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**TCMPF LIMITED**

**"AAVIN ILLAM"**

**3A-Muthuramalinganar Salai,  
NANDANAM, CHENNAI - 35.**

TWO PART TENDER

PART - A

TECHNICAL BID

**CONSTRUCTION OF ADMINISTRATIVE OFFICE BUILDING AT  
THIRUVANNAMALAI DCMPU LTD**

THE TAMILNADU COOPERATIVE MILK PRODUCERS' FEDERATION LIMITED,  
AAVIN ILLAM, 3A-MUTHURAMALINGANAR SALAI,  
NANDANAM,  
CHENNAI – 600 035.

Signature of the Tenderer



**TAMILNADU MILK PRODUCERS FEDERATION LIMITED**

**AAVIN ILLAM, NO.3A,PASUMPON MUTHURAMALINGANAR SALAI,NANDANAM,CHENNAI - 35.**

**Ref No:8336/Engg.3/2020**

The Programme for the issue, receipt and opening of bids would be as under:

1	NAME OF WORK	<b>CONSTRUCTION OF ADMINISTRATIVE OFFICE BUILDING AT THIRUVANNAMALAI DCMPU LTD</b>
2	FORM OF CONTRACT	Lumpsum
3	ESTIMATED VALUE OF WORK PUT TO TENDER	<b>Rs.90.74 Lakhs</b> (including GST @ 18%)
4	COST OF TENDER DOCUMENT	: <b>Rs.1,180/-</b>  in the form of DD in favour of " <b>The Managing Director, TCMFP Limited,</b> " Payable at Chennai-35.(Non refundable).
5	EARNEST MONEY DEPOSIT	: <b>Rs.90,800/-</b>  in the form of DD in favour of " <b>The Managing Director, TCMFP Limited,</b> " Payable at Chennai-35.
6	SALE OF TENDER DOCUMENT	: <b>07.04.2022 to 27.04.2022 from 11.00 AM to 3.00 PM.</b> Tender documents will not be sent by post.
7	Tender documents available with	: <b>O/o the Managing Director,</b> TCMFP Ltd, Aavin illam, No.3A Pasumpon muthuramalinganar salai,Nandanam, Chennai-35.
8	LAST DATE & TIME OF RECEIPT OF TENDER (BOTH TECHNICAL & COMMERCIAL BIDS)	: <b>28.04.2022 upto 3.00 PM</b> Tender document will also be available for e-submission on website <a href="http://www.tntenders.gov.in">www.tntenders.gov.in</a> and the bidders can also participate in the tender through online.
9	DATE & TIME OF OPENING OF TECHNICAL BID	: <b>28.04.2022 at 3.30 PM</b>

Signature of the Tenderer

10	VENUE, DATE AND TIME OF OPENING OF BIDS	:	TCMPF Ltd, "Aavin illam", No.3A Pasumpon muthuramalinganar salai, Nandanam, Chennai-35.
11	DATE & TIME OF OPENING OF COMMERCIAL BID	:	After scrutiny of technical bid with prior individual information.
12	PROJECT COMPLETION PERIOD	:	<b>5 MONTHS</b>
13	QUALIFICATION CRITERIA	:	Refer the tender document of the work.
14	VALIDITY OF TENDER	:	<b>120 Days</b> from the date of opening of the tender.
15	SECURITY DEPOSIT	:	2% of accepted Value of the contract less EMD in the form of D.D in favour of " <b>The Managing Director, TCMPF Limited,</b> " Payable at Chennai-35.
16	ADDITIONAL SECURITY DEPOSIT	:	<b>A.5 to 15 %less tender:</b> 2% of Estimated value put to tender. <b>B.More than 15% to 20% less tenders:</b> 50% of the difference Estimated Value over accepted Tender Value.  <b>Shall be in the form of D.D</b> in favour of " <b>The Managing Director, TCMPF Limited,</b> " Payable at Chennai-35.

Signature of the Tenderer

ISSUE LETTER FOR TENDER DOCUMENT  
PART –A,  
TECHNICAL BID

This Two Part Tender document set containing Part – A Technical Bid and Drawings:

Issued to:

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The fee for this set of Tender document is Rs. ....

Sale of Tender Document Vide Receipt No. ....

Dated: .....

For and on behalf of

The Tamilnadu Coop Milk Producers' Federation Limited,  
'Aavin Illam', 3A - Muthuramalinganar Road,  
Nandanam,Chennai-35

ISSUED BY;

Deputy General Manager (Civil),  
T C M P F Limited  
Aavin Illam,Nandanam

Signature of the Tenderer

**TWO PART TENDER APPLICATION**

From

To

The Managing Director,  
TCMPF Limited, Aavin Illam,  
3A - Muthuramalinganar Road,  
Nandanam,  
Chennai 600035.

Sir

Sub: Two-part tender for "**CONSTRUCTION OF ADMINISTRATIVE  
OFFICE BUILDING AT THIRUVANNAMALAI DCMPU LTD**" -  
Submission of documents - reg.

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Having examined the TWO PART TENDER documents consisting of PART - A pertaining to PRE-QUALIFICATION /TECHNICAL BID and PART - B COMMERCIAL BID with price quote, I / We hereby submit all the necessary documents and relevant information for bidding the above mentioned tender.

The application is made by me / us on behalf of \_\_\_\_\_  
in the capacity of \_\_\_\_\_ duly authorized to submit this two part tender offer.

Necessary evidence admissible in law in respect of authority assigned to me on behalf of the bidding firm is herewith attached.

I / We submit the documents herewith taking into consideration of all the instructions, terms and conditions in the detailed two part tender notice.

I / We understand that the Managing Director, TCMPF, Chennai-35 reserves the right to reject any tender offer without assigning any reasons thereof.

I / We hereby agree to hold the tender offer valid for acceptance for a period of  
**120 days from the date of opening of the PART - A TECHNICAL BID.**

Signature of the Applicant  
including title capacity

Name (IN BLOCK LETTERS)

Enclosures:

1. Evidence of authority to sign
2. Latest brochures if any
3. Part - A Pre-qualification / Technical bid in separate sealed cover  
Part - B Commercial bid with price quote in separate sealed cover.

Signature of the Tenderer

**1.MINIMUM CRITERIA FOR PRE - QUALIFICATION.**

**1.CRITERIA - I:**

Tenderer Should furnish **EMD** amount of **Rs.90,800/- (Rupees Ninety thousand and eight hundred only)** to be drawn by means of Bank Demand Draft from any nationalized or scheduled Bank drawn in favour of "**The Managing Director, TCMPF Limited,**" Payable at Chennai-35. IT SHALL BE ENCLOSED WITH THE PART-A. TECHNICAL BID ONLY. No other form of remittance shall be accepted . No exemption allowed.

**2.CRITERIA -II:**

The Tenderer in the same "**NAME**" and "**STYLE**" should have been in the Civil Contract field.

**EVIDENCE TO BE PRODUCED:-**

- I). Audited Balance sheet with Chartered Accountant's Certificate for the past "**Three years**" in the case of individual Contractors, Partnership firms, Public / Private Limited Companies.
- II). Registered Partnership Deed in the case of Partnerahip Firms.
- III) Articles of Agreement and Memorandum of Association registered with Registrar of Companies as per 'Company Act' in the case of Public / Private Limited Companies.

**3.CRITERIA - III**

The Tenderer should be Registered as **Class-IV** State level Contractor of PWD/Highways / Any Department Government of Tamil Nadu/Central Government Department/ Central / State Government undertaking with monetary limit for taking up of works from **Rs.50 Lakhs to Rs.2.00 crores**. As per G.O(Ms) No:195 of PWD(G2), dt 14.12.2021.

**EVIDENCE TO BE PRODUCED:-**

- I) Attested true copy of the communication issued by the Registering Authority, Registering the name of the **Tenderer as Class-IV Contractor or Appropriate official notification as applicable.**
- II) Copy of "**Live Certificate**" issued by the Registering Authority shall be enclosed or in case of Trust/Foundation Appropriate official notification as applicable.

Signature of the Tenderer

**4.CRITERIA -IV**

The Tenderer should produce **GST Registration Certificate** and GST Verification Certificate valid for the current period.

**EVIDENCE TO BE PRODUCED:-**

- i) Attested true copy of the Registration Certificate showing the GST Number assigned by the Commercial Tax Department issued by the Competent State / Central Commercial Tax Department Officials, valid for the current period.
- ii) Attested true copy of the GST Verification Certificate issued by the Competent State / Central Government Commercial Tax Department.

**5.CRITERIA -V**

The Tenderer should produce **EPF Registration Certificate** valid for the current period.

**EVIDENCE TO BE PRODUCED:-**

- i) Attested true copy of the Registration Certificate showing the EPF Number assigned by the Provident fund Department issued by the Competent State / Central Provident fund Department Officials, valid for the current period.

**6.CRITERIA VI**

The Tenderer should produce **ESI Registration Certificate** valid for the current period.

**EVIDENCE TO BE PRODUCED.**

- i) Attested true copy of the Registration Certificate showing the ESI Number assigned by the Employee State Insurance Department issued by the Competent State / Central Employee State Insurance Officials, valid for the current period.

**7.CRITERIA VII**

The tenderer should furnish **average annual sales turnover** for the last 3(Three) financial years which shall not be less than the tender value of contract in the same name & style and minimum annual sales turnover in last Three years shall not be **less than 50%** of the tender value of contract duly certified by the Chartered Accountant.

Signature of the Tenderer

**EVIDENCE TO BE PRODUCED:-**

- I) Audited Balance Sheet, Profit and Loss Account, etc, clearly showing the Contract Amount received for executing Civil Engineering works duly certified by the Chartered Accountant for the immediate past THREE" years.
- II) Income Tax Return filed (clearly showing the total contract amount received) for the preceding THREE' years.

**8.CRITERIA VIII :**

The tenderer should furnish **past experience certificate** (work completion certificate) for the **past Three financial years** clearly indicating department of work executed, period and value of work.

**EVIDENCE TO BE PRODUCED:-**

- I) Certificate issued by the Engineer-in-Charge - (Not below than rank of Executive Engineer / Project Engineer) or Authorized Official of Corporate Entity of the project clearly showing the following details.
  - a. Name of the Project
  - b. Location of the Project (Village / Town / Taluk / District / State)
  - c. Name / Designation of the Employer
  - d. Value of work (As per Agreement)
  - e. Agreement Number
  - f. Period of contract as stipulated in the Agreement
  - g. Date of commencement of the Project
  - h. Date of actual completion of the Project
  - i. Reasons for the delay in completion of the project, if any
  - j. Actual value of work done as per Final Bill
  - k. Quality of work executed.
  - i. Quantities of individual items of work actually executed.

Signature of the Tenderer



**9.CRITERIA -IX**

The tenderer should have completed **at least one building work** and the value should not be **less than 60 %** of the tender value for any one of the last 3 (Three) years.

**EVIDENCE TO BE PRODUCED:-**

**I)** Certificate issued by the Engineer-in-Charge - (Not below than rank of Executive Engineer / Project Engineer) or Authorized Official of Corporate Entity of the project clearly showing the following details.

- a. Name of the Project
- b. Location of the Project (Village / Town / Taluk / District / State)
- c. Name / Designation of the Employer
- d. Value of work (As per Agreement).
- e. Agreement Number
- f. Period of contract as stipulated in the Agreement
- g. Date of commencement of the Project
- h. Date of actual completion of the Project
- i. Reasons for the delay in completion of the project, if any
- j. Actual value of work done as per Final Bill
- k. Quality of work executed.
- l. Quantities of individual items of work actually executed.

**10.CRITERIA -X:**

The tenderer should have access or as **available liquid asset** (working capital, cash on hand) and / OR credit facility of **not less than 10%** of the contract value. Cash flow may be taken as 10% of the estimated value of contract.

**EVIDENCE TO BE PRODUCED:**

**I)** Certificate issued by the Chartered Accountant, not earlier than Seven Days from the date fixed for submission of tender, clearly showing the Cash on Hand and Cash with Banks.

**II)** Certificates issued by the Bank / Banks, not earlier than Fifteen Days from the date fixed for submission of tender, clearly showing the Cash Credit / Overdraft Facilities extended to the Tenderer, the Cash Credit / Overdraft Facilities availed as on the date of certificate by the Tenderer and the balance Cash Credit / Overdraft Facilities remaining in the Accounts of the Tenderer as on the date of certificate.

Signature of the Tenderer

**11.CRITERIA -XI:**

The applicant shall have the following **minimum construction equipment's**, Tools and Plants exclusively available for this work - (Either own or under lease with the applicant)

| <b>Sl.No</b> | <b>Equipment</b>                             | <b>Qty</b> |
|--------------|----------------------------------------------|------------|
| 1            | Hydraulic Excavator (Pocklain/ JCB/ Hitachi) | 2 Nos      |
| 2            | Water Tank 4000 ltr. capacity                | 3 Nos      |
| 3            | Lorry / Tipper 8 to 10 ton Capacity          | 2 Nos      |
| 4            | Mixer Machine                                | 3 Nos      |
| 5            | Air Compressor                               | 2 Nos      |
| 6            | Concrete Vibrators                           | 3 Nos      |
| 7            | Centering Material                           | 3000 Sqm   |

**EVIDENCE TO BE PRODUCED:**

I) Attested Xerox copy of the RC Books for the Machineries mounted on Trucks, Lorries, Tippers, etc.

II) Certificate issued by the Chartered Accountant clearly stating the details of Machineries, Tools and Plants owned by the Tenderer with year of purchase, capacity, present working condition, etc.

III) If the Tools and Plants or Machineries are proposed to be taken on leasehold or already on leasehold with the Tenderer, the source from which the same have been taken on lease / proposed to be taken on lease along with attested true copy of the Lease Agreement, entered into, lease period, etc. should be furnished.

**12.CRITERIA -XII:**

The Tenderer should have executed **at least the following Quantities of items** of work mentioned below in single work for anyone of the last three years.

| <b>Sl.No</b> | <b>Description of Work</b>  | <b>Qty</b>          |
|--------------|-----------------------------|---------------------|
| 1.           | Brick work                  | 100 m <sup>3</sup>  |
| 2.           | Steel centering             | 580 m <sup>2</sup>  |
| 3.           | Reinforced Cement Concrete  | 80 m <sup>3</sup>   |
| 4.           | Plain cement concrete       | 35 m <sup>3</sup>   |
| 5.           | Reinforcement grills        | 75 Qtl              |
| 6.           | Plastering                  | 1100 m <sup>2</sup> |
| 7.           | Floor & wall tile works     | 200 m <sup>2</sup>  |
| 8.           | MS powder coated roof works | 180 Sqm             |
| 9.           | MS truss works              | 1400 Kg             |

Signature of the Tenderer

**EVIDENCE TO BE PRODUCED:**

I) Certificate issued by the Engineer-in-Charge (not below rank of

Executive Engineer or Project Engineer) or Authorized official of corporate entity clearly showing the quantities of various items of work as detailed below:

- a. Name of the Project
- b. Value of the Project
- c. Agreement Number
- d. Period of execution from..... to .....
- e. Quantities of work executed year wise.

**NOTE:**

Support of their Technical Qualifications should be produced. Even though the applicants meet the above criteria, they are subject to disqualification, if they have :-

**A.** Made misleading or false representation in the form, statements and attachment submitted. and/or

**B.** Records of poor performance such as abandoning the work, rescinding of contract for which the reasons are attributed to the non performance of the contractor, consistent history of litigation awarded against the applicant or financial failure due to bankruptcy.

