditions of the tender, then *THE OWNER* has the liberty to forfeit the said Earnest Money Deposit.

#### 1.17 INSPECTION OF SITE

Every tenderer must inspect the site of the proposed work and acquaint himself with the site conditions of substrata, approaches, availability of raw materials, geological and weather conditions, etc., before quoting his rates. He must go through all the drawings, specifications and other tender documents. Any further clarifications in the drawings and documents can be had from *THE OWNER* at the above-mentioned address.

#### 1.18 QUANTUM OF WORK

- .01 A schedule of approximate quantities for various items accompanies this tender. It shall be definitely understood that THE OWNER do not accept any responsibility for the correctness or completeness of this schedule in respect of items and quantities and this schedule is liable to alteration by deletions, deductions or additions at the discretion of *THE OWNER* without affecting the terms of the contract.
- .02 *THE OWNER* reserves the right to increase or decrease the quantum of work at site without assigning any reason.
- .03 Variations in the quantities put to tender will not be the basis of any claim or disputes. The rates agreed by the contractor shall hold good for any amount of variation in the quantities and no claims whatsoever will be entertained on this amount. The contractor shall carry out all works as directed by THE OWNER at the same agreed rates.

#### 1.19 ALL INCLUSIVE RATES

The contractor's rate must be firm and include the cost of transportation of material to the site, royalties, all taxes and the fixing or placing in position for which the item of work is intended to be operated. The rates quoted by the contractor shall be firm throughout the contract period and there shall be no upward revision of the rates quoted by the contractor for any reasons whatsoever. It should be clearly understood that any claims for extra Sales Tax, Excise duty, construction tax or any additional tax, escalation of rates, etc., shall not be entertained in any case whatsoever once the tenders are opened. No incidental charges will be paid other than the quoted rates for finished items. No interest will be paid to the contractor towards any delay occurred for releasing payments.

#### 1.20 INTERPRETING SPECIFICATIONS

- .01 In interpreting the specifications, the following order or decreasing importance shall be followed:
  - a. Specification mentioned in Schedule of Quantities
  - b. Special conditions of contract,

- c. Unit Rate Specifications and Technical Specifications of CPWD
- d. Drawings
- .02 Matters not covered by the specifications given in the contract, as a whole shall be covered by the relevant Indian Standard Codes. If such codes on a particular subject have not been framed, the decision of THE OWNER shall be final.
- **1.21** No alterations shall be made by the tenderer in the Notice Inviting Tender, Instructions to the contractors, Contract form, conditions of the contract, special conditions, drawings and specifications and if any such alterations are made or any conditions attached, the tender is liable to be rejected.

#### 1.22.

- 01 The acceptance of a tender rests with the owner/ Authorized Representative of THE OWNER who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all the tenders received without assigning any reason(s) whatsoever.
- .02 The owner /authorized representative of THE OWNER reserves the right of accepting the whole or any of the tenders received and the tenderer shall be bound to perform the same at the rates quoted.
- **1.23** The work shall be carried out under the direction and supervision of THE OWNER/CONSULTANT or their representative at site. On acceptance of the tender, the contractor shall intimate the name of his accredited representative who would be supervising the construction and would be responsible for taking instructions for carrying out the work.
- **1.24** THE OWNER/Consultant's decision with regard to the quality of the material and workmanship will be final and binding; any material rejected shall be immediately removed by the contractor and replaced by materials as per specifications and standards.

#### 1.25 SUB-LETTING

No part or whole of the contract shall be sublet without the written permission of THE OWNER nor shall transfers be made by the Power of Attorney authorizing others to carryout the work or received payment on behalf of the tenderer.

#### 1.26 DEFECTS LIABILITY PERIOD

Any defect developed within 'Defect Liability Period' of 36 months from the date of completion of work will have to be rectified by the contractor at their own cost failing which the OWNER/CONSULTANT or their representative shall get the work done at the risk and cost of the contractor.

#### 1.27 DELAYS IN COMMENCEMENT

The contractor shall not be entitled to any compensation for any loss suffered by him on account of delays in commencing or executing the work, whatever the cause for such delays may be including delays in procuring Government Controlled or other materials.

#### 1.28 OCCUPATION IN PART

If THE OWNER wants to occupy areas in part, the contractor shall complete the work of these areas in conjunction with THE OWNER and hand over the same to THE OWNER without affecting any of the clauses of contract agreement.

- **1.29** The contractor should inspect the source of materials, their quality, quantity and availability. All materials must strictly comply with the relevant B.I.S. specifications.
- **1.30** The contractor must co-operate and co-ordinate with other contractors involved in other works at the site.

The contractor should note that they shall have to clear the site of vegetation, debris, etc. before the commencement of the work. The contractor should also keep the premises clear during the execution for the inspection of the site

#### 1.31 PERIOD OF CONSTRUCTION

Time is the essence of this contract. The total construction period shall be **16** (sixteen) months. For the period of completion, the Commencement of the work shall be considered from the date of execution of agreement. The contractor shall draw a detailed schedule of programme in the form of PERT CHART/ BAR CHART on whole work, within one week of award of work and submit to THE OWNER for their approval. The work should be executed as per programme schedule and entire work should be completed with in the date of completion. The programme should be prepared to complete the entire works of the Ground floor should be completed within 8 (Eight) months so as to arrange the classes in the academic year 2016-17. The First floor is to be completed within 10 (Ten) months, the second floor is to be completed within 12 (Twelve) months, Third floor are to be completed within next 14(fourteen) months and completed in all aspects within 16 (Sixteen) months

#### 1.32 Handing over the Site

After executing the agreement the contractor or his authorized persons should take over the site from the College concerned authority within 10 days so as to commence the work.

#### 1.33 LIQUIDATED DAMAGES

Liquidated Damages will be levied as per Kerala PWD rules.

#### 1.34 CONTRACTOR'S STORE AND SITE OFFICE

Suitable area in the site of work shall be allowed to the contractor at free of cost for constructing temporary structures for storing his tools and plants, materials, site office and cement Godown. However, the structure will be provided by him at his own expense and he will be solely responsible for guarding his property with requisite insurance against theft, fire, etc. The contractor however will have to dismantle the sheds and vacate the land of all debris, etc. at his own expense after completion of work. The responsibility for safe custody of materials at work site and during transit will be vested with the contractor.

## 1.35. Quality control of work

The contractor shall arrange the quality control test and the quality certificate shall be handover to the Assistant Engineer for confirmation. The Assistant

Engineer and Project Engineer should certify the quality of the work done by the contractor while recommending the interim payment of the bills.

#### 1.36 MEASUREMENT AND BILLING

- .01 The contractor or his representative shall accompany THE OWNER /CONSULTANT or their representative in taking measurements and shall agree to the measurements taken on spot. All necessary tapes shall be of steel and shall be supplied by the contractor. The contractor shall then present his bill based upon the agreed and recorded measurements and as per the directions of THE OWNER /CONSULTANT. If the contractor fails to accompany THE OWNER /CONSULTANT's representatives for measurements, then he shall be bound by the measurements taken by THE OWNER /CONSULTANT or their representative.
- .02. The contractor shall be allowed to raise bills only for more than 10% of contract amount in each bill.
- .03 Payments towards all interim bills presented by the contractor will be made by THE OWNERafter auditing the bill
- 04 Period of taking final measurement shall be one months from the date of satisfactory completion of the project.
- 05. The interval between the submission of two consecutive bills shall be more than 30 days.

#### 1.35 EXTRA ITEMS

- .01 Any item of work that do not find a place in the schedule of quantities, in the original tender or in the accepted tender or contract as has been directed by THE OWNER /CONSULTANT to execute is deemed as an extra item of work. All such works that are necessary to be carried out under the direction of THE OWNER /CONSULTANT shall be carried out by the contractor. No such variation will violate the Contract.
- .02 Extra items of work thus carried out by the contractor will be paid at the rates worked out by THE OWNER /CONSULTANT in the following manner.
- .03 In the case of all extra items whether additional, altered or substituted, if accepted rates for identical items are provided for in the contract such rates shall be applicable.
- .04 In the case of extra items whether altered or substituted, for which similar items exists in the contract, the rates shall be derived from the original item by appropriate adjustment of cost of affected components with reference to the departmental estimated rates applied in deriving the rates for such items.
- .05 In the case of extra items, whether additional altered or substituted, for which the rates cannot be derived from similar items in the contract, and only partly from the schedules of rates, the rates for such part of items not covered in the schedule of rates shall be determined by THE OWNER/CONSULTANT on the basis of the prevailing market rates giving due consideration to the analysis of the rate furnished by the contractor with supporting document including contractor's profit and over head. Tender Excess will not be admissible for market rate components.
- .06 In the case of extra item whether additional, altered, substituted, for which the rates cannot be derived either from similar items of work in the contract or from the departmental schedule or rates, the contractor shall within 14 days of the receipt of order to carry out the said extra item of work, communicate to the Engineer the rate which he proposes to claim for the item, supported by analysis of the rate claimed and THE OWNER shall be within one month thereafter, determines, the rate on the basis of the market rate giving due consideration to

the rate claimed by the Contractor. Tender excess will not be admissible in such cases.

