TENDER NOTICE

Sealed Tenders in two covers system comprising Terms and conditions (Part ‘A’) and Specifications & Price Bid (Part ‘B’) are invited by the Managing Director, Tamil Nadu Cooperative Marketing Federation Limited (TANFED), 91, St.Mary’s Road, Chennai -600 018 from the reputed and registered / contractors of PWD of appropriate class IV for the following works at TANFED Godown Complex, Udaipur, Salem District.

Name of the work: REPAIRS AND RENOVATION OF 2x500 MT CAPACITY GODOWNS AT UDAIYAPATTI CO-OP. INDUSTRIAL ESTATES, UDAIYAPATTI, SALEM DISTRICT.

The Managing Director has the right to reject the tenders without assigning any reason therefore. The tender documents may be obtained on any working day on payment of required cost during office hours at The Regional Office, TANFED, No. 4/22A, 1st Cross, Maravanery, Salem – 636 007. or can be downloaded from our website www.tanfed.tn.gov.in, and the cost of tender schedule may be enclosed by way of Demand Draft favouring the Managing Director, TANFED, Chennai – 600 018.

Earnest Money Deposit……………...  :  Rs. 9,875/-
Cost of Tender document………...  :  Rs. 1500/- + GST @ 12% ie. Rs. 1680/-
Duration of completion…………….  :  Three month
Last date of receipt of Tender ..  :  23.10.2019 up to 1.00PM
Date of opening…………………….  :  23.10.2019 at 2.00 PM
Place of Opening.......................  :  The Regional Office, TANFED, No. 4/22A, 1st Cross, Maravanery, Salem – 636 007.

MANAGING DIRECTOR
TANFED, CHENNAI.

Chennai -18
Date :
Tamil Nadu Cooperative Marketing Federation Limited

91. St. Mary’s Road, Chennai - 600 018.


Part A

Terms and Conditions of Contract

Name & Address of Contractor:

........................................................................................................
........................................................................................................
........................................................................................................
........................................................................................................
........................................................................................................
TERMS AND CONDITIONS

For and on behalf of TANFED, Chennai- 18 sealed tenders under two cover system ie Technical Bid (Part-A) and price Bid (part-B) tenders were called for by the MANAGING Director, Tanfed, 91 St. Mary’s Road, Chennai- 18, for the Work of Special Repairs And Renovation of 2x500 MT Capacity Godowns at Udaiyapatti Co-op. Industrial Estates, Udaiyapatti, Salem District, Under Icdp – Scheme.

1. The tender should be in the prescribed form can be obtained from the Regional Manager, TANFED, No. 4/22A, 1st Cross, Maravanery, Salem – 636 007. The tender Schedule can be obtained on any working day from the office of the Regional Manager, TANFED, Salem from 14.10.2019 to 23.10.2019. The tenders will be opened by the Regional Manager or any officer authorized by him in the place and on the date mentioned in the tender notice ie. 23.10.2019 @ 2.00 p.m. The tenderers or their agents are expected to be present at the time of opening of the tenders. The tender receiving officer will on opening each tender prepare a statement of the attested and unattested corrections therein and hand it over to the presence of the tenderer. If any of the tenderers or their agents find it in convenient to be present at the time, then, in such case, the tender receiving officer will open the tender of the absentee tenderer make out a statement of the unattested corrections, and communicate it to him. The absentee tenderer shall then accept the statement of corrections without any question what so ever.

2. Tenders must be submitted in two sealed covers duly mentioning Technical-Bid (part A) and Price-Bid (part B) on the envelope and should be addressed to the Regional Manager, Tamil Nadu Cooperative Marketing Federation, No. 4/22A, 1st Cross, Maravanery, Salem – 636 007. The name of the tenderer with their address and the name of the work should be noted on the cover.

If the tenderer is made by an individual, it shall be signed with full name and his address shall be given. If it is made by a firm it shall be signed with the Co-partnership name by the member of the firm, who shall also sign his own name, and the name and address or each member of the firm, shall be given. If the tender is made by a corporation it shall be signed by a duly authorized officer who shall be produce with his tender, satisfactory evidence of his authorization. Such tendering Corporation may be required before the contract is executed, to furnish evidence of its corporate existence.

3. Each tenderer must also send a certificate of income tax verification from the appropriate income tax authority in the form prescribed therefore. This certificate will be valid for one year from the date of issue for all tenders submitted during the period.

In the case of proprietary and partnership firm it will be necessary to produce the certificate above mentioned for the proprietors and for each of the partner as the case may be.

The tender shall enclose the following documents along with PART ‘A’ of this tender

(i) Demand draft towards the Earnest Money Deposit

(ii) COPY of PAN card issued by Income Tax Authorities and copy of Goods and Service Tax ( GST ) registration No.

(iii) Contractor Registration certificate and Live certificate

signature of CONTRACTOR
(iv) Evidence of access to line of credit
(v) Annual Turnover Certificate from charted Accountant for last five financial years forms with breakup of civil works and total works in each financial year.
(vi) Affidavit regarding correctness of certificates.
(vii) List of Similar nature of works executed.
(viii) List of Works in hand.
(ix) List of Machineries owned/brought in hire

If the tenderer is a registered PWD contractor and if a certificate for the current year had already been produced by him during the calendar year in which the tender is made it will be sufficient if particulars regarding the previous occasion in which the said certificate was produced are given.

All tenders received without a certificate as above mentioned will be summarily rejected.

4. Each tenderer must pay as Earnest Money Deposit for a sum of Rs. 9,875/-, (Rupees nine thousand eight hundred and seventy five only) which is fixed at 1% of contract value of work put to tender (Including GOODS and Service Tax ( GST ) amount either by cash Bankers Cheque or demand draft remitted at the office Cash Counters in favour of the MANAGING DIRECTOR, TANFED, Chennai-18. The Earnest Money will be refunded to the unsuccessful tenderer on application after intimation is sent on rejection of the tender or at the expiry of two months from the date of tender whichever is earlier. However the Earnest Money for the first three lowest tenderers will be retained till the final decision is taken on tenders. This refund will be authorized by the Civil Engineer by suitable endorsement. However refund of the first three lowest tender will be considered by the tender accepting authority. If any additional EMD is required after tendering, it should be paid before acceptance of agreement.

The Earnest Money will be retained in the case of successful tenderer and will not carry any interest. It will be dealt with as provided in the tender,

5. (i) The tender will remain valid for a period of three calendar months, from the last date of receipt of tender. The validity period can be extended further, if the contractor gives his consent in writing, specifying the period of extension.

5. (ii) The tenderer whose tender is under consideration shall attend the office before the end of the period specified by written intimation to him. If the tenderer fails to attend the office, before the end of the specified period his tender will not be considered. He shall forthwith upon intimation being given to him on acceptance of his tender by the officer, duly authorized in this behalf, under article 299(1) constitution of the here in after called the tender accepting authority, make security deposit of 2% of value of contract, in the form prescribed by department (i.e.) by taking into account the amount of Earnest money deposit, already with the tender, it would be sufficient to pay the balance amount to make up 2% of the value of contract for the purpose of security deposit. The security deposit together with Earnest Money Deposit and the deduction made at 5% of the value of each bill towards withheld amount vide clause 64(1) of General conditions to contract shall be retained as security deposit for the fulfillment of contract and such deposit shall not bear any interest.

signature of CONTRACTOR
(iii) On receipt of written communication of acceptance of tender if the tenderer fails to pay the requisite security deposit within the period specified in the written communication or back out from the tender, or withdraw his tender, the earnest money deposit shall be forfeited to the Federation. If the contractor fails to carry out the contract after paying the requisite deposit, then he will be liable for the excess expenditure if any incurred to complete the work, as contemplated in the general conditions of contract.

(iv) It shall be expressly understood by the tenderer, that on receipt of written communication of acceptance of tender, from the accepting authority by the tenderer there emerges a valid contract between the Federation and the tenderer for execution of the work without any separate written agreement. Hence for this purpose the tender documents i.e. tender notice, tender offered by contractor general condition to the contract special condition to the contract, negotiation, correspondents, written communication or acceptance of tender etc., shall constitute a valid contract and that will be the foundation of the rights of both the parties to the contract. Provided that it shall be open to the accepting authority to insist execution of any written agreement by the tenderer, if administratively considered or expedient.

The existing Para 47-1 and 47-2 of general condition of contract to Tamilnadu Building practice the following shall be substituted. The contractor shall take risk insurance on his cost against fire, floor volcanic eruption, earthquake other convulsions of nature and all of her natural calamities risk arising of acts of God, during such period. The Federation shall not be liable for all or any loss of damages occasioned by or arising out of fire, flood volcanic eruption, earthquake acts of foreign enemies, invasions hostilities or war like operation (before or after declaration of war) rebellion, military or supped power and that the option whether to take insurance coverage or not to cover, such risks are left to the contractor.

The tenderer shall examine closely the Tamil Nadu Building practice and also General condition of the contract contained therein and sign the office copy of the written agreement to be entered into between the contractor and the Federation shall be the foundation of the rights of both the parties and the contract shall not be demand to be deemed to be completed until the agreement has first been signed by the Contractor and then by the authorized to enter into contract on behalf of Federation.

(v) "$2.5\%$ of the total value of the work will be retained in the final bill of the work for the period of One year reckoned from the date of completion of the work in order to enable the department to watch the effect of all seasons on the work. An indemnity bond should be furnished by the contractor for further period of One year. If any defects are noticed in the above said period, the defects are rectified by the contractor at his own cost as directed by the department officers and no extra payment will be made for the rectification of such work.

**REVENUE RECOVERY ACT**

6). Whenever any amount has to be paid by the Contractor in view of determination of the contract by virtue of clause 57(4) or any amount that may be due or may become due from the contractor is not responding to the demands for the payments of the said amount, then the Federation shall entitled to recover the said under the provisions of the Revenue Recovery Act.
7) (1) The tenderer shall examine closely in Tamil Nadu Building practice and also the general conditions to contract contained therein and sign the divisional office copy of Tamil Nadu Building practice and its addenda volume on token of such study before submitting his tender unit rates which shall be for finished work in situ [Excluding GST] @ 12%. He shall also carefully study the documents connected with the contract. The Tamil Nadu Building practice and other connected documents with the contract such as specification. Plans descriptive specification Sheet regarding materials etc. can be seen at any time between 11.00 AM and 4.00 PM on office days in the office of the Civil Engineer.