**General:-**

1. Copies of the documentary evidence in support qualification requirements should be submitted with due attestation by the competent authority.
2. The tenderers should furnish the original documents if called for at the time of tender evaluation to verify the copies of documentary evidence furnished along with the pre-qualification documents.
3. The audited balance sheet/profit and loss account etc., to be furnished by the tenderers should be properly endorsed by the auditors as "verified with reference to the particulars furnished by the individual and found to be correct".

Signature of the Tenderer

## 2. INSTRUCTIONS TO THE TENDERERS

### FORM OF CONTRACT: LUMP SUM AGREEMENT (ITEM RATE LUMP SUM AGREEMENT)

**2.1. INVITATION:** Sealed Tenders under Two Cover System are invited from eligible contractors on behalf of the Managing Director, TCM PF Limited, Chennai - 600 035.

This TWO PART TENDER document consists of:

Part - A - Pre - Qualifying Technical bid

Part- B - Commercial bid with price-quote schedules.

**2.2** Read all the terms and conditions of the TWO PART TENDER before you start filling up.

**2.3. PURPOSE OF PRE - QUALIFICATION:** The purpose of Pre Qualification of tenderers for this work, is to ensure that the tenderer eventually selected for participating in the price bid, possess requisite organizational, financial and technical capability to carry out this large magnitude project in a duration of **5 Months** (Including Monsoon Period).

**2.4.** Tenderers are to submit the original set of the TWO PART TENDER (both Part - A Technical Bid and Part - B Commercial Bid) duly filled in, attached with necessary documents.

**2.5** Two cover system shall be adopted. The first cover shall contain the "**Technical Bid**" and the Bid Security/EMD. The second cover shall contain the **Price Bid**. Both technical as well as price bids shall be filled in with relevant details and duly signed. The completed bid documents in separate sealed covers shall be submitted in a common sealed cover. The name and address of the tenderers should be indicated legibly on the front page. All the covers shall be sealed and super-scribed properly and the common cover containing the Technical Bid and Price Bid shall be addressed to **The Managing Director, TCM PF Ltd., Chennai-35**. The Cover-1 containing the Technical Bid will be opened on the date and time stipulated above.

**2.6** The Cover-II containing the **Price Bid** of the contractors/Firms whose credentials are decided as having satisfied the qualification/eligibility criteria as per bid documents will be followed strictly and will be opened in another day. The date and time scheduled for opening of price bid will be intimated to the Bidders at later date, for those who qualify in Technical Bid. The tender will be opened by the Committee on the date and time stipulated above. If the last date of receipt of tender happens to be a Public Holiday,

Signature of the Tenderer

the tenders will be received and opened at the above said time on the next working day.

**2.7** The tenderers who are desirous of making field visits may do so at their own cost. Price variation clause is not applicable for this work.

**2.8** TCMPF reserves the right to reject any or all the Bids without assigning any reason there for.

**2.9 METHODS OF TENDERING:**

**(a)** If the tender is made by an individual, it should be signed by the individual, with his full name and current address.

**(b)** If the tender is made by a Sole-Proprietary "FIRM", it shall be signed by the Proprietor along with his full name and full name of the "FIRM" with it's current address. Documents with regard to Registration of the Firm by the Registrar of Firms should be produced, without fail.

**(c)** If the tender is made by a "Firm" in partnership, it shall be signed by all the Partners of the Firm with their full name and current address or by a Partner authorized by the Firm (Either as per articles of the Deed of Partnership or by Registered Power of Attorney) for signing in Tenders, Agreements, etc., in which case, certified True Copy of the Deed of partnership along with the current address of all the Partners and the certified photocopy of the Registered Power of Attorney issued in favour of the Signatory should be produced.

**(d)** If the tender is made by a Public | Private Limited Company or Corporation, it shall be signed by a duly authorised person holding the Power of Attorney for signing in tender, in which case, the certified copy of the Power of Attorney should accompany the Technical Bid. Such Public Private Limited Company / Corporation, should also furnish satisfactory evidence of its existence along with the Pre-Qualification Tender (Technical Bid).

**(e)** Tenders from "JOINT VENTURES" are not acceptable.

**2.10.** Go through the check slip given and ensure compliance of the terms and conditions

**2.11.** Tenderer is specifically informed that all the pages in both **Part -A Technical Bid and Part-B Commercial Bid** should be signed at the bottom of each page without any omission by the authorized signatory with name and seal of the firm.

Signature of the Tenderer

**2.12 PRE-BID MEETING:-**

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- 2.13** Filled tenders received by post will not be accepted.
- 2.14.** Requisition by POST will not be considered at any cost.
- 2.15.** Bank Guarantee will not be accepted towards Earnest Money Deposit.
- 2.16.** Even though the tenderer offered their tender through on line the tenderer are necessary to submit the original set of documents.
- 2.17. LANGUAGE OF TENDER:** The Technical Bid (Pre-Qualification Tender) and all Supporting Documents, Certificates, Evidences and the Price Bid should be submitted in **"ENGLISH"** only. The Supporting Documents if attached in any other language should be translated in English with the certificate of the "Notary Public" duly certifying that the English translation of the documents is true and accurate translation of the original documents.
- 2.18.** Bid document will be sold to the Experienced Bidders or their authorized representatives on payment of cost of Schedule + GST and on the submission of a written application along with relevant documents, return for filing **Latest I.T.Certificate and, GST registered number** and on production of proof of having similar experience, including date of completion of work, actual value of work done etc., during office working hours either in person or his authorized agents. Necessary authorization should be produced if the request made by the agents of the bidder. If the tender schedules are downloaded from website, **the tenderer should attach the above details duly attested by Notary Public.**

Signature of the Tenderer

### **3.SPECIAL INSTRUCTION TO THE TENDERERS**

As per G.O (MS) No.555/Public Works(G2) Department dated 17.11.1999 on evaluation of tender if it is found that if the overall quoted amount of the tender is less than 5 to 15 % of the value put to tender , the contractor shall pay an additional security at 2% of the Estimated value. If the tender discount exceeds 15% to 20% , the contractor shall pay an additional security deposit of 50% of the difference between the quoted amount and estimated amount . Failure to furnish the additional security deposit within 15 days from the date of receipt of acceptance order and execute the agreement shall entail cancellation of award of contract and forfeiture of EMD furnished.

The Additional security deposit collected for the minus tender referred to above will be refunded along with security deposit as per agreement condition.

Signature of the Tenderer

#### 4. GENERAL TERMS & CONDITIONS

- 4.1. PART - A Technical bid, wherein the pre-qualification, based on various factors such as suitability and eligibility of the tenderer will be evaluated, considered and decided prior to opening and consideration of Commercial Bids under PART - B of the tender.
- 4.2. PART - A Technical bid shall be opened on **28.04.2022 at 3.30 PM** in the presence of the tenderers or their authorized representative who opt to be present during the opening.
- 4.3. PART - B Commercial Bid of the tenderers who do not satisfy any / all the terms and conditions specifically so mentioned under PART - A Technical bid, shall not be considered eligible and shall not be opened.
- 4.4. PART - B Commercial Bid, wherein the rates tendered by those who qualify themselves for and are selected as per the terms and conditions prescribed in PART - A Technical Bid only will be considered and decided for the award of the contract.
- 4.5. Part - B Commercial bids shall be opened after scrutiny of Part-A Pre-qualification / Technical bids in respect of those who are found and declared as qualified, eligible and short listed as per technical parameters and terms and conditions of pre-qualification bid with prior individual intimation in the presence of tenderers or their authorized representative who opt to be present. The date of such opening of part-B Commercial bid will be informed separately to those who qualify in the PART - A Technical bid confirm to the Technical parameters prescribed thereon.
- 4.6. The tender forms are not transferable or assignable.
- 4.7. The signatory of the tender should indicate his / their status in which he / they have signed and submit necessary documentary proof admissible in law in respect of such authority assigned to him / them by the firm. *If the tender opening day is declared as a holiday, the tenders shall be received and opened immediately on the next working day at the same time and place.*
- 4.8. **EARNEST MONEY DEPOSIT:**
- 4.8.1 All tenders must be accompanied with the prescribed amount of EMD along with tender.
- 4.8.2 EMD amount of **Rs.90,800/- (Rupees Ninety thousand eight hundred only)** to be drawn by means of Bank Demand Draft from any nationalized or scheduled Bank drawn in favour of "The Managing Director, TCMPPF Limited," Payable at Chennai-35 in the name of tenderer/firm only. IT SHALL BE ENCLOSED WITH THE PART-A, TECHNICAL BID ONLY. No other form of remittance shall be accepted.No Exemption.
- 4.8.3 Tenders not accompanied with demand draft towards the prescribed EMD shall be summarily rejected.
- 4.8.4 If tenderer withdraw his offer before finalization of the tender, the EMD remitted by the tenderer shall be forfeited in full.

Signature of the Tenderer



- 4.8.5** The tenderer should be submit a covering letter giving full details as called for in the tender notice together along with the copy of letter registering them in the appropriate class.
- 4.8.6** The tenderer should furnish their Income Tax Permanent Account Number [PAN] in the tender document itself.
- 4.8.7** List of various machineries and other equipment's of the tenderer disposal for use in the execution of work should be furnished.
- 4.8.8** Details of previous work done / under execution by the tenderer covering the cost of work, Agreement No. & date, the department in which the work was carried out etc., should be furnished so as to assess the previous experience of the tenderer. Year wise details should be furnished so as to see that these tenderers have minimum experience of major works.
- 4.8.9** **The rate quoted in the tender shall be kept valid for 120 days from the date of opening of part-A Technical bids** and the tenderer at his own cost shall attend and sign the contract as soon as the acceptance of tender is communicated. Failure to attend in the manner above said shall entail forfeiture of EMD furnished by the tenderer. Besides, the tenderer shall be held responsible for any loss to the Federation on account of his failure to attend the manner aforesaid.
- 4.8.10** The EMD of the successful tenderer shall be retained as security deposit, which will not bear any interest, and the same will be released after 6 months from the date of completion of work. The EMD of the unsuccessful tenderer shall be returned after execution of the agreement of the contract.
- 4.8.11** The tenderer's particular attention is drawn to the sections and clauses in the General Conditions of the Contract dealing with
- a) Test, Inspection and rejection of defective materials and work
  - b) Carriage
  - c) Accidents
  - d) Delays
  - e) Sanction on particulars of payments
  - f) Construction plant
  - g) Water and lighting and
  - h) Cleaning up during progress and for delivery.
- 4.8.12** **The tenderer who are downloading the document from the website are instructed to check the website for corrigendum after the date of pre-bid meeting, for any amendments (pre-bid – minutes) (if any issued) They are instructed to down load the above amendments and enclose it along with the technical bid document duly authenticating while submitting without fail. Failure to submit the pre-bid minutes will lead to rejection of the tender offer.**

Signature of the Tenderer

#### **4.9 SECURITY DEPOSIT**

**4.9.1** After evaluation and finalization of Part-A pre-qualification / technical bids and Part-B commercial bids, selected tenderers would be required to sign an agreement and furnish a Security Deposit such that the total value of **Security Deposit including EMD already paid shall be 2 % of the order value** as specified by the tender accepting authority, drawn by means of Bank Demand Draft only from any Nationalized Bank drawn in favour of **"THE MANAGING DIRECTOR, TCMFP LIMITED"** payable at **Chennai-35**. The EMD already paid along with tender shall be adjusted in the Security Deposit to be paid by the successful tenderer. The above Security Deposit amount will be released after 6 months from the date of completion of the work in all respects.

**4.9.2** No exemption will be given for payment of security deposit under any circumstances as per TNTT Act and the same should be remitted by Demand Draft.

**4.9.3** No interest shall be paid on Earnest Money Deposit / Security Deposit.

**4.9.4** If the tenderer withdraws his bid after the acceptance of Price bid or fails to pay the requisite security deposit amount within the time specified in the bid acceptance order, the earnest money deposit produced with the technical bid will be forfeited.

**4.10.** No increase of the rate will be allowed during the period of contract under any circumstances.

#### **4.11 AGREEMENT:**

**4.11.1** The successful tenderer has to execute an agreement on **Rs.100/-** stamp paper incorporating the terms & conditions of the contract within 15 days from the date of work order.

**4.11.2** If the contractor fails to execute the work satisfactorily at the tendered rate, the Federation will forfeit the security deposit.

**4.11.3** If for any reason the Federation incurs any loss / additional expenditure in connection with the work during the period of contract, the same shall be recovered together with all charges and expenses from the contractor.

**4.11.4** Notwithstanding anything contained in the tender schedule, no obligation is cast on the Federation to accept the lowest tender and the Federation shall also have the right to accept or reject any or all the tenders without assigning any reasons.

**4.12.5** For violation of any of the terms and conditions of the contract, the Federation reserves the right to terminate the contract, with or without notice as applicable.

**4.12.6** On termination of contract, the security deposit is liable to be forfeited and any of the resultant loss beyond that recoverable from pending bills if any.

#### **4.13 PENALTY:**

If the contractor fails in its due performance of the contract within the time fixed or extension of time granted, the contractor is liable to pay liquidated damage of 1 % per month subject to the maximum of 5 % on actual expenditure of contract / final bill value.

Signature of the Tenderer

**4.14 DISPUTES & ARBITRATION:**

- 4.14.1** The Arbitrator for fulfilling the duties set forth in the Arbitration clause of General Conditions of Contract shall be in case of value of claim upto Rs.50,000/- [Rupees fifty thousand only] the Arbitrator who will be appointed by the Managing Director, TCMPF Limited and if the value of claim exceeds Rs.50,000/- it shall be settled through the competent civil court of Chennai jurisdiction.
- 4.14.2** In case of discrepancy between the prices quoted in words and in figures, the lower of the two shall be considered.

**4.15 WITHHELD AMOUNT:**

5 % of bill value shall be retained in each bill as withheld amount and at the time of payment of the final bill 2½ % of the withheld amount shall be released to the contractor as first installment and the remaining 2½ % withheld amount will be retained as security deposit for a period of 1 year reckoned from the date of successful completion of work in order to enable the Federation Officers to watch the effect of all seasons on the works. Further, an indemnity bond should also be given by the contractor for a further period of 4 years when the 2½ % balance withheld amount is released to the contractor after completion of 1 year observation period. If any defects are noticed in the above said period of 1 year, the defects should be rectified by the contractor at his own cost as directed by the Federation Officers and no extra payment will be made for the rectification of such work. If the contractor fails to carry out the rectification works, the Federation shall carryout the work at the risk and cost of the contractor & recovery from the pending dues.

**4.16 Goods and Service tax :**

The tenderer should furnish a self attested copy of the GST registration certificate along with Tender document.

The contractor shall claim GST only in case of a registered supplier and should raise tax invoice, without fail.

All duties, taxes and other levies payable by the contractor under the contract, or for any other cause, as applicable on the date of submission of Bid, shall be included in the rates and prices and the total bid price submitted by the bidder.