**1.36** The contractor shall make his own arrangement for water and electricity required for the work. THE OWNER has no responsibility for the supply of either electricity or water for the work.

#### 1.37 INSURANCE

The contractor shall be responsible for the safety of the labour employed by him and he shall be liable to pay necessary compensation in case of accidents as per the workman's compensation Act.

**1.38** This Notice Inviting Tender will form part of the tender document and the agreement executed by the successful tenderer.

#### DIRECTOR

# Place: Thiruvananthapuram Date: 09.02.2016

SI. No	item	Description					
1	Last date and time of submission of tender	19.02.2016 upto 1.00 pm -offline					
2.	Date of Opening Technical bid	19.02.2016 at 3.00 pm					
3	Date of opening of financial bid	24.02.2016 at 3.00 pm					
4.	Firm period of the tender	2 months					
5.	Cost of tender / Registration cost	Rs. 15,800/-(including VAT)					
6.	EMD of tender	Rs. 5,00,000./-					
7.	Performance Security Deposit	5% of contract amount (while executing agreement)					
8.	Date of Execution of agreement	Within 20 days from the date of acceptance of tender					
9.	Period of completion	16 (sixteen) months*The Ground floor should be completed within 8(Eight ) months so as to arrange the classes in the academic year 2016-17. The first floor, should be completed within 10(Ten) months, second floor should be completed within 12(Twelve) months and third floor floor should be completed within 14(fourteen) months					
10.	Site handover	Within 10 days after execution of agreement					
11	Date of Completion of work	16 (sixteen) months from date of execution of agreement *The Ground floor should be					

		completed within 8(Eight ) months so as to arrange the classes in the academic year 2016-17. The first floor, should be completed within 10(Ten) months, second floor should be completed within 12(Twelve) months and third floor floor should be completed within 14(fourteen) months. The Entire works should be completed within 16(sixteen) months.
12	Security Deposit (retention)	@ 2.5% of the gross amount of each running and /or final bill
13	Release of Security Deposit	On expiry of Defect Liability period
14	Final measurement	with in 1 months from the date of completion
15	Defect liability period	36 months from the date of completion
16	Escalation	Not applicable
17	Liquidated damages	A per PWD rules
18	Kerala workers welfare fund	1% of bill amount recovered during the payment of the bills
19	I.T	2% for firms and 1% for individuals
20	VAT	<ol> <li>tax will be recovered based on the production of 1EE from commercial tax department</li> <li>8% for the VAT registered contractors</li> <li>10% for non VAT registered contractors</li> </ol>

# Director

Co-operative Academy of Professional Education Co-Bank Tower VIKAS BHAVAN P.O Thiruvananthapuram-695033 Tel No.0471-2316236

### **II. PRE-QUALIFICATION APPLICATION**

Name of work: Construction of Buildings for Administrative block and Academic block at College of Engineering, Aranmula –Phase II

То

Dear Sir,

Having examined the pre-qualification document indicating scope of works and time frame of the work I / We hereby submit all the necessary information for pre-qualifying me/us for bidding for the above-mentioned work. The relevant certificates are enclosed.

The application is made by me / us on behalf of...... (Group firms) in the capacity of .....duly authorized to submit the offer.

The necessary evidence admissible in law in respect of authority to me/us on behalf of the group of firms for applying and for completion of the contract document is attached herewith.

I / We understand that the owner reserves the right to reject any application without assigning any reason.

Date

SIGNATURE OF THE APPLICANT (Name in brackets, including title and capacity in which application is made)

Encl:

- 1. Form A- F duly filled in the prescribed form.
- 2. Evidence of authority to sign.
- 3. Latest brochures & relevant Certificates.
- 4. EMD and registration cost in separate cover to be attached along with Technical proposal.
- 5. Preliminary agreement in stamp paper worth Rs.200/-
- 6. Attested copy of valid registrations

# FINANCIAL STATEMENT

1.	Name of firm							
2.	Capital (Rs. in lakhs)							
	a. Aut	thorised	:					
	b. iss	ued and paid up	:					
3.	and p	n audited balance sheets rofit and loss statements e past five years	:					
4.		cial Position t amount in rupees to be stated)	:					
	a. Ca	sh	:					
	b. Cu	rrent Assets	:					
	C.	Current Liabilities	:					
	d.	Working Capital	:					
	e.	Net worth	:					
5.	Total Liabilities :							
6.		nt ratio ent assets to current liabilities)	:					
7.	Total	Liabilities to Net worth	:					

8. Annual Value of Construction works undertaken for each of the last five years:

Details	One	year	Two	year		year		year	Five	year
	before		Before		before		before		before	
Gross										
annual turn										
over										
Profit(+)										
Loss(-)										

:

9. Income Tax Pan Details

10. Applicants Financial arrangements

for the proposed work (exact amount in Rs. to be mentioned) a. Own Resources	: : Rs
<ul> <li>b. Bank Credit</li> <li>(certificate to be attached specifying the amount financed by the bank for this work)</li> </ul>	: Rs
	: Rs
11. Certificate of Financial Soundness from Bankers of Applicants together with their full address	:
12. Approximate value of work in hand	:

- Note 1. Details of items 12 are to be given in schedule-B1.
- Note 2. Details of item No. 8 to be furnished duly supported by figures in balance sheet/Profit and Loss account statement for the last five years duly certified by the Chartered Accountant as submitted by the applicant to the income tax department(copies to be attached).
- Note 3 Information asked against each item to be carefully filled in, more reference to balance sheet in reply to above point is not accepted.

Signature of Tenderer

Date

Signature of Chartered Accountant with seal

Date

# FORM-B

Please fill in information about the relevant projects completed over the last five years					
Name of the Employer	Location	Name of Engineer responsible for supervision	Contract price & Date of completion (Rs.In lakhs)	Scope of works	completion certificate enclosed (Yes/No)

# Details of Projects Completed – During last five years.

Date:

Signature of Tenderer

# FORM-B1

# **Details of Projects in Progress**

Give information about all projects in progress including those where the company has received the letter of intent but a formal contract has not yet been awarded							
Employer	Engineer responsible for supervision	Location and description of work	Scope of works	Value of contract	Value of works completed and certified project	% practical completion	Date of completion of the work
1	2	3	4	5	6	7	8

Signature of Tenderer Date

#### FORM 'C'

# PERFORMANCE REPORT FOR WORKS REFERRED TO IN FORM 'B'&'B1'

1.	Name of the work	:	
2.	Project & Location	:	
2	. Scope of work.	:	
а	. Number of floors in Basement.	:	
b	. Number of floors in Superstructure	e.:	
С	. Type of foundation	:	
3.	Agreement No.& Date	:	
4.	Estimated Cost		:
5.	Contract Cost	:	
6.	Value of work done	:	
7.	Date of Start		:
8.	Date of completion	:	
а	. Stipulated date of completion	:	
b	. Actual date of completion	:	
9.	Amount of compensation levied for delayed Completion if any	:	
10.	Performance report based on Quality of Work, Time Management and Resourcefulne	ess :	Very Good / Good / Fair

Date:

EXECUTIVE ENGINEER / AUTHORISED SIGNATORY

Place:

#### **ORGANISATIONAL STRUCTURE**

:

÷

- 1. Name and address of the applicant :
- 2. Telephone No. /Fax No/E-Mail address :
- 3. Legal Status (attach copies of original document defining the legal status)
  - (a) Individual / Proprietary Firm
  - (b) A Firm of partnership :
  - (c) A Limited Company
- 4. Particulars of registration with various Government bodies (Attach attested photo copy)
  a) Registration Number. :
  - b) Organization / Place of registration:
- 5. Names and Titles of Directors and officers with designation of those concerned with this work with Designation of individuals authorized to act for the organization.
- 6. Was the applicant ever required to suspend construction for a period of more than six months continuously after the construction was commenced? If so, give the name of the project and give reasons thereof.
- Has the applicant or any constituent partner in case of partnership firm, ever abandoned the awarded work before its completion?
   If so, give the name of the project and give reasons thereof.
- 8. Has the applicant or any constituent partner in case of partnership firm, ever been debarred / black listed for tendering in any organization at any time? If so, give details:
- Has the applicant or any constituent partner in case of partnership firm, ever been convicted by a court of law? If so, give details.
- 10. In which field of Civil Engineering Construction, specialization and interest is in and number of years of experience as a general bidder.
- 11. Any other information considered relevant but not included above.