7. (2) the tenderer’s attention is directed to the requirements for materials under clause ‘materials and workmanship’ in the general conditions to the contract. Materials conforming to the I.S.I. standards shall be used on the work and the tenderer shall quote his rates accordingly.

7. (3) every tenderer is expected before quoting his rates, to inspect the site of the proposed work. He should also to inspect the quarries and satisfy himself about the quality and availability of materials. The names of quarries and kilns etc., where from certain materials are to be obtained will be given in the descriptive specification sheet, the best class of materials are to be obtained from the quarries or other source defined shall be used on the work. In every case the materials must comply with the relevant standard specification. Samples of materials as called for in the standard specification or in this tender notice or as required by the Civil Engineer in any case shall be submitted for the Civil Engineer’s approval before supply to site of work is begun. If the contractor after examination of the source of materials defined in the descriptive specification sheet is of the opinion that materials complying with the standard or other specification of the contract cannot be obtained in quality or sufficient quantity from the source defined in the descriptive specification sheet, he shall so state in his tender and state where from he intends to obtain materials subject to the approval of the Civil Engineer.

7. (4) The Federation will not, however, after acceptance of contract, rate, pay any charges for lead or any other reason in case the contractor is found later on to have mis-judged the materials available. Attention of the Contractor is directed to the “General condition to the contract” regarding the payment of seigniorage tolls etc.

8. The tenderer’s particular attention is drawn to the sections and clauses in the general condition to the contract dealing with:-

1. Test, Inspection and rejection of defective materials and work
2. Carriage
3. Construction Plant
4. Water and Lighting
5. Cleaning up during process and for delivery
6. Accidents
7. Delays
8. Particulars of payment
9. The contractor should closely peruse all specification clauses which govern the rates which he is tendering.

A schedule of quantity accompanies this tender notice. It should be definitely understood, that the Federation does not accept any responsibility for the corrections or completeness of this schedule and that this schedule is liable to alteration by omissions, deductions or additions at the discretion of the Civil Engineer, TANFED, Chennai-18 or as set forth in the Conditions of contact. The tenderer will however base his lump sum tenderer on this

signature of CONTRACTOR
signature of CONTRACTOR

.schedule of quantities. He should quote specific rates for each item in the schedule and the rates should be in rupees and in sum of five paisa. The rate should be written both in words and figures and the units in words [Excluding GST @ 12%]. The tenderer should also show the total of each item and the grand total of the whole contract and quote in the tender a Lump sum for which he will undertake to do the whole work subject to the condition of contract such lump sum agreeing with the total amount of schedule-A to schedule-B. This schedule accompanying the lump sum tender shall be written legibly and free from erasures, over writing or conversion of figures. Corrections where unavailable should be made by erasing out, initialing dating and rewriting.

10. The tenderers offering a percentage deduction from or increase on the estimate amount (Except in the case of tender for maintenance and repair works, called for, specifically under the percentage rate tender system) and those not submitted in proper from in due time will be rejected. Rates or lump sum amounts for items not called for shall not be included in the tender. No alteration which is made by the tenderer in the contract form the conditions of contract, the Drawings, specifications or quantities accompanying and same will be void.

11. The tenderer should work out his own rates without reference being made to the Public Works Department current schedule of rates or Public Works Department estimate rates. However in case tenders called for under percentage rate but quote his percentage rate above or below the total estimate cost of work of the department indicated in the tender schedule.

12. The price at which and the source from which certain particulars materials shall be obtained by the Contractor are given at the end of the schedule accompanying the tender form. Tenderers must accept the market value for those materials to change to the contractor will remain as originally entered in the written contract. No incidentals charges will be borne by TANFED in connection with his supply.

13. The attention of the tenderer is directed to the contract requirement as to the time of beginning works the rates progress and the dates for the completion of the whole work and its several parts. The following rates of progress and of proportionate value of work done from time to time as will be indicated by the Civil Engineer’s Certificates of the value of work done will be required. Date of commencement of this programme, will be the date on which the site (or Premises) is handed over to the Contractor. The payment for the finished item of work shall be effected on submission of bill/claim made by the contractor duly certified by the engineer in charge of the Federation from time to time.

<table>
<thead>
<tr>
<th>period after date of commencement</th>
<th>Percentage of work to be completed ( based on contract lump sum amount(2))</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. First month</td>
<td>...... 25%</td>
</tr>
<tr>
<td>2. Second month</td>
<td>...... 50%</td>
</tr>
<tr>
<td>3. Third month</td>
<td>...... 75%</td>
</tr>
<tr>
<td>4. Forth month</td>
<td>...... 100%</td>
</tr>
</tbody>
</table>
NOTE: The periods to be entered in column (1) for the purpose of defining the rate of progress may be fixed by the Civil Engineer to suit each case.

14. No part of the contract shall be sublet without written permission of the Managing Director nor shall transfer be made by power of attorney authorizing others to receive payment on the contractor’s behalf.

15. If further necessary information is required, the Civil Engineer of the Federation will furnish such but it must be clearly understood that tenders must be received in order and according to instructions.

16. The Managing Director or any other officer authorized by the Managing Director, TANFED or other sanctioning authority reserves the right to reject any tender or all the tenders without assigning any reason thereof.

(1) The contractors who possess a degree in mechanical or Chemical Engineering have to appoint Technical Assistants as in the case of registered contractor with degree in electrical Engineering, when they are entrusted with civil works by the Department.

17. The tenderers who are themselves not professionally qualified shall undertake to employ qualified technical men at their cost to look after the work. The tenderer should state in clear terms whether they are professionally qualified or whether they undertake to employ technical men required by the department specified in the schedule below for the work. In case the selected tenderer is professionally qualified or has undertaken to employ technically qualified men under him is always at the site of work during working hours personally checking all items of works and paying extra attention to such works as may demand special attention (e.g.) reinforced concrete works etc.
**EMPLOYMENT OF TECHNICAL PERSONAL**
*(Based on the value of contract)*

**Interpretation**

1. Up to Rs. 5.00 lakhs
   Prescribed as per G.O.
   1. One diploma holder in Civil Engineering
      (or)
   2. Not less than one retired Junior Engineer

2. From 5 to 10 lakhs
   1. One B.E. (Civil) or
   2. Equivalent degree holder
      (or)
   3. Not less than one retired Sub Divisional Officer/ Assistant Executive Engineer/ Assistant Divisional Engineer.
      (or)
   4. One diploma holder with three Years experience

3. From 10 to 25 lakhs
   1. One B.E. (Civil) with 3 years Experience plus one diploma Holder in Civil Engineering
      (or)
   2. Equivalent degree holder with 3 Years experience plus one Diploma holder
   3. Not less than one retired Sub Divisional Officer plus one Diploma holder in Civil Engineering
      (or)
   4. Two diploma holders in Civil Engineering with 3 and 5 years Experience respectively

4. From 25 to 50 lakhs
   1. One B.E. (Civil) with 3 years Experience plus two diplomas Holders in Civil Engineering
      (or)
   2. One B.E. (Civil) with 3 years Experience plus two retired Junior Engineers.
   3. Equivalent degree holder with 3 Years experience plus two diplomas holders in Civil Engineers

signature of CONTRACTOR
4. One retired Sub Divisional Officers (Assistant Executive Engineers/ Assistant Divisional Engineer) plus two diplomas Holders in Civil Engineering or Two retired Junior Engineers.

5. Above Rs. 50 lakhs

1. Two B.E. (Civil) equivalents Degree holder with 3 years Experience plus Four diplomas Holders in Civil Engineering/ Retired Junior Engineers

2. Two retired Sub divisional Engineers (AEE/ADE) plus Four diploma Holders in Civil Engineer. (or) Four Retired Junior Engineers

(a) A penalty of Rs.500/ per month for diploma holder and Rs. 1000/ per month for degree holder is levied in case of default on the part of contractors in following the norms laid down above. The Technical assistants employed by the Contractor should sign the attendance register maintained by the field officers of site of work. The same register should be checked every three days by the A.E.E. and by the Civil Engineer every fortnight.

(b) The employment of technical assistance would be based 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.

It will not be incumbent as the part of the contractor to employ technical assistants when the work is kept in abeyance due to valid reasons and if during such period in the opinion of the Civil Engineer the employment of technical Assistants is not required for the due fulfillment of the contract.

c) In case of the contractor who is professionally qualified is not in a position to remain always at the site of the work during working hours personally checking all items of work and paying extra attention of the works as may demand special attention (e.g.) R.C.C. work etc. he should employ technically qualified person as prescribed for the work.

d) The contractors who possess a degree in Mechanical or Chemical Engineering may have to appoint technical assistance as in the case of registered contractors with Degree in Electrical Engineering when they are entrusted with Civil works by the Department.

e) Engineers with mechanical Engineering qualification and retired from Civil Engineering Department are also suitable for supervise the civil Engineering works subject to condition that evidence for experience in Civil Engineering, field is produced.

f) One Technical Assistant may be employed by the contractor for more than one work situated within one kilometer provided that monthly limit prescribed for the nature of technical assistance to be employed is adhered to by one and the same contractor.

signature of CONTRACTOR
18. Tender schedule will be issued only to P.W.D. registered contractor in the appropriate class.

19. A tenderer submitting a tender which the tender accepting authorities considers excessive and or indicative of the insufficient knowledge of current prices or definite attempt at profiteering will render himself liable to be debarred permanently from tendering or for such period as the tender accepting authority may decide. The tender rates should be based on the controlled price for materials. If any fixed by Government or the reasonable price permissible for the tenderer to charge a private purchaser under the provisions of clause 8 of the hoarding the profiteering prevention ordinance, 1943 as amended from time to time and on similar principles in regard to labour and supervision in the construction.