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### 5. CHECK SLIP

Kindly ensure compliance of the under-mentioned requirements, as per Tender Terms and Conditions.

|   |                                                                              |        |
|---|------------------------------------------------------------------------------|--------|
| 1 | Whether the EMD amount remitted.                                             | Yes/No |
| 2 | If yes, whether DD attached with the Tender offer – Part A / Technical bid.  | Yes/No |
| 3 | If yes, details of DD No., date, Bank on which drawn etc., may be furnished. | Yes/No |

Demand Draft No. \_\_\_\_\_ dated \_\_\_\_\_ for a value of ` \_\_\_\_\_  
(Rupees \_\_\_\_\_  
only) drawn on (Bank) \_\_\_\_\_ Branch \_\_\_\_\_ in  
favour of The Managing Director, TCMPT Ltd. payable at Chennai.

|    |                                                                                                                                                                                                                                                    |        |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 4  | Whether registered class of the tenderer with monetary limit and department in which registered. [Certified copy of the registration should be attached] .                                                                                         | Yes/No |
| 5  | If so, whether necessary supportive documents such as copies of completion certificates, Live certificate, Audit balance sheet etc.,                                                                                                               | Yes/No |
| 6  | Income Tax Permanent Account Number(PAN) attached.                                                                                                                                                                                                 | Yes/No |
| 7. | GST registration certificate attached.                                                                                                                                                                                                             | Yes/No |
| 8  | ESI Registration Certificate attached                                                                                                                                                                                                              | Yes/No |
| 9  | PF Registration Certificate attached                                                                                                                                                                                                               | Yes/No |
| 10 | Credit facility or liquid asset certificate attached.                                                                                                                                                                                              | Yes/No |
| 11 | Whether details of past experience for past three years/ Under execution enclosed.                                                                                                                                                                 | Yes/No |
| 12 | Minimum Construction equipment;s proof attached.                                                                                                                                                                                                   | Yes/No |
| 13 | Whether all the pages in the tender formats, Part – A (Technical Bid) and Part - B (Commercial Bid) have been duly signed by authorized signatory                                                                                                  | Yes/No |
| 14 | Whether two covers have been wax sealed duly superscribed as “tender for the work OF <b>CONSTRUCTION OF ADMINISTRATIVE OFFICE BUILDING AT THIRUVANNAMALAI DCMPU LTD</b> Part-A Technical bid” or “Part-B Commercial bid” (whichever is applicable) | Yes/No |
| 15 | Whether these two sealed covers for Part – A, Technical Bid and Part – B, Commercial Bid, put in a larger cover duly superscribed addressed and wax sealed at appropriate places.                                                                  | Yes/No |

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**SCHEDULE****SPECIAL CONDITIONS**

1. The work shall be carried out strictly in accordance with the specification and provision stipulated in the (TNDSS) Tamil Nadu Detailed Standard Specifications and (NBC) National Building Code unless otherwise specified.
2. The contractor shall abide to the conditions set-forth in the preliminary specification to T.N.D.S.S. 1952 reprint. Wherever the words "Executive Engineer and Superintending Engineer" occurring shall be read as Managing Director respective of the TCMPF Limited.
3. The contractor shall not enter the private land without written understanding of the owner.
4. The work shall be carried out in the best workmanship manner. Pure water and best materials available in the market shall be used on the work.
5. The work site shall be kept clean always and all unused materials shall be removed from the site within one month from the date of physical completion of work.
6. The work should be completed as specified herein:

**PERIOD OF COMPLETION OF WORK 5 MONTHS**

- 1<sup>st</sup> month from the date of handing over the site – 20%
- 2<sup>nd</sup> month from the date of handing over the site – 40%
- 3<sup>rd</sup> month from the date of handing over the site – 50%
- 4<sup>th</sup> month from the date of handing over the site – 75%
- 5<sup>th</sup> month from the date of handing over the site – 100%

7. If night work is involved, the contractor shall make his own arrangements at his cost. The work shall be carried out with least hindrance to the adjacent buildings and the contractor will be held responsible for the damages caused to the existing structure, fittings etc.

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8. a). The arrangement of MS & RTS Rods for reinforcement for R.C.C. works shall be in accordance with the working drawing.
- b). The planks for forms and centering for R.C.C works shall be of well seasoned timber approved by the officer-in-charge of work according to the para 10 clause 30 of T.N.D.S.S.
- c). Holes and recesses for electric wiring, water supply and drainage etc. shall be provided  
as directed during progress of work without any claim for extra.
- d). The broken stones for Reinforced Cement Concrete and Plain Cement Concrete works shall be of granite blasted and broken to the requiring size as specified.
- e). All the cement concrete will be machine mixed and vibrators shall be used while placing the concrete for RCC works.
9. a]. **The required quantity of steel and cement will be own arrangement by the tenderer.**
- b]. The quality of cement and steel used to the work by the tenderer to be tested as per ISI specification in the PWD quality control lab / Government Engineering college lab / Government recognized lab at his own cost and the test result shall be produced to the site Engineer-in-charge and the same shall be confirmed by the site in-charge.
- c]. The balance quantity of steel and cement will be taken by the tenderer after completion of the work.
10. The tenderers who are themselves not professionally qualified shall undertake to employ qualified staff at their cost to look after the work. The tenderers should state that in clear terms, whether they are professionally qualified or whether they undertake to employ technical staff required by the department, specified in the schedule below for the work. In case the selected tenderer is professionally qualified or has undertake to employ technical staff under him, he should see that one of the technically qualified staff is always at the site of the work during working hours, personally checking all items of works and paying extra attention to such works as may deemed special attention (e.g.) Reinforced Cement Concrete works etc. If the tenderer fails to employ Technical Assistant the recovery will be as follows:

(In the format below enter or incorporate the latest norms fixed by Federation for the employment of Technical Assistant from time to time and penalty for non employment of such Technical Assistant etc.)

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| Sl. No | Value of contract                       | Qualification and No. of Technical Assistance to be employed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1      | Upto Rs. 1.00 lakhs                     | No Technical Assistant need be employed, if situation and nature of work warrants.<br>i. A Diploma holder in Civil Engineering (or)<br>ii. A retired Junior Engineer may be employed.                                                                                                                                                                                                                                                                                                                                                                                                           |
| 2      | From Rs. 1.00 lakhs to Rs. 5.00 lakhs   | i. One Diploma holder in Civil Engineering (or)<br>ii. Not less than one retired Junior Engineer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4      | From Rs. 10.00 lakhs to Rs. 25.00 lakhs | i. One B.E. (Civil) with 3 years experience plus one diploma holder in Civil Engineering (or)<br>ii. Equivalent Degree holder with 3 years experience plus one diploma holder in Civil Engineering (or)<br>iii. Not less than one retired Assistant Executive Engineer / Assistant Divisional Engineer plus one diploma holder in Civil Engineering (or)<br>iv. Two Diploma Holders in Civil Engineering with 3 and 5 years experience respectively.                                                                                                                                            |
| 5      | From Rs. 25.00 lakhs to Rs. 50.00 lakhs | i. One B.E. (Civil) with 3 years experience plus two diploma holders in Civil Engineering (or)<br>ii. One B.E (Civil) with 3 years experience plus two retired Junior Engineers (or)<br>iii. Equivalent Degree holder with 3 years experience plus two diploma holder in Civil Engineering / two retired Junior Engineers (or)<br>iv. One retired Assistant Executive Engineer / Assistant Divisional Engineer plus two diploma holders in Civil Engineering (or)<br>v. One retired Assistant Executive Engineer / Assistant Divisional Engineer plus two retired Junior Engineers.             |
| 6      | From Rs. 50.0 lakhs to Rs. 1.00 Crore   | i. One B.E. (Civil) with 3 years experience plus two diploma holders in Civil Engineering (or)<br>ii. One B.E (Civil) with 3 years experience plus two retired Junior Engineers (or)<br>iii. Equivalent Degree holder with 3 years experience plus two diploma holder in Civil Engineering / two retired Junior Engineers (or)<br>iv. One retired Assistant Executive Engineer / Assistant Divisional Engineer plus two diploma holders in Civil Engineering (or)<br>v. One retired Assistant Executive Engineer / Assistant Divisional Engineer plus two retired Junior Engineers.             |
| 7      | From Rs.1.00 Crore to Rs.3.00 Crore     | i. One B.E. (Civil) with 3 years experience plus three diploma holders in Civil Engineering (or)<br>ii. One B.E (Civil) with 3 years experience plus three retired Junior Engineers (or)<br>iii. Equivalent Degree holder with 3 years experience plus three diploma holder in Civil Engineering / three retired Junior Engineers (or)<br>iv. One retired Assistant Executive Engineer / Assistant Divisional Engineer plus three diploma holders in Civil Engineering (or)<br>v. One retired Assistant Executive Engineer / Assistant Divisional Engineer plus three retired Junior Engineers. |

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| Sl. No | Value of contract    | Qualification and No. of Technical Assistance to be employed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8      | Above Rs. 3.00 Crore | i. Two B.E. (Civil) with 3 years experience plus three diploma holders in Civil Engineering (or)<br>ii. Two B.E (Civil) with 3 years experience plus three retired Junior Engineers (or)<br>iii. Equivalent Degree holder with 3 years experience plus three diploma holder in Civil Engineering / three retired Junior Engineers (or)<br>iv. Two retired Assistant Executive Engineer / Assistant Divisional Engineer plus three diploma holders in Civil Engineering (or)<br>v. Two retired Assistant Executive Engineer / Assistant Divisional Engineer plus three retired Junior Engineers. |

Note:

- 1) Item (1), (2), (3), (4) (5) and (6) should be scored No. 1 out in case where not applicable to the particular work.
  - 2) A penalty of **Rs. 10,000/-** per month for Diploma holder
  - 3) **Rs. 15,000/-** per month for degree holder will be levied in case of default on the part of contractors in following the norms laid down above.
  - 4) The employment of Technical Assistants should be based only on the value of contract. Engineers with Mechanical Engineering qualification and retired from Civil Engineering departments are also suitable to supervise the Civil Engineering works because of their experience in Civil Engineering field.
  - 5) In case of contract who is professionally qualified is not in position to remain always at the site of the work and pay extra attention to such work, as many demand special attention (e.g. RCC work etc.) he should employ technically qualified man as prescribed above.
11. a) The quantities provided in the schedule are approximate subject to variation up to 25% either way of requirement indicated in the tender schedule. The payment for the work done shall be restricted to the recorded measurement of finished item in sites.  
 b) The rate for additional items not contemplated in the agreements shall be decided at the discretion of Managing Director as per the principle in vogue in PWD circles and rules applicable to the PWD special buildings circles.
12. a). The tenderer shall inspect the site and satisfy himself about the site condition and soil condition, availability of water etc. and other materials as shown in the lead statement. The rate quoted by the tenderer is final and for finished item of work in site and any claims for enhancement of rate shall not be entertained.  
 b). Sheds for storing construction materials like cement and steel shall be provided at tenderer's cost, which shall be removed within one month from the date of completion.  
 c). All tools & plants, and other building materials required for the work shall be arranged by the tenderer himself.

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13. The tenderer's special attention is invited to clause 37 and 38 of the Preliminary Specifications of TNDSS and he is requested to provide at his own expense sheds, latrines, and urinals for his workmen.
14. If night work is required to fulfill the agreed rate of progress, all arrangements shall be made by the tenderers inclusive of lighting without any claim for extra.
15. The tenderer shall not employ the labour below the age of 12 years and shall also note that he must offer employment to ex-servicemen, ex-toditappers, and unemployed agricultural labourers as far as possible.
16. Any of the items in the schedule may be omitted or radically altered. No variation in rate shall become payable to tenderer on account of such omission or variation in quantities.
17. Reference to TNDSS in the schedule of quantities referred to reprint 1952 and addenda corrigenda issued thereafter.
18. The construction of the building will be deemed to be completed only if all the items of works including finishing items contemplated herein are executed.
19. The tenderer shall abide by the tenderer's labour regulation of the PW frames by the Tamilnadu Government.
20. The tenderer shall be responsible for the safe custody and storage of the materials under dry conditions at the places of the work spot approved by the Engineer.
21. No royalty shall be charged where due for materials quarried from the corporation or other Government quarries. Necessary assistance will be given to the tenderer by the corporation to obtain access to quarries approved by the Federation Engineer. No plot rent shall be charged so far materials stacked on the Government land during the course of construction provided all such materials are removed within the month after the work is completed.
22. The tenderer shall pay royalty or charges due for use of private quarries and private land.
23. The tenderer shall form his own approach road to the work site for which no extra will be due to him. On completion of work, the tenderer shall not be permitted to remove the materials laid for formation of road. If the tenderer is allowed to use the existing roads, he shall maintain them in good condition at his own cost throughout the period of the contract.
24. Any surplus materials remaining at the site, will not generally taken over by the Federation, whether before or after the completion or termination of contract. Such materials either which were originally procured by the tenderer or were issued to them by the Department and charged to their accounts, are the property of the tenderers and can however be taken over by Department if required, for use on other works which are in progress only by special arrangements and at the prevailing market rates. Viz. the rates at which the articles of a similar description can be procured at a given time at the stores, go-down from public market suitable to the Federation office for obtaining the supply there-of.

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If the Federation originally used the materials, the price allowed to the tenderer on re-acquisition shall not exceed the amount charged to the tenderer excluding the elements of storage charge if any.

The surplus materials, which were originally issued to the tenderer by the Department for use on the work, shall not be removed from the site of work without getting the written permission of the Federation Engineer.

25. The tenderer shall at his own expense provide arrangements for the provision of footwear for any labour doing cement mixing work and all other similar type of work involving the use of tar, mortar etc. to the satisfaction of the Engineer-in-charge and on his failure to do so, Federation shall be entitled to provide same and recover the cost from the tenderer.
26. When there are complaints of no-payment of wages to the labour, bills of the tenderer may be withheld pending a clearance certificate from the Labour Department.
27. Rules for the provision of health and sanitary arrangements for workers employed by the Federation and its tenderers.

The tenderer's special attention is invited to clause 37, 38, 39, and 51 of the preliminary specification to the Tamil Nadu Detailed Standard Specification and he is requested to provide at his own expenses, the following amenities to the satisfaction of the Federation Engineer.

**1. FIRST AID:**

At the work site, there shall be maintained in a readily accessible place, first aid appliances and medicines including an adequate supply of sterilized dressing and sterilized cotton roll. The appliances shall be kept in a good order. They shall be placed under the charge of a responsible person who shall be readily available during working hours.

**2. DRINKING WATER:**

- a) Water of good quality fit for drinking purpose shall be provided for the work people on a scale of not less than three gallons per head per day.
- b) Where drinking water is obtained from an intermittent public water supply each work place shall be provide with storage tank where such drinking water shall be stored.
- c) Every water supply and storage shall be at a distance of not less than 15 m from any latrine, drain or other existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly closed if water is drawn from it for drinking. All such wells shall be entirely closed and be provided with a trap door, which shall be dust and waterproof.
- d) A reliable pump shall be fitted to each covered well. The trap door shall be kept locked and opened only for cleaning or inspection, which shall be done at least once in a month.

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### **3. WASHING AND BATHING PLACES:**

Adequate washing and bathing places shall be provided separately for men and women. Such places shall be kept in clear and drained condition. Bathing or washing should not be allowed in or near the drinking water well.