#### SIGNATURE OF THE TENDERER

Date:

## **SCHEDULE -PERSONNEL**

Details of personnel with the Applicant:

#### Name of Applicant:

SI No	Description (of the Applicant's pay roll)	Number
1.	Project Manager	
2.	Works Manager	
3.	Site Engineers:	
	No. of Engineering Graduates (Civil)	
	No. of Diploma holders:	
4.	No. of Administrative staff	
5.	No. of skilled employees	
6.	No. of Unskilled employees	

**Note:** In case of personnel at SI.No.1,2 &3 give separate list noting Name, Qualification, Present posting, Professional Experience and linguistic ability to the project etc.

Date:

Signature of Tenderer

# FORM- E

Plant and machineries proposed to be employed by the applicant for use on the work

SI.No	Description with capacity, Age and Condition	Number	Remarks

Signature of Tenderer

Date:

# Additional Information

(The applicant can add here any further information relevant to the valuation of their pre-qualification bid)

Date:

Signature of Tenderer

# **IV. CONDITIONS OF CONTRACT**

- 1. The **Contract** means the documents forming the tender and acceptance thereof and the formal agreement executed between the competent authority on behalf of Director, Co-operative Academy of Professional Education, Co-Bank Tower, VIKAS BHAVAN P.O Thiruvananthapuram and the CONTRACTOR, together with the documents referred to therein including the conditions, the specifications, designs, drawings and instructions issued from time to time by the Engineer-in-charge and all these documents taken together, shall be deemed to form one contract and shall be complementary to one another.
- 2. In the contract, the following expressions shall, unless the context otherwise requires, have the meanings, hereby respectively assigned to them:-
- i) The expression **works or work** shall, unless there be something either in the subject or context repugnant to such construction, be construed and taken to mean the works by or by virtue of the contract, contracted to be executed whether temporary or permanent, and whether original, altered, substituted or additional. The works under the scope is all works upto basement level and all works of superstructure including masonry, concrete, finishing, Electrification, plumbing and sanitary.
  - ii. The **Site** shall mean the land/or other places on, into or through which work is to be executed under the contract or any adjacent land, path or street through which work is to be executed under the contract or any adjacent land, path or street which may be allotted or used for the purpose of carrying out the contract.
  - iii. The **CONTRACTOR** shall mean the individual, firm 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 company, or the successors of such firm or company and the permitted assignees of such individual, firm or company.
  - iv. The CONSULTANT shall mean the individual, firm or company, whether incorporated or not, undertaking the architectural consultancy and supervision and Management of the works and shall include the legal personal representative of such individual or the persons composing such firm or company, or the successors of such firm or company and the permitted assignees of such individual, firm or company
  - v. The **Engineer-in-charge** means the Project Engineer or any other Engineer of Co-operative Academy of Professional Education who will supervise and be in-charge of the work on behalf of CAPE.
  - vi. Accepting Authority shall mean Director, CAPE
  - vii. Owner shall mean the Director CAPE,TVM
  - viii. **Excluded Risk** are risks due to riots (other than those on account of CONTRACTOR's employees), war (whether declared or not) invasion, act of foreign enemies, hostilities, civil war, rebellion revolution, insurrection, military or usurped power, damages from aircraft, acts of God, such as earthquake, lightening and unprecedented floods, and other causes over which the CONTRACTOR has no control.
  - ix. **Market Rate** shall be the rate as decided by the Engineer-in-charge on the basis of the cost of materials and labour at the site where the work is to be executed C ontractor:

plus 15% to cover, all overheads and contractor's profits. Tender excess will not be allowed for Market rate Component

- x. **Schedules(s)** referred to in these conditions shall mean mainly the relevant PWD (SOR 2012)schedule(s) with CPWD specifications.
- xi. **Department** means Co-operative Academy of Professional Education which invites tenders.
- xii) **Site Order book** is a book to be maintained by the Contractor at site and produced when demanded by the Engineer in-charge to record any instruction /comments by the Engineer in-charge).
- xiii) Contract value means the value of entire work as stipulated in letter of award.
- xiv) Estimate value means the value of entire work as stipulated in the tender schedule.
- 3. Where the context so requires, words imparting the singular only also include the plural and vice versa. Any reference to masculine gender shall whenever required include feminine gender and vice versa.
- 4. Headings and marginal notes to these General Conditions of contract shall not be deemed to form part thereof nor be taken into consideration in the interpretation or construction thereof or of the contract.
- 5. The work to be carried out under the contract shall, except as otherwise provided in these conditions, includes all labour, materials, tools, plants, equipments and transport which may be required in preparation of and for and in the full and entire execution and completion of the works. The descriptions given in the Schedule of quantities shall, unless otherwise stated, be held to include wastage of materials, carriage and cartage, carrying and return of empties, hoisting, setting, fitting and fixing in position and all other labours necessary in and for the full and entire execution and completion of the work as aforesaid in accordance with good practice and recognized principles.
- 6. The CONTRACTOR shall be deemed to have satisfied himself before tendering as to the correctness and sufficiency of his tender for the works and of the rates and prices quoted in the schedule of quantities, which rates and prices shall except as otherwise provided cover all his obligation under the contract and all matters and things necessary for the proper completion and maintenance of the works.
- 7. The several documents forming the part of contract are to be taken as mutually explanatory of one another; detailed drawings being preferred to small scale drawing, figured dimensions being preferred to scale, special conditions in preference to General conditions.
- 7.1 In the case of discrepancy between the schedule of Quantities, the specifications and/or the Drawings, the following order of preference shall be observed.
  - i) Description of Schedule of Quantities.
  - ii) Particular Specification and special condition, if any
  - iii) Drawings.
  - iv) C.P.W.D Specifications

- v) Indian Standard specifications of B.I.S.
- 7.2 If there are varying or conflicting provisions made in any one document forming part of the contract, the Accepting Authority shall be the deciding authority with regard to the intention of the documents and his decision shall be final and binding on the CONTRACTOR.
- 7.3 Any error in description, quantity or rate in schedule of Quantities or any omission there from shall not vitiate the CONTRACT or release the CONTRACTOR from the execution of the whole or any part of the works comprised therein according to drawings and specifications or from any of his obligations under the contract.
- 7.4 **Commencement and completion of work-** The work shall commence within 10 days from the date of execute of agreement and complete the whole work within 16months from the agreement date. \*The Ground floor should be completed within 8(Eight) months so as to arrange the classes in the academic year 2016-17. The first floor, should be completed within 10(Ten) months, second floor should be completed within 12(Twelve) months and third floor floor should be completed within 14(Fourteen) months
- 8. **Agreement-** The contractor, on acceptance of his tender by the Accepting Authority, shall sign the agreement with in 20 days from the date of award of work and commence the work with in 10 days from the date of agreement.
  - a) The tender conditions, all the documents including drawings, if any, forming the part of tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.
  - b) Model Rules which are applicable to KPWD for the protection of health, sanitary arrangements for workers employed by CONTRACTOR at site
  - c) CONTRACTOR's Labour Regulations of the KPWD.

#### **MEASUREMENT BOOKS:**

Conventional measurement book shall be used for recording the measurements. The Assistant Engineer designated for the charge of site of **Construction of Academic and Administrative blocks at College of Engineering, Aranmula -Phase II** will be the custodian of the M-Books. The pages of these measurements books shall be serially numbered and a record of these measurements book shall be maintained in a separate register. The measurements shall be carried forward from the previous recorded measurement as per the existing procedure of Kerala PWD.