20. The Contractor should offer employment to ex-toddy tapers as far as possible. The number of ex-toddy tapers to whom he can offer employment should be mentioned in such employment to such number.

21. Contractor shall comply with the provision of the apprentices’ act 1961 and the rules and orders issued there under from time to time. If he fails to do so, his failure will have breach of the contract, and the competent authority may at his discretion, cancel the contract, or involve any of the penalties for the breach of contract provided or the condition of the contract. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provision of the Act. Contractor shall during the currency of the contract, ensure engagement of the apprentices, in the categories mentioned below who may be assigned to him by the Director of Employment and Training/State Apprenticeship Advisor, Tamil Nadu. The contractor shall train them as required under the said Act 1961 and the rules made there under and shall be responsible for all obligations of the employer under the said Act, including the liability to make payment to the apprentices, as required under the said Act.

<table>
<thead>
<tr>
<th>Value of contract</th>
<th>Category</th>
<th>No. to be appointed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rs. 1 lakh and upto 3 lakhs</td>
<td>1. Building constructor</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2. Brick layer</td>
<td>1</td>
</tr>
<tr>
<td>Above Rs. 3 lakhs and upto Rs. 10 lakhs</td>
<td>1. Building constructor</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2. Brick layer</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3. Diploma holder in Civil Engineering</td>
<td>1</td>
</tr>
<tr>
<td>Above Rs. 10 lakhs and upto Rs. 50 lakhs</td>
<td>1. Building constructor</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>2. Brick layer</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3. B.E. (Civil) or Equivalent Degree holder</td>
<td>1</td>
</tr>
</tbody>
</table>

“Unless the contractor has been exempted from engagement of apprentices by the Director or Employment and Training/State Apprenticeship advisor a certificate to the effect that the contractor has discharged his obligation under the said act satisfactorily should be obtained from the Director of Employment and Training/State Apprenticeship Advisor and the same should be produced by the contractor for final payment in the settlement of the contract.

22. The contractor should employ one I.T.I. trained mason for every ten masons or part thereof. In case of non-availability of ITI trained masons the contractor should obtain the prior approval of the Civil Engineer before processing with the contract with the other kind of masons.”
23. In the case of contracts for construction of buildings either permanent or semi permanent buildings a sum of equivalent to 2\% of the value of work done will be retained with the Federation for a period of One year reckoned, from the date of completion of work in order to enable the department officers to watch the effect of all season the work done by the contractor.

The amount so retained with the Federation will be refunded only on the expiry of One year period referred to above and on execution of indemnity bond by the contractor for a further period of One year. The contractor shall be liable to set right all defects arising out of his faulty execution or sub standard work noticed during the above five years period at his cost.

24. A movement register should be opened and maintained for Technical Assistants employed by the Contractor or for the technically qualified contractor. The technical Assistant or technically qualified contractor should note the arrival and the departure timing every day along with their initials. Such Register should inspection of the Inspecting Officers.

25. Without prejudice to the generality of the above clause, the contractor shall during the currency of the contract, when called upon the Engineers in charge engaged and also ensure engagement by the sub contractors and other employees by the contractor in connection with the work, such number of apprentices in the categories mentioned below and for such period as may be required under the Apprentice Act 1961 and the rules made there under shall be responsible for all obligations of the employer under the said act including the liability to make payments to apprentice as required under that said Act.

26. The fact of submitting the tender implies that the tenderers have actually inspected the site of work and have examined before tendering the nature and extent of various kinds of soils at various depths and have based their tender in such examination by them and no future representation in this regard will be considered.

27. A statement giving brief particulars of equipments and resources that will be put at the disposal of the work under the following classifications should accompany the tender.

   a. Equipment (Transport for materials viz. Lorries and Carts, concrete mixers)
   b. Organization (i) Technical (ii) Unskilled.
   c. Resources in materials like teakwood etc. and extent to which Department help is required for procurement of materials and transport of the same.
   d. Methods that will be adopted to speed up the work or ensure completion with or less than the time fixed for completion.

28. The tender of the contractor who agree to employ the maximum number of ex-service (Number to be specified in the tender) will receive preferential consideration. The tenderers are requested to report on their covering letter.

29. The Managing Director of the Federation reserves to himself the right of allotting the different sub works to the different contractors or to one and same contract as he may decide after the receipt of tenders.

30. The rates and prices tendered in the priced Schedule Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes and duties (except GST), together with all general risks, liabilities and obligations set out in the Contract. The GST

signature of CONTRACTOR
amount will be calculated at 12% of sum of the Tendered value (excluding GST) quoted by the Tenderer in the Schedule of quantities. The tenderers are also requested to go through the GST clause vide SPECIAL CONDITIONS 1 (GST clause) should include GST (Goods and Service Tax) Amount.

31. Royalty a seigniorage charges will be charged for the materials quarried from the PWD/District Board /Forest or other Government quarries. No plot rent will be charged for materials stacked on Federation land during the course construction work are completed.

32. Royalty or charges due for the use of private quarries and private land shall be paid by the contractor.
UNDERTAKING

To

The MANAGING DIRECTOR,
TANFED,
CHENNAI-18.

Sir,

1. I/We hereby tender and if this tender be accepted, undertake to execute the following works viz. as shown in the office of the TANFED with such variations by way of alterations of additions or any omission from the said works and method of payment are provided for in the conditions of contract for the sum or Rupees or such other sum as may be arrived at under the clause of the General condition of contract relating to payment on Lump sum basis or by final measurement unit prices.

   I/ We have also completed the price list of items in schedule ‘A’ annexed (in words and figures) for which I/We agree to execute the work when the lumpsum payment under the terms of the agreement is varied by payment on measured quantities.

2. I/We hereby distinctly and expressed declare and acknowledge that before the submission of my/our tender, I/We have carefully followed the instructions in the tender notice and have read the Tamilnadu building practice and the General conditions to the contract therein and that I/We have made such examination of the contract documents and of the plans specifications and quantities and of the location where the said work is to be done and such investigation of the work required to be furnished as to enable me/us to thoroughly understand the intention of same and the requirements, covenants agreements stipulations and restrictions contained in the contract, and in the said plans and specifications and distinctly agree that I/We will not hereafter make any claim or demand upon the Federation, based upon or arising out of any alleged misunderstanding or misconception or mistake on my/our part of the said requirements convenient agreements stipulations and restrictions and contained in the contract, and in the said plans and specifications and distinctly agree that I/We will not hereafter make any claim or demand upon the Federation based upon or arising out of any alleged misunderstanding or misconception or mistakes on my/our part of the said requirements convenient agreement stipulation and restrictions and conditions.

3. I/We being a restricted P.W.D. Contractor enclose an Income Tax verification have already produced an Income Tax verification certificates in respect of (here particulars of the previous occasion on which the certificate was produced should be given). The legal address of the contractor for service of all letters and notice will be as follows.

4. (i) I/We enclose herewith a Challan for the payment of the sum of Rs._______/- as earned Money not to bear interest.
   (ii) I/We have paid Rs._______/-

   (Rupees ______________________________________)

   since I am/We are eligible to pay the E.M.D. at consolidated rates.

   (iii) In Lieu of cash deposits, I/We have enclosed a D.D bearing No. _______ date issued by ______________________ for a value of Rs. ________

   (Rupees __________________________________________________)

signature of CONTRACTOR
iii) I am/we are and hence exempted from payment of E.M.D.

6. If my/our tender is not accepted, this sum shall be returned to me/us on my/our application. When intimation is sent to me/us of rejection on or at the expiration of three months from the date of this tender, whichever is earlier, If my/our tender is accepted, the E.M.D. shall be retained by Federation as security for the fulfillment of the contract. If upon written intimation to me/us by the Managing Director’s office I/We fail to attend the said office before the end of the period specified on such intimation, the tender will not be considered and if upon intimation being given to me/us by the Managing Director of acceptance of my/our tender I/we fail to make the additional security deposit or to enter into the required agreements as defined in clause 4 of tender notification I/We agree to the forfeiture of the E.M.D. Any notice required to be served on me/us hereunder shall be sufficiently served on me/us. If delivered to me/us personally or forward to me/us post to me/us (Registered or ordinary) or left at me/us address given herein such notice shall, if, sent by post be deemed to have been served, on me/us at the time, when in due courses of post, it would be delivered at the address to which it is sent.

7. I/We fully understand that the written agreement to be entered there into between me/us and the Federation and the tender documents i.e. tender notice and tender with schedule General condition to the contract, and special condition of the tender, negotiation letter communication of acceptance of tender shall constitute the contact for this purpose, and be the foundation of the rights of both the parties and the contract shall not be deemed to be completed until the foundation of rights of both the parties as defined to clause (iv) of tender notice provided that it shall be open to the accepting authority to insist on execution of any written agreement by tenderer, if administratively considered necessary or expedient.

8. I/We have also signed the copy of Tamilnadu Building Practice and national Building code and addenda column there to maintained in the P.W.D. in acknowledgement of being bound by all conditions of the clauses of the General condition to the contract and all specification for items of work described by a specification number in schedule (A) to (E).

9. In consideration of the payment of Rs. ________/ or such other sum as may be arrived at under clause of the General condition to the contract, relating to the payment on lump sun basis or by final measurement at Unit prices/I/We agree subject to the said condition to execute and complete the work shown upon the said drawing serially number from 1 to inclusive of Schedule-A to Schedule-E and to the extent of probable quantities specification shown in all schedules with such quantities from variation by way of alteration or addition or deductions on the said work, and method of payment therefore as per provided for in the said conditions.

10. The term Civil Engineer in the said condition mean that Officer in charge having jurisdiction within the time being over the work, who shall be competent to exercise all the powers, and pupilages reserved herein in favor of Federation with the previous sanction or

signature of CONTRACTOR
subject to ratification may be necessary and who has been duly authorized under article 299 (1) of the construction.

11. I/We agree that the time shall be considered as the essence of the contract and to commence the work as soon as the contact is accepted by competent authority as defined by the Tamilnadu Public Works Department Code and the site (or) Premises is handed over to me/us as provided for in the said conditions and agree to complete the work within NINE months/ from the date of such handing over of the site (or premises) and show progress is defined in the tabular statement. Rate of progress subject never- the- less to the provisions for extension of the contact appended to the Tamilnadu Building practice.