### **4. LATRINES AND URINALS:**

There shall be provided within premises of every work place latrines and urinals in an accessible place and the accommodations separately for each of them shall be on the following scale or on the scale so directly by Executive Engineer in any particulars case.

|      |                                                                        |         |
|------|------------------------------------------------------------------------|---------|
| i.   | Where the number of persons employed does not exceed 50                | 2 Seats |
| ii.  | Where the number of persons employed exceed 50 but does not exceed 100 | 3 Seats |
| iii. | For every additional 100 persons                                       | 3 Seats |

If women are employed, separate latrines and urinals screened from those for men shall be provided on the same scale. Except in work places provided with water flushed latrines connected with a water borne sewage system all latrines shall be provided with acceptable dry earth system which will be cleared at least four times daily and at least twice during working hours and kept in strictly sanitary condition. The latrines and urinals shall be tarred inside and outside at least once a year.

Excrete from the latrines shall be disposed off at the tenderer's expenses, in outside pits approved by the local Public Health Authority. The tenderer shall also employ adequate number of scavengers, conservancy staff to keep the latrines and urinals in clean condition.

### **5. SHELTERS DURING REST:**

At the work site, there shall be provided at free of cost, two suitable sheds one for meals and another for rest for the use of labour.

### **6. CRÈCHE:**

At every work place at which 25 or more women working ordinary employed there shall be provided two huts of suitable size for the use of children under the age of 6 years belonging to such women. One hut shall be used for infants, games and play and the other as their bedroom. The huts shall not be constructed on lower standard than the following.

- ✓ Thatched Roofs.
- ✓ Mud floors and walls.
- ✓ Planks spread over the mud floor and covered with matting.

The size of the crèche or crèches should vary according to the number of women workers. The crèches should properly maintain and necessary equipment like toys etc. should be provided and huts shall be provided with suitable and sufficient sweepers to keep the place clean. There shall be two ayahs in attendance. Sanitary utensils shall be provided to the satisfaction of the Health Officer of the area concerned.

The number of the huts shall be restricted to children, their attendants, and others of the children.

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**7. CANTEEN:**

A cooked good canteen on moderate scale shall be provided for the benefits of the workers if it is considered expedient.

**8. SHEDS FOR WORKMEN:**

The tenderer should provide at their own expense sheds for housing the workmen. The sheds shall be on a standard not less than the cheep shelter type to live in which the works pertaining to locality are accustomed to. A floor area of about 1.80 m -1.50 m for two persons shall be provided. The sheds are to be in row with 1.50 m clear spaces between the sheds and 24 m clear space between rows if conditions permit. The work people's camp shall be laid out in units of 400 persons each. Each unit should have clear space of 14.4 m.

9. Safety provision in the building industry conditions in addition to clause 36 of preliminary specification of TNDSS.

PART - IARTICLE - 1

1. Suitable scaffolds shall be provided for workmen for all work cannot be safely done from a ladder or by other means.
2. A scaffold shall not be constructed, taken down, or subsequently altered except.
  - a) Under the supervision of a competent and responsible person and;
  - b) By competent workers possessing adequate experience in this kind of work.
3. Scaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use.
4. Scaffolds shall not be overloaded and so far as practicable and shall be evenly distributed.
5. Before installing lifting gear on scaffolds special precautions shall be taken to ensure the strength and stability of the scaffolds.
6. A competent person shall periodically inspect scaffolds.
7. Before allowing a scaffold to be used by his workmen every employee shall, satisfy as to whether the scaffold has been executed by his workmen or not he should take steps to ensure that it functions fully with the requirement of this articles.

ARTICLE - 2

1. Working Platforms, gangway and staircase shall be so constructed that no part thereof can sag unduly or unequally.
  - a) Be so constructed and maintained to obviate from risks of persons tripping or slipping
  - b) Be kept free from any unnecessary obstructions.
  - c) Every working platform, gangway, working place, and staircase shall be suitably forced.

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ARTICLE - 3

1. Every opening in the floor of a building or in a working platform shall except for the time and to the extent required to allow the excess of persons or the transport or shifting of materials be provided with suitable means to prevent the fall of persons or materials.
2. When persons are employed on a roof where there is danger of falling from height exceeding that to be prescribed by national laws or regulations, suitable precautions shall be taken to prevent the fall of persons or material.
3. Suitable precautions shall be taken to prevent persons being struck by articles, which might fall from scaffolds or other working places.

ARTICLE - 4

1. Safe means of access shall be provided to all working platform and other working places.
2. Every ladder shall be securely fixed and of such length as to provide secure handhold and foothold at every position at which it is used.
3. Every place where work is carried on the mean of approach there to shall be adequately lighted.
4. Adequate precautions shall be taken to prevent danger from electrical equipment.
5. No material on the site shall be so attached or placed as to cause danger to any persons.

PART – IIGENERAL RULES AS TO HOISTING APPLIANCES:ARTICLE - 5

1. Hoisting machines and tackle including their attachments enhotages and supports shall.
  - a) be of good mechanical construction sound materials and adequate strength and free from patent defects and
  - b) be kept in good repair and in good working order.

Every rope used in hoisting or lowering materials or as a means of suspension shall be suitable quality and adequate strength and free from patent defects.

ARTICLE - 6

1. Hoisting machines and tackle shall be examined and adequately tested after erection on the site and before use and be re-examined in positional intervals to be prescribed by national law or regulations.
2. Every chain ring, hook shackle, swivels, and pulley block used in hoisting or lowering materials or as a means of suspension shall be periodically examined.

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ARTICLE - 7

1. Every Crane driver or hoisting appliances operator shall be properly qualified.
2. No persons under an age to be prescribed by national laws, regulations shall be in control of any hoisting machinery including any scaffold which, or give signals to the operator.

ARTICLE - 8

1. In the case of every hoisting machine and every chain ring, hook shackle, swivel and pulley block used in hoisting or lowering or as a means of suspension, the safe working load shall be ascertained by adequate means.
2. In the case of hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated.
3. Every hoisting machine and all gear referred to in the proceeding paragraphs shall be plainly marked with the safe working load.
4. No part of any hoisting machine or of any gear referred to in paragraph 1 of this article shall be loaded beyond the safe working load except for the purpose of testing.
- 5.

ARTICLE - 9

1. Motors gearing, transmission, electric wiring and other dangerous parts of hoisting appliances, shall be provided with sufficient safe guards.
2. Hoisting appliances shall be provided with such means as will reduce the risk of the accidental descent of the load.
3. Adequate precautions shall be taken to reduce the risk of any part of a suspended load becoming accidentally displaced.

PART - III

GENERAL RULES TO SAFETY EQUIPMENT AND FIRST AID

ARTICLE - 10

1. All necessary personal safety equipment shall be kept available for the use of the persons employed on the site and be maintained in a condition suitable for immediate use.
2. The workers shall be required to use the equipment thus provided and the employer shall take adequate steps to ensure proper use of the equipment by those concerned.

ARTICLE - 11

When work is carried on in proximity to any place where there is a risk of drawing, all necessary equipment shall be provided and kept ready for use and all necessary steps shall be taken for the prompt rescue of any person in danger.

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ARTICLE - 12

Adequate provision shall be made for prompt first-aid treatment of all injuries likely to be sustained during the course of the work.

ARTICLE - 13

Where large work places are situated in cities, towns or in their suburban and no beds are considered necessary owing to the proximity of city or town hospital, suitable transport shall be provided to facilitate removal of urgent cases to the hospitals, at their work places, some conveyance facilities such as car shall be kept readily available to the injured person or persons suddenly taken seriously ill to the nearest hospital.

GENERAL QUALITY OF TILES

1. Unless otherwise required the wearing face of the terrace tiles shall be mechanically sound and flat. The wearing face of the tiles shall be plane, free from projections, depressions and cracks, (Hair-cracks not included) and shall be reasonably parallel to the back face of tiles. All corners shall be right angles and all edges shall be sharp and true.
2. Breaking transverse strength of tiles shall be given as below:

| Size of tile     | Span  | Breaking wet test | Land based dry test |
|------------------|-------|-------------------|---------------------|
| 19.85 x 19.85 cm | 15 cm | 71 kg             | 106 kg              |
| 24.85 x 24.85 cm | 20 cm | 90 kg             | 120 kg              |
| 29.85 x 29.85 cm | 25 cm | 99 kg             | 149 kg              |

The average wear of not less than 12 specimens shall not exceed 2 mm and the wear on any individual specimen shall not exceed 2.5 cm when tested in an absorption machine.

3. The average percentage of water absorption shall not be less than six full tiles shall not exceed ten in the case of water absorption test.
4. The density of the tiles shall be in the order of about 2.4 gms. The tiles shall be laid with the minimum possible width of joints and not exceeding 1/32 inch. The joints shall be filled with gray cement to match the finish of the tiles and shall be made almost invisible when the floor is given the final polish. The polishing shall be done by means of electric polisher wherever possible and hand polish to other places like vertical faces, walls, coves and other areas where the machines can have no access and to a high degree so as to present a perfectly smooth and glossy surface as even as possible.

All angles at junctions of vertical faces shall be rounded off to 1½" radius with same quality of materials and colour of the tiles of the floor. But lay in site and these coves shall be measured as part of flooring and laid for at the same rates and the flat floors. The colours of

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the tiles shall generally match other coloured face adjacent as may be directed by the Federation Officers.

The dadoing and skirting have to be finished by giving necessary recess in the brick wall itself so that the projections does not exceed  $\frac{3}{4}$ " from the face of the wall i.e. the finish plastered surface

Based on the modulus of rupture of 30 kg./m<sup>2</sup> for dry test and 2/3 of the value of wet test.

5. The rates quoted by the tenderer should include all de-watering charges.
6. The works shall be proceeded with expeditiously from the date of the site is handed over and completed within the prescribed schedule.
7. In the event of the work being transferred to any other Department like PWD to execute all the powers and privileges reserve in favour of the Federation.
8. The materials used for work should be of best quality and to be got approved by the Federation Engineers / Officers and approved samples are to be kept at site of work till the completion of the work.
9. The tenderer will be paid only for finished items of works.
10. All fittings of furniture for doors and windows shall be best quality steel machine made and wall japanned. The iron hold fasts shall be built up in the wall in cement mortar 1:3 at the time of construction of walls. No extra claim shall be made for the same.
11. In the case if 'T' beams and 'L' Beams, the quantity of rib portion only. The top flange portion will be always measured with the general slab portion and paid for at the slab rate only. For all RCC work the rate shall include the treatment of bearing as per plate W.No.2 of 1946 as per MDSS (Page 52 of 1952 Edition).
12. The tenderer should cooperate with the tenderer for erection of machinery and provide him with necessary holes in the masonry and subsequently refill, without extra cost. There should be cooperation with the tenderers for the civil works and machinery.
13. In the case of earthwork excavation in hard rock requiring blasting the tenderer should observe the following condition.
  - i). The blasting rock shall be compactly stacked for measurement. The net quantity of blasted rock shall be arrived by allowing a deduction of 40% of voids and compared with pre-measured quantity and only the lesser of the two shall be paid.
  - ii). When the rock other than hard rock and hard rock mixed upon ground the two kinds of rocks shall be stacked separately for measurement. The net measurement of the two kinds of rock shall be arrived by allowing 40% deductions for voids. The total of the net measurements of two kinds of rocks shall be compared with the pre-measured quantity and only lesser of the two kinds of rock shall be paid for. If the total of net measurements if the two kinds of rocks exceeds or falls short of measurement of mixture the volume of mixture proposed to be paid shall be

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apportioned in the proportion of the actual measurements of stacks of the two kinds of rock.

NOTE:

- a) 40% deduction for voids shall be adopted for compact and proper stacking but such deduction shall be increased for loose or improper stacks.
- b) The blasted rock materials stacked, measured, and paid for shall become property of the Department.
- c) IS Code No. 1200 (Part I) 1969 method of measurement of building and Civil Engineering works Part-I earthwork may be referred to.

EXTRACT OF:

NATIONAL BUILDING CODE OF INDIA 1970

PART – VI, SECTION 5-A: PLAIN AND REINFORCED CONCRETE

4.2. GRADE OF CONCRETE.

**4.2.1.** Plain and Reinforced Cement Concrete shall be in seven grades as designed M100, M150, M200, M250, M300, M350, and M400.

**NOTE:** In the designation of a concrete mix, letter "M" refers to the mix and the number of the specified 28 days of works cube compressive strength of that mix expressed in Kg./cm<sup>2</sup>.

**4.2.2.1.** Where ordinary port-land cement or port-land blast furnace slag cement conforming to accepted standard VI.5 (2) IS 269/1967 specification for ordinary rapid hardening and low heat port-land cement.

IS 455/1967 specifications for port-land and blast furnace slag cement is used. The compressive strength requirements for various grades of concrete shall be as given in Table-1. Where rapid hardening port-land cement is used, the 28 days compressive strength requirements specified in Table-1 shall be met at 7 days where other cement are used, the Engineer-in-charge shall specify the corresponding requirements preferably on the basis of preliminary test.

**4.2.2.2.** The strength requirements specified in Table-1 shall apply to both controlled concrete and ordinary concrete (see 4.3.1) preliminary tests need not however be made in the case of ordinary concrete.

1. In order to get a relatively quicker idea of the quality of concrete optional works tests on beams for modulus of rupture at 72 + 2 hours or at 7 days or compressive strength tests at 7 days may be carried out in addition to 28 days compressive strength test. In all cases, the 28 days compressive strength specified in Table-1 shall alone be the criteria for acceptance or rejection of the concrete. If however from tests carried out in a particular job over a reasonably long period, it has been established to the satisfaction of the Engineer-in-charge that a suitable ratio between the 28 days compressive strength and the modulus of rupture at 72 + 2 hours or at 7 days or compressive strength at 7 days may

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be accepted. The Engineer-in-charge may suitably relax the frequency of 28 days compressive strength test specified in Table 5 provided the expected strength values given at the specified early age are consistently met. For this purpose the values given in table 2 may be taken for general guidance in the case of concrete made with ordinary cement.

2. Whether the strength of a concrete mix as indicated by test lies between the strength for any two grades, specified in Table-1, such concrete shall be classified for all purposes as a concrete belonging to the lower of the two grades between which its strength lies.

#### 4.3 PROPORTIONING AND WORKS CONTROL.

##### 4.3.1. METHODS OF PROPORTIONING:

The determination of the proportion of cement aggregate and water to attain the required strength shall be made by one of the following:

- a. With preliminary tests by designing the concrete mix. Such concrete shall be called controlled concrete.
- b. Without preliminary tests by adopting nominal concrete mixes. Such concrete shall be called ordinary concrete.

##### 4.3.2. CONTROLLED CONCRETE:

**4.3.2.1.** As far as practicable, controlled concrete should be used on all concrete works. Controlled concrete for use in plain and reinforced concrete structures shall be in grade M 100, M 150, M 200, M 250, M 300, M 350, and M 400.

**4.3.2.2.** The concrete mix shall be designed to have a average strength corresponding to the values specified for preliminary test in Table-1. The proportions chosen should be such that the concrete is of adequate workability for the conditions prevailing on the work in question and may be properly compacted with the means available.

The maximum total quantity of aggregate by weight per 50 Kg. of cement shall not exceed 450 Kg. except where otherwise specifically permitted by the Engineer-in-Charge.