#### MODE OF MEASUREMENTS :

Measurement of works shall be made as per principles adopted in Kerala PWD and ISI codes for measurement of works. The measurements shall be jointly taken by the CONTRACTOR or his representative and the Engineer –in charge or his representative ie, Assistant Engineer of **Construction of Academic and Administrative blocks at College of Engineering, Aranmula- Phase II**, and recorded and entered in the M. Books by the Assistant Engineer. The Engineerin-charge shall incorporate with signature changes or corrections, as may be done during the checks to the recorded measurements. Cuttings/over writing/insertions in the M.Books are not allowed after final checking.

#### EXTRA ITEMS:

If any extra item has to be executed at site which may be absolutely necessary for the work and which are not included in BOQ shall be executed on written orders from the Project Engineer of CAPE. The contractor shall bring to the notice of the concerned official in advance, the requirement of extra item to be executed. The rates shall be derived from parallel items or similar items if possible or shall be derived from the reasonable existing market price plus the cost of labour plus 15 percent for contractor's overheads and profits. The CONTRACTOR shall furnish the rate analysis which supporting statements to the Owner for approval. However the CONTRACTOR shall not delay the work for finalization of the rates of the concerned item. Supplemental agreement for the extra item has to the executed for the same

#### BILL TO BE SUBMITTED BY THE CONTRACTOR:

Based on the quantities worked out as per the joint measurements recorded the CONTRACTOR shall submit his running and final bill in the appropriate format as followed in PWD. The CONTRACTOR shall submit as many copies of the bills as may be required for the purpose of reference and record. The bill shall be carried forward from the previous running account bill as per the existing procedure.

# CONTRACTOR's Superintendence, Supervision, Technical Staff & Employees :

The CONTRACTOR shall provide all necessary superintendence during execution of the work and as long thereafter as may be necessary for proper fulfilling of the obligations under the contract.

The CONTRACTOR shall immediately after receiving letter of acceptance of the tender and before commencement of the work, intimate in writing to the Engineer-in-Charge the name(s), qualifications, experience, age, address(s) and other particulars along with certificates, of the principal technical representative to be in charge of the work and other technical representative(s) who will be supervising the work. The Engineer-in-Charge shall within 3 days of receipt of such communication, intimate in writing his approval or otherwise of such representative(s) to the CONTRACTOR. Any such approval may at any time be withdrawn and in case of such a withdrawal, the CONTRACTOR shall appoint another such representative(s) according to the provisions of this clause. Decision of the tender accepting authority shall be final and binding on the CONTRACTOR in this respect. Such a principal technical representative and other technical representative(s) shall be appointed by the CONTRACTOR soon after receipt of the approval from Engineer-in-Charge and shall be available at site before start of work.

All the provisions applicable to the principal technical representative under the Clause will also be applicable to other technical representative(s). The principal technical representative and other technical representative(s) shall be present at the site of work for supervision at all time when any contractual activity is in progress and also present himself /themselves, as required, to the Engineerin-Charge and/or his designated representative to take instructions. Instructions
other principal technical representative and given to the technical representative(s) shall deemed to have the same force as if these for have been given of the CONTRACTOR. The principal technical representative(s) and other representatives shall be actually available fully during all stages of execution of work recording/checking/ test checking of measurement of work and wherever so required by Engineer-in-Charge and shall also note instructions conveyed by the Engineer-in-Charge or his designated representative(s) in the order book and shall affix his/their signature in token of noting down the instructions and in of acceptance of measurements/ checked measurements/test checked measurements. The representative(s) shall not look after other work. Substitutes, duly approved by Engineer-in-Charge of the work in the manner as aforesaid shall be provided for absence of any of the representation for more than two days.

If the Engineer-in-Charge, whose decision in this respect is final and binding on the CONTRACTOR, is convinced that no such technical representation is/are effectively appointed or is/are effectively attending or fulfilling the provision of this clause, a recovery (non-refundable) shall be effected from the CONTRACTOR @ Rs.500/day of his absence and the decision of the Engineer-in-Charge as recorded in the "site order book" and measurements checked/test checked in Measurement books shall be final and binding on the CONTRACTOR. Further if the CONTRACTOR fails to appoint suitable Principal technical representative and other technical representative(s) or if such appointed persons are not effectively present or absent by more than two days without duly approved substitute or do not discharge their responsibility satisfactorily, the Engineer-in-Charge shall have powers to suspend the execution of the work until such date as suitable other representative(s) is/are appointed and the CONTRACTOR shall be held responsible for the delay so caused to the work. The CONTRACTOR should submit a certificate of employment of the technical representatives(s) and shall produce evidence if any time required by the Engineer-in-Charge.

# ADDITIONAL CONDITIONS

- 1. The CONTRACTOR shall make arrangement for obtaining electric connections if required and make necessary payments for the same as per rules
- 2. Other agencies doing works related with this project will also simultaneously execute the works and the CONTRACTOR shall afford necessary facilities for the same. The CONTRACTOR shall leave such necessary holes, openings etc, for laying/burying in the work of pipes, cable, conduits, clamps, boxes and hooks for fan clamps etc. as may be required for other agencies. Conduits for electrical wiring/cables will be laid in a way that they leave enough space for concreting and do not adversely affect the structural members. Nothing extra over the agreement rates shall be paid for the same.
- 3. (a) The building work will be carried out in the manner complying in all respects with the requirements of relevant bye-laws of the authorities under the jurisdiction of which the work is to be executed or as directed by the Engineer-in-Charge and nothing extra will be paid of this account.

(b) The work of water supply, internal sanitary installations and drainage work etc. shall be carried out as per the existing regulations and the CONTRACTOR shall produce necessary completion certificate from such authorities after completion of the work, if required.

(c) Water tanks, taps sanitary, water supply and drainage pipes, fitting and accessories should conform to specifications. The CONTRACTOR should engage <u>licensed plumbers</u> for the work and get the materials (fixtures/fittings) tested if required, by the authorities wherever required at his own cost.

- 4. The CONTRACTOR shall give a performance test of the installation(s) as per standing specification, before the work is finally accepted and nothing extra whatsoever shall be payable to the CONTRACTOR for the test.
- 5. Any cement slurry added over base surface (or) for continuation of concreting for better bond is deemed to have been in built in the items and nothing extra shall be payable or extra cement considered in consumption on this account.
- 6. The CONTRACTOR shall furnish along with the tender his proposed methodology and programme of construction in comprehensive manner of executing and completing the work with in the stipulated period. The programme shall consist of the various components for each part of the work stipulated to be completed and a bar chart may be submitted in this connection.
- 7. The CONTRACTOR shall take instructions from the Engineer-in-Charge for stacking of materials in any place. No excavated earth or building materials shall be stacked on areas where other buildings, roads, services compound walls are to be constructed.
- 8. Construction labour shall not be permitted (except staff for watch and ward if permitted) to stay inside the campus. The CONTRACTOR has to arrange for necessary photo identity passes for the labour for entry in to the campus. The labour movement should be restricted to the areas where work is carried out.
- 9. Royalty at the prevalent rates shall have to be paid by the CONTRACTOR on all the metals, shingles, sand, earth etc., collected by him for the execution of the work direct to the Revenue authority or authorized agent of the State Government concerned.
- 10. The CONTRACTOR should construct proper mortar bands of lean mix for flooding with water & proper curing. In case of columns wet gunny bags shall be used for a period of two weeks.
- 11. Tenderers are advised to study the drawing before tendering.
- 12. Sample of all materials, fixtures, fittings like flooring tiles, wall tiles, doors, windows, sanitary fittings, roofing sheets etc, shall be got approved in advance from the Engineer-in-Charge before taking up the work.
- 13. The contractor should engage at his own cost atleast a diploma holder (Civil Engineering) for the proper execution and supervision of work costing upto 20 Lakh and one Engineering graduate and one diploma holder (Civil) for works costing above 20 Lakh and one Engineering graduate and two diploma holder for

Pre-Qualification works and sufficient no. of skilled and unskilled labour according to the tenure of contract.

# **TESTING OF MATERIAL**

The CONTRACTOR shall produce all the materials in advance so that there is sufficient time for testing and approving the material and clearance of the same before use at works. The contractor should arrange for the mandatory tests and the cost of the same has to be borne by him

**Pre-cast concrete cobbles for floor:** Concrete cobbles to be used in flooring shall be of hard, made out of 1:2:4 mix.