12. I/We agree that upon the terms and conditions of this Contract being fulfilled and performed to the satisfaction of the Civil Engineer and the security deposited by me/us as here in before a recited or such portion thereof I/We may be entitled to, under the said conditions be paid back, to me/us provided in clause 64 of General to the contract.

13. I am/We are professionally qualified and my /our qualifications are given below:-

<table>
<thead>
<tr>
<th>Name</th>
<th>Qualification and experience</th>
</tr>
</thead>
</table>

I/We in pursuance of clause 18-29 of tender notices undertaking to employ the following technical staff for supervising the work and will see that one of them is always at site during working hours personally checking all items of works and paying extra attention to such works as required special attention (e.g.) reinforced concrete works.

<table>
<thead>
<tr>
<th>Name of proposed technical staff to be employed</th>
<th>Qualification and experience</th>
</tr>
</thead>
</table>

**Note:**

(a) The two clauses should be scored out if the cost of the work involved is less than Rs.1,00,000/-

(c) The tenderer should scored out the penultimate according as they are themselves professionally qualified undertake to employ technical staff under them.

signature of CONTRACTOR
**Sl.No. 14:**

I/We agree that the arbitrator for fulfilling the duties set forth in the arbitration clause of the general condition to the contract shall be.

(i) The Superintending Engineer of the circle in case the value of claim does not exceed Rs. 50,000/- (Rupees fifty thousand only)

(ii) I/We agree that in case of the value of claims is over Rs.50,000/- and above the remedy will be through the competent civil court only Signature of the contractor with full address with name in Black letters

15. In pursuance of negotiation with the Civil Engineer of Tamilnadu Cooperative Marketing Federation Limited on ________ I/We agree to reduce the rates for the items in the schedule as follows.

<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Item No.</th>
<th>Schedule</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduced rate per unit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**FOR CONTRACTORS SPECIAL ATTENTION**

1. Clean river sand shall be used in all cases.

2. Only clean fresh water shall be used on the work, The Contractor Shall makes his own arrangements for water and shall meet all charges therefore. The Special attention of the contractor is drawn to clause 39 of preliminary specification of the TNDSS regarding water and lightning.

3. The broken stone for concrete and RCC work should be granite and passed by the Civil Engineer.

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 scraped and wire brushed and given primary coat of approved lead painting without claims for extra.

5. The iron hold fasts shall be built up on walls in cement mortar 1:3 at the time of construction of walls. Not extra claim shall be due for the same wherever hold fasts are to be provided to 9” thick wall. These should be fixed with cement concrete, 1:3:6 using 20mm gauge broken granite stone jelly for proper anchorage and proper binding. No separate rate for such pockets of concrete filling at masonry along with adjacent masonry.

signature of CONTRACTOR
6. The teakwood shall be best Indian teakwood only and shall be subject to inspection and approval by the Civil Engineer before use on the work. Country wood where specified shall be of Karimarudhu or Kongu for scantling and Aivini for planks.

7. Holds for electric wiring water supply and drainages etc., shall be provided as directed during progress of work without any claim for extra.

8. The work will be carried out with the least hindrance to the adjoining building and the contractor will be responsible for any damages caused to the execution and contractor shall make good any damages without any claim for extra.

9. In case of ‘T’ beams and E11 beams, the quantity given 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 the slab rate only. For all ACC works the rate shall include the treatment of bearing as per plate No.2 of 1946 as per TNDSS (page 3 of 1964 Edition)

10. Concrete work: All exposed concrete surface will be required to be finished by cement plaster as detailed in Schedule attached here to.

11. Plastering all external corners, edges, of beams, edges of doors and windows 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, beams, etc., shall be paid.

12. If rates are not separately called for, for similar items of works in different floors, the contractor should note that one rate applicable for all floors indicated in the detailed plans. Any claims for extra such items floor ware will not be entertained under any circumstance.

13. The Managing Director reserves the right, to split up the work and entrust the man work, internal water supply and sanitary arrangements to different contractors without assigning any reason therefore.

14. The projection if any to the masonry will be measured under the relevant items and no extra will be paid for finishing the same.

**RETENTION OF WITHHELD AMOUNT**

15. 21/2% of the total value of the work will be retained in the final bill of the work for the period of One year reckoned from the date of completion of the work in order to enable the Department to watch the effect of all season on the work. An indemnity bond should be furnished by the contractor for further period of One year. If any defects are noticed in the above said period. The defects should be rectified by the Contractor at his own cost as directed by the Departmental Officers and no extra payment will be made for the rectification of such work.

signature of CONTRACTOR
**ADDITIONAL CONDITION.I**

1. The materials noted in the list enclosed will be supplied departmentally at the place specified in the lead statement and their cost recovered from the contractor's bill at issue rates noted against each.

2. The contractor 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 Civil Engineer.

3. No, royalty shall be charged where due for materials quarried from the P.W.D. or other Government quarries. Necessary assistance will be given to the contractor by the PWD to obtained access to quarries approved by the Civil Engineer. No plot rent shall be charged on materials stacked on the Federation land during the course of construction provided all such materials are removed within a month after the work is completed.

4. Royalty or charge due for use of private quarries and private land shall be paid by the Contractor.

5. The contractor shall form his own approach read to the work site for which no extra will be due to him. On completion of work, the contractor shall not be permitted to remove the materials laid for formation of road. If the contractor is allowed to use the existing road, he shall maintain them in good condition at his own cost throughout the period of the construction.

6. i) Any surplus materials remaining at the site, will not generally be taken over by the Dept. whether before or after the completion or termination of contract. Such materials either which were originally produced by the contractors were issued to them by the Department and charged to their accounts are the property of the contractors and can however be taken over by the 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 which the article or articles of same description can be produced at a given time at the stores, godown from Public Market suitable to the Division for obtaining supply therefore.

   ii) If the materials were originally used by the Dept. the price allowed to the contractor on re-acquisition shall not exceed the amount charged to the contractor excluding the cement and storage charges if any.

   iii) If at any time, subsequent to the execution of this agreement Federation materials other than those specified in the agreement are supplied to the Contractor for use on the work they will be charged at the market value prevailing at the time of supply or stock issue rates whichever is higher. The contractor will be informed in writing of this charge and he should initiate in writing the rate he demands for finishing the work in view of the fact that he is to use Federation materials. No cent age incidental charges will be borne by the Federation in connection with the supply of materials referred to in this paragraph.

   iv) The surplus materials which are originally issued to the contractor by the Department for use on the work shall not be removed from the site of work without getting the written permission of the Executive Engineer.

signature of CONTRACTOR
7. The contractor’s special attention is invited to clause 37 and 38 of the preliminary specification of TNDSS and he is requested to provide at his own expense for shed latrine and urinal for his workmen.

8. If night work is required to fulfill the agreed rate of progress all arrangements shall be made by the contractors inclusive of lighting without any claim for extra.

9. The contractors shall not employ the labors below the age of 12 years and shall also note that he must offer employment to ex-servicemen. Ex-toddy tapers and unemployed agricultural laborers as far as possible.

10. Any of the items in the schedule may be omitted or radically altered. No variation in rate shall become payable to contractor on account of such omissions or variation in quantity.

11. Referred to TNDSS in the schedule of quantities referred to reprint 1952 and addenda corrigenda issued thereafter.

12. The construction of building will be deemed to be completed only if all the items of work including finishing items contemplated herein are executed.

13. The contractor shall abide the contractor’s labor regulation of the PW framed by the Tamilnadu Government.

**ADDITION CONDITION**

14. The contract should use steel centering for RCC columns and Beams, Sunshades sheets over wooden frame spans to obtain the required finish to the under side of slab. The centering steel sheets must be made smooth and perfectly level top as to give smooth and even finish to the RC Surface, oiling to centering form works shall be provided to the extent and area ordered by the Civil Engineer during execution.


The Contractor has to make his own arrangements for supply of Cement, Steel M.S/R.T.S Rods ,binding wire Required for the work. The Contractor shall ensure that the branded good quality 53 grade cement, steel M.S/R.T.S rods for reinforcement grill for all RCC Work mentioned under Schedule ‘A’ to ‘E’.

**ADDITIONAL CONDITION OF CONTRACT II.**

The Contractor shall at his own expenses provide arrangements for the provision of foot wear for any labor during 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 the Federation shall be entitled to provide same and recover the cost from the contractor.

When there are complaints of non payment of wages to the labors bills of the contract may be withheld pending clearance certificate from the labour department.

signature of CONTRACTOR
ADDITIONAL CONDITION III

Rules for the provision of Health and Sanitary Arrangements for workers, employed by the PWD and its contractor. The contractor’s special attention is invited to clause 37, 38, 29 and 51 of the preliminary specifications to the Tamilnadu Detailed standard specification and he is requested to provide at his own expense, the following amenities to the satisfaction of the Civil Engineer.

First Aid

1. At the work site, there shall be maintained in a readily accessible place, first aid appliances and medicine including adequate supply of sterilized dressings and sterilized cotton wool. The appliances shall be placed under the care of a responsible person who shall be readily available during working hours.

DRINKING WATER

2. 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 provided 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 50 feet from any latrine, drain or any other existing well which is within such proximity of latrine, drain or any other source of pollution, the well shall be entirely closed and be provided with a trap door which shall be dust and water proof.
   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 at least once a month.

WASH AND BATHING PLACES

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

LATERINE AND URINALS

There shall be provided within the premises of every work Laline and urinals than accessible place and the accommodation separately for each of them shall be on the following scale or on the scale so directed by the Civil Engineer in any particular case.

i) Where the number of persons employed does not exceed 50-2 seats
ii) Where the number of persons employed does not exceed 50-1 seats
iii) For every additional 100 persons- 3 seat.

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

signature of CONTRACTOR
The excreta from the latrines shall be disposed off at the contractor’s expenses, in outside pits approved by the Local Public Authority. The contractor shall also employ adequate number of scavengers, conservancy staff to keep the latrines and urinals in a clean condition.