**4.3.2.3.** Except where it can be shown to the satisfaction of the Engineer-in-charge that supply of properly graded aggregate of uniform quality may be maintained over the period of work, the grading of aggregate should be controlled by obtaining the coarse aggregate in different sizes and blending them in the right proportion when required the different sizes being stocked in separate stock piles. The materials should be stock piled for several hours preferably a day before use. The grading of course and fine aggregate should be checked as frequently as possible, the frequency for a given job being determined by the Engineer-in-charge to ensure that the suppliers are maintaining the grading uniform with that on the samples used in the preliminary tests.

**4.3.2.4.** In proportioning concrete the quantity of both cement and aggregate should be determined by weight. Where the weight of cement is determined by accepting the manufacturer's weight per bag, a reasonable number of bags should be weighed separately to check the net weight. Where the cement is weighed on the site and not in

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bags it should be weighed separately from the aggregates. Water should be either measured by volumes in calibrated tanks or weighed. All measuring conditions and their accuracy may be periodically checked.

**4.3.2.5.** It is most important to maintain the water cement ratio constant at its correct value. To this end, determination of moisture contents in both fine and coarse aggregates should be made as frequently as possible the frequency for given job being determined by the Engineer-in-charge according to weather conditions. The amount of the added water should be adjusted to compensate for any observed variations in the moisture contents. Their determination of moisture content in the aggregate shall be carried out in accordance with good practice (VI-5-9) IS 2386 Part III-1963. To allow for the variation in weight of aggregates due to variation in their moisture content suitable adjustment in the weight of aggregate should also be made.

**4.3.2.6.** On substitution in materials used on the work or alteration in the established proportions except as permitted in 4.3.2.5 shall be made without additional tests to show that the quality and strength of concrete are satisfactory.

**4.3.2.7.** Workability of the concrete should be checked at frequent intervals. To slump test or where facilities, exist the compacting factor test conducted in accordance with good practice [VI-5 (10)] may adopted for this purpose.

**4.3.2.8.** A competent person should be employed whose first duty will be to supervise all stages in the preparation and placing of the concrete. All works test specimens should be made and site tests carried out under his direct supervision.

**4.3.3. ORDINARY CONCRETE:**

**4.3.3.1.** Where, it is considered not practicable to use controlled concrete and ordinary concrete may be used for concrete of grades M 100, M 150, M 200, M 250. The proportions of materials for nominal concrete mixes for ordinary concrete shall be in accordance with Table-3.

**4.3.3.2.** In proportioning concrete, the quantity of cement should be determined by weight. The quantity of fine and coarse aggregates may be determined by volume but these should also preferably be determined by weight. In the latter case, the weight should be determined from the volume specified in Table-3 and the weight per litre of dry aggregate. If fine aggregate is moist and volume batching is adopted, allowances to be made for bulking in accordance with good practice [VI-5 (9)].

**4.3.3.3.** The water cement ratio shall not be more than those specified in Table-3.

The cement content of the mix specified in Table-3 for any nominal mix may be increased if the quantity of water in a mix has to be increased to overcome the difficulties of placement and compaction, so that the water cement ratio specified in Table-3 is not exceeded.

**NOTE 1:** In the case of vibrated concrete, the limit specified may be suitably reduced to avoid segregation.

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**NOTE 2:** The quantity of water used in the concrete mix for reinforced concrete work should be sufficient, but should not be more than what is sufficient to produce a dense concrete of adequate workability for the purpose, which will surround and properly grip all the reinforcement. Workability of the concrete should be controlled by maintaining a water-cement ratio that is found to give a concrete which is just sufficient wet to be placed and compacted without difficulty with the means available.

**4.3.3.4.** Workability of the concrete should be controlled by direct measurement of water content, making allowance for any surface water in the fine and coarse aggregates. The slump test may be conducted in accordance with good practice [VI-5(10)].

**4.3.3.5.** Allowance should be made for surface water present in the aggregate when computing the water content. Surface water shall be determined by field methods in accordance with good practice [VI-5 (9)]\*. In the absence of exact data the amount of surface water may be estimated from the values given in Table-4.

**4.3.3.6.** If ordinary concrete made in accordance with the proportions given for a particular grade does not yield the specified strength due to proper qualities of materials not being available, such concrete shall be classified as belonging to the appropriate lower grade.

Ordinary concrete proportioned for a grade given in accordance with Table-3 shall not, however, be placed in a higher grade on the ground that the test strengths are higher than the minimum specified. No interpolation shall be permissible.

#### 4.4. SAMPLE SIZE OF ACCEPTANCE CRITERIA.

**4.4.1.** All tests shall be carried out in accordance with good practice [VI-5 (4)]. +

**4.4.2.** The number of test specimens required, the frequency of the sampling and the criteria for acceptance of a concrete as conforming to the specified grade shall be in accordance with Table-5 for both ordinary concrete and controlled concrete. No preliminary tests are, however, necessary in the case of ordinary concrete.

IS 199-1959 methods of sampling and analysis of concrete?

\* IS 2386 (Part III) 1963 specific gravity, density, and voids absorption and bulking methods of tests for aggregate of concrete?

Specified density, gravity, voids absorption, and bulking.

- IS 516-1959 methods of tests for strength of concrete.

#### TABLE - 1. STRENGTH REQUIREMENTS OF CONCRETE

(CLAUSE 4.2.2.1 and 4.2.2.2) (All Values in kg/cm<sup>2</sup>)

Compressive strength of 15 cm cubes at 28 days after mixing conducted in accordance with good practice [VI 5(4)]~.

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| Grade of Concrete | Preliminary tests Minimum | Works test Minimum |
|-------------------|---------------------------|--------------------|
| M 100             | 135                       | 100                |
| M 150             | 200                       | 150                |
| M 200             | 250                       | 200                |
| M 250             | 320                       | 250                |
| M 300             | 380                       | 300                |
| M 350             | 440                       | 350                |
| M 400             | 500                       | 400                |

NOTE 1: PRELIMINARY TEST:

A test conducted in a laboratory on the mix\* of the concrete produced in the laboratory with the object of

- a. Designing a concrete mix, before the actual concreting operation starts.
- b. Determining the adjustments required in the designed mix when there is a change in the mater also used during the execution of work, or
- c. Verifying the strength of concrete mix.

NOTE 2: WORK TEST:

A test conducted either in the field or in laboratory on the specimens made out of the concrete being used on the works.

NOTE 3: SIZE OF CUBES:

In the working test, with the approval of the Engineer-in-charge, 10 cm cubes may be used in place of 15 cm cubes provided the maximum nominal size of aggregate does not exceed 20 mm. Even the use of 15 cm cubes should normally be restricted to concrete having a maximum nominal size of aggregate not exceeding 40 mm. Where concrete with aggregates larger than 40 mm size is required to be tested, the size of cubes should be specified by the Engineer-in-charge, keeping in view that generally the length of size of the cube should be about four times the maximum nominal size of aggregate in the concrete constituting the cubes specimen.

NOTE 4: STRENGTH IN RELATION TO SIZE OF THE CUBE:

Where 10 cm cubes are used, the values obtained from tests on 10 cm cubes shall be reduced to the extent established by comparative preliminary tests with 10 and 15 cm cubes, or in the absence of such comparative tests, by 10 % of the value determined from the tests, in order to give the equivalent strength for 15 cm cubes, when cubes larger than 15 cm are adopted, generally no modification is necessary unless otherwise specified by the Engineer-in-charge.

~IS 516-1959 methods of test for strength of concrete

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NOTE 5: Cylinder strength - compressive strength test may, with the approval of the Engineer-in-charge, be conducted on 15 cm diameter and 30 cm high cylinders in accordance with good practice [VI-5 (4)\*] instead of one cube, where cylinder strength figures adopted the compressive strength figures given above shall be modified according to the formula. Minimum cylinder compressive strength requires, 0.8, compressive strength specified for 15 cm cubes.

\*THE CENTRAL BOARD RESEARCH INSTITUTE, New Delhi has carried out tests with a view to establishing a relation between water cement ratio and the compressive strength of concrete using ordinary port-land cements manufactured in the country confirming to accepted standards [VI-5 (2)].\*\*

As a result of these, it has been considered advisable to give graphs showing the relationship between the compressive strength of concrete mixes with different water cement ratios and the 7 days compressive strength of cement tested in accordance with good practices [VI-5 (2)]\*\*. These graphs have been given in Appendix-A as they would be some assistance in obtaining the water cement ratio for trial mixes of concrete.

TABLE - 2: OPTIONAL WORKS TEST REQUIREMENTS OF CONCRETE

CLAUSE 4.2.2.2.(a) (All Values in kg/cm<sup>2</sup>.)

All tests shall be conducted in accordance with good practice [VI-5(4)\*].

| Grade of Concrete | Compressive strength of 15 cm cubes minimum at 7 days | Modulus of rupture by Beams Test |            |
|-------------------|-------------------------------------------------------|----------------------------------|------------|
|                   |                                                       | At 72+2 hours                    | At 7 hours |
| M 100             | 70                                                    | 12                               | 17         |
| M 150             | 100                                                   | 15                               | 21         |
| M 200             | 135                                                   | 17                               | 24         |
| M 250             | 170                                                   | 19                               | 27         |
| M 300             | 200                                                   | 21                               | 30         |
| M 350             | 235                                                   | 23                               | 32         |
| M 400             | 270                                                   | 25                               | 34         |

NOTE:

Notes 3 to 5 under Table -1 are also applicable to this Table.

\* IS 516-1959 Methods of test for strength of concrete.

- IS 269-1967 Specification for ordinary, rapid, hardening, and low heat port-land cement.

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TABLE - 3.

CONCRETE MIX PROPORTIONS  
(CLAUSE 4.3.3.) ORDINARY CONCRETE

| Grade of Concrete | Total quantity of dry aggregates by volume per 50 Kg. of cement to be taken as the sum of the individual volumes of fine and coarse aggregates Max | Proportion of fine aggregate to coarse aggregate                                                             | Quantity of water per 50 kg of cement |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|---------------------------------------|
| M 100             | 300 litres                                                                                                                                         | Generally 1:2 for fine aggregate by volume but subject to an upper limit of 1: 1½ and a lower limit of 1:3 * | 34 litres                             |
| M 150             | 220 litres                                                                                                                                         |                                                                                                              | 32 litres                             |
| M 200             | 160 litres                                                                                                                                         |                                                                                                              | 30 litres                             |
| M 250             | 100 litres                                                                                                                                         |                                                                                                              | 27 litres                             |

**NOTE:** It may be noted for general guidance that M 100, M 150, M 200 and M 250 of ordinary concrete correspond approximately to 1:3:6, 1:2:4, 1:1½:3 and 1:1:2 nominal mixes of ordinary concrete currently used in the country.

\* The proportions of the aggregate should be adjusted from upper limit to lower limit progressively as the grading of fine aggregate becomes finer and the maximum size of coarse aggregate becomes larger. Example, for an average grading of fine aggregate that is, Zone II in accordance with good practice [VI-5 (1)] # the proportion shall be 1:1½, 1:2 and 1:3 for maximum size of aggregate 10 mm, 20 mm and 40 mm respectively.

TABLE - 4.

SURFACE WATER CARRIED BY AVERAGE AGGREGATE

| Aggregate                     | Approximate quantity of surface water lit/m <sup>3</sup> |
|-------------------------------|----------------------------------------------------------|
| Very wet sand                 | 120                                                      |
| Modulate wet sand             | 80                                                       |
| Moist sand                    | 40                                                       |
| *Moist gravel or crushed work | 20 to 40                                                 |

\*Coarser the aggregate, less the water it will carry.

# IS 383-1963 Specification for coarse and fine aggregates for natural sources for concrete.

IS 516-1959 Specification for natural and manufactured aggregates for use in mass concrete

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## ACCEPTANCE CRITERIA FOR CONCRETE (ALL GRADES)

| PRELIMINARY TEST                                                |                                   |                                                |                                                                                                                                                                                                                                                                                   | WORKS TEST                                                      |                                   |                                               |                                            |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                        |
|-----------------------------------------------------------------|-----------------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------|-----------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum No. of specimen from each batch [cubes]                 |                                   | Minimum frequency                              | Criteria for acceptance                                                                                                                                                                                                                                                           | Maximum No. of specimen taken from the same days work           |                                   |                                               |                                            | Minimum frequency                           |                                                                                                                                                                                                                                 | Criteria for acceptance                                                                                                                                                                                                                                                                                                |
| 7 days compressive strength test as an optional test if desired | 28 days compressive strength test |                                                |                                                                                                                                                                                                                                                                                   | 7 days compressive strength test as an optional test if desired | 28 days compressive strength test | 72+2 hrs. test as an optional test if desired | 7 days test as an optional test if desired | In terms of the quantity of concrete        | In terms of period                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                        |
| 5                                                               | 5                                 | For each batch with a minimum of three batches | Accept if average compressive strength of the specimens tested is not less than the compressive strength specified in Table 1 [for optional test see Table 2] subject to the conditions that only one out of five consecutive tests may give a value less than specified strength | 3                                                               | 3                                 | 3                                             | 3                                          | For every 150 m of concrete or part thereof | At such intervals as the Engineer-in-charge may decide. However, in the case of controlled concrete, samples shall be drawn on each day for the first 4 days of concreting and there after atleast once in 7 days of concreting | Accept if average strength of the specimens tested is not less than the strength specified in Table 1 [for optional tests see table 2] subject to the conditions that only one out of three consecutive tests may give a value less than specified strength but this shall not be less than 90 % of specified strength |

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| PRELIMINARY TEST                                                |                                   |                                                |                                                                                                                                                                                                                                                                                                                                  | WORKS TEST                                                      |                                   |                                               |                                            |                                             |                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------|-----------------------------------|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------|-----------------------------------------------|--------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Minimum No. of specimen from each batch [cubes]                 |                                   | Minimum frequency                              | Criteria for acceptance                                                                                                                                                                                                                                                                                                          | Maximum No. of specimen taken from the same days work           |                                   |                                               |                                            | Minimum frequency                           |                                                                                                                                                                                                                                 | Criteria for acceptance                                                                                                                                                                                                                              |
| 7 days compressive strength test as an optional test if desired | 28 days compressive strength test |                                                |                                                                                                                                                                                                                                                                                                                                  | 7 days compressive strength test as an optional test if desired | 28 days compressive strength test | 72+2 hrs. test as an optional test if desired | 7 days test as an optional test if desired | In terms of the quantity of concrete        | In terms of period                                                                                                                                                                                                              |                                                                                                                                                                                                                                                      |
|                                                                 | 10                                | For each batch with a minimum of three batches | Accept if average compressive strength of the specimens tested is not less than the compressive strength specified in Table 1 subject to the condition that the average compressive strength shall be more than the specified compressive strength in Table 1 by at least the value of standard deviation* of the series of test | 5                                                               | 5                                 | 5                                             | 5                                          | For every 150 m of concrete or part thereof | At such intervals as the Engineer-in-charge may decide. However, in the case of controlled concrete, samples shall be drawn on each day for the first 4 days of concreting and there after atleast once in 7 days of concreting | Accept if average strength of the specimens tested is not less than the strength specified in Table 1 [for optional tests see Table 2] subject to the condition that one out of five consecutive tests may give a value less than specified strength |

\* Standard deviation: Where  $d$  = Individual deviation from the average and  $n$  = Number of specimens tested.