# Progress Reports to be submitted by the CONTRACTOR

The CONTRACTOR shall submit weekly progress report of the work in a computerized form. The progress report shall contain the following.

- 1. Project information giving the broad features of the contract.
- 2. Introduction, giving a brief scope of the work under the contract and the broad structural or other details.
- 3. Construction schedule of the various components of the work through bar chart, showing the milestone targeted tasks and up to date progress.
- 4. Progress chart of the various components of the work through that are planned and achieved for the week as well as cumulative up to month with reasons for deviations, if any, in a tabular format.
- 5. Plant and machinery statement, indicating those deployed in the work , and their working status.
- 6. Man power statement, indicating individually the names of all the staff deployed in the work along with their designations.
- 7. Financial statement, indicating the broad details of all the running account payments received up to date, such as gross value of work done. Advances taken, recoveries affected, amounts withheld, net payments, details of Cheque payments received, etc.
- 8. A statement showing the extra and substituted items submitted by the CONTRACTOR and the payments received against them, items pending for sanctions /decisions by the Owner, broad details of the bank guarantees, indicating their validity period, board details of the insurance policies taken by the CONTRACTOR, if any, advances received and adjusted from the department etc.
- 9. Necessary photographs to be taken in colour of the various items / components of the work done up to date to indicate visually the actual progress of the work.
- 10. Quality assurance and quality control tests are to be conducted during the week with results thereof.
- 11. Other details asked for by the Engineer in charge.

The CONTRACTOR has to furnish weekly progress report, both physical and financial, as per proforma given below;

# **PHYSICAL**

SL.no	Name of Item	Quantity as per Agreement	Quantity executed during the week	Total up to date quantity executed	Anticipated balance quantity
1	2	3	4	5	6

# FINANCIAL

Total tendered amount		Total amount of work done up to date	
7	8	9	10

The CONTRACTOR has to submit the progress report to the Engineer in-charge in triplicate by the first working day of every week as per the above proforma along with photographs of the work done during that week.

# SPECIAL CONDITIONS

- 1. No plot rent shall be charged for materials stocked in the specified land during the course of construction with the prior approval the Engineer provided all such materials are removed after the works are completed.
- 2. Royalty or charges due for use of private quarries and private land shall be paid by the CONTRACTOR.
- 3. No labour camps shall be permitted in side the Site. Workers should be made to confine themselves to the work areas and should not wander in to the near by areas / buildings/ forests.
- 4. If night work is required to be carried out to fulfill the agreed rate of progress, all arrangement shall be made by the CONTRACTOR inclusive of lighting the area, necessary charges has to be paid to the concerned authority for power utilization and necessary safety measures are taken.
- 5. The works shall be carried as per specifications and as per best Engineering practice.

- 6. No variations from, additions to and omissions from in the items of work shall vitiate the contract. All such variations, additions, substitutions etc shall be decided as per the terms of the contract agreement.
- 7. Child Labour is strictly prohibited in the work.

#### 8. Water and Electricity:

The Contractor shall have to make his own arrangement at his own cost for adequate supply of water and for electric power that may be required for in connection with the works.

- 9. The work shall be carried out with least hindrance to the adjoining building and offices and the CONTRACTORs will be responsible for any damages, caused to the existing fixtures, electric fitting, etc. in the course of execution and the CONTRACTOR shall make good any such, damages without any claim for extra.
- 10. The debris / construction waste and other waste generated from the work spot should not be thrown inside the site. All waste material should be taken out of the site and disposed off by the contractor without any complaints from local bodies or public.
- 11.All construction material should be stored only at places earmarked by the Engineer in charge. Material like cement, aggregate, steel etc should not be stored in buildings that are in use. If any material stored in un-authorized location the same shall got removed at the cost of CONTRACTOR.
- 12. Preparation of concrete, mortars in the roads, pavements etc is strictly prohibited.
- 13. The useful vegetation inside the campus should not be damaged.
- 14. Drinking water requirement of the labour should be arranged by the CONTRACTOR.
- 15. The labours should be instructed not to misuse any facilities available in the various buildings.
- 16. While transporting the materials along the road, spillage of material should be avoided. If any spillage occurs the same should be got cleaned immediately without waiting for any notice from the department.

Any violation of above will attract levy of compensation on the CONTRACTOR.

#### Sub-Contractor's conditions:

#### Subcontracting:

It is preferred for the contractor not to engage in sub-contracting or subletting the work to others. In any case or so subcontracting may be allowed prior to the condition that the profile as well as the credibility of the contractor should be approved by the Architect, the Client and the project in-charge.

The client will have no direct or indirect financial dealings or commitments with the subcontractor. Moreover the sub-contractor should abide with the technical instructions issued by the Architect/Consultant/Engineer-in-charge. The Principal contractor will be completely be responsible for any technical anomalies or deviations in the work executed.

#### Special conditions for Safety at the Site

- 1. No workmen below 18 years and above 70 years of age shall be engaged for a job at the site. Sick and unhealthy persons should not to be engaged.
- All the workmen shall undergo Safety Induction, screening before engaging them on the job. Physical fitness of the person to certain critical jobs like working at height or other dangerous locations to be ensured before engaging the person on work.
- 3. Smoking and drinking of Alcohol are strictly prohibited at the workplace.
- 4. Sub-contractors shall ensure adequate supervision at workplace. They shall ensure that all persons working under them shall not create any hazard to self or to co-workers. Details of Sub –Contractors engaged shall be intimated to the Director/ Project Director/Engineer-in-charge in writing.
- 5. Nobody is allowed to work without wearing safety helmet. Chinstrap of safety helmet shall be always on.
- 6. No one is allowed to work at or more than three meters height without wearing safety belt and anchoring the lanyard of safety belt to firm support preferably at shoulder level.
- 7. No one is allowed to enter into workplace and work at site without adequate foot protection.
- 8. Usage of eye protection equipment shall be ensured when workmen are engaged for grinding, chipping, welding and gas-cutting. For other jobs as and when site safety co-coordinator insists eye protection has to be provided.
- 9. All excavated pits shall be barricaded & barricading to be maintained till the backfilling is done. Safe approach to be ensured into every excavation.
- 10. Adequate illumination at workplace shall be ensured before starting the job at night.
- 11. All the dangerous moving parts of the portable / fixed machinery being used shall be adequately guarded.
- 12. Ladders being used at site shall be adequately secured at bottom and top. Ladders shall not be used as work platforms.
- 13. Erection zone and dismantling zone shall be barricaded and nobody will be allowed to stand under suspended loads.
- 14. Contractor should spray water using Water sprayer periodically in the site to reduce the dust arising due to wind.

- 15. Horseplay is completely prohibited at workplace. Running at the site is completely prohibited, except in the case of emergency.
- 16. Material shall not be thrown from the height. The area shall be barricaded if required and one person shall be posted outside the barricading for preventing the tress-passers from entering the area.
- 17. Other than electricians with red helmet no one is allowed to carry out electrical connections, repairs on electrical equipment or other jobs related thereto.
- 18. All electrical connections shall be made using 3 or 4 core cables, having a earth wire.
- 19. Proper Earthling pits at site to be constructed. And the sensitivity must be maintained less than 1 ohm.
- 20. Main panel boards should have MCB's and RCCB / ELCB's (30 mA sensitivity).
- 21. Inserting of bare wires for tapping the power from electrical sockets is completely prohibited.
- 22. All major, minor accidents in the premises and to be recorded and reported to the Engineer- in- charge and the Owner
- 23. Scaffoldings used should be of proper construction. No inferior quality Casuarinas pole / bamboo scaffolding is permitted. It should be inspected by competent person(s) before use/concreting.
- 24. All tools and tackles shall be inspected before use. Defects to be rectified immediately. No lifting tackle to be used unless it is certified by the competent authority.
- 25. Good housekeeping to be maintained. Passages shall not be blocked with materials. Materials like bricks shall not be stacked to the dangerous height at workplace.
- 26. Debris, scrap and other materials to be cleared from time to time from the workplace and at the time of closing of work everyday.
- 27. Adequate fire fighting equipment shall be made available at workplace and persons are to be trained in fire fighting techniques with the co-ordination of site safety coordinator.
- 28. All the unsafe conditions, unsafe acts identified by CONTRACTOR, reported by site supervisors and / or safety personnel to be corrected on priority basis.
- 29. No children shall be allowed to enter the workplace.
- 30. All the lifting tools and tackles shall be stored properly when not in use.
- 31. Clamps shall be used on Return cables to ensure proper earthing for welding works.