**SHELTER 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 labor.

**CREACHES:**

At every work place at which 25 or more women are working 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 bed rooms. The huts shall not be constructed on a lower standard than the

i) Thatched roofs.
ii) Mud floors and walls.
iii) Planks spread over the mud floor and covered with matting.

The size of the creaches should vary according to the number of women workers.

The creaches should be properly maintained 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 attendance of the children.

**CANTEEN**

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

**SHEDS FOR WORKMENS:**

8. The contractor should provide at his own expense, shed for housing the workmen. The sheds shall be on a standard not less than the cheap shelter type, to live in which the work man pertaining to locality are accustomed to. A floor area of about 6′x5′ for 2 persons shall be provided. The sheds shall are to be in row with 5’ clear space between sheds and 80’ clear space between row if conditions permit. The work people’s camp shall be laid out in contractors unit of 40 persons each. Each unit to have clear space of 48’ around.

**ADDITIONAL CONDITION IV.**

Safety provision in the building industry-condition in addition to clause 36 preliminary specification of TNDSS.

signature of CONTRACTOR
PART-I

ARTICLE-I

1. Suitable scaffolds shall be provided for workmen for all work that cannot be safely done from a ladder or by other means.

2. A scaffolds 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 consequent of normal use.

4. Scaffolds shall not be over leaded 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. Scaffolds shall be periodically inspected by a competent person.

7. Before allowing a Scaffold to be used by his workmen every employee shall satisfy as to whether Scaffold has been executed by his workmen or not he should be take step to ensure that it functions. Fully with the requirements of this article.

ARTICLE .2

1. Working platforms gangways and staircase shall be so constructed that no part thereof it can sag unduly or unequally.

2. Be so constructed and maintained to obviate from risks of persons tripping or slipping and
   b. Be kept free from any unnecessary obstruction.
   c. Every working platform gang way working place and staircase shall be suitably foreseen.

ARTICLE .3

1. Every opening in the building or in a working platform shall except for the time and to the extent required to allow the excess pd persons or the transport or shifting of materials be provided with suitable means to prevent the fall of persons materials.

2. When persons are employed on a roof where there is danger falling from height exceeding that to be prescribed by national laws or regulations, suitable precautions shall be taken to prevent the fall of persons of materials.

signature of CONTRACTOR
3. Suitable precautions shall be taken to prevent persons 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 place and other working places.

2. Every leader shall be security fixed and of such Length as to provide secure hand hold and foot hold at every position at which it is used.

3. Every place where work is carried on and the means of approach there to shall be adequately lighted.

4. Adequate precautions shall be taken to prevent danger from electrical equipment.

5. No materials on the site shall be so attached or placed as to cause danger to any person.

**PART-II**

**GENERAL RULES AS TO HOSTING APPLIANCES**

**ARTICLE-5**

1. Hoisting machines and tackle including their attachments anchorage and supports shall

   a. be of good mechanical constructions sound material and adequate strength and free from patent defects and

   b. be kept on good repair and in good working order.

2. Every rope used in hoisting or lowering materials or as means of suspensions shall be periodically examined.

**ARTICLE-6**

1. Hoisting machines and tackle shall be examined and adequately tested after erection on the site and before use and re-examined in position at intervals to be prescribed by national law or regulation.

2. Every chain ring, hooks shackle, swivel and pulley block used in hoisting or give lowering materials or as a means of suspensions shall be periodically examined.

**ARTICLE-7**

1. Every crane driver or hoisting appliances operator shall be properly qualified.

signature of  CONTRACTOR
2. No persons under an age to be prescribed by national laws regulations shall be in control of any hoisting machinery including any scaffolds or give signals to the operator.

**ARTICLE-8**

1. In the case of every hoisting machine and every chain ring, hooks shackle, swivel and pulley block used in hoisting or give lowering materials or as a means of suspensions, the safe working load shall be ascertained by adequate means.

2. Every hoisting machine and all gear referred to in the preceding paragraphs shall be clearly marked with the safe working load.

3. 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.

4. No part of any hoisting machine or of any gear referred to in paragraph ‘I’ of this article shall be loaded beyond the safe working load except for the purpose of testing.

**ARTICLE-9**

1. Motor gearings, 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 well reduce the risk of the accidentals descent of the load.

3. Adequate precautions shall be taken to reduce the risk or any parts of 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 any 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 step shall be taken for the prompt rescue of any person in danger.

signature of CONTRACTOR
ARTICLE-12

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

ARTICLE-13

Where large work places are situated in cities, towns or in sub-urban 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.

ADDITIONAL CONDITION-V

An amount equivalent to 5% will be recovered from every running account bills of the contractor as with held amount towards security deposit in addition to 1% of Earnest Money Deposit and 1% of the Security deposit and which will be refunded to the contractor as follows.

i) 4½% of the total value of the work done will be released after the payment of final bill that is too after getting sufficient certificate from the Engineer-in-charge of the site, stating that the work has been completed in all respects and no recovery is pending from the contractor.

ii) 2½% (Two and a half percent) of the total value of work shall be held and retained for a period of One year reckoned from the date of completion of the work in order to enable the Department Officers to watch the effect of all seasons on the work.

iii) Beyond One year an Indemnity Bond (equal to the above value) for a further period of one year should be produced by the contractor.

iv) Any defects noticed during the above period of Two years from the date of completion of the work shall be rectified by the contractor at his own cost within the time specified by the departmental officers. The above are in partial modification of preliminary specification 68 of M.D.S.S AND 64-1 of building practice volume II.

MOSAIC FLOORING

1. Cement concrete flooring tiles shall be manufacturing from a mixture of cement, natural aggregates and color materials where required by pressure process. During manufacture, the tiles shall be subjected to a pressure of not less than 140 kg. Per Sq. cm. (or 2000 lbs. per Sq. inch.)

2. Proportion of cement to aggregate in backing of the tiles shall be not less than 1:3 by weight.

3. On removal form mould, the tile shall be kept in moist condition continuously for at least 7 days and subsequently if necessary kept moist for such a longer period that would endure their conformity, to the requirements of Traverse strength, resistance wear and tear be stored under cover.

signature of CONTRACTOR
4. Tolerance: Tolerance on length and breadth shall be plus or minus one millimeter. Tolerance on thickness shall be plus 3mm, not exceed 1 mm on length and breadth and 3mm on thickness.

5. The minimum thickness of wearing layer for the various classes of cement concrete flooring tiles shall be as specified below

**THICKNESS OF WEARING LAYERS**

<table>
<thead>
<tr>
<th>Class of tiles</th>
<th>Minimum thickness wearing layer in mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plain cement and plain colored tiles for general duty</td>
<td>3</td>
</tr>
<tr>
<td>Plain cement and plain colored tiles for heavy duty</td>
<td>6</td>
</tr>
<tr>
<td>(Mosaic) Terrace tiles with chips of size varying from the</td>
<td></td>
</tr>
<tr>
<td>Smallest up to 6mm (¼”)</td>
<td>5</td>
</tr>
<tr>
<td>(Mosaic) Terrace tiles with chips of size ranging from the</td>
<td></td>
</tr>
<tr>
<td>Smallest up to 12mm (½”)</td>
<td>5</td>
</tr>
<tr>
<td>(Mosaic) Terrace tiles with chips of size varying from the</td>
<td></td>
</tr>
<tr>
<td>Smallest up to 20mm (¾”)</td>
<td>6</td>
</tr>
</tbody>
</table>

**Colors and appearances:**

6. The color and texture of the wearing layer shall be uniform throughout its thickness.

7. When specifying the tiles, the contractor should specifically indicate whether the chips to be used are from the smallest up to 6mm or from smallest up to 12mm or from the smallest up to 20mm size. The officers of the department shall also specify size of chips by referring the approximate photograph given in figures 4 up to figures 6 in Indian standard, No. 1234/1959.

**GENERAL QUALITY OF TILES**

8. 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 crack (Hair cracks not included) and shall be reasonably parallel to the back face of tiles. All angles shall be right angle and all edges shall be sharp and true.

signature of CONTRACTOR
9. Breaking Traverse strength of tile shall be as given below:

<table>
<thead>
<tr>
<th>Size of tiles</th>
<th>Span</th>
<th>Breaking wet test</th>
<th>Load based on dry test</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.85 × 19.85 cm.</td>
<td>15cm</td>
<td>71 kg.</td>
<td>106 kg.</td>
</tr>
<tr>
<td>24.85 × 24.85 cm</td>
<td>20cm</td>
<td>90 kg.</td>
<td>120 kg.</td>
</tr>
<tr>
<td>29.85 × 29.85 cm</td>
<td>25cm</td>
<td>99 kg.</td>
<td>149 kg.</td>
</tr>
</tbody>
</table>

10. The average wear of not less than 12 specimens shall not exceed 2mm and the wear on any individual specimen shall not exceed 2.5 mm when in an Abrasion Machine.

11. The average percentage of water absorption of not less than six full tiles specimens shall not exceed ten in the case of water absorption test.

12. The density of the tiles shall be in the order of about 2.4 gm/cc. The tiles shall be laid with the minimum possible width of joint and not exceeding 1/32 inch. The joints shall be filled with grey 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, or 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 ½” radius with same quality of materials and color of the tiles of the floor. But laid in situ and these coves shall be measured as part of flooring land paid for at the same rates as the flat floors. The colors of the tiles shall generally match other colored face adjacent or as may be directed by Civil Engineer.

The doodling and skirting have to be finished by giving necessary recess in the brick wall itself so that the projection does not exceed ¾” from the face of the wall i.e. finished plastered surface.

**ADDITIONAL CONDITIONS VI**

1. The water for the works shall be as for as possible be free from earthen vegetable or organic mater and from salts or other substance likely to interfere with the setting or mortar or otherwise prove harmful to the work.

2. All items of works shall be done in accordance with the relevant clause of TNDSS and attend a volume to the TNDSS or amended form time to time.