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FOR TENDERER'S SPECIAL ATTENTION

1. "P" or "M" sand shall be used in all cases as per PWD norms.
2. Only clean fresh water shall be used on the work. The tenderer shall make their own arrangements for water and shall meet all charges therefore. The special attention of the tenderer is drawn to clause 39 of preliminary specification of the TNDSS regarding water and lighting.
3. The broken stone for concrete and RCC works should be of granite and passed by the Federation Engineer / Officer.
4. All iron work or steel work of every kind such as to be embedded in concrete shall immediately on arrival at the site be properly scrapped and wire brushed and given priming coat of approved lead painting without claim for extra.
5. The iron hold fasts shall be built up in walls in cement mortar 1:3 at the time of construction of walls. No extra claim shall be due for the same wherever hold fasts are to be provided to 9" thick walls. Those should be fixed with cement concrete 1:3:6 using 20 mm gauge broken granite stone jelly for proper anchorage and proper binding. No separate rate for such pockets of concrete filling at hold fast points will be allowed and this will be measured as masonry along with adjacent masonry.
6. Holes for electric wiring, water supply and drainage etc., shall be provided as directed during progress of work without any claim for extra.
7. The work will be carried with the least hindrance to the adjoining building and the tenderer will be responsible for any damages, caused to the existing fixtures, electric fittings, etc. in the course of execution and the tenderer shall make good any damages without any claim for extra.
8. In the case of 'T' beams and 'L' beams, the quantity shown in the schedule is the quantity of rib portion only. The top flange portion will be always measured with the general slab portion and paid for at the slab rate only. For all RCC works the rate shall include the treatment of bearing as per plate No. 2 of 1946 as per TNDSS (Page 3 of 1964 Edition).
9. CONCRETE WORK: All exposed concrete surfaces will be required to be finished by cement plaster as detailed in schedule 'A'.
10. PLASTERING: All external corners, edges of beams, edges of doors and window openings etc., shall be finished sharp using richer mortar and also finished truly vertical or horizontal as the case may be. The rate for plastering shall include the cost of finishing as above and no separate extra for the corners, edges, and beams etc., shall be paid.
11. If rates are not separately called for, for similar items of works in different floors, the tenderer should note that one rate is applicable for all floors indicated in the detailed

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plans. Any claims for extra for such items in different floors will not be entertained under any circumstances.

12. The Managing Director reserves the right, to split up the work and entrust the main work, internal water supply and sanitary arrangements to different tenderers without assigning any reason therefore.
13. The projection if any to the masonry will be measured under the relevant items and no extra will be paid for finishing the same.
14. a). The work in the Federation executed by the tenderer, under the contract shall be maintained by the tenderers until the work is taken over by the Federation Engineer. The tenderer shall accordingly arrange his own insurance against fire, flood, volcanic eruption, earthquake, other convention of nature and all other natural calamities risks arising out of acts of God during such period and that the Federation shall not be liable for any loss or damage occasioned by or arising out of any such acts of God.  
b). Provided however that the tenderer shall not be liable for all or any loss or damages occasioned by or arising out of acts of foreign enemies, invasion hostilities or war like operations (before or after declaration of war) rebellion, Ministry or usurped power.

#### **REVENUE RECOVERY ACT**

c). Whenever any amount has to be paid by the tenderer in view of termination of the contract by virtue of clause 87 (4) any amount that may be due or may become due from the tenderer under their presents and the tenderer is not responding to the demands for the payment of said amount, then the Federation shall be entitled to recover the said amount under the provision of the Revenue Recovery Act.

#### **RISK INSURANCE**

d). The work executed by the tenderer or under these contract shall be maintained by the tenderer's risk until the work is taken over the Federation Engineer. The Federation should not be liable to pay for any loss or damages occasioned by (or) arising out of fire, flood, volcanic, eruption, earth-slake other conclusion of nature and all other natural calamities risks arising out of acts of God during such period and that the option whether to take insurance coverage (or) not to care such risks is lift to the tenderer.

The tenderer shall not be liable for all or any loss of damages occasioned by or out of acts of foreign enemies' invasions, hostilities or war like operation (before or after declaration of war) rebellion, military or usurped power.

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**ADDITIONAL SPECIFICATIONS**

1. The arrangements of M.S. & RTS rods for all RCC works shall be in accordance with the working drawing supplied.
2. i). The planks for forms and centering for RCC works shall be of well seasoned timber approved by the Federation Engineer according to clause 10 of TNDSS No. 30. They must be made smooth and perfectly level at top so as to give smooth and even finish to the RCC ceilings. Alternatively, the tenderer may use steel sheets over wooden forms provided the required finish to the outside of the slab is obtained. Mango planks shall not be used under any circumstances. Centering and form work shall be provided to the extent and area ordered by the Federation Engineer during execution.
  - ii). Payments for centering works for all RCC items shall be made only after the concrete is laid, even though separate items for centering works are included in the schedule. The centering and form shall be provided to the extent and area ordered by the Federation Engineer during execution.
  - iii). All cement concrete for RC works shall be machine mixed and vibrated.
  - iv). All lime mortar shall be ground in mortar well as per TNDSS.

**ADDITIONAL CONDITION**

**SPECIFICATION FOR SANITARY, DRAINAGE AND WATER SUPPLY ARRANGEMENTS**

1. Water closets, basins, urinals, sinks and other sanitary-ware shall be approved make as required in the relevant items. The fixing of these shall be in accordance with the specification attached.
2. The rates shall include all dismantling, making holes in walls or slabs, and restoring the structure to the original conditions after the completion of the work.
3. The work should be carried out with least hindrance to the adjoining buildings and the tenderer shall be responsible for any damage caused to the existing fixtures, electrical fittings etc. in the course of execution and the tenderer shall make good any such damage without claim for extra.
4. The rate for laying stoneware pipes shall include necessary earthwork excavation for trenches (irrespective of nature of soil and depth) and all incidental charges such as shoring, strutting and balling out water, refilling trenches after the completion of work and consolidating, removing the surplus earth to places shown within the compound and making good the damages to roads and other structure.
5. The rate for laying GI Pipes and CI Pipes (or PVC Pipes) shall include earthwork for trenching and refilling them and fixing with wooden plugs, GI /CI clamps and brass screws where the pipes are fixed to walls. The rates for the pipes shall also include wrapping them with tarred tape where they are buried in earth tarring the portions

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- embedded in masonry and painting with white lead two coats for portions above ground level.
6. The clamps for GI Pipes, fittings should not be spaced more than 150 mm apart. The wooden plugs for pipe and bracket fittings should be properly fixed in CM 1:3 in holes made in masonry with the wide and wedge shaped plugs inside and not hammered with them and into walls. The size of plugs should not be less than 1 square inch at one end and 1½ square inch at other end with a depth not less than 9 inch.
  7. Paint with two coats of best white glazed paint or any other colour approved by the Federation Engineer over a priming coat of red lead to all flushing tanks, brackets, clamps used for fixing pipes and all lead connections.
  8. The tenderer should employ sufficient number of qualified licensed plumber with necessary experience and skill in the trade to the satisfaction of the Federation Engineer concerned for execution of water supply and sanitary fittings of work.
  9. The Indian Type Water Closet shall be with 'P' or 'S' trap and glazed earthenware footrests it shall be fixed in position of floor level in a bed concrete brick jelly in lime mortar 1:2 so as to completely embed the closet, trap and footrests. The existing masonry structure after dismantling the floor making the holes etc. shall be restored to its original conditions after completing the work. The flooring round the closet shall be finished off in cement mortar with adequate slope all round for drainage into as per the sanitary Engineer's type design. The footrests should be fixed at an angle as per standards.
  10. The PVC flushing tanks shall be of three gallons capacity of Indian make (confirming to ISI specification) supported on CI brackets with necessary GI chain and handle for pull float bell valve ½" PVC connections to the water main and closet including prior to the white glazed paint two coats over a priming coat of red lead.
  11. The fixing of water closet shall include the dismantling of existing floor wherever indicated making holes in masonry walls etc. and restoring structure to original condition after completion of the work. The flushing tank and accessories will be fixed to the walls with necessary clamps and brackets in cement mortar 1:4.

#### **ADDITIONAL CONDITION FOR TENDERER'S SPECIFIC CONDITION**

If at any time the Federation Engineer shall be of the opinion that the tenderer is delaying commencement of the work or violating any of the progress of work is defined by the tabular statement rate of progress in the article of agreement the Federation Engineers shall also advise the tenderer in writing and at the same time demand compiled. If the tenderer neglects to comply with such demand within 7 days after the receipt of the notice it shall those or at any time thereafter be lawful for the Managing Director to determine the contract. Which determination shall carry with the forfeiture of the security deposit and total sum of the amount withheld from the final bill together with value of such work as may have

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been executed and not paid for such proportion of such total sums as shall be assessed by the Federation Engineer.

The water for the works shall be as far as practicable free from earth vegetable or organic matter and from salts or other substance likely to interfere with the setting of mortar or otherwise prove harmful to the work.

All terms of works shall be done in accordance with relevant classes of TNDSS and addenda volume to the TNDSS or addenda from time to time.

The tenderer shall be responsible for the safe custody of all the departmental materials once they are handed over to the tenderer at the departmental stores. The cost of any materials in the custody of the tenderer stolen, destroyed or damaged or if rendered unfit for the work will be recovered from the tenderer at the issue rate.

For testing the concrete and aggregate the tenderer must procure the following equipment and make them available at site.

- a) Steel mould for 45 cm cubes of concrete (the mould will be in two halves for easy removal).
- b) Slump cone for testing consistency (slump test) the cone will be 30 cm height truss castled cone with top and bottom diameters of 20 cm and 30 cm respectively. In addition a steel rod 25 cm dia and 50 cm in length and with tamping and rounded is to be procured.
- c) For finishing fineness moulds, and coarse aggregate expand operated over apparatus may be procured along with weighing machine for weighing the aggregate and sand.
- d) In the case of any breach of the terms of the contract the contract will be closed at the risk of cost of the tenderer in addition to the forfeiture of the EMD and security deposit.
- e) The testing is to be done at the tenderer's cost for all building materials and also for concrete cubes.
- f) The work shall be executed and measured as per metric dimension given in the schedule of quantities, drawings etc. (F.P. Units where indicated are for guidance only).
- g) Unless otherwise specified all the rates quoted by the tenderers shall be for works at all levels of the buildings.
- h) Rates for every item of works to be done under this contract shall be for all lifts and leads, heights, depths, lengths and widths except when specifically mentioned in the item, otherwise nothing extra will be paid on this account.
- i) The rate for all item in which use of cement is involved is inclusive of charges for curing.

Signature of the Tenderer

ADDITIONAL CONDITIONS

WATER SUPPLY FOR CONSTRUCTION AND OTHER USE

Unless otherwise specified the tenderer shall make their own arrangement for water for the work and nothing extra shall be paid for the same.

The water used by the tenderer shall be fit for drinking as well as construction purposes to the satisfaction of the Federation Engineer.

The tenderer may be allowed to construct temporary tube well / open well in the project site for getting water after he has got written consent of the Federation Engineer. The tenderer shall be required to provide necessary arrangements to avoid any accident or damage to the buildings, roads and service lines adjacent to the tube well / open well sunk. The tenderer shall dismantle the tube well / open well after completion of work and restore the ground to its original condition at their cost.

In case the Federation supplies water, it shall be on the following conditions:

1. Water charges at 0.50 % shall be recovered from the total value of contract from each interim bill.
2. The water shall be provided at one point in the site at the discretion of the Engineer. The tenderer shall make their arrangement for water connection and distribution pipelines in the construction area.
3. The Federation shall not guarantee the maintenance of uninterrupted water supply. It will be the responsibility of the tenderer to make alternative arrangements for water supply at their own cost in the event of any breakdown so that the progress of work is not affected for want of water. No claim or damage or refund of water charges shall be entertained on account of such breakdown.

Signature of the Tenderer

**POWER (ELECTRICITY) SUPPLY**

Successful contractor shall make own arrangement to obtain temporary EB connection from TNEB for the construction work at his own cost and EB bill amount should be settled as per claims. All the works shall be done as per IEA rules. The temporary lines shall be removed by the tenderer at his cost after the completion of the work or if there is any hindrance, to the other works due to the alignment of these lines, during the contract period.

In case the Federation provides the power supply, it shall be on the following conditions:

1. The supply shall be made at one point in the site at the discretion of the Engineer. The tenderer shall make their own arrangement to carry and distribute the power wherever it is required within the site as per IEA rules. An Energy Meter shall be installed at the site by the tenderer for recording the power consumed by the tenderer and the same shall be recovered at the prevailing rate of supply of electricity by the local electricity board or other local authorities as the case may be.  
(or)
2. If the Energy meter is not fixed for taking readings/faulty the electricity charges shall be recovered from the interim bills at the rate of 0.50 % of the value of work done during that particular period.
3. Power required for commissioning and trial runs of the plant shall be supplied free of cost.
4. The Temporary supply lines shall be removed and the tenderer shall be clear the site after the completion of work at their own cost .

Signature of the Tenderer



SCHEDULE 'A'SCHEDULE OF RATES AND APPROXIMATE QUANTITIES

The quantities given here and those upon which the lump-sum tender most of the work is based but they are subject to alteration, omissions, deductions and additions as provided for in the condition of their contract and do not necessary to show the actual quantities of work to be done. The unit rates noted below is this governing payment for extras or deductions or omissions according to the conditions of contract as set for in the preliminary specifications of the Tamil Nadu Detailed Standard Specification and other condition of specification of the contract.

It is to be expressly understood that the measured works is to be taken net (not standing any custom or practice to the tenderer ) according to the drawing or as may be ordered from time to time by the Federation Engineer and the cost calculated by measurement or weight.

**ADDITIONAL CONDITION FOR ROOFING WORK****Providing, fabricating and erecting MS structural steel work for trusses, purlins, girders, columns, rafters, runners, struts, wind ties, bracings, sag rods, etc.**

All structural steel materials such as angles, RS joists, flats, tees, plates, channels, etc. shall conform to the latest edition of IS 226. All structural steel shall be free from twists/bents before fabrication and such lengths should be discarded. Cutting of members shall be done by shearing, cropping, sawing or gas cutting. Contact surfaces of plates and butt joints shall be accurately machined over the whole area so that the parts connected shall butt over the entire surface of contact. Welding of pieces shall be done with the approval of the Engineer.

The components parts shall be assembled in such a manner that they are not damaged in any way and specific cambers as shown in the drawing or as directed by the engineer, shall be provided.

For bolted connection, where ever necessary washers shall be tapered or otherwise suitably shaped to give satisfactory bearing. The threaded portion of the bolt shall project beyond the nut by at least 1.5 threads.

Welding shall be done in accordance with the latest edition of IS 813 and 814, Code of Practice for use of Electric Arc welding for general construction in mild steel. In welding it must be ensured that the base metal is in fused state when filled metal makes contact with it, filler metal does not overflow upon and unused base metal, base metal is not cut along the weld edges, flowing metal floats the slag, oxide and gas bubbles at the surface behind advance pole.

Signature of the Tenderer

For this purpose current shall be adjusted or the electrode size is changed. Welding shall be free from cracks, discontinuity, under or over size welding thickness.

Surface to be welded shall be free from loose mill scale, rut, grease, paint and any other foreign material. As far as possible avoid the welding at heights and at difficult positions. Generally fillet welding is preferred. The parts to be welded are brought in as close contact as practicable and rigidly clamped together.