- 32. Return cables shall be used for earthing.
- 33. All the pressure gauges used in gas cutting apparatus shall be in good working condition.
- 34. Connectors and hose clamps are used for making welding hose connections.
- 35. Proper warning boards and caution notices to be displayed at required areas inside the site.
- 36. All underground cables for supplying construction power shall be routed using conduit pipes.
- 37. Tapping of power by cutting electric cables in between must be avoided. Proper junction boxes must be used.

#### Workmen's Insurance

Owner shall not be liable for any payment in respect of any damages or compensation payable according to law in respect or in consequence of any accident or injury or loss of life to any workman or other person in the employment of the CONTRACTOR or any sub-contractor. The CONTRACTOR shall insure against such liability with an insurer for sum of the established norms during the entire period till completion of work.

# Recovery from the CONTRACTOR

Without prejudice to the other rights of THE OWNER against the CONTRACTOR in respect of such default, HE OWNER shall be entitled to deduct from any sums payable to the CONTRACTOR the amount of any damages, compensation costs, charges and other expenses paid by the Owner and which are payable by the CONTRACTOR under this clause.

# Delay, Compensation for Delay and Extension of Time

Time is the essence of this contract and CONTRACTOR shall complete the Work in all respects as per the contract within the date/period of completion specified. Should the CONTRACTOR feel that he will not be able to complete the work in time, he may apply for extension of Time to the Owner along with reasons and justifications there to for delays, if any.

If the contractor fails to execute the work within agreed /extended period as per the specification agreed,THE OWNER will arrange the balance through other agencies at risk and cost of the contractor.

If in the opinion and absolute discretion of THE OWNER. whose decision shall be final, conclusive and binding, the work is delayed on account of valid reasons not within the control of the CONTRACTOR; THE OWNER shall make a fair and reasonable Extension of Time for completion of the Contract subject to agreement condition and supplemental agreement for the same to be executed. The CONTRACTOR shall not make any claim for compensation or damage in relation thereto.

# **Defect Liability Period**

The defect liability period shall be **36 months** after the date of issue of virtual completion certificate to the CONTRACTOR.

The CONTRACTOR shall be responsible to make good and remedy at his own expense any defects which may appear within the Defects Liability Period arising in the opinion of THE OWNER who shall be the final authority.

In case of default, THE OWNER may employ and pay other persons to amend and make good such defects and expenses consequent thereon or incidental thereto and shall be made good and borne by the CONTRACTOR and shall be recoverable from him.

# Arbitration

No arbitration of any disputes on contracts will be allowed under any circumstances.

# Law Governing the Contract

The Indian laws shall govern this contract for the time being in force.

#### ADDITIONAL CONDITIONS ADDITIONAL & PARTICULAR SPECIFICATIONS

#### GENERAL

The quoted rates for various items in the tender shall be inclusive of all the additional conditions and particular specifications and for adherence to all these conditions and specifications, no extra payment shall be made to the contractor. Any infringement and/or breach of these specification and condition(s) etc. shall render the contractor liable to action(s) under various clauses of the contract and such action stipulated in conditions therein.

- A ADDITIONAL CONDITIONS
- 1. The Contractor shall maintain safe custody of materials brought to the site. The Contractor shall also employ necessary watch and ward establishment for the work and other purposes as required at his own cost.
- 2. For Cement and Steel and other materials, as prescribed, the quantities brought at site shall be entered in the respective material accounts at site and shall be treated as issued for maintenance of daily consumption.
- 3. The procurement of Cement and Reinforcement Steel, and, their issue and consumption shall be governed as per conditions laid down hereunder.

#### 3.1. Cement

3.1.1. The contractor shall procure 43 grade (Conforming to IS: 8112) Ordinary Portland Cement, as required in the work, from reputed manufactures of cement, having a production-capacity of one million tonnes per annum or more, such as A.C.C. L&T, India Cements, Malabar Cement, and Cement Corporation of India etc. as approved

by Ministry of Industry. Government of India, and holding license to use ISI certification mark for their product whose name shall be got approved from Engineerin-Charge. Supply of cement shall be taken in 50 kg bags bearing manufacture's name and ISI marking. Samples of cement arranged by the contractor shall be taken by the Engineer-in-Charge and got tested in accordance with provisions of the relevant BIS codes. In case test results indicate that the cement arranged by the contractor does not conform to the relevant BIS codes, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a week's time of written order from the Engineer-in-Charge to do so.

- 3.1.2. The Cement shall be brought at site in bulk supply of approximately 20 tonnes or as decided by the Engineer-in-Charge.
- 3.1.3. The cement godown of the capacity to store about 500 bags of cement or as decided by the Engineer-in-Charge shall be constructed by the contractor at site of work for which no extra payment shall be made. The contractor shall facilitate the inspection of the cement godown by the Engineer-in-Charge or his authorised subordinate at any time.
- 3.1.4. The contractor shall supply free of charge the cement required for testing. The cost of tests shall be borne by the contractor/ Department in the manner indicated below:
  - i. By the contractor, if the results show that the cement does not conform to relevant BIS codes.
  - ii. By the Department, if the results show that the cement conforms to relevant BIS codes.
- 2.1.5 The cement should be stored safely without getting damaged. The owner is not responsible for any damaged clotting of cement.

#### 3.2. Steel

- 3.2.1. The contractor shall procure steel reinforcement bars conforming to relevant BIS codes from main producers like SAIL, TISCO, VSP, IISCO etc. as approved by the Ministry of Steel. In cases when the contractor is required to procure steel reinforcement bars conforming to relevant BIS codes from other than main producers such as secondary producers or having BIS License, can be done with prior approval of the Engineer-in-Charge. The procurement of TMT Bars conforming to relevant BIS codes shall be made from main producers and secondary producers having BIS License with prior approval of the Engineer-in-Charge. The contractor shall have to obtain and furnish test certificates to the Engineer-in-Charge. The contractor shall have to obtain and furnish test certificates to the Engineer-in-Charge in respect of all supplies of steel brought by him to the site of work. Samples shall also be taken and got tested by the Engineer-in-Charge as per the provisions in this regard in the relevant BIS codes. In case the test results indicate that the steel arranged by the contractor does not conform to BIS codes, the same shall stand rejected and shall be removed from the site of work within a weeks' time of written order from the Engineer-in-Charge to do so.
- 3.2.2. The steel reinforcement shall be brought to the site in quantity of lots as approved by the Engineer-In-Charge.
- 3.2.3. The steel reinforcements shall be stored by the contractor at site of work in such a way as to prevent distortion and corrosion and nothing extra shall be paid on this account. Bars of different sizes (diameters) and lengths shall be stored separately to facilitate easy counting and checking.

3.2.4. For steel procured from main producers, for checking nominal mass, tensile strength, bend test, etc. specimen of sufficient length shall be cut from each diameter of the bar at random at frequency not less than that specified below. In case of works costing more that 2 Crores and when the steel is procured from other than main producers, additional tests such as, retest, re-bend test, elongation test, proof stress may also be conducted

Size (Diameter) of	For consignment			
bar	Below 100 tonnes	Over 100 tonnes		
Under 10mm dia	One sample for each 25	One sample for each 40		
	tonnes or part thereof	Tonnes or part thereof		
10mm to 16mm dia	One sample for each 35			
	tonnes or part thereof	Tonnes or part thereof.		
Over 16mm dia	One sample for each 45			
	tonnes or part thereof.	Tonnes or part thereof.		

- 3.2.5. The contractor shall supply free of charge the steel bars required for testing. The cost of tests shall be borne by the contractor/ Department in the manner indicated below:
  - 1. By the contractor, if the results show that the steel does not conform to relevant BIS codes.
  - 2. By the Department, if the results show that the steel conforms to relevant BIS codes.
- 3.2.6. Coefficient of weight i.e. the weight per unit length of the steel procured by the contractor shall be ascertained at site before using it and certified by the Engineer-In-Charge. In case weight per unit length is beyond the rolling margin as laid down in the BIS: 1786, the steel will be rejected and shall be removed from the site of work within; a weeks' time from the date of written order from the Engineer-in-Charge to do so. In case weight per unit length is more than the standard coefficient of weight for the diameter, but is within the rolling margin, then the payment shall be made as per the standard weight per unit length, and, where the weight per unit length is lesser than the standard coefficient of weight for the diameter, but is within the rolling margin, the payment shall be restricted with respect to the actual weight per unit length of the diameter.
- 3.3. The standard sectional weights referred to in standard table in KPWD Data Book for Cement Mortar, Cement Concrete and RCC works, are to be considered for conversion of length of various sizes of Steel Reinforcement bars into weight.
- 3.4. The actual issue and consumption of steel and Cement on the work shall be regulated and proper accounts maintained.
- 3.5. Steel and Cement brought to site and remaining unused shall not be removed from site without the written permission of the Engineer-In-Charge.
- 4. No payment shall be made to the contractor for any damage caused during the execution of work because of cause(s) not covered. The damage to work will be made good by the contractor at his own cost, and no claim on this account shall be entertained.
- 5. Some restrictions may be imposed by the security staff etc. on the working and/ or movement of labour, materials etc. and the contractor shall be bound to follow all such restrictions/ instructions and nothing extra shall be payable on this account.
- 6. The contractor shall comply with proper and legal orders and directions of the local or public authority or municipality and abide by their rules and regulations and pay all fees and

charges which he may be liable and nothing extra shall be payable on this account. The work shall be carried out without infringing on any of the local Municipal Bye-Laws.

- 7. The contractors shall given a performance test of the entire installations as per standard specifications before the work is finally accepted and nothing extra what so ever shall be payable to the contractor for the tests.
- 8. The contractor shall engage licensed plumber for sanitary, water supply, drainage work and also get all the materials and system (including the materials supplied if any, by the department) tested by the Municipal Authority, Whenever required at his own cost including all testing fees, transport etc. according to Municipal by Laws. The contractor shall produce necessary certificate from the Municipal Authorities after completion of work. Nothing extra will be paid on this account. The Contractor shall execute the guarantee for removal of defects after completion in respect of water supply and sanitary installation.
- 9. The water supply sanitary installation and drainage work shall be carried out in a manner complying in all respects with the requirement of relevant by laws of the local municipal authority of the place at no extra cost of the department.
- 10. The rate for every item of work to be done under this contract shall be for all heights, depths, lengths and widths of the structure (except where specially mentioned in the item) and nothing extra will be paid on this account.
- 11. The contractor shall take all precautions to avoid all accidents by exhibiting necessary caution boards such as day and night boards, speed limit boards and flags, red lights and providing barriers etc. He shall be responsible for all damages and accidents caused due to negligence on his part. No hindrance shall be caused to traffic during the execution of work. No extra payment shall be paid on this account.
- 12. The contractor will work in close liaison, during the works, with other contractors of water supply, sanitary, drainage arrangements, electrical installation and any other works and adjust his work plan accordingly.

#### **B. ADDITIONAL SPECIFICATIONS**

- 1. GENERAL
  - 1.1.1. Should there be any difference between the specifications mentioned above and the specifications given in the schedule of quantities, the later shall prevail.
  - 1.1.2. If the specifications for any item are not available in the CPWD Specifications cited above, relevant BIS Specifications should be followed.
  - 1.1.3. In case BIS Specifications are also not available, the decision of Engineer-in-Charge given in writing based on acceptable good engineering practice and local usage shall be final and binding on the contractor.
  - 1.1.4 Articles classified as first quality by the manufacturer shall be used unless otherwise specified.
  - 1.1 The work will be carried out in accordance with the architectural drawings and structural drawings to be issued by the Engineer-in-Charge. The structural and architectural drawings shall have to be properly correlated before executing the work.

- 12.1 Incase of any difference noticed between Architectural and Structural drawings, the contractor shall obtain final decision in writing of the Engineer-in-Charge.
- 12.2 In case of any discrepancy in the item given in the schedule of quantities appended with the tender and architectural drawings relating to the relevant item, former shall prevail unless otherwise given in writing by the Engineer-in-Charge
- 1.2 For items where so desired, samples shall be prepared before starting the particular items of work for prior approval of the Engineer-in-Charge and no extra payment shall be made on this account.
- 1.3 Materials brought at site of work shall not be used in the work before getting satisfactory Mandatory test results. For details, relevant provisions in CPWD specification shall be referred to.
- 1.3.1 Wherever it is desired to procure factory-made materials, such factory-made materials shall be procured from reputed and approved manufacturers or through their authorized dealers. The contractor shall obtain the approval from the Engineer-in-Charge of such firms prior to procurement of such factory-made materials. The Engineer-in-charge may, at any stage, inspect such factories/ manufacturing units. The contractor shall have no claim if the factory made materials brought to the site are rejected by the Engineer-in-charge in part or in full due to bad workmanship/ quality etc. even after the inspection of the manufacturing units.
- 1.3.2 The manufactured materials brought at site of work shall, in general, conform to the relevant specifications. The source for supply of the manufactured materials shall be approved by the Engineer-in-charge. The contractor shall have no claim if the manufactured materials brought to the site are rejected by the Engineer-in-charge in part or in full due to bad workmanship/ quality etc.
- 1.3.3 The preference amongst the various alternative materials available shall be as follows.
  - (a) The materials shall be as per the Brand specified to be used in the work.
  - (b) If the Brand specified material is not available then the material shall be ISI marked.
  - (c) If ISI marked item is not available then it should be from ISO certified Company.
  - (d) If the ISI marked or ISO certified items are not available then the best available items in the market to be procured.
- 1.3.4 Equivalents for the various materials and the materials of approved make shall be got approved from the Engineer-in-Charge of work in writing before using them on the work.
- 1.3.5 The contractor shall maintain register for cement, paint and other registers as required by the Engineer-in –charge and those should be signed by the contractor or his authorised agents and the Asst. Engineer in charge of the work.

#### 2. The following modifications to the above specifications shall, however, apply.

#### 2.1 Earth Work

2.1.1 During excavation and trenching work etc., the contractors shall ensure compliance to the guidelines in such matters laid down by the local body / bodies to ensure that there is minimum hazard to the operating personnels and users, minimum inconvenience to

the users, minimized damage to the underground plant/services of other utilities in a coordinated way, in the interest of public convenience and overall safety.

- 2.1.2 Any trenching and digging for laying sewer lines/ water lines/ cables etc. shall be commenced by the contractor only when all men, machinery's and materials have been arranged and closing of the trench(s) thereafter shall be ensured within the least possible time.
- 2.1.3 Surplus excavated earth which is beyond the requirement of the CAPE shall have to be disposed of by the contractor beyond the municipal limits or at places identified by the local bodies or as directed by the Engineer-in-Charge after obtaining written permission of the Engineer-in-Charge for such disposal of this surplus excavated earth.
- 2.1.4 The contractor shall, at his own expense and without extra charges, make provision for all shoring, pumping, dredging or bailing out water, if necessary, irrespective of the source of water. The foundation trenches shall be kept free from water while all the works below Ground Level are in progress.

#### 2.2 Reinforced Cement Concrete Work & Plain Cement Concrete- General

- 2.2.1 **Stone Aggregate**. Stone aggregate to be used in the work shall be of hard broken stone to be obtained from source approved by Engineer-In-Charge and shall conform to the relevant provisions in the CPWD Specifications.
- 2.2.2 **Fine Sand / Coarse Sand**: Fine sand / Coarse sand to be used in the work shall be obtained from sources approved by Engineer-In-Charge and shall conform to the relevant provisions in the CPWD Specifications.
- 2.2.2.1 Where only one variety of sand is available, the sand will be sieved for use in finishing work to achieve the required particle size distribution as per CPWD Specifications in order to obtain smooth surface and nothing extra shall be paid to the contractor on this account.
- 2.2.3 Water: It shall conform to requirements laid down in IS: 456-2000
- 2.3 **R. C. C. work (Design Mix Concrete) -** Wherever the RCC work is specified to be done with Design Mix Concrete, the particular specifications, as applicable, shall apply.
- 2.4 R.C.C.Work (Nominal mix concrete)- Water-Cement Ratio: For RCC Works, wherever nominal mix of concrete is stipulated in the items for work, for maintaining proper quality and durability requirements of the structure, maximum water-cement ratio shall be restricted to 0.55. If in normal course of work, the required workability is not achieved; suitable plasticizers/ admixtures may be used for improving the workability of concrete with the approval of Engineer-in-Charge for which nothing extra shall be paid.
- 2.5 Centering and Shuttering for R.C.C Work: The concrete surface shall be free from honey combing, offsets, superfluous mortar, cement slurry and foreign matter. The formwork shall be assembled in such a way as to facilitate removal of their parts in proper sequence without any damage to the exposed cement concrete surfaces and corners etc. The contractor shall keep skilled staff for special care and supervision to check the formwork and concreting so that every member is made true to its size, shape, level and alignment so that it does not result in any deformation, snug, bulges etc. The contractor shall also take suitable precautionary measure to prevent breaking and chipping of corners and edges of completed work until the building is handed over. The size of shuttering plates for slabs shall not be less than 0.6mx0.9m in general. However, contractor has to provide tape or wooden fillets or rubber gaskets to seal the joint properly to get smooth

surface. Further shuttering shall be of such quality that there are no undulations and surfaces will be fairly even and no extra thick ceiling plaster shall be permitted to make the surface even. Any honey-combed or poorly formed concrete shall be repaired with polymer concrete of any suitable design by the Contractor at his own cost.