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

signature of CONTRACTOR
4. For testing the concrete and aggregate the contractor must produce the following equipment and make them available at site.

   a) Steel mould for making 45cm cube of concrete (The mould will be in two halves for easy removal)

   b) Slump cone for testing consistency (slump test) the cone will be 30cm height truss caste cone with top and bottom diameters of 10cm and 20 cm respectively. In addition a steel rod 15 mm dia. and 50mm in length and with tamping and rounded is to be procured

   c) For finding fineness modules of coarse aggregate a hand operated sieve 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 and costs of the contractor in addition to the forfeiture of the EMD and security deposit.

   e) The testing is to be done at the contractor’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.S. units where indicated are for guidance only)

   g) Unless otherwise specified all the rates quoted by the contractor 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, length and widths except when specifically mentioned in the item, otherwise nothing extra will be paid on this account.

   i) The rate for all items in which use of cement is involved, is inclusive of charges for curing.

**ADDITIONAL CONDITION VII**

**SPECIFICATION FOR SANITARY FITTNESS DRAINAGE AND WATER SUPPLY**

1. Water closets, basins, urinals, sinks and other sanitary ware shall be of approved make as required in the relevant items fixing of these shall be in accordance with the special specifications.

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 building and the contractor shall be responsible for any damage caused to the existing fixture, electric fittings etc., in the course of execution and the contractors shall make good any such damage without claim for extra.

4. The rate for laying stoneware pipes shall include necessary all incidentals charges during execution of work and making good the damage to the roads and other structure.

signature of CONTRACTOR
5. The rates for laying G.I. pipes PVC pipes shall include fixing with wooden plugs G.I./C.I. Clamps and brass screws where the pipes are fixed to wall. The rates for G.I. pipes shall also include wrapping them with tarred tape where they are buried in earth tarring the portions embedded in masonry and painting with white lead two coats for portions above ground level.

6. The clamps for G.I. pipes fittings should not be spaced more than a part the wooden plugs for pipe and bracket fittings should be properly fixed in CM 1:3 in holder make in masonry with the wide and of wedge shaped plugs inside the walls, the size of plug should be not less than one square inches at one end, 1½ square inch at the other end with depth of not less than 3”.

7. Painting with two coats of best white paint or any other color approved by the Civil Engineer over priming coat of red lead to all flushing tanks brackets clamps used for fixing pipes and all other connections.

8. The contractor should employ sufficient numbers of qualifying licensed plumber with necessary experience and skill in the trade to the satisfaction of the Civil Engineer concerned for executions of water supply and sanitary items of work.

9. The rate shall include all dismantling making holes in walls or slabs and testing the structure to the original condition after the completion of the work.

**SUPPLYING AND FIXING INDIAN TYPE WATER CLOSET**

10. The Indian Type water closet shall be fixed in position at floor level in a bed of concrete brick jelly in lime mortar 1:2 so as to complete by embedding the closet trap and foot rests. The existing masonry structure after dismantling the floor, making the holes etc., shall be restored to its original condition after completion of the work. The foot rests should be fixed at an angle as per standard.

11. The PVC flushing tank shall be of three gallons capacity of Indian make confirming to ISI specification supported on G.I. brackets with necessary C.I. chain and handle for pull float bell valve ½” PVC connections to the water main and closet including painting with the white glazed paint 2 coats over a priming coat of red lead.

12. The fixing of water closet shall include the dismantling of existing floor wherever indicated making holes necessary in walls etc., and restoring structure to original condition after completion of the work. The flushing tank and accessories will be fixed to the walls necessary clamps and brackets in C: M 1:4

**ADDITIONAL CONDITIONS FOR CONTRACTORS-SPECIAL CONDITION**

1. If at any time the Managing Director shall be of the opinion that the contractor is delaying commencement of the work or violating any of the progress of work as defined by the tabular statement rate of progress in the article of agreement, the Managing Director shall so advise the contractor in writing and at the same time demand compliance. If the contractor neglects to comply with such demand within seven days after he receipt of such notice it shall those or any time thereafter be lawful for the Managing Director to determine the contract.

signature of CONTRACTOR
Which determination shall carry with the forfeiture of the security deposit and total of the amount withheld from the final bill together with value of such work as may have been executed and not paid for such proportion of such total sums as shall be assessed by the Civil Engineer.

**ADDITIONAL CONDITIONS**

**Water and lighting:**

11. The contractor shall pay all fees, and provide water and light as required from Municipal main or other sources and shall pay all charges therefor including storage tanks, meter etc., for the use of the works and workman unless otherwise arranged and decided as in writing with Managing Director. The tenderer shall ensure that no damage is caused to the existing structure/building whether it is Government owned or private owned etc., in the adjacent areas close preliminary to the proposed site and if any damage is caused due to pipe driving etc., to the adjacent buildings it shall be rectified completed by the tenderer at his own cost to the satisfaction of departmental officers/ owner of any private building affected (i.e.). The contractor should indemnify the department against damages if any to adjacent building due to the driving.

The Contractor has to make his own arrangements for producing water for construction purpose and curing should be done with water free from injurious amounts of deletion materials portable water are generally considered satisfactory for curing and laying concrete and masonry. However the, water to be used should be periodically tested at contractors cost for its suitability for using in the construction work and got approved by Civil Engineer.

**Electricity:**

12. The Contactor should make his own arrangements for obtaining electricity for all type of his use like lighting, welding, pumping mosaic and marble polishing etc.

13. Any damage to work resulting from rains or from any other cause until these works is taken over by the department after completion will be made good by the contractor at his own cost.

**ADDITIONAL CONDITIONS VIII.**

And whereas the contractors who is not professionally qualified has agreed to employ technical man/ men as indicated below, to the satisfaction of the Executive Engineer for the work.

And whereas the contractors who is professionally qualified or who has undertaken to employ technical men under him has agreed that one of the technically qualified men will always remain at the site of work during working hours personally checking all times of works and paying extra attention to such works as may demand special attention (e.g.) reinforced concrete work etc.

The contractor may employ one technical Assistant for more then one work situated within a radius of one Kilometer provided the monetary limit prescribed for the nature of Technical staff to be employed is adhered to, by one the same contractor.

signature of CONTRACTOR
THE SCHEDULE

<table>
<thead>
<tr>
<th>1.No</th>
<th>Value of contract</th>
<th>Qualification and number of Technical Assistants to be employed</th>
</tr>
</thead>
</table>
|      | Upto Rs. 1Lakhs   | No technical assistant need be employed. If situation and nature of work warrants.  
|      |                   | i) A Diploma holder in Civil Engineering. (or)  
|      |                   | ii) A retired Junior Engineer may be employed. |
|      | From Rs. 1Lakhs   | i) One Diploma holder in Civil Engineering. (or)  
|      | upto Rs. 5Lakhs   | ii) Not less than one retired Junior Engineer. |
|      | From Rs. 5Lakhs   | i) One B.E. (Civil). (or)  
|      | upto Rs. 10Lakhs  | ii) Equivalent degree holder. (or)  
|      |                   | iii) Not less than one retired sub divisional Officer/ Assistant Executive Engineer/ Assistant Divisional Engineer. (or)  
|      |                   | iv) One Diploma holder with three years experience. |
|      | From Rs. 10Lakhs  | i) One B.E. (Civil) with three years experience plus one Diploma holder in Civil Engineering. (or)  
|      | upto Rs. 25Lakhs  | ii) Equivalent degree holder with three years experience plus one Diploma holder in Civil Engineering (or)  
|      |                   | iii) Not less than one retired sub divisional Officer plus one Diploma holder in Civil Engineering. (or)  
|      |                   | iv) Two Diploma holder in Civil Engineering with 3 and 5 years experience respectively. |
|      | From Rs. 25Lakhs  | i) One B.E. (Civil) with three years experience plus Two Diploma holder in Civil Engineering. (or)  
|      | upto Rs. 50Lakhs  | ii) One B.E. (Civil) with three years experience plus two retired Junior Engineers. (or)  
|      |                   | iii) Equivalent degree holder with three years experience plus Two Diploma holder in Civil Engineering/ two retired Junior Engineers. (or)  
|      |                   | iv) One retired sub divisional Officer (Assistant Executive Engineer/ Assistant Divisional Engineer) plus Two Diploma holder in Civil Engineering.  
|      |                   | v) One retired sub divisional Officer (Assistant Executive Engineer/ Assistant Divisional Engineer) plus two retired Junior Engineers.  
|      | Above Rs. 50Lakhs | vi) Two B.E. (Civil)/ Equivalent degree holder with three years experience plus four Diploma holders in Civil Engineering/ Retired Junior Engineers. (or)  
|      |                   | vii) Two retired sub divisional Officer (Assistant Executive Engineer/ Assistant Divisional Engineer) plus four Diploma holders in Civil Engineering or four retired Junior Engineers. |
And whereas, in the case of contractor who is not professionally qualified and who fails to employ the Technical man/men as indicated above for the due fulfillment of the contract to the satisfaction of the Civil Engineer, penalty will be levied according to the scale indicated below, during the period of such non employment of Technical staff.

**RATES OF PENALTY FOR THE EMPLOYMENT OF TECHNICAL STAFF**

1. A penalty of Rs. 500.00 per month in case of Diploma holder or retired Junior Engineer.

2. A penalty of Rs. 1000.00 per month in case of B.E. (Civil) or Equivalent degree holder of retired sub divisional Officer.

The contractor shall employ Graduation in Mechanical Engineering who had retired from Civil Engineering Department, provided the Mechanical Engineer retired from the Civil Engineering Department have sufficient experience in Civil Engineering field.

As and when the contract value exceeds Rs._________/-- the contractor shall accept for a change in the employment of technical staff as prescribed above and a supplemental agreement of shall be entered into, to give effect.

If the contractor fails to employ technical staff as prescribed for the increased contract value, penalty will be levied at the scale mentioned above, even when the contractor employed technical staff required for the original contract value.

**NOTE:-**

In case the contractor who is professionally qualified is not in a position to remain always at the site of work during working hours personally checking all items of work and paying extra attention to such works as may demand special attention (e.g.) reinforced concrete works, he should employ technically qualified men as prescribed for the works.