Before erection steel work shall be thoroughly cleaned of rust, loose scale, dust, welding slag and shall be given one coat of red oxide primer of approved make and one coat of first quality synthetic enamel paint of approved make as specified in the item before erection and final coat of painting after the erection as directed.

Steel members shall be hoisted and put in position carefully without any damage to the member and to the building and labour. The trusses shall be lifted at such points that they do not buckle or deform or be unduly stressed. The end of the truss which faces the prevailing wind shall be fixed and the other end may be kept free to move. The steel work shall be securely fastened wherever necessary, temporarily braced, to provide for all loads to be carried by the member during erection including the load due to the erection equipment and its operation. No permanent bolting or welding is done until proper alignment has been obtained. The holes for the rivets shall be determined with the help of templates and drilled. Erection clearance of the cleared ends shall not be more than 1.5mm and without clearing end clearance shall not be more than 3mm. Grouting or embedding of structural steel members done after the approval of the alignment, level and position of the members by the engineer. In case, bolts receiving the base plate of the truss is not grouted using template and pockets left, in such case the bolts shall be grouted with non shrink ready mix grout.

**Important points:**

Before the actual execution of the job, the contractor shall prepare fabrication drawings for all structural steel work from the structural drawings supplied to him and determine the exact cutting lengths of the members, sizes of gusset plates, welding lengths by marking out on a level platform to full scale.

Welding plant, electrodes and other equipment, scaffolding, labour shall be arranged by the contractor at his cost. Erection equipment of required capacity, sufficient number of spare parts and staff should be maintained by the contractor at site at his cost.

Signature of the Tenderer

**Mode of Measurement:** All structural steel members shall be measured in length, area of MS plates shall be measured in Sq.m and converted into weights as per IS tables for steel and paid for in Kg. All rivets, bolts shall be measured in Kg and paid for in same rate as structural steel. No deduction shall be made for rivet holes and bolts. Nothing extra shall be paid for wastages and rolling margin in case of over weight. However in case of underweight actual shall be paid for.

**Providing, fabricating and erecting MS structural steel work for trusses, purlins, girders, columns, rafters, struts, wind ties, bracings, etc. with MS B class pipes/ Tubular section**

The general specifications are same as given in item 8.01 but with MS B class pipes, medium duty square or rectangular sections of approved make as per item description given in the schedule of quantities. Part of work involving standard rolled sections shall be measured .

**Mode of Measurement:** All structural steel members shall be measured in length, area of MS plates shall be measured in Sq.m and converted into weights as per IS tables for steel and paid for in Kg. All rivets, bolts shall be measured in Kg and paid for in same rate as structural steel. No deduction shall be made for rivet holes and bolts. Nothing extra shall be paid for wastages and rolling margin in case of over weight. However in case of underweight actual shall be paid for.

PART – B

COMMERCIAL BID

SHOULD BE SEPARATED

Signature of the Tenderer



aavin

**TCMPF LIMITED**  
"AAVIN ILLAM"  
NANDANAM: CHENNAI - 35.

TWO PART TENDER

PART - B

**COMMERCIAL BID**

**CONSTRUCTION OF ADMINISTRATIVE OFFICE BUILDING AT  
THIRUVANNAMALAI DCMPU LTD**

THE TAMILNADU COOPERATIVE MILK PRODUCERS' FEDERATION LIMITED,  
AAVIN ILLAM,  
NANDANAM,  
CHENNAI – 600 035.

Signature of the Tenderer



aavin

**TCMPF LIMITED**  
**“AAVIN ILLAM”**  
**NANDANAM: CHENNAI - 35.**

TWO PART TENDER

PART - B

COMMERCIAL BID

**CONSTRUCTION OF ADMINISTRATIVE OFFICE BUILDING AT  
 THIRUVANNAMALAI DCMPU LTD**

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| 2.     | QUALIFICATION                    |
| 3.     | PRICE SCHEDULE                   |

Signature of the Tenderer

ISSUE LETTER FOR TENDER DOCUMENT

PART -B,

COMMERCIAL BID

This Two Part tender document set containing of Part – B Commercial bid.

Issued to:

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For and on behalf of

The Tamilnadu Coop Milk Producers' Federation Limited,  
'Aavin Illam', Nandanam  
Chennai - 35.

ISSUED BY;

Deputy General Manager (Civil),  
T C M P F Limited  
Aavin Illam,Nandanam  
CHENNAI – 600 035

Signature of the Tenderer

**QUALIFICATION:**

The Part-B commercial offers of such of those tenderer who qualify themselves for being considered for the work of "**CONSTRUCTION OF ADMINISTRATIVE OFFICE BUILDING AT THIRUVANNAMALAI DCMPU LTD**" by fulfilling the entire terms and conditions as laid in Part - B "Commercial Bid" of this tender, will be considered for opening of Part-B commercial bid.

Other commercial offers not qualifying as above will be rejected outright.

**Goods and Service Tax:**

The tenderer should furnish a self attested copy of the GST registration certificate along with Tender document.

The contractor shall claim GST only in case of a registered supplier and should raise tax invoice, without fail.

All duties, taxes and other levies payable by the contractor under the contract, or for any other cause, as applicable on the date of submission of Bid, shall be included in the rates and prices and the total bid price submitted by the bidder.

Signature of the Tenderer



## PRICE SCHEDULE

### CONSTRUCTION OF ADMINISTRATIVE OFFICE BUILDING AT THIRUVANNAMALAI DCMPU LTD

| S. No | Qty    | Unit | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rate in figures and in words | Unit            | Amount in Rs. |
|-------|--------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|---------------|
| 1     | 245.00 | Cum  | Earth work narrow excavation for foundation in all soils and sub-soils and to full depth as may be directed except hard rock requiring blasting inclusive of shoring, shuttering and baling out water wherever necessary, refilling the sides of foundation with excavated earth in layers of not more than 15 cm thick, watered, well rammed, consolidated and depositing the surplus earth on bank with initial lead of 10 m & initial lift of 2 m, clearing and leveling the site etc., complete as directed by the Federation officers and as per standard specification. |                              | One cubic metre |               |
| 2     | 43.00  | Cum  | Supply and filling with clean sand for foundation and basement to required thickness and in layers of not more than 15 cm thick, watered, well rammed and consolidated etc., complete as directed by the Federation Officers and as per standard specifications.                                                                                                                                                                                                                                                                                                              |                              | One cubic metre |               |
| 3     | 165.00 | Cum  | Supply and filling with gravel for basement to required thickness and in layers of not more than 15 cm thick, watered, well rammed and consolidated etc., complete as directed by the Federation Officers and as per standard specifications.                                                                                                                                                                                                                                                                                                                                 |                              | One cubic metre |               |

Signature of the Tenderer

**No of corrections:**  
**No of Over writings:**

| S. No | Qty    | Unit | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Rate in figures and in words | Unit             | Amount in Rs. |
|-------|--------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|---------------|
| 4     | 63.00  | Cum  | Plain Cement Concrete 1:5:10 [one part cement, five parts sand and ten parts aggregate]using 40 mm size hard granite broken stones for foundation including de-watering if found necessary and laid in layers of not more than 15 cm thick for flooring including rendering the top surface rough to take floor finish etc., and including side shuttering if required and compaction, curing etc., complete as directed by the Federation officers and as per standard specification.                                                                                                                                                                                                                                                                                                                                               |                              | One cubic metre  |               |
| 5 a   | 255.00 | Sqm  | Supply, erecting steel centering using M.S. sheet of size 90 x 60 cm and BG 10 gauge stiffened welded with M.S. angle of size 25 x 25 x 3 mm laid over silver oak / country wood joist of size 10 x 6.5 cm spaced at about 90 cm centre to centre and supported by casurina props of 10 to 13 cm dia spaced at 75 cm centre to centre for all type of RCC roof slab, lintel beam, "T", "L" beam, landing slab, plinth beam, grade beam, column footing, column, sunshade, facia, sloped roof, waist slab etc., including necessary supports with all cross bracings, filling slits and holes in the surfaces [The retrieved materials should be taken back by the contractor] and side shuttering etc., complete as directed by the Federation officers and as per standard specification. <b>Upto Basement level Plain surface.</b> |                              | One Square metre |               |
| 5 b   | 35.00  | Sqm  | Upto Basement level -Column                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              | One Square metre |               |

Signature of the Tenderer

No of corrections:  
No of Over writings:

| S. No | Qty    | Unit | Description                                | Rate in figures and in words | Unit             | Amount in Rs. |
|-------|--------|------|--------------------------------------------|------------------------------|------------------|---------------|
| 5 c   | 110.00 | Sqm  | Basement upto 3.30m level - Plain surface. |                              | One Square metre |               |
| 5 d   | 122.00 | Sqm  | Basement upto 3.30m level -Columns         |                              | One Square metre |               |
| 5 e   | 483.00 | Sqm  | 3.30m - 4.30m level - Plain surface.       |                              | One Square metre |               |
| 5 f   | 37.00  | Sqm  | 3.30m to 4.30m level-Column                |                              | One Square metre |               |
| 5 g   | 37.00  | Sqm  | 4.30 - 5.30m level -Columns                |                              | One Square metre |               |
| 5 h   | 37.00  | Sqm  | 5.30 - 6.30m level-Columns                 |                              | One Square metre |               |

Signature of the Tenderer

**No of corrections:**  
**No of Over writings:**

| S. No | Qty   | Unit | Description                                                                                                                                                                                                                                                                                                                                      | Rate in figures and in words | Unit             | Amount in Rs. |
|-------|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|---------------|
| 5 i   | 25.00 | Sqm  | 6.30 - 7.30m level- Plain surface                                                                                                                                                                                                                                                                                                                |                              | One Square metre |               |
| 5 j   | 12.00 | Sqm  | 6.30 - 7.30m level -Columns                                                                                                                                                                                                                                                                                                                      |                              | One Square metre |               |
| 6 a   | 56.00 | Cum  | Reinforced cement concrete machine mixed 1:2:4 using 20 mm machine crushed hard granite broken stones for all RCC works cost excluding centering and reinforcement but including compaction with mechanical vibrators and curing etc., complete as directed by the Federation officers and as per standard specification.<br>Upto Basement level |                              | One cubic metre  |               |
| 6 b   | 90.00 | Cum  | Basement to 4.50m level                                                                                                                                                                                                                                                                                                                          |                              | One cubic metre  |               |
| 6 c   | 9.50  | Cum  | 4.50m level.- 9.0m level                                                                                                                                                                                                                                                                                                                         |                              | One cubic metre  |               |

Signature of the Tenderer

**No of corrections:**  
**No of Over writings:**

| S. No | Qty    | Unit | Description                                                                                                                                                                                                                                  | Rate in figures and in words | Unit             | Amount in Rs. |
|-------|--------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|---------------|
| 7     | 142.00 | QTL  | Supplying, fabricating and placing in position Mild Steel / Ribbed Tor Steel grills for all RCC works as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification.   |                              | One Quintal      |               |
| 8     | 63.00  | Sqm  | Brick work in cm 1:3- 115mm tk using stock brick of size9"x4.5"x3"including curing etc complete with standard specifications. <b>0.00-4.50m level</b>                                                                                        |                              | One Square metre |               |
| 9 a   | 36.00  | Cum  | Brick work in cm 1:5 using ground moulded chamber burnt brick of size9"x4.5"x3"including curing, racking and cost and conveyance of all material and labour charges etc complete with standard specifications.<br><b>Upto Basement level</b> |                              | One cubic metre  |               |
| 9 b   | 62.00  | Cum  | Basement to 4.50m level.                                                                                                                                                                                                                     |                              | One cubic metre  |               |
| 9 c   | 47.00  | Cum  | 4.50m level.- 9.0m level                                                                                                                                                                                                                     |                              | One cubic metre  |               |

Signature of the Tenderer

**No of corrections:**  
**No of Over writings:**

| S. No | Qty     | Unit | Description                                                                                                                                                                                                                                                               | Rate in figures and in words | Unit             | Amount in Rs. |
|-------|---------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|---------------|
| 10    | 530.00  | Sqm  | Plastering in C.M 1:3 - 10 mm thick including the cost and conveyance of all to site and all labour charges etc complete and as per standard specifications.                                                                                                              |                              | One Square metre |               |
| 11    | 81.00   | Sqm  | Plastering in C.M 1:3 - 20 mm thick including the cost and conveyance of all to site and all labour charges etc complete and as per standard specifications.                                                                                                              |                              | One Square metre |               |
| 12    | 1530.00 | Sqm  | Plastering in C.M 1:5 - 12 mm thick including the cost and conveyance of all to site and all labour charges etc complete and as per standard specifications.                                                                                                              |                              | One Square metre |               |
| 13    | 270.00  | Sqm  | Supplying and laying Vitrified tiles for floor (Somany/Kajaria) for a size of 0.60*0.60m of approved quality and color set in C.M 1:3 20mm thick including the cost and conveyance of all to site and all labour charges etc complete and as per standard specifications. |                              | One Square metre |               |

Signature of the Tenderer

**No of corrections:**  
**No of Over writings:**

| S. No | Qty   | Unit | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Rate in figures and in words | Unit             | Amount in Rs. |
|-------|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|---------------|
| 14    | 18.00 | Sqm  | Daddoing with Ceramic tiles 200*300*6mm size of colored designed of approved quality set in CM 1:2, 10 mm thick and pointing with white cement etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              | One Square metre |               |
| 15    | 93.00 | Sqm  | Supply and paving the floor with ceramic tiles of 305*305*6mm size color and design tiles (Acid/Alkali proof vitreous) laid in cement mortar 1:3, 10 mm thick and applying cement slurry etc., complete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              | One Square metre |               |
| 16 a  | 15.40 | Sqm  | Providing of 35mm thick factory made pre-laminated ABS (Acrolynitrile Butadiene Styrene) Door Shutter moulded in different designs, consisting of all round frame made out of water proof solid foam PVC bar of size 20 x 32mm, reinforced by 32 x 32mm - 2 Nos., for vertical made out of LVL (Laminated Veneer Lumber), core material of 32mm thick high density craft paper honey comb board, sandwiched on both sides with pre-laminated ABS sheet thickness of 1.5mm. PVC edge banding of size 0.45mm on the vertical sides. Hardware made out of steel coated butterfly hinges - 3 Nos., for each shutter and ISI make SS round lock complete for finished item of work, complete complying with the standard specification. The door shutter and frame should be got approved from the Executive Engineer before use on work.<br><b>Plain Pre-laminated Door</b> |                              | One Square metre |               |

Signature of the Tenderer

**No of corrections:**  
**No of Over writings:**

| S. No | Qty   | Unit | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Rate in figures and in words | Unit             | Amount in Rs. |
|-------|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|---------------|
| 16 b  | 4.00  | Nos  | Supply and fixing of <b>PVC door</b> of specified size with necessary hardware fittings like handle hinges etc., complete as directed by the Federation officers and as per standard specification. The door shutter and frame should be got approved from the Executive Engineer before use on work. 0.75 X 2.10 M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                              | Each             |               |
| 17    | 44.00 | Sqm  | Supplying, fabricating and fixing in position of Alumi.Anod.natural colour matt finish Window half glazed and half PLB glazed door using rectangular Alu.Box section of follow board / fully 12 mm thick PLB board / fully 5.5 mm thick glazed door using rectangular Alu.Box section of following sizes for frame and shutter with necessary accessories such as rubber beading, Al. Clips, Best double action floor springs, Handles, Locks and glass including all materials, Labour, power consumption charges required for fabrication if necessary chipping, dismantling making necessary holes in RCC Columns, Beams or Masonry wherever necessary with power drill to the extent required and made good to the original conditions after fixing etc., complete. The Alumi. surface must be anodised with matt finish under electrically controlled condition in accordance with IS specification 1868 / 1962 of Anodic film thickness of not less than 15 Microns (Fifteen) for all sections. All the materials should be got approved by the Engineer - In charge before fixing as directed. |                              | One Square metre |               |