- 2.6 **BRICK WORK**: Bricks used in the work shall be of class designation specified to be obtained from kilns approved by Engineer-In-Charge. In all other respects they shall conform to the provisions in CPWD specifications.
- 2.7 **STONE WORK**: Stone used for stone masonry work shall be hard granite/ basalt/ quartz stone/sand stone to be obtained from quarries approved by Engineer-In-Charge and shall conform to the relevant provision in the CPWD specifications.
- 2.8 All above materials like stone aggregates, coarse sand, fine sand, Bricks, Surkhi, Stone etc. confirming to the CPWD specifications to be brought from the sources approved by Engineer-In-Charge. In case, at any stage during execution of work, the material from the approved source being not available or otherwise, and, is required to be arranged from other sources conforming to relevant CPWD specifications and duly approved of Engineer-in-charge, involving extra lead etc. no extra payment made shall be on this account.
- 2.9 **WOOD WORK:** Timber required for manufacture of chowkhats and shutters for doors, windows, ventilators, and partitions etc. in the work shall be kiln seasoned and preservative treated. The Timber shall be kiln seasoned before applying preservative treatment. The rate quoted for various items shall be inclusive of kiln-seasoning and preservative treatment of wood. The wood used in the work shall conform to the provisions in the CPWD Specifications
- 2.10 **STEEL WORK:-** All steel doors, steel windows, steel ventilators, wire gauge, steel glazing, steel grill shall be according to the Architect's detailed drawings and factory made and obtained from approved suppliers.
- 2.10.1 In the case of composite steel windows the rates shall include the cost of coupling mullion and transom etc. Where windows with inside open able shutters are fixed along-with windows with shutters openable outside, such inside openable windows shall be fitted with suitable friction hinges and openable outside with box type hinges, lever handles or otherwise as approved by the Engineer-in-Charge of the work. For such windows, cement concrete blocks of size 15cmx 10cmx 10cm shall be provided.
- 2.10.2 In the case of steel windows and doors, steel glazing, wire gauge steel ventilators, rolling shutters, grills etc. an approved quality-priming coat of zinc chromate shall be applied over and above shop coat of primer. No extra payment shall be made for providing shop-coat primer.

#### 2.11 Sanitary and Water supply installations

The contractor shall engage licensed plumber for sanitary, water supply, drainage work and shall be carried out in a manner complying in all respects with the requirement of relevant by rules of the local municipal authority. The Contractor shall give a guarantee to the effect that the work shall remain structurally stable and shall guarantee against faulty workmanship, finishing, manufacturing defects of materials and leakages etc.

- 2.12 **Approval of sample work** of repetitive/ typical nature prior to general execution of work shall be as enumerated hereafter.
  - 2.12.1.1 Samples of typical portion of the works of repetitive nature such as typical room, toilet room, or any other work shall be prepared by the contractor

under the directions and to the satisfaction of Engineer-in-Charge and got approved from him in writing before the commencement of these items for the entire work.

- 2.12.1.2 The work shall be so arranged to be carried out that the requirement for preparation of samples are observed and fulfilled without any detriment to the general progress of work. In other words, this will not be allowed to have any effect on the general progress of work or on any of the terms and conditions of the contract. No claims of any kind whatsoever including the claim of extension of time will be entertained due to the incorporation of this requirement.
- **2.13. Measurement:-** As per KPWD norms.
- 2.14. Tolerance:- As per KPWD norms
- **2.15. Rate:-** The rate includes the cost of materials and labour involved in all the operations described above including the cost of centering, shuttering curing, placing and fixing in position which are not specially mentioned

# TO BE TYPED IN RS. 200/- KERALA STAMP PAPER

# FORM OF PRELIMINARY AGREEMENT

(Hereinafter called the 'Contractor') of the other part for the execution of the agreement as well as for the execution of the work of "Construction of Academic and Administrative blocks at College of Engineering, Aranmula -Phase II" WHEREAS, The Director, CAPE invited tenders for work of "Construction of Academic and Administrative blocks at College of Engineering, Aranmula Phase II" vide notification No. W-PQ/03//2015-16/CAPE dated 08.02.2016

Before commencing work or within 20 days after the date when the acceptance of the tender has been intimated to him, the tenderer shall furnish a sum calculated at 5 percent of the contract value as security deposit (Performance Guarantee) for the proper fulfillment of the same and shall execute an agreement for the work. If he fails to do this or in the case of contracts maintain a specified rate of progress to be specified in each case in the tender schedule, the earnest money and security deposit shall be forfeited to CAPE and fresh tenders shall be called for or the matter otherwise deposed off. It, as a result of such measures due to the default of the tenderer pay the requisite deposit, sign contracts or take possession of the work, any loss to the client, results the same will be recovered from him as arrears of revenue, but should it be a saving to CAPE, the original Contractor shall have no claim whatever to the difference. Recoveries on this or any other subsisting contracts or under the Revenue Recovery Act, or otherwise the client may decide.

NOW THEREFORE THESE PRESENTS WITNESS and it is mutually agrees as follows: -

1. The terms and conditions for the said contract having been stipulated in the said tender form to which the contractor agreed a copy of which is hereto appended which C ontractor:

forms part of this agreement, it is agreed that the terms and conditions stipulated therein shall bind the parties to this agreement except to the extent to which they are abrogated or altered by express terms and conditions herein agreed to and in which respect the express provisions herein shall supersede those of the said tender form.

- 2. The contractor hereby agreed and undertake to perform and fulfill all the operations and obligations connected with the execution of the said contract work viz. work of "Construction of Academic and Administrative blocks at College of Engineering, Aranmula -Phase II" if awarded, in favour of the contractor.
- 3. If the contractor does not come forward to execute the original agreement after the said work is awarded and selection notice issued in his favour or commits breach of any of the conditions of the contract as stipulated in the tender as quoted above within the period stipulated therein, the client may re-arrange the work otherwise or get it done by the Company at the risk and cost of the Contractor and the loss so sustained by the client can be realized from the Contractor under the Revenue Recovery Act as if arrears of land revenue as assessed, quantified and fixed by an adjudicating authority authorized by client in this behalf taking into consideration the prevailing rates and after giving arrears due not to the contractor. The decisions taken by such authority, Officer, or officers shall be final and conclusive and shall be binding. on the contractor
- 3. The contractor further agrees that any amount found due to the client under or by virtue of this agreement shall be recoverable from the contractor from his EMD and his properties, movable or immovable as arrears of land revenue under the provisions of the Revenue Recovery Act for the time being in force or in any other manner as the client may deem fit in this regard.

IN WITNESS WHEREOF Sri....., Director, CAPE for and on behalf of CAPE and Sri ..... the contractor has set their hands on the day and year first above written.

Signed by..... (

presence of witnesses:-

C ontractor:

) in the

2. Signed and delivered by Sri
Cionad and delivered by Cri
Signed and delivered by Sri the Contractor in the presence of witnesses:-

1.

2.

# **TENDER SCHEDULE**

# Name of work: Construction of Academic and Administrative blocks at College of Engineering, Aranmula -Phase II

# QUOTED RATE OF THE CONTRACTOR

I/We agree to undertake to execute the work

# 1. At Estimate rate

2	 %	below
estimate rates		
3	 %	above

estimate rates

Note: Score out which is not applicable

The rates should be quoted in words and figures

Signature of Tenderer

(Name, Title and position) Address

Date