I/ We/, am/ are professionally qualified any my/our qualifications are given below:

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name</th>
<th>Qualification</th>
</tr>
</thead>
</table>

I/ We will employ the following technical staff for supervising the work and will see that he/one of them is always available at site during working hours, personally checking all items of works and paying extra attention to such works as may demand special attention (e.g.) reinforced concrete work.

signature of CONTRACTOR
NOTE:- In case the contractor who is professionally qualified is not in a position to remain always at the site of work during working hours personally checking all items of work and paying extra attention to such works as may demand special attention (e.g.) qualified men as prescribed for the work.

SPECIAL CONDITIONS-1

GOODS AND SERVICE TAX

The Contractor should be required to indicate their GST registration number under the Goods and Services Tax (GST) Act in the tender form. The Central Goods and Services (CGST) Act, The Integrated Goods and Services Act (IGST) Act and the Tamil Nadu Goods and Services (TNGST) Act has been enacted and enforced from 01.07.2017. Under the new tax regime, GST (comprising CGST, SGST and IGST) on works contracts for Government work was finally notified at 12 percent. As per the Tamil Nadu Goods and Services (TNGST) Act 2017, with effect from 01.07.2017. Under the new tax regime, GST (comprising CGST, SGST and IGST) on works contracts for Government work was finally notified at 12 percent. As per the Tamil Nadu Goods and Services (TNGST) Act 2017, with effect from 01.07.2017.

1) The bidder shall fill in rates and prices and line item total (both in figures and words) for all the items of the Works described in the Bill of Quantities along with total bid price (both in figures and words). Items for which no rate or price is entered by the bidder will not be paid for by the Employer when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. The bidder is not required to quote his rate for Goods and Services Taxes. The goods and Services Tax (GST) amount will be calculated at 12% from the sum of the Bid value (excluding GST) quoted by the bidder for the construction Cost specified in the boQ, subject to rate applicable from time to time as recommended by the GST Council.

2) All duties, taxes, and other levies except Goods and Services Tax (GST), payable by the contractor under the contract, or for any other cause shall be included in the rates, prices and total Bid price submitted by the Bidder.

3) Government of India has notified, vide Notification No.20/2017-Central tax (Rate) dated 22nd August, 2017 and Notification No.24/2017-Central Tax (Rate) dated 21st September, 2017, the concessional rate of the Goods and Services Tax (GST) at 12% [CGST at 6% + SGST at 6%] is leviable for any Government contract, whether Civil or Electrical, irrespective of the Goods used in the execution of Government Contract. The GST amount will be calculated at 12% from the sum of the Bid value (excluding GST) quoted by the bidder for

signature of CONTRACTOR
construction Cost specified in the BoQ, Subject to rate applicable from time to time as recommended by the Goods and Services Tax (GST) Council.

4) As per Notification 202, dated: 29.06.2017 and as per sub-section (2) of section 7 of the Tamil Nadu Goods and services Act, 2017, (Tamil Nadu Act 19 of 2017), activities or transaction undertaken by State Government shall be treated neither as supply of Goods nor a supply of services.

5) As per Chapter IX (Section 41) of the Tamil Nadu Goods and Services Act, 2017, every registered persons may be entitled to take the credit of eligible input tax, as self-assessed, in his return and such amount shall be credited on a provisional basis to his electronic credit ledger.

6) The total bid price will be the cumulative of Value quoted for construction and the Goods and Services tax (GST)

7) In case of variations in quantity of various items of work during execution the amount payable for the individual item of work will be as per the departmental unit rates indicated in the tender premium and the actual quantity of work done.

SPECIAL CONDITIONS II

Payments

Part or Complete Payment will be made only on satisfactory Completion of work in full / part thereof and value of work executed shall be determined, based on the measurements and check measurements by the Engineer in the M.Book. For every Bill, 12% of Goods and Services Tax will be paid to the contractor based on the value of work done for Construction by the Employer. After the payment including 12% of Goods and Services Tax (GST), the Contractor need to pay the GST Amount to Government through his GST Registration No. Also the contractor need to submit the Materials purchase bill mentioning the name of the works in the package and GST No. to the employer.

For the Materials supplied departmentally, the Employer will par the GST for the supplied materials to the Manufacturer/supplier. For the departmentally supplied materials, the materials cost including GST will be deducted from the Contractor for ITC claim, wherever applicable under GST Law.

For the Materials supplied departmentally, based on the work done, materials adequacy has to be arrived by the concerned engineer for every bill payment.

signature of CONTRACTOR
First Bill Payment

At the time of payment for first running account bill, the contractor should produce the GST paid details for the materials to the Employer.

Intermediate Bill Payment

At the time of payment for next running account bill, the contractor should produce the GST paid details for the previous payment (i.e., GST paid detail for the previous work bill) to the Employer.

Final Bill Payment

The contractor should produce the GST paid details for all the materials utilized for construction work and GST paid details of services for the previous payment (i.e., GST paid detail for the previous work bill) to the Employer along Input Tax Credit (ITC) availed at the time of payment of final bill to the employer.

Submission of GST paid details of Final Bill

The GST paid details for the final work bill payment of construction work to be submitted by the contractor to the employer in few days after getting payments.

SPECIAL CONDITIONS III

I. Contractor’s risk and Insurances:

Clause 47-1

The work executed by the Contractor under the contract shall be maintained at the contractor’s risk until the work is taken over by the Civil Engineer. The contractor shall accordingly arrange his own insurance against fire and other usual risk during such period unless otherwise specified.

Clause 47-2

The Federation shall not be liable to pay for all or any loss, damages occasioned by or arising out of acts of God, and in particular un-precedent floods, volcanic, eruption, earthquake or other convulsion of nature, invasion, the acts of foreign enemies, hostilities or war like operations (before or after declaration of war) Military, rebellion or usurped power during such period and that the option whether to take insurance coverage or not to cover such risks is left to the contactor.

II. ARBITRATION

Clause 69-A

In case of any dispute or difference between the parties to the contract either during the progress or after the completion of work or after determination, abandonment or breach of the contract or as to any matter or things arising there under except as to the materials

signature of CONTRACTOR
left to the discretion of the Managing Director under clause 18, 20, 25, 27, 34, 35 and 37 of General conditions of contract or as to the withholding by the payment of any bill to which the contractor may claim to be entitled, the either party shall forthwith given to the other notice of such dispute of concerned circle Superintending Engineer/PWD (here in after called the arbitrator) in cases where the value of claim is less than and upto Rs. 50,000/-

**Clause 69-2**

In case where the value of claim is more than Rs.50,000/- the parties will seek remedy through the competent Civil court.

**ADDITIONAL CONDITIONS IX**

If, at any time, subsequent to the Execution of this agreement, Federation materials other than those specified in the agreement are supplied to the Contractor, for use on the work they will be charged at the market value prevailing plus sales tax at the time of supply or stock issue rate including sales tax whichever is higher, the contractor will be informed in writing of this charge and he should intimate in writing the rate which demands for finishing the work in view of the fact that he is to use Federation materials. No cartage or incidental charge will be borne by the Federation in connection with the supply of the materials referred to in this paragraph.

signature of CONTRACTOR
PARTICULARS TO BE FURNISHED BY THE TENDERER

1) Name of the Tenderer with Address
   Telephone No. : 
   E-Mail : 
   Contact Person Name / Designation : 

2) Name of work : 

3) Date of Tender : 

4) Total value of Tender : 

5) Details of EMD
   (a) Demand Draft No. : 
   (b) Date : 
   (c) Drawn on : 

6) Registered class of the Tenderer with Monetary limit & Department in which registered (Copy of registration should be enclosed) : 

7) Whether the tenderer is a licenced manufacturer copy of Licence shall be enclosed : 

8) Recent work executed : 
   (Name of work, place of work value of work should be mentioned) 

9) Works under execution (Name, Place and value of work should be mentioned) : 

10) Command of labour in brief : 

11) Turnover in previous year : 

12) Whether Income Tax clearance certificate enclosed ? If not when it will be produced : 

signature of CONTRACTOR
13) (i) VAT - TIN number : 
(ii) Whether sales tax : 
clearance certificate is enclosed ?
If not when it will be produced
(iii) PAN Number : 

14) Technical Assistant Details :

I  (i) Name : 
(ii) Qualification (copy should be enclosed) : 
(iii) Experience certificate :

II  (i) Name : 
(ii) Qualification (copy should be enclosed) : 
(iii) Experience certificate : 
(or)
Name : 
If retired Electrical Engineer, 
Designation and date of retirement (copy to be enclosed)

15) Any other details

Note : The consent letter from the Technical Assistant proposed to be employed should be obtained and enclosed with the Tender during submission of the tender.

signature of CONTRACTOR
signature of CONTRACTOR
TAMIL NADU COOPERATIVE MARKETING FEDERATION LIMITED
91. St. Mary’s Road, Chennai - 600 018.

TENDER FOR REPAIRS AND RENOVATION OF 2x500 MT CAPACITY GODOWNS AT UDAIYAPATTI CO-OP. INDUSTRIAL ESTATES, UDAIYAPATTI, SALEM DISTRICT, UNDER ICDP – SCHEME.

PART - B

Specifications & Price Bid

Due date : 23.10.2019 at 2.00 P.M.
SCHEDULE-A

Name of work: REPAIRS AND RENOVATION OF 2x500 MT CAPACITY GODOWNS AT UDAIYAPATTI CO-OP. INDUSTRIAL
ESTATES, UDAIYAPATTI, SALEM DISTRICT, UNDER ICDP – SCHEME.

The Quantities given here are those upon which the lump sum tender cost of work is based but they are subject to alterations, omissions, deductions (or) additions as provided for in the conditions of this contract and do not necessarily show the actual quantities of work to be done. 

a. The unit rates noted below are those governing payment for extra (or) deduction (or) omission (or) additions according to the conditions of the contract as set forth in the preliminary specifications of the Tamilnadu detailed standard specifications of this contract.

b. It is to be expressly understood that the measured work as to be taken ‘Net’ not withstanding any custom (or) Practice to the contrary according to the actual quantities where in place and finished according to the drawing (or) may be ordered from time to time by the Managing Director and the cost calculated by measurement (or) weight at the respective prices without any additional charges for any necessary (or) contingent works connected herewith. The rates quoted are for works in Situ and complete in every respect.

c. The GST amount shall be Subsumed at the end of Price bid.

Signature of CONTRACTOR
<table>
<thead>
<tr>
<th>S.No</th>
<th>Approx Quantity</th>
<th>Description of item of work</th>
<th>Rate in figures &amp; in words</th>
<th>Unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5.00</td>
<td>Earth work excavation for foundation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.</td>
<td>17 23 &amp; 24</td>
<td>1 m³</td>
<td>(One cubic metre)</td>
</tr>
<tr>
<td>2</td>
<td>3.50</td>
<td>Supplying and filling in foundation, basement, etc with filling sand in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers</td>
<td>24 &amp; 25</td>
<td>1 m³</td>
<td>(One cubic metre)</td>
</tr>
<tr>
<td>3</td>
<td>3.00</td>
<td>Plain Cement Concrete 1:5:10 (One Cement, Five sand and Ten hard broken stone jelly) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick well rammed, consolidated and curing etc. complete complying with standard specification</td>
<td>23 &amp; 28</td>
<td>1 m³</td>
<td>(One cubic metre)</td>
</tr>
<tr>
<td>4</td>
<td>5.00</td>
<td>Brick work in Cement Mortar 1:5 using best quality of country bricks of size 8-3/4&quot; x 4-1/4&quot; x 2-3/4&quot; for foundation and basement including curing, etc., complete complying with standard specification.</td>
<td>31 31c</td>
<td>1 m³</td>
<td>(One cubic metre)</td>
</tr>
</tbody>
</table>

C/o

Signature of CONTRACTOR
<table>
<thead>
<tr>
<th>S.No</th>
<th>Approx Quantity</th>
<th>Description of item of work</th>
<th>TN BP No.</th>
<th>Rate in figures &amp; in words</th>
<th>Unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0.60</td>
<td>Reinforced Cement concrete 1:2:4 (One Cement, two sand and four hard broken granite stone jelly) using 20 mm gauge hard broken granite stone jelly for all RCC items of work like column footings, plinth beams / grade beams, lintels, square or rectangular columns, beams, bed blocks, sunshades, and other similar item of works etc., complete excluding cost of reinforcement grill and fabricating charges, centering and shuttering but including laying, vibrating with mechanical vibrators, finishing, curing etc. and providing fixtures like fan clamps in the RCC floor/roof slabs wherever necessary and treatment of bearing surfaces of walls, beams etc. without claiming any extra. etc. complete complying with standard specification and as directed by the departmental officers.</td>
<td>30</td>
<td>1 m³ (One cubic metre)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>32.00</td>
<td>Supplying and fixing AC sheet roofing with 6mm thick asbestos cement sheets of fully corrugated (grey colour) of approved quality by drilling holes (and not by punching) with necessary ‘J’ / ‘U’ bolts and nuts of 8mm dia of suitable length and providing one set of bitumen washers of 25mm dia and 1.60mm thick for each bolt including protruding portion of bolts in roof shall be covered with bitumen compound etc., complete complying with standard specification and as directed by the departmetal officers</td>
<td></td>
<td>1 m² (One Square metre)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>23.13</td>
<td>Supplying and fixing 18 gauge steel rolling shutters for a clear opening of 1.80m x 2.40m of approved ISI make including supplying &amp; fixing top hood cover and all other accessories, locking arrangements etc. with one coat of red oxide primer paint etc. complete complying with standard specification.</td>
<td></td>
<td>1 m² (One Square metre)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S.No</td>
<td>Approx Quantity</td>
<td>Description of item of work</td>
<td>TN BP No.</td>
<td>Rate in figures &amp; in words</td>
<td>Unit</td>
<td>Amount</td>
</tr>
<tr>
<td>------</td>
<td>----------------</td>
<td>------------------------------------------------------------------------------------------</td>
<td>-----------</td>
<td>---------------------------</td>
<td>-----------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>8</td>
<td>24.00</td>
<td>Supplying and fixing in position of steel Air inlet of following sizes with weld mesh cover made ½”×½” weld mesh 14 gauge and with insect screen firmly welded on the frame as per std specification etc, complete including one coat of red oxide primer etc. complete complying with standard specification.</td>
<td></td>
<td></td>
<td>1 m² (One Square metre)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>30.00</td>
<td>Replacing of Ventilator glass for 'N' type Ventilators</td>
<td></td>
<td></td>
<td>1 m² (One Square metre)</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>275.00</td>
<td>Plastering with Cement Mortar 1:5 (One cement and Five sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.</td>
<td>61</td>
<td></td>
<td>1 m² (One Square metre)</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>685.00</td>
<td>Repainting the A.C Sheet with two coat of white wash of approve quality including the cost of brushes, sand paper etc., complete</td>
<td>69</td>
<td></td>
<td>1 m² (One Square metre)</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>2808.50</td>
<td>Repainting the walls with two coat of first class quality plastic emulsion paint of approve quality including the cost of brushes, sand paper etc., complete</td>
<td>70</td>
<td></td>
<td>1 m² (One Square metre)</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>350.00</td>
<td>Painting new iron works such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete</td>
<td>72</td>
<td></td>
<td>1 m² (One Square metre)</td>
<td></td>
</tr>
</tbody>
</table>

(SCHEDULE A) SUB TOTAL __________________________

GST @ 12% Rs. __________________________

GRAND TOTAL Rs. __________________________

Signature of CONTRACTOR
## SCHEDULE - B

**NAME OF WORK: PROVIDING INTERNAL & EXTERNAL ELECTRIFICATION FOR GODOWN**

<table>
<thead>
<tr>
<th>S.No</th>
<th>Approx Quantity</th>
<th>Description of item of work</th>
<th>TN BP No.</th>
<th>Rate in figures &amp; in words</th>
<th>Unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>23.00</td>
<td>Wiring with 2 x 1.5 sqmm (22 / 0.3) PVC insulated SC unsheathed Copper conductor cable of 1100V grade in suitable PVC rigid pipe on wall and ceiling with PVC accessories with TW switch box in flush with wall with 5A F.T.switch, covered with hylum sheet of 3mm thick with painting of suitable colour, with continuous earth wire connection of 14 SWG TC wire for open PVC light point / fan point (For electronic Regulator)(SD19)</td>
<td></td>
<td>1 Pt.</td>
<td>( One point)</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>8.00</td>
<td>Wiring with 2x1.5sqmm (22/0.3) PVC insulated SC unsheathed Cu.Conductor of 1100 V grade in suitable PVC rigid pipe on wall and ceiling with PVC accessories with 150 mm x 100 mm x 113mm TW switch box in flush with wall with 3 mm thick Hylem sheet cover for 5 A 3 pin non inter locking CS plug with painting of suitable colour with continuous earth wire connection of 14 SWG TC wire for open PVC plug point(SD37)</td>
<td></td>
<td>1 Pt.</td>
<td>( One point)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>4.00</td>
<td>Wiring with 2x4 sqmm(56/0.3) PVC insulated SC unsheathed Cu.Conductor cable of 1100V grade in suitable PVC rigid pipe on wall and ceiling with PVC accessories with 150mm x100mm x113mm TW switch box in flush with wall with 3mm thick hylem sheet cover for 15 A 3 pin flush type non inter locking CS plug with painting of suitable colour with continuous earth wire connection of 14 SWG TC wire for open PVC power plug point (SD 41)</td>
<td></td>
<td>1 Pt.</td>
<td>( One point)</td>
<td></td>
</tr>
</tbody>
</table>

C/o

Signature of CONTRACTOR
<table>
<thead>
<tr>
<th>S.No</th>
<th>Approx Quantity</th>
<th>Description of item of work</th>
<th>TN BP No.</th>
<th>Rate in figures &amp; in words</th>
<th>Unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>40.00</td>
<td>Supply and run of 2 of 4sqmm (56/0.3) PVC insulated SC unsheathed Cu. Conductor of 1100V Grade in suitable PVC rigid pipe on wall and ceiling with continuous earth wire connection of 14 SWG TC wire with painting of suitable colour (SD56)</td>
<td></td>
<td></td>
<td>1 Rm (One running meter)</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>26.00</td>
<td>Supply and fixing of single box type 4'36 W flu fitting complete with electronic ballast with TW round blocks on wall or ceiling with flu tube with PVC unsheathed Copper leads from terminals to the fitting. (SD 87)</td>
<td></td>
<td></td>
<td>1 No. (One number)</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>8.00</td>
<td>Supply and fixing of 5A 3 pin and 2 pin combined flush type wall socket with 5A flush type switch on suitable TW box (SD 133)</td>
<td></td>
<td></td>
<td>1 No. (One number)</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>6.00</td>
<td>Supply and fixing of 4' 40 W Twin street light flu. fitting complete with copper choke and condensor with 32 mm dia GI pipe (Class 'B') with 1 No 32mm GI Bend complete on the existing post wall with 16 A aerial fuse unit on MS plate with PVC unsheathed Copper leads MS clamps and aluminium painting with flu.tubes.(SD 95)</td>
<td></td>
<td></td>
<td>1 No. (One number)</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>1.00</td>
<td>Supply and fixing of 32 A TPNMC switch on suitable angle iron frame work with MS cable entry box with earth connection only (SD 164)</td>
<td></td>
<td></td>
<td>1 No. (One number)</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>1.00</td>
<td>Supply and fixing of Horizontal type 4 way triple pole neutral MCB distribution board in sheet steel enclosure with 40A 4 pole MCB isolater as incoming and 12 Nos. 6 A to 32 A SP MCB as outgoing in flush with wall and making good of the concealed portion with earth connection. The MCBDB and MCB's should be with the ISI mark (like standard make) (SD 179)</td>
<td></td>
<td></td>
<td>1 No. (One number)</td>
<td></td>
</tr>
</tbody>
</table>

(SCHEDULE B) SUB TOTAL __________________________
GST @ 12% Rs. __________________________
GRAND TOTAL Rs. __________________________

Signature of CONTRACTOR