Signature of the Tenderer

**No of corrections:**  
**No of Over writings:**



| S. No | Qty     | Unit | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Rate in figures and in words | Unit             | Amount in Rs. |
|-------|---------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------|---------------|
| 18    | 2.00    | Sqm  | Supplying and fixing in position of aluminium window in accordance with ISI specification anodised colour matt finish Louvered Ventilator. The outer frame will be 62x38x2mm @ 1.17 Kg / m and the louvers with moving arrangements will be made with Alu. Channel of size 60x30x4 mm @ 1.27 kg /m with necessary glass pans for louvers 4mm thick Al. Clips, including all materials, labour & power consumption charges required for fabrication if necessary chipping dismantling making holes in RCC columns, beams or masonry wherever necessary with power drill to the extent required and make good to the original conditions after fixing etc., complete. The Aluminium surface is to be anodised with matt finish under electrically controlled condition in accordance with ISI specification - 1868/1962 of anodic film thickness of not less than 15 microns (fifteen) for all sections. All the materials should be got approved by the Engineer-in-charge before fixing in position as directed. |                              | One Square metre |               |
| 19    | 80.00   | Sqm  | Painting new iron work for window shutters, ventilators, iron grills, weld mesh screen with two coats of approved quality and colour of ready mixed synthetic enamel paint and scraping the surface with emery paper, in all floors etc., complete as directed by the Federation officers and as per standard specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              | One Square metre |               |
| 20    | 2060.00 | Sqm  | Painting two coats with Plastic Emulsion paint of approved quality and colour over white cement priming coat for new plastered wall surfaces, cost including curing and also make good of the surfaces with sand paper, putty, scaffolding etc., complete as directed by the Federation officers and as per standard specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                              | One Square metre |               |

Signature of the Tenderer

**No of corrections:**  
**No of Over writings:**

| S. No | Qty     | Unit | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Rate in figures and in words | Unit              | Amount in Rs. |
|-------|---------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------|---------------|
| 21    | 316.00  | Sqm  | Finishing the top of floor with Ellis pattern 1st sort 25 mm thick etc., complete as directed by the Federation officers and as per standard specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                              | One Square metre  |               |
| 22    | 341.00  | Sqm  | Supply & fixing in position of powder coated MS roofing sheets of 0.47 mm for roofing including bolts, nuts and washers etc., complete as directed by the Federation officers and as per standard specification.                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              | One Square metre  |               |
| 23    | 2705.00 | Kg   | Supplying, fabricating and placing in position MS Truss for Roofing as per design given including cost of steel, bolt nut in all floors etc. complete complying with standard specification.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              | One Kilo gram     |               |
| 24    | 12.00   | Rm   | Manufacturing, Supplying and Fixing of Stainless Steel Hand rails for staircase near wet riser using 50mm dia 304L Grade Stainless Steel pipe of 1.60mm thick will be provided with tubular supports made of 304L Grade Stainless Steel pipe of 25mm dia of 1.60mm thick welded to the railing. The supports will be grouted into the wall and provided with 93.00mm thick Stainless Steel circular base plate of 304 Grade. The rate shall included for grouting into concrete with necessary supporting arrangements the hand rail in floor polishing buffing, bonding, cutting, grinding, conveyance, welding charges, electrical charges, etc. Complete. |                              | One Running metre |               |

Signature of the Tenderer

**No of corrections:**  
**No of Over writings:**

| S. No | Qty  | Unit | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Rate in figures and in words | Unit | Amount in Rs. |
|-------|------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------|---------------|
| 25    | 5.00 | Nos  | Construction of manhole chamber of size of inner dimension 0.60x0.60 and 0.45m to 1.00m depth over a bed of PCC 1:5:10 , 100mm tk using 40mm metal and side wall with brickwork etc and covered with heavy duty chamber cover to a required size etc complete as per standards.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                              | Each |               |
| 26    | 4.00 | Nos  | Supplying and fixing in position White / Colour Glazed Model Floor Mounted European Water Closet of best quality and approved make with 100mm "P" or "S" trap connecting with CI pipe of 100mm dia / PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing 10 litres capacity PVC / 12.5 litres capacity porcelin low level flushing tank with a pair of CI brackets, etc., complete with all fittings, such as, 15mm brass ball valve with polythene float with brass handle, union coupling connected by means of 40mm white PVC flush hand using indian adopter joint including all internal fittings, such as, 15mm bras connections, 15mm GM wheel valve, 15mm brass nipple (2 Nos.), 15mm nylon connection, TW plugs, screws and also giving necessary connection to the PVC pipe and painting the CI brackets with 2 coats of approved paint over one coat of red oxide primer, dismantling the masonry and re-doing the dismantled masonry to original condition, etc., complete complying with standard specifications. (The EWC and flushing tank with all accessories should be got approved by the Executive Engineer before use on works)<br>Floor Fitting |                              | Each |               |

Signature of the Tenderer

**No of corrections:**  
**No of Over writings:**

| S. No | Qty  | Unit | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Rate in figures and in words | Unit | Amount in Rs. |
|-------|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------|---------------|
| 27    | 2.00 | Nos  | Supply of IWC of ISI approved make and colour with double flapped cover with necessary P or S traps with all necessary internal fittings etc and fixing in position etc complete as directed by the Federation Officers.(580 x 440 mm)                                                                                                                                                                                                                                   |                              | Each |               |
| 28    | 4.00 | Nos  | Supply and fixing of Lipped Mouth Porcelain Flat Back Urinal with all accessories such as 32mm dia Bell mouth PVC connection, 15mm dia G.M. wheel valve, 15mm dia 'B' Class G.I. waste water pipe, 15mm dia nylon connection, 15 mm dia brass nipple etc., (White colour)                                                                                                                                                                                                |                              | Each |               |
| 29    | 4.00 | Nos  | Supply & fixing in position Indian make white glazed earthen ware wash hand basin of approved make with a pair of CI brackets, 12 mm CP Pillar tap, 40 mm PVC waste pipe and couplings, 10 mm CP connection and with 1 No. 12 mm CP concealed stop cock and giving necessary connection including cost of white lead, TW plugs, clamps, screws, washers etc., complete as directed by the Federation officers and as per standard specifications. (550 x 400 mm - White) |                              | Each |               |
| 30    | 4.00 | Nos  | Supply & fixing in position of special type mirror of size 1000 x 780 mm with necessary fittings, screws etc., complete as directed by the Federation Engineers and as per standard specifications.                                                                                                                                                                                                                                                                      |                              | Each |               |

Signature of the Tenderer

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**No of Over writings:**

| S. No | Qty   | Unit | Description                                                                                                                                                                                                                                                                                                                                             | Rate in figures and in words | Unit              | Amount in Rs. |
|-------|-------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------|---------------|
| 31    | 4.00  | Nos  | Supply & fixing CP Towel Rail of 60 cm long and 20 mm dia with brackets including TW plugs, screws etc., complete as directed by the Federation Engineers and as per standard specifications.                                                                                                                                                           |                              | Each              |               |
| 32 a  | 28.00 | Rm   | Supply & laying / fixing of UPVC pipe of approved quality along the wall surface / trenches including cost of pipe including all specials, solution, clamps, scaffolding charges, necessary earth work excavation & refilling the same etc., complete as directed by the Federation officers and as per standard specifications.<br>65 mm dia UPVC pipe |                              | One Running metre |               |
| 32 b  | 45.00 | Rm   | 32 mm dia UPVC pipe                                                                                                                                                                                                                                                                                                                                     |                              | One Running metre |               |
| 32 c  | 40.00 | Rm   | 20 mm dia UPVC pipe                                                                                                                                                                                                                                                                                                                                     |                              | One Running metre |               |

Signature of the Tenderer

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**No of Over writings:**

| S. No | Qty   | Unit | Description                                                                                                                                                                                                                                                                                                 | Rate in figures and in words | Unit              | Amount in Rs. |
|-------|-------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------------|---------------|
| 33 a  | 68.00 | Rm   | Supply & fixing of PVC pipe of ISI make including all special, cutting, threading, glues for sanitary water connecting line etc., complete as directed by the Federation officers and as per standard specifications.<br>160 mm dia PVC pipe of 6 kgf/cm <sup>2</sup>                                       |                              | One Running metre |               |
| 33 b  | 74.00 | Rm   | 75 mm dia PVC pipe of 6 kgf/cm <sup>2</sup>                                                                                                                                                                                                                                                                 |                              | One Running metre |               |
| 34    | 50.00 | Rm   | Supply & fixing of PVC pipe of 110 mm dia 4kg/cm <sup>2</sup> of ISI make including all special, cutting, threading, glues for sanitary water connecting line etc., complete as directed by the Federation officers and as per standard specifications.<br>PVC pipe of 110 mm dia 4kg/cm <sup>2</sup> - RWP |                              | One Running metre |               |
| 35    | 4.00  | Nos  | Supply & fixing of STOP COCK 15 mm dia with necessary fittings.complete as directed by the Federation officers and as per standard specifications.                                                                                                                                                          |                              | Each              |               |

Signature of the Tenderer

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**No of Over writings:**

| S. No | Qty     | Unit  | Description                                                                                                                                                                                                                      | Rate in figures and in words | Unit      | Amount in Rs. |
|-------|---------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|---------------|
| 36    | 4.00    | Nos   | Supply & fixing of CP ANGLE COCK tap with necessary fittings.complete as directed by the Federation officers and as per standard specifications.                                                                                 |                              | Each      |               |
| 37    | 4.00    | Nos   | Supply & fixing of GATE VALVE/Wheel Valve 32mm with necessary fittings.complete as directed by the Federation officers and as per standard specifications.                                                                       |                              | Each      |               |
| 38    | 4.00    | Nos   | Supply & fixing of FLOOR TRAP 100x75mm with necessary fittings.complete as directed by the Federation officers and as per standard specifications.                                                                               |                              | Each      |               |
| 39    | 5000.00 | Litre | Supply & fixing ISI make PVC water tank of capacity 5000 litres including fixing in position, conveyance, giving necessary connections etc., complete as directed by the Federation officers and as per standard specifications. |                              | One Litre |               |

Signature of the Tenderer

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**No of Over writings:**

| S. No | Qty    | Unit | Description                                                                                                                                                                                                                                                                                                                                                                                       | Rate in figures and in words | Unit      | Amount in Rs. |
|-------|--------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------|---------------|
| 40    | 1.00   | Nos  | Supply and fixing of heavy duty CI chamber cover with frames of size 60 x60 cm for septic tank etc complete as directed by the Federation officers and as per standard specifications.                                                                                                                                                                                                            |                              | Each      |               |
| 41    | 50.00  | Pts  | <b>Electrical</b> -Wiring with 2x1.5sqmm. (22/0.3) PVC insulated unsheathed SC Cu. conductor of 1100V grade in suitable PVC rigid pipe concealed in wall & ceiling with PVC accessories with TW switch Box and 1 No. 5A one way SP 1 Module switch in flush with wall for making good of the concealed portion with suitable colour for PVC concealed light point/Fan (For Electronic Regulator.) |                              | One Point |               |
| 42    | 150.00 | Pts  | Wiring with of 2 of 4sqmm (56/0.3) PVC insulated SC unsheathed cu. conductor of 1100V grade in suitable PVC rigid pipe on concealed & ceiling with continuous earth wire connection of 14 SWG TC wire with painting suitable.                                                                                                                                                                     |                              | One Point |               |
| 43    | 42.00  | Nos  | Supplying and Fixing of 20A /3 pin Mc plug with 3 pin Top connection.                                                                                                                                                                                                                                                                                                                             |                              | Each      |               |

Signature of the Tenderer

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**No of Over writings:**



| S. No | Qty   | Unit | Description                                                                                                                    | Rate in figures and in words | Unit | Amount in Rs. |
|-------|-------|------|--------------------------------------------------------------------------------------------------------------------------------|------------------------------|------|---------------|
| 44    | 24.00 | Nos  | Supplying and fixing of 5A 3pin connection                                                                                     |                              | Each |               |
| 45    | 22.00 | Nos  | Supplying and fixing of AC Ceiling fan complete 1400mm (56") Sweep with 300mm Down Rod without Regulator (Crompton/Equivalent) |                              | Each |               |
| 46    | 22.00 | Nos  | Supplying and fixing of AC Ceiling Fan Step Regulator 100W - 1 Module                                                          |                              | Each |               |
| 47    | 4.00  | Nos  | Supplying and fixing of AC Exhaust Fan 375mm (15") Sweep (Heavy Duty).                                                         |                              | Each |               |

Signature of the Tenderer

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**No of Over writings:**

| S. No | Qty   | Unit | Description                                                                                                                                                                                                                                                                                                                                                        | Rate in figures and in words | Unit | Amount in Rs. |
|-------|-------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------|---------------|
| 48    | 4.00  | Nos  | Supplying and fixing of 32A DP MCB and AC plug.                                                                                                                                                                                                                                                                                                                    |                              | Each |               |
| 49    | 2.00  | Nos  | Supplying and installation maintenance free GI Earthing System comprising of 50mm dia and 2 mtr.long earth electrode of low carbon steel rod with 100 micron bonding and 215 kgs of carbon based environment friendly backfill compound and suitable clamp. (Earth Electrode).                                                                                     |                              | Each |               |
| 50    | 20.00 | Nos  | Supplying and fixing of 18 watts LED Tubelight for T8. (Single side)                                                                                                                                                                                                                                                                                               |                              | Each |               |
| 51    | 1.00  | Nos  | Vertical Three Phase Distribution Board with MCBS 8 way vertical TPMCB Sheet steel distribution board flush type / surface type fitted with bus bars and neutral links with single /three phase MCB outgoing and separate 4 way provision for accommodating One No.4 pole ELCB/RCD with label holder and provisions for taking up cable for size not less than 35. |                              | Each |               |

Signature of the Tenderer

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**No of Over writings:**

| S. No | Qty  | Unit | Description                                                                                                                                                                                                          | Rate in figures and in words | Unit            | Amount in Rs. |
|-------|------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----------------|---------------|
| 52    | 31.5 | Cum  | Dismantling of natural rock using deploying machineries the cost including conveyance and removal of debris away from site etc., Complete as directed by the Federation officers and as per standard specifications. |                              | One cubic metre |               |
|       |      |      |                                                                                                                                                                                                                      | <b>Total Amount</b>          |                 |               |
|       |      |      |                                                                                                                                                                                                                      | <b>GST @ 18%</b>             |                 |               |
|       |      |      |                                                                                                                                                                                                                      | <b>Net Total</b>             |                 |               |

**Foot Note:** The tenderer should quote the amount towards Goods and Service tax (GST) in the appropriate columns in terms of percentage (%). If not quoted, it will be considered that the rate quoted is inclusive of GST.

Signature of the Tenderer

No of corrections:  
No of Over writings: