

**TENDER DETAILS FOR PROVIDING UPFLOW FILTER SEPTIC TANK FOR A,B,C,D,E,F,G AND H BLOCK FOR THE WORK OF CONSTRUCTION OF 236 NOS. OF PC/HC QUARTERS FOR TSP XII BATTALION AT SAKKARAKOTTAI VILLAGE IN RAMANATHAPURAM DISTRICT (GROUP-I)**

- 1) FILE NUMBER : DB/SC/2688/2021
- 2) TENDER NOTICE NUMBER : 02/2022-2023 (3)
- 3) NAME OF WORK : Providing Upflow filter Septic tank for A,B,C,D,E, F,G and H Block for the work of Construction of 236 Nos. of PC/HC quarters for TSP XII Battalion at **SAKKARAKOTTAI VILLAGE** in Ramanathapuram District (Group-I)
- 4) DATE OF SALE OF TENDER : 25.04.2022 to 02.05.2022  
(10.30 A.M. to 5.45 P.M.)
- 5) DATE OF RECEIPT OF TENDER : 04.05.2022, up to 3.00 P.M.
- 6) DATE OF OPENING OF TENDER : 04.05.2022, at 3.15 P.M.
- 7) E.M.D. AMOUNT (With GST) : Rs.27,300/-  
(Rupees twenty seven thousand and three hundred only)

(To be drawn in favour of the Executive Engineer/ TNPSC Ltd., The tender received without EMD will be summarily rejected)

- 8) COST OF TENDER DOCUMENTS, Including GST : Rs.10,620/-  
(Non refundable and to be drawn in favour of the Executive Engineer/Madurai Division of TNPSC Ltd.,) (Rupees ten thousand six hundred and twenty only)

Without remittance of Schedule Cost, the tender document for this work can be down loaded from the website "[www.tenders.tn.gov.in](http://www.tenders.tn.gov.in)" at free of cost and used as tender documents for this work

- 9) PERIOD FOR COMPLETION OF WORK : 03 MONTHS
- 10) THE TENDER SCHEDULE IS TO BE PLACED : At the o/o the SE/TNPSC Ltd., South Circle  
No.1, Inspector quarters, TSP VI Battalion campus,  
New Natham Road, Madurai 625 014.
- 11) BOOKLET CONTAINING IN THIS TENDER SCHEDULE

Coding Sheet : 10 Pages  
Technical Document : 42 Pages

**Name of the Tenderer**

:

**Address**

:

## **SPECIAL CONDITIONS**

### **IMPORTANT INFORMATION TO THE TENDERERS FOR FILLING UP OF TENDER CODING SHEET INCLUDED IN THE TENDER SCHEDULE**

1. Rates should be quoted in the coding sheet enclosed in the tender schedule without fail.
2. This tender schedule is included (i) Tender Coding Sheet and (ii) Detailed tender Specification (i.e., Schedule 'A') including drawings and Other terms & Conditions of the tender. In order to simplify the work and early decision to be taken on the tender the quantities of items are given only in the tender coding sheet. The contractors are requested to read the detailed specification and quote the rates clearly in the tender coding sheet. Quoting the rates in the tender coding sheet for all the items will only be taken up for comparison and shall be final. The contractor need not quoted the rates in the detailed specification. Even if it is quoted it will not be taken up for tender comparison.
3. The contractor should make sure that the rates both in figures and words filled up in the coding sheet are exactly the same and it clearly understood that the same is quoted for detailed specification specified in the schedule 'A'
4. The Contractors are requested to fillup the rates neatly without over writing. Otherwise the decision of the TNPHC on these rates to be takenup for comparison is the final.
5. **The tenderer should fill up the Amount for each item in the Amount column as well as total amount in the coding sheet without fail.**
6. The items, which are not included in this work are shown as deleted in the coding sheet. Contractor should not quote the rates in Coding sheet for such of those items shown as deleted. Even it is quoted it will be ignored.
7. The tenderer / contractor will make his/her/their own arrangements to procure and use ISI Brand Cement and ISI Brand Steel required for the work.
8. It should be clearly understood that the rate quoted by the tenderer / contractor is inclusive the cost of 43 grade ordinary portland cement / SRC and steel and other incidental charges such as conveyance, loading, unloading, stacking at site and testing charges etc., complete.
9. The tenderer / contractor will produce test certificate obtained from anyone of the Govt. Institutions for cement and steel brought to site. As and when required by the Department the cement and steel brought to the site shall be tested by the Department from anyone of the approved Govt. Institutions and only when the test results confirm to the ISI specification they will be allowed to be used in the works.
10. The tenderer / Contractor should strictly follow above instructions without fail.

**CHECK LIST FOR SUBMITTING THE TENDER**

1. EMD (To be drawn in favour of the Executive Engineer, TNPSC Ltd.)
2. Other credentials.
  - i) Registration as a contractor under appropriate class in PWD or TNPSC with upto date renewal. (i.e. registration should be valid on the date of tender).
  - ii) Experience certificate
  - iii) Current Income tax certificate (2020-2021 / 2021-2022)
  - iv) GST Registration Certificate
  - v) Revenue solvency issued by the Tahsildar with upto date EC should be uploaded. The details of Survey number, area etc., of the property mentioned in the solvency certificate and Encumbrance certificate should be tallied. If any discrepancies, the same will not be considered. Encumbrance certificate should be obtained from the date of solvency certificate issued by the Tahsildar, on or after the date of issue of tender notice of the respective works. EC should be free from Encumbrance. If EC is obtained from the Government website, the same also be considered.
  - vi) In case the tender is made by an individual, the tender documents shall be signed by the individual with his name and address and submit along with a copy of (duly attested by Notary Public / Gazatted Officer ) proper contractor registration certificate
  - vii) Incase the tender is made by registered firm, it shall be signed by the Managing Partner (or) the person authorized by the firm, with full name of the firm and address. The proof shall be submitted along with the copy of partnership deed and current renewal for Firm registration **i.e Form C obtained from Registrar of Firms with proof of renewal.** (Copies should be duly attested by Notary Public / Gazatted Officer).
  - viii) Incase the tender is made by a limited company or a limited corporation, it shall be signed by a duly authorized person holding the power of attorney for signing the tender in which case a certified copy of the power of attorney shall accompany the tender. The articles of Memorandum of the company and profile of the company with company incorporation certificate copies with seal (duly attested by Notary Public / Gazatted officer) shall be submitted along with his/her/their tender
  - ix) Incase a tenderer, tendered in the Name and Style of Proprietorship Concern the tenderer should have registered his firm name in the respective registrar office and enclose the copy of Proprietorship Deed (Duly attested by the Notary Public / Gazatted Officer) along with the tender. The sole proprietor alone should sign in the tender document.
  - x) All the copies of the credentials and particulars furnished by the tenderer should be duly attested by the Notary Public / Gazatted officer. Otherwise the tender shall be rejected as per the provisions of TT Act rule No.28 of 2000
3. Technical document with detailed tender specification including drawings (Other terms and conditions of tender)
4. Tender Coding Sheet

**Note :** The tenderer should furnish the above documents mentioned in the check list for scrutiny and evaluation of the tender. Failure on the part of the tenderer to comply with the above requirements, the tender will be rejected

**TAMIL NADU POLICE HOUSING CORPORATION LIMITED****Tender Notice**

**Office of the Superintending Engineer/SOUTH CIRCLE., Tamil Nadu Police Housing Corporation Limited.**

For and on behalf of the TNPSC Ltd sealed tender is invited for the under mentioned work so as to reach the Superintending Engineer / SOUTH CIRCLE., Tamil Nadu Police Housing Corporation Limited, No. 1 Inspector Quarters. TSP VI Battallion campus, New Natham Road, Madurai - 625 014., not later than the date and Time Mentioned in the Annexure "R" Serial No.5. The tenders will be opened by the Superintending Engineer/SOUTH CIRCLE, Tamil Nadu Police Housing Corporation Limited, at his office at 3.15 PM. as per Superintending Engineer's/SOUTH CIRCLE office clock, on the same date in the presence of the tenderers or their authorised representative, who choose to be present for the work of \* .....

(Refer Annexure "R" Serial No. 3)

The tender should be in the prescribed form obtained from the Office of the Superintending Engineer/SOUTH CIRCLE., Tamil Nadu Police Housing Corporation Limited. The tenders will be opened by the Superintending Engineer/SOUTH CIRCLE., Tamil Nadu Police Housing Corporation Limited or his delegate at the place and on the above mentioned.

1. The tenderers or their agents are expected to be present at the time of opening of tenders. The tenders receiving officer will on opening each tender prepare a statement of the attested and unattested corrections therein and hand it over to the tenderer concerned and initials all such corrections in the presence of the tenderer. If any on the tenderers or their agents finds it inconvenient to be present at the time, then in such a case the tender receiving Officer will on opening the tender of the absentee tenderer make out a statement of the unattested corrections and communicate to him. The absentee tenderer shall then accept the statement of corrections without any question whatsoever.
2. Tenders must be submitted in sealed covers and should be addressed to the Superintending Engineer/SOUTH CIRCLE., Tamil Nadu Police Housing Corporation Limited, the name of the tenderer and the name of the work being noted on the cover.
3. Incase the tender is made by an individual, the tender documents shall be signed by the individual with his name and address and submit along with a copy of (duly attested by Notary Public / Gazatted Officer) proper contractor registration certificate
4. Incase the tender is made by registered firm, it shall be signed by the Managing Partner (or) the person authorized by the firm, with full name of the firm and address. The proof shall be submitted along with the copy of partnership deed and current renewal for Firm registration i.e Form C obtained from Registrar of Firms with proof of renewal. (Copies should be duly attested by Notary Public / Gazetted Officer).

5. Incase the tender is made by a limited company or a limited corporation, it shall be signed by a duly authorized person holding the power of attorney for signing the tender in which case a certified copy of the power of attorney shall accompany the tender. The articles of Memorandum of the company and profile of the company with company incorporation certificate copies with seal (duly attested by Notary Public / Gazatted officer) shall be submitted along with his/her/their tender
6. Incase a tenderer, tendered in the Name and Style of Proprietorship Concern the tenderer should have registered his firm name in the respective registrar office and enclose the copy of Proprietorship Deed (Duly attested by the Notary Public / Gazatted Officer) along with the tender. The sole proprietor alone should sign in the tender document
7. Each tenderer must also send a certificate of the latest Income – tax return acknowledgement in the form prescribed there for.

All tenders received without certificate as aforementioned will be summarily rejected.

+ Each tenderer must pay as Earnest Money deposit (with GST) of a sum of Rs. .... (Refer Annexure "R" SerialNo.7) Rupees..... ) by demand draft drawn in favour of the Executive Engineer (Refer Annexure-"R" Serial No.7). Tamil Nadu Police Housing Corporation and enclose with his tender the Demand Draft in Original. The Earnest Money deposit (with GST) will be refunded to the unsuccessful tenderers on application after intimation is sent to rejection of the tender or at the expiration of 90 days from the date of tender, whichever is earlier. The Earnest Money deposit (with GST) will not be received in cash or cheque. Tenders accompanied by cheques or cash will be summarily rejected.

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

**\* NAME OF WORK** (Refer Annexure – "R" Serial No:3)

+ Alternatively the Earnest Money deposit (with GST) to the required value will be accepted in any one of these forms.

Demand Draft/ Bankers cheque from any one of the Nationalised Bank/Scheduled Bank in favour of the Executive Engineer (Refer Annexure-"R" Serial No.7). NSC/KVP should be pledged in favour of the Executive Engineer (Refer Annexure – "R" Serial No.7). The NSC/KVP must be accompanied with covering letter indicating the details of the NSC/KVP which are enclosed along with the tender.

8. The tender will remain valid for a period of 90 days from the last date for receipt of tender. The validity period can be extended further if the contractor gives his consent in writing, specifying the period of extension.
  - (i). 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 specified period, his/her/their tender will not be considered. He shall forthwith, upon and intimation being given to him of acceptance of his/her/their tender by the officer authorized, make security deposit (with GST) of 2% of the value of contract in one of the forms prescribed in TNPHC by taking into account of the amount of earnest money deposit (with GST) already deposited with the tender, it would be sufficient to pay the balance amount to make up the two percent

of the value of contract for the purpose of security deposit (with GST) which has to be remitted only in the shape of deposit by means of Demand Draft / Bankers Cheque from any one of the nationalized Bank / Scheduled Bank in favour of Executive Engineer concerned NSC/KVP should be pledged in favour of the respective Executive Engineers. The security deposit together with earnest money deposit and the deductions made at 5% of the value of each bill towards with held amount vide Clause 64-1 of General conditions to the contract, shall be retained as security for due fulfillment of contract such deposit shall no bear any interest.

- (ii). On receipt of written communication of acceptance of tender if the tenderer fails to pay the requisite security deposit (with GST) within the period specified in the written communication or backs out from the tender or withdraws his tender, the earnest money deposit (with GST) shall be forfeited.

If the contractor fails to carryout the contract, after paying the requisite deposits, then he will be liable for the excess expenditure, if any incurred to complete the work as contemplated in the General conditions to the contract.

- (iii). It shall be expressly understood by the tenderer, that on receipt of written communication of acceptance of tender from the accepting authority, there emerges a valid contract between the TNPHC and the tenderer for execution of the work without any separate written agreement. Hence for this purpose, the tender documents ie., tender notice, tender offered by the contractor, General conditions to the contract, special conditions to the contract, negotiation, correspondences, written communication of 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 necessary or expedient.

9. The tenderer shall examine closely the general conditions of the contract of Tamil Nadu Building Practice and also general conditions of contract contained therein and sign the copy of the Tamil Nadu Building Practice and its addenda volume in token such study before submitting his tender unit rates which shall be for finished work in site. He shall also carefully study the drawings and additional specifications and all the documents connected with the contract. The Tamil Nadu Building Practice and other documents connected with the contract such as specifications, plans, descriptive specification sheet regarding materials etc., can be seen at any time between 11.00 a.m. to 5.00 p.m. on office days in the office of the Superintending Engineer aforementioned.

- \* \* A copy of the set of contract documents can also be had on payment of Rs ..... (Refer annexure "R" Serial No.8) (Rupees ..... ) for each set and which will not be refunded on any account.

10. The tenderer's attention is directed to the requirements for materials under the clause "Materials and Workmanship" in the General conditions to contract. Materials conforming to the Indian Standard Specifications shall be used on the work and the tenderer shall quote his rates accordingly.

11. Every tenderer is expected, before quoting his rates to inspect the site of proposed work. He should also inspect quarries, and satisfy himself about the quality and availability of materials such as Bricks, Sand, M Sand (Crushed Stone Sand) & HBS jelly etc. The best class of materials shall be allowed to use on the work. In every case the materials must comply with the relevant standard specifications. Samples of materials called for in standard specifications, or in this tender notice or as required by the Executive Engineer in any case shall be submitted for the Executive Engineer's approval before the supply to the site of work is begun. Accordingly the tenderers are requested to quote their own workable rates. The Tamil Nadu Police Housing Corporation Limited will not however after acceptance of contract rate pay any extra charges for lead or for any other reasons in case the contractors is found later on to have misjudged the materials available. Attention of the contractor is direct to the General conditions of the contract regarding payment of seignior ages tolls etc. subject to price adjustment clause provided for in this tender schedule.

12. The Tenderer's particular attention is drawn to sections and clauses in the General Conditions of 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 progress and for delivery
6. Accidents
7. Delays and
8. Particulars of Payment

The contractor should closely persue all the specification clauses which govern the rate he is tendering.

13. A schedule of quantities accompanies this tender notice, it shall be definitely understood that the Executive Engineer, aforementioned does not accept any responsibility for the correctness or completeness of this schedule and that this schedule is liable to alterations, omission, deductions or additions at the discretion of the Executive Engineer, Tamil Nadu Police Housing Corporation or as set forth in the conditions of contract. The Tenderer will however base his lump- sum tender on this schedule of quantities. He should quote specific rates for each item in the schedule and the rate should be in Rupees and Paise.in two decimal only. The rates should be written both in words and figures and the units in words. The tenderer should also show the totals of each item and the grand total of the whole contract. The Schedule - A accompanying the lump-sum tender shall be written legibly and free from the erasures. Over-writings or conversions of figures corrections where unavoidable should be made by crossing out, initialing, dating and re-writing.

\*\* To be struck out if such copies are not to be issued for sale

14. Tenders offering a percentage deduction from or increase on the estimate amount and those not submitted in proper form or in due time will be rejected. Rates or Lump-sum amounts for the items not called for shall not be included in the tender. No alteration which is made by tenderer in the contract form, the conditions to Contract, the drawings ,specification, or quantities accompanying same will be recognised and if any such alterations are made the tender will be void.
15. The tenderer should work out his own rates without reference being made to the Tamil Nadu Police Housing Corporation Limited current schedule of rates or to the estimated rates which are not open for inspection to tenderers.
16. The attention of the tenderer is directed to the contract requirements as to the time of beginning work, the rate of progress and the dates for the completion of the whole work and its several parts. The following rate of progress and of proportionate value of work done from time to time as will be indicated by the Executive 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.

**Period of Contract - 03 months**

	<b>Period after date of commencement</b>	<b>Percentage of work completed (Based on Contract Lumpsum amount)</b>
Refer Annexure "R" Serial NO.09	1 <sup>st</sup> month	35% of whole work
	2 <sup>nd</sup> month	70% of whole work
	3 <sup>rd</sup> month	100% of whole work

Note: The periods to be entered in column for the purpose of defining the rate of Progress may be fixed by the Superintending Engineer / Executive Engineer to suit each case.

17. No parts of the contract shall be sublet without written permission of the Executive Engineer, nor shall transfer be made up power of attorney, authorising others to receive payment on the contractors behalf.
18. If further necessary information is required the "Superintending Engineer" of the Tamil Nadu Police Housing Corporation Limited will furnish, detail but it must be clearly understood that tenders must be received in order, and according to instructions.
19. The Superintending Engineer, or other sanctioning authority reserves the right to reject any tender or all the tenders without assigning any reasons therefore.
20. The tenderers who are themselves not professionally qualified shall undertake to employee qualified Technical men at their cost to look after work. The tenderer should therefore state in clear terms whether they are professionally qualified or whether they undertake to employ technical staff and if so give their professional qualifications of the staff to be employed. In case the selected tender is one who has undertaken to employ technical staff under him he should see that one of the staff is always at site of the work during working hours personally checking all items of work and paying extra attention to such works as may demand special attention eg., reinforced concrete works etc.
21. Tenderer submitting a tender which the tender accepting authority 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.
22. The fact of submitting the tender implies that the tenderer have actually inspected the site of works and have examined before tendering the nature and extent of various kinds of soil at various depths and have based their tenders on such examination by them and no future representation in this regard will be considered.



23. A statement giving particulars of equipment and resources that will be put at the disposal of the work under the following classification should accompany the tender.
  - (a) Equipment (Transport of materials Viz. lorries and carts, concrete mixers)
  - (b) Organisation (i) Technical (ii) Unskilled
  - (c) Resources in materials like teak wood, steel etc. and extent to which departmental help is not required for procurement of materials and transport of the same.
  - (d) Methods that will be adopted to speed up the work to ensure completion within or less than the time fixed for completion.
24. The Executive Engineer, reserves to himself the right of allotting the different sub-works to different contractors or one and the same contractor as he may decide after the receipt of tenders.
25. The contractors are liable to pay a penalty for non-employment of the technical staff as laid down in the conditions of employment of Technically qualified personnel.
26. The cost of materials if supplied by the department will be recovered from the bills or any other amounts due from the contractors.
27. Retention money deposit (RMD) (with GST) at 5% shall be recovered from each bill based on the value of work done by the contractors 50% of RMD (i.e., 2 1/2 %) received from the bills would be paid to the contractor along with final bill. The balance 50% (i.e., 2 1/2 %) of the total value of work will be retained on the final bill of the work for the period one year reckoned from the date of completion of work in order to enable the department to watch the effect of all seasons of the work. The contractor should furnish an indemnity bond for further period of four years. If any defects are notified in the above said period the defects should be rectified by the contractor at his own cost as directed by departmental officers and no extra payment to be made for the rectification of such work.
28. Action against the contractors who have participated in the earlier tenders but failed to execute the agreement on some pretext after receipt of the work order will be taken as per the G.O. in force.
29. No tenderer is permitted to withdraw his/their tender at any stage. If any tenderer withdraws his/her/their offer within the tender validity period his/her/their EMD/SD (with GST) shall be forfeited and his/her/ their name(s) will be noted for black listing in future
30. Only Contractor registered under appropriate Class with Tamil Nadu Police Housing Corporation/ PWD (with up- to-date renewal) alone are eligible to tender
31. The tender will be considered only after satisfactory production of the credentials by the intending tenderers such as previous performance, nature and value of work done and required valid Registration certificate, Income Tax, Solvency certificates etc.
32. The tenderer should be Registered with GST
33. The total value of a contract/service which exceeds Rs.2.50 lakhs 2% GST tax at Source will be deducted. (1% CGST & 1% SGST) as applicable from time to time in addition to 1% or 2% of TDS as per IT act.

**OFFICE OF THE SUPERINTENDING ENGINEER / SOUTH CIRCLE.,  
TAMIL NADU POLICE HOUSING CORPORATION LIMITED**

**TENDER**

Dated : .....

To  
The Superintending Engineer/SOUTH CIRCLE,  
Tamil Nadu Police Housing Corporation Ltd.,  
No:1 Inspector Quarters, New Natham Road,  
Madurai.

Sir,

I / We do hereby tender and if this tender be accepted, undertake to execute the following works.  
viz. (Refer Annexure "R" of Serial No.3)

As shown in the drawings and described in the specifications deposited in the Office of the Superintending Engineer, Tamil Nadu Police Housing Corporation Limited with such variations by way of alterations, additions to, and omissions from the said works and method of payment as are provided for in the conditions to contract for the sum of Rupees. ....(in words and figures)

or such other sum as may be arrived at under the clause of the General conditions to contract relating to "Payment on lump-sum basis or by final measurement at unit prices".

I / We have also completed the price list of items of Schedule "A" annexed (in words and figures) for which I/We agree to execute the work and receive payments on detailed final measurement at Unit Prices.

I/We hereby distinctly and expressly 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 Tamil Nadu Building Practice and the Preliminary Specifications therein and that I/We have made such examination of the contract documents and 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 done and in regard to the material required to be furnished as to enable me/us thoroughly to understand the intention of the same and the requirements, covenants, agreements, stipulations and restrictions contained in the contract, and in the said plans and specification and distinctly agree that I we will not hereafter make any claim or demand upon the Corporation based upon or arising out of any alleged misunderstanding or misconception, or mistake on my part of the said requirements, covenants, agreements, stipulations, restrictions and conditions.

I/We being a registered contractor enclose an income-tax verification / have/ already produced an income tax verification certificate in respect of (here particulars of the previous occasion on which the certificate was produced should be given.

I/We enclose herewith a challan for the payment of the sum of Rs. ....  
(Rupees ..... ) (in words and figures) an earnest money deposit (with GST) not to bear interest. 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 or at the expiry of 90 days/ from the date of this tender whichever is earlier. If my / our tender is accepted, the Earnest Money deposit (with GST) shall be retained by the Corporation as security for the due fulfillment of the contract. If upon written intimation to me/us by the Executive Engineer indicating that my/our presence is required for the purpose of enquiry. I/we fail to attend the said office before the end of Period specified on such intimation and if upon intimation being given to me / us by the Executive Engineer of acceptance of my/our tender. I/We fail to make the Security deposit / additional Security deposit (with GST) or to enter into the required agreement as defined in the tender notice, then I/We agree to the forfeiture of Earnest Money deposit (with GST). Any notice required to be served to me / us here under shall be sufficiently served on me / us if delivered to me / us personally or forwarded to me / us by post (registered or ordinary) or left at my / our address given herein such notice shall if send by post be deemed to have been served on me/us at the time when in due course of post it would be delivered at the address to which it is sent.

I/We fully understand that the written agreement to be entered into between me/us and the Corporation shall be the foundation of the rights of both the parties and the contract shall not be deemed to complete under the agreement has first been signed by me / us and then by the proper officer authorised to enter into contracts on behalf of the Corporation.

I am/we are professionally qualified and my / our qualification are given below.

Sl.No.	Name	Qualification	Experience
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#### Contractor

I/We will employ the following technical staff for the supervising the work and will see that one of them is always at site during working hours personally checking all item of works and paying extra attention to such works as require special attention (e.g.) Reinforced Concrete work.

Name of members of technical staff Proposed to be employed	Qualification	Experience (In Year)
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- Note:
- (a) The last two clauses should be Scored out if the cost of the work involved in less than Rs. 10,000/-
  - (b) The tenderer should score out the last clause or the penultimate according as they are themselves professionally qualified or undertake to employ technical staff under them.

#### RATE OF PROGRESS

(Fill in from tender notice)

Period after the Commencement of	Percentage of work to be Completed on the whole work
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**TAMIL NADU POLICE HOUSING CORPORATION LIMITED**

No.1, INSPECTOR QUARTERS, TSP 6 TH BATTALION CAMPUS,  
NEW NATHAM ROAD,MADURAI – 625014.

**Schedule 'A'**

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- A. The quantities given here are those upon which the lumpsum tender cost of the work is based, but they are subject to alterations, omissions, deductions or additions are provided for in the conditions of this contract and do not necessarily show the actual quantities of work to be done. The unit rates excluding GST amount quoted are those governing payments for extras or deductions or omissions according to the conditions of the contract asset forth in the general conditions of the contract of the Tamil Nadu Building practice and other conditions or specifications of this contract.
- B. It is to be expressly understood that the measured work is to be taken net (not withstanding any custom of practice to the contrary) according to the actual quantities when in place and finished according to the drawing or as may be ordered from time to time by the Chief Engineer 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 excluding GST amount are for works in situ and complete in every respect.
- C. Unavoidable delays may entail in rate instances, for delays beyond 3 months after execution of agreement, offer may be with drawn/cancelled, validity shall be however optional subject to mutual consent by the contractor and TNPHC at agreed rates without extras.
- D. As a result of continuous improvements contemplated by the TNPHC in layouts/type design, substantial variations might occur in one more items. The tenderer will be expected to adopt such modifications whenever necessitated and ordered for.
- E. If rarely owning to non availability of vacant lands in the site mentioned in the notification change of site either partly or wholly is warranted, the tenderer shall accept to execute work accordingly as may be necessitated and ordered for at agreed rates or derived rates.



Item. No	Probable Quantity	Description of Work	TNBP No	Rate in Figures And words	Unit in Figures and words	Amount
1.5		<b>Earth work excavation for Open Foundation</b> in all soils and sub-soils to the required depth as may be directed except in hard rock requiring blasting, inclusive of shoring, strutting and bailing out water wherever necessary (Excluding refilling the sides of foundation) and depositing the earth in places shown clearing and levelling the site with an initial lead of 10 metres and lift as specified hereunder etc., complete in all respects complying with relevant Standard specifications. <b>(Excluding Refilling)</b>  <b>a) 0 to 2m depth.</b>	17 & 20		1 m <sup>3</sup> (One Cubic Metre)	
2.6		<b>Supplying and filling with 40mm size hard broken stone jelly in dispersion trench</b> and other similar works including cost of materials, labour charges, etc., all complete and as directed by the departmental officers.			1 m <sup>3</sup> (One Cubic Metre)	
2.7		<b>Supplying and filling with 20mm size hard broken stone jelly in dispersion trench</b> and other similar works including cost of materials, labour charges etc., all complete and as directed by the departmental officers.			1 m <sup>3</sup> (One Cubic Metre)	
13.1		<b>Filling in foundation and basement</b> and other similar works <b>with Excavated earth</b> in layers of 150mm thick well watered rammed and consolidated complying with relevant standard specification etc., all complete and as directed by the departmental officers.	25		1 m <sup>3</sup> (One Cubic Metre)	



Item. No	Probable Quantity	Description of Work	TNBP No	Rate in Figures And words	Unit in Figures and words	Amount
61.1		<p>Supplying and laying and jointing the following dia <b>stone ware pipes</b> with ISI mark Superior variety (glazed) with spigot and socket ends in dry conditions and tested with water, including necessary earth work excavation for trenches and refilling the same, well rammed and consolidated after the pipes are jointed with cement mortar 1:1 and tarred yarn laid to proper gradient to the alignment and as directed by the departmental officers (SW pipes should be got approved by the Executive Engineer before laying)</p> <p><b>b) 150mm dia SW pipe</b></p>			1 RMT (One Running Metre)	
238		<p><b><i>Electrical Arrangements:</i></b></p> <p>Applying <b>one coat of anticorrosive treatment on steel reinforcement rods</b> (20 ltrs. of anticorrosive chemical for one metric tonne of steel reinforcement rods) at site including cost of required quantity of anticorrosive chemicals, (best approved quality) cement, consumables such as brushes, gloves and labour for anticorrosive coating etc. complete and as directed by the departmental Officers. (The quality and brand of anticorrosive chemical should be got approved by the EE before use).</p>			1 MT (One metric Tonne)	



Item. No	Probable Quantity	Description of Work	TNBP No	Rate in Figures And words	Unit in Figures and words	Amount
		<b>ANNEXURE TO SCHEDULE - A</b>				
2.1.3		<b>Supplying and filling in Dispersion trench and similar nature of work with filling Crushed stone sand</b> in layers of 150 mm thickness well watered, rammed and consolidated complying with relevant standard specification including cost of supplying filling <b>Crushed stone sand</b> .			1 m <sup>3</sup> (One Cubic Metre)	
3.1.1		<b>Plain cement concrete 1:5:10</b> (One of cement, five of <b>crushed stone sand</b> and ten of hard broken stone Jelly) for <b>foundation</b> and basement using 40mm gauge hard broken stone jelly inclusive of shoring, strutting and bailing out water wherever necessary ramming, curing etc., complete in all respects complying with relevant standard specifications and as directed by the Departmental officers.			1 m <sup>3</sup> (One Cubic Metre)	
3.2.1		<b>Plain cement concrete 1:2:4</b> (One of cement two of <b>crushed stone sand</b> and four of hard broken stone jelly) using 20mm gauge hard broken stone jelly excluding shuttering and centering but including laying, curing and finishing with relevant standard specifications in <b>foundation and basement</b> , and other similar works & as directed by the departmental officers.			1 m <sup>3</sup> (One Cubic Metre)	
3.10.1		<b>Plain cement concrete 1:3:6</b> (one of cement, three of <b>crushed stone sand</b> and six of hard broken stone jelly) for foundation using 20mm gauge hard broken stone jelly and other similar works using 20mm gauge hard broken stone jelly excluding the cost and fabrication of reinforcement grills, shuttering, centering and vibrating but including laying, curing, finishing etc., complete in all respects complying with relevant standard specifications and as directed by the departmental officers.			1 m <sup>3</sup> (One Cubic Metre)	



Item. No	Probable Quantity	Description of Work	TNBP No	Rate in Figures And words	Unit in Figures and words	Amount
4.5.1		<p>Providing and laying in position, <b>Standardised Concrete Mix M-30 Grade</b> in accordance with IS: 456 - 2000 Using 20 mm and downgraded hard broken stone jelly for all RCC items of works namely plinth beams, columns, tie beams, column footings, slab etc., with minimum Cement Content of 400 kg/m<sup>3</sup> and maximum water Cement ratio of 0.45, including admixture (Plasticiser/Super Plasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of Concrete, improve workability without impairing strength and durability with about (5.0 cu.m) 7730 Kg. of 20 mm machine crushed stone jelly and with about (3.3 cu.m.) 5156 Kg. of 10 -12 mm machine crushed stone jelly and with about (4.79 Cu.m) 7670 Kg. of <b>Crushed stone sand</b> for making 10m<sup>3</sup> concrete but excluding Cost of reinforcement grill and fabricating charges, Centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing etc., complete complying with standard specification and as directed by the departmental officers. The coarse and fine aggregates to be used should comply with the requirements of IS Standards. (No separate payment will be made by the Department for the excess usage of materials)</p> <p><b>a. In Foundation and basement</b></p>			1 m <sup>3</sup> (One Cubic Metre)	
6.7.1		<p><b>Brick work in C.M 1:5</b> (One of cement and five of crushed stone sand) <b>using fly ash bricks of size 23x11x7cm in foundation and basement</b> including dewatering wherever necessary proper setting, curing etc., complete with relevant standard specifications.</p>			1 m <sup>3</sup> (One Cubic Metre)	





Item. No	Probable Quantity	Description of Work	TNBP No	Rate in Figures And words	Unit in Figures and words	Amount
14.2.1		<p>Supplying and fixing of precast cement concrete slab for cupboard/ward robes shelves, cover slab for chambers, baffle walls side slabs of boxing around windows and other similar works in <b>standardised concrete mix M-30 grade</b> in accordance with IS: 456 - 2000 using 3mm - 10mm hard broken stone jelly for the above RCC items of works excluding the cost and fabrication of reinforcement grills but including precasting, moulding, curing, finishing and fixing in position complying with relevant standard specifications etc., complete in the following floors (Measurement will be taken including bearing in wall also).  <b>40MM THICK</b></p> <p><b>a. In Foundation and basement</b></p>			1 m <sup>2</sup> (One Square Metre)	
18.1		<p>Providing <b>Form work</b> and centering for reinforced cement concrete works including supports and strutting up to 3.30m height for plane surfaces as detailed below with all cross bracings using mild steel sheets of size 90cmx60cm and MS 10 gauge stiffened with welded mild steel angles of size 25mmx25mmx3mm for boarding laid over silver oak or country wood joists of size 10cmx6.5cm spaced at about 90cm centre to centre and supported by casurina props 10cm to 13cm dia spaced at 75cm intervals and removing the same after a specified period without damaging the R.C.C works etc., complete complying with standard specifications and as directed by the departmental officers.</p> <p><b>a) For Column footings, plinth beam, Grade beam, Raft beam, Raft slab etc.,</b></p> <p><b>b) Plain surfaces such as Roof slab, floor slab, Beams, lintels, lofts, sill slab, staircase waist, portico slab and other similar works</b></p> <p><b>d) For Vertical wall</b></p>			<p>1 m<sup>2</sup> (One Square Metre)</p> <p>1 m<sup>2</sup> (One Square Metre)</p> <p>1 m<sup>2</sup> (One Square Metre)</p>	



Item. No	Probable Quantity	Description of Work	TNBP No	Rate in Figures And words	Unit in Figures and words	Amount
28.1		<b>Plastering the top of flooring in cm 1:4</b> (One of cement and four of <b>crushed stone sand</b> ) <b>20mm thick</b> including surface rendered smooth including providing proper slopes, thread lining, curing and 150mm wide skirting around with the same cement mortar etc., complete in all respects.			1 m <sup>2</sup> (One Square Metre)	
33.1		<b>Plastering with cm 1:5</b> (One of cement and five of <b>crushed stone sand</b> ) <b>12mm thick</b> finished with neat cement including providing band cornice, ceiling cornice, curing, scaffolding etc., complete in all respects and complying with relevant standard specifications.			1 m <sup>2</sup> (One Square Metre)	
34.1		<b>Plastering with CM 1:4</b> (one of cement and four of <b>crushed stone sand</b> ) <b>12mm thick</b> finished with neat cement including providing band cornice, ceiling cornice, curing, scaffolding etc., complete in all respects and complying with standard specifications.			1 m <sup>2</sup> (One Square Metre)	
43.1.1		Supplying, fabricating and placing in position of <b>Mild steel grills/ribbed tor steels (without cement slurry)</b> of all diameters for reinforcement for all floors including cost of binding wire, insulated with pvc, bending, tying etc., all complete and as directed by the departmental officers.			1 MT (One Metric Tonne)	
58.5		Supplying and fixing the following dia PVC(SWR) pipe with ISI mark confirming to IS 13952:1992- type 'A' with PVC <b>cowl</b> and relevant specials confirming to IS 14735 including jointing with seal ring confirming to IS 5382 with leaving a gap 10mm to allow thermal expansion and fixing the pipes into walls or over the septic tank with necessary wooden plug, screws, holding wherever necessary and making good of the dismantled portion with necessary connections to sanitary fittings etc., complete in all respects and as directed by the departmental officers. <b>a) 110mm dia PVC SWR pipe of 3metre with required PVC cowl &amp; PVC specials etc., all complete.</b>			1 No. (Each)	

**TAMIL NADU POLICE HOUSING CORPORATION LTD.,**

No.1, Inspector Quarters, TSP 6th Battalion Campus, New Natham Road, Madurai – 625 014.

**Schedule ‘B’**

**Name of work:** Providing Upflow filter Septic tank for A,B,C,D,E, F,G and H Block for the work of Construction of 236 Nos. of PC/HC quarters for TSP XII Battalion at **SAKKARAKOTTAI VILLAGE** in Ramanathapuram District (Group-I)

<b>Sl. No.</b>	<b>Drawing No.</b>	<b>Description</b>	<b>Remarks</b>
1.		Lay out	Note: (i) All drawings to be signed by the contractor as well as the officer entering contract.
2.		Building Plan	

**CONTRACTOR**

**NO. OF CORRECTIONS**

**SUPERINTENDING ENGINEER/SOUTH CIRCLE.**

## **Schedule 'C'**

### **Additional Specifications**

1. The Contractor shall make his own arrangements for clean, fresh water for use on the work and shall meet all charges therefore.
2. All iron work or steel work of every kind, except such as is to be embedded in cement concrete shall immediately on arrival at the site be properly scrapped and wire brushed and given a priming coat of redlead paint without claim for extra.
3. The Teak Wood shall be of best Indian Wood only and the country wood shall be species like Pillamarudu or Kariamarudhu or its equalent shall be subject to inspection and approval by the Executive Engineer before use on work.
4. Holes and chasis for electric wiring, water supply, drainage etc., shall be provided as directed during the progress of work without claiming any extra charges.
5. All external corners, edges of beams, edges of door and window openings etc., shall be finished with chamber and also truly vertical or horizontal as the case may be. The rate of plastering shall include the cost of finishing as above. No extra for finishing the corners, edges etc., will be paid.
6. The arrangements for Steel rods for reinforcement for each RCC work shall be in accordance with the working drawings supplied.
7. The planks for form work and centering for RCC work shall be of well seasoned timber approved by the Executive Engineer according to sub clause 10 of T.N.B.P. No. 30. They must be made smooth and perfectly level at top so as to give a smooth and even finish to the R.C.C. Ceiling. Alternatively, the contractor may use steel sheets over wooden frame provided, the required finish to the underside of the slabs is obtained. Mango planks shall not be used under any circumstances. Centering and form works shall be provided to the extent and area ordered by the Executive Engineer during the execution. Finishing shall be done as per sub-clause 15 of TNBP No. 30.
8. All cement concrete for RCC works shall be machine mixed and vibrated.
9. All lime mortar shall be grinded in a mortar mill as per TNBP.
10. The rates for brick work in all the floors includes the labour charges for fixing the frames of doors and windows and fixing G.I. pipes outlets for windows as per sub-clause 14 of TNBP No.31.
11. The rate for plastering includes providing cornice, band cornice, ceiling cornice and skirting wherever necessary as directed by the Department officers.
12. It is not obligatory to supply any materials (Controlled or non-controlled) required for the constructions. The contractor is expected to make his own arrangements. The quality of these materials should confirm with the specification given in ISI. Ordinary Portland Cement 43 Grade grey colour SRC if necessary based on site condition (without any extra cost) confirming to IS Specification should be used. Steel rods should also confirming to ISI.
13. Steel rods should be cut and placed as reinforcement with proper anchorage to the available rods at site so as to ensure the minimum wastage possible.
14. The cement brought by the contractor for use should carefully stacked in approved stores and on works as and when required the proper care so as to ensure the minimum wastage possible.
15. All the dismantled work should be made good plastered and cement painted to match the original surface.
16. For all RCC works the rate shall include the treatment of bearings as per plan of TNBP. No extra payment will be made.

17. If the rates are not separately called for, similar items of works in different floors, the contractor should quote, one rate applicable for all the floors indicated in the detailed plans, any claims for extra rates for such items floor wise will not be entertained under any circumstances.
18. The contractor should not employ the labour below the age of adults.
19. If night work required to fulfill the agreed rates of progress, all arrangement shall be made by the contractor inclusive of lighting without any claim for extra rate.
20. Rates :- The tenderer shall quote their rates for the finished item of work only as given in the schedule it shall be clearly understood that no increase in the rates tendered for will be permissible on any account after the tenders are accepted.
21. **The tenderer should fill up the Amount for each item in the Amount column as well as total amount in the coding sheet without fail.**
22. The rate for all the items shall be quoted for in the metric units.
23. The tenderer shall examine closely the General conditions of contract of the Tamil Nadu Building practice and sign the copy kept in the office into taken of such study before submitting his tender. Unit rates which shall be for finished work in site.
24. The electrical works should be executed by a person or firm holding 'A' grade or 'B' grade license issued by Licensing Board / Government of Tamil Nadu.
25. Once the offer of the tenderer is accepted by the TNPHC, if either the tenderers choose to withdraw this tender or for any reason refused to execute the agreement and comply with the terms of the tender and agreement, the amount deposited by the tenderer towards the EMD / SD and A.S.D.(with GST) shall be forfeited and tenderer shall not be entitled to refund the same.
26. The contractor should take risk insurance against fire, other usual risk for all or any loss or damages occasioned by or arising out of acts of God, and in particular unprecedented flood, volcanic eruption, earthquake or other convulsion of nature, invasion, the act of foreign enemies, hostilities or warlike operations (before or after declaration of war) rebellion, military or usurped power, such policy should cover the construction period against the risk by the construction at his / their own cost and produce to the concerned Executive Engineer / Superintending Engineer within one month from the date of execution of the agreement failing which the TNPHC shall be entitled to take out whatever policy as may be required to cover those eventualities and to effect recovery towards the cost of such policies from the contractor's payments with a penalty of 50% on the cost of such policies.
27. Water closet, basins, urinals, sinks and other sanitary ware shall be of approved make as required in the relevant items. The fixing of these should be in accordance with the special specifications after the completion of the work.
28. The clamps of G.I. pipes fittings should not be spaced more than 6' part from the wooden plug for pipe and bracket fittings should be properly fixed in C.M1:3 in holes made in and not hammered into the walls. The size of plugs should be not less than 1"sq. at this end and at the other end with the depth of not less than 3".
29. The contractor should procure approved quality of paint only in containers. The above container should be used in the present of the Assistant Executive Engineer and got approved before use. On any account paint in other than original container will not be allowed for use.
30. Recovery under Revenue recovery Act: Whenever any amount has to be paid by the contractor in lieu of termination of the contract by virtue of clause 57.4 (TNBP) for any amount that may be due or may become due from the contractor under the present and the contractor is not responding to the demand for the payments of the said amount, then the TNPHC Ltd. shall be entitled to recover the said amount under the provisions of the Tamil Nadu Revenue Recovery
31. Any extension of time may not be granted by the authority unless the delay is caused by the Department.

32. The contractor is bound by all the condition of clauses of standard General condition of contract as amended time to time if is the course the contract, any G.O. is issued introducing new condition or clauses (for PWD / Other department), Supplemental Agreement must be executed by the contractor for implementing the condition.
33. In the event of the work transferred to any other unit Division the Executive Engineer / Assistant Executive Engineer who is incharge of the units / Divisions / Sub Division having jurisdiction over the above shall be competent authority to exercise all the powers and privilege of TNPWC and to act on behalf of TNPWC.
34. The contractor shall form his own approach road to the work sites for which no extra will be paid to him. On completion of work the contractor shall not be permitted to remove the materials laid for the formation of road. If the contractor is allowed to use the existing roads, he shall maintain them in good condition at his own cost throughout the period of contract.
35. The work should be executed in accordance with the circular instruction of the Chief Engineer issued from time to time. Copy of the circular instruction can be perused in the department office during office hours.
36. During the course of contract period deductions of Income Tax shall be made as per the provisions of the Income Tax Act amended from time to time as applicable.
37. Royalty / seigniorage charges due for use of any quarry land shall be paid by the contractor.
38. The contractor should be responsible for the safe custody storage of materials under dry conditions at the place of work spot approved by the Executive Engineer.
39. The contractor should abide by the contractor's labour regulation of PWD framed by Tamil Nadu.
40. Impounding minimum 10 cm of water over roofs for 48 hours before laying the weathering course and pressed tiles to check the water tightness.
41. Xerox copy of the certificate for the technical personnels to be enclosed along with the tender.
42. Action against the contractors who have participated in the earlier tenders but failed to execute the agreement on some pretext after receipt of the work order will be taken as per the G.O in force.
43. No tender is permitted to withdraw his / her / their at any stage. If any tender withdraws his/ her/ their offer with in the tender validity period his / her / their EMD/ SD (with GST) shall be forfeited and his / her / their name will become noted for blacklisting in future.
44. Only contractors registered noted appropriate class with Tamil Nadu Police Housing Corporation Limited and PWD (With up to date renewal) alone are eligible to tender.
45. The contractor should have satisfactorily executed building works / related works most preferable. List of completed and ongoing works in TNPWC and other Government department should be furnished by the tenderers along with tender
46. The tenderer should be registered with GST
47. The total value of a contract / service which exceeds Rs.2.50 Lakhs, 2% GST Tax at source will be deducted. (1% CGST & 1% SGST) as applicable from time to time in addition to 1% or 2% of TDS as per IT act

## **Schedule 'D'**

Applicable to all cases of work where a minimum of fifty workers are employed except works relating to roads, Channels and Canals.

### **For the provision of health and sanitary arrangements for workers:**

The contractor's special attention is invited to clauses to the General conditions of contract of Tamil Nadu Building Practice and he is requested to provide at his own expense the following amenities to the satisfaction of the Chief Engineer.

#### **1. First Aid:**

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

#### **2. Drinking Water:**

- a. Water of good quality fit for drinking purposes shall be provided for the work people on a scale of not less than 15 litres 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 storage shall be at a distance of not less than 15 metres from any latrine drain or other source of Pollution. Where water has to be drawn from an existing well which is within such proximity of latrine, drain or any other source of pollution the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed and to be provided with a trap door which shall be dust and water proof.
- d. A reliable pump shall be fitted each covered well, the trap door shall be kept locked and opened only for cleaning or inspection which shall be done at least once a month.

#### **3. Latrines and Urinals:**

There shall be provided within the precincts of every work place latrines and urinals in an accessible place and the accommodation separately for each of them, shall be on the following scale or on the same as directed by the Executive Engineer in any particular case.

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

If women are employed separate latrines and urinals screened from those for men shall be provided on the same scale.

Except in work places provided with water flushed latrines connected with a water store sewage system all latrines shall be provided with receptacle on dry earth system which shall be cleaned at least four times daily and at least twice during working hours and kept in a strictly sanitary conditions. The receptance shall be tarred inside and outside at least once a year.

#### 4. **Washing and Bathing places:**

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

The excreta from the latrines shall be disposed off at the contractor's expense to the out way pits approved by the local public health authority. The contractor shall also employ adequate number of scavengers and conservancy staff to keep the latrines and urinals in a clean condition.

#### 5. **Sheds During Rest:**

At the work site there shall be provided free of cost two suitable sheds one for male and the other for female for rest fit for the use of labourers.

6. At every work place at which 50 or more women workers are ordinarily employed there shall be provided two huts of suitable size for the use of children under age of 6 years belonging to such women. One hut shall be used for infants games and play and the other as their shed room. The huts shall not be constructed on a lower standard than following.

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

The use of the huts shall be restricted to children, their attendants and mothers of the children.

#### 7. **Canteen:**

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

#### 8. **Shed for Women:**

The contractor should provide at his expense shed for housing his workman. The shed shall be on a standard not less than the cheap shelter type to live in which the work people in the locality are accustomed to. A foot area of about 6'x5' for 2 persons shall be provided. The sheds are to be in rows with five feet clear space between roads if conditions could permit. The work people shall be laid out in units of 400 persons each. Each unit to have a clear space of 12m around.



**TAMIL NADU POLICE HOUSING CORPORATION LTD.,**  
MADURAI – 625 014

**Schedule 'E'**

Statement showing furniture fittings for doors, windows & Ventilators.

Name of Work : (Refer Annexure "R" Serial No:3)

Sl. No.	Description	Door		Glazed wooden window Per bay for 135/120/105 cm overall height	Swing type Ventilator wooden (0.90x0.60m/ 0.75x0.75m)	Remarks
		Single various sizes	Double various sizes			
1.	Aluminium butt hinges 125mm with <b>brass screws</b>	3 Nos.	6 Nos.	-	-	All the fittings should have ISI mark except Nylon Bush.
2.	Aluminium butt hinges 100mm with <b>brass screws</b>	-		-	-	-do-
3.	Aluminium butt hinges 75mm with <b>brass screws</b>	-		3 Nos.	-	-do-
4.	Aluminium Tower Bolt with <b>brass Screws</b> 150 × 12mm	2 Nos.	4 Nos.	-	-	-do-
5.	Aluminium aldop with bolts and nuts <b>brass screws</b> 250 × 16mm	1 No.	1 No.	-	-	-
6.	50 × 8mm aluminium Tower Bolt with <b>brass Screws</b>	-		2 Nos.	-	-do-
7.	a) Aluminium door handles 150mm with flat section with <b>brass screws</b>	1 No.	2 Nos.	-	-	-do-
8.	Nylon bush with <b>brass screws</b>	1 No.	2 Nos.	1 No.	-	-do-
9.	Hooks and Eyes 3" (Aluminium)	-		-	1 No.	-do-
	Hooks and Eyes 6" (Aluminium)	-		1 No.	-	-do-
	Hooks and Eyes 8" (Aluminium)	-		-	1 No.	-do-
10.	Ventilators pivoted hinges with screws	-		-	2 pairs	-do-
11.	Door Stopper	1 No.	2 Nos.	-	-	-do-

\*(Not applicable for PVC Door & UPVC Window & Ventilators)

**TAMIL NADU POLICE HOUSING CORPORATION LTD.,****ADDITIONAL CONDITIONS OF TENDER AND AGREEMENT**

1. Once the offer of the tender is accepted by the Corporation, if either the tenderer chooses to withdraw his tender or any reason refused to execute the agreement and comply with the terms of the tender and agreement the amount deposited by the tenderer towards EMD/SD and ASD (with GST) shall be forfeited and the tenderer shall not be entitled for the refund for the same.
2. The contractor / contractors shall take risk insurance at his/her/their own cost against losses due to floods and other acts of God. No claim from the Contractor shall be entertained by the department for such losses.
3. i) Earnest Money Deposit (with GST) : 1% (one) upto Rs. 20.00 lakhs of estimate value plus 1/2% (half) of the amount by which the estimated value exceeds Rs. 20.00 lakhs.
- ii) Security Deposit (with GST) : Will be 2% (two) of the contract value minus the E.M.D (with GST) already remitted along with the tender
- iii) Retention Money Deposit (with GST) : At 5% (five) shall be recovered from the each bill based on the value of work done by the contractors.
4. (a) 50% of retention money deposit (with GST )amount recovered from the bills would be paid to the contractor along with final bill .
- (b) The E.M.D., SD and A.S.D. (with GST) shall be released only after the expiry of six months from the date of completion of work.
- (c) Balance 50 % of RMD (with GST) will be released after expiry of one year from the date of completion of work for which the contractor has to give a written under taking in the form of an indemnity bond for further period of 4 years ( AS per GO MS NO.283 public works (G2) Dept dated:21.05.1999
5. The total value of a contract/service which exceeds Rs.2.50 lakhs 2% GST tax at Source will be deducted. (1% CGST & 1% SGST) as applicable from time to time in addition to 1% or 2% of TDS as per IT act.
6. In the case disputes for claims upto Rs.50,000/- the Chief Engineer, Tamil Nadu Police Housing Corporation Limited shall be final deciding authority. In case of claims exceeds Rs.50,000/- it should be referred to court of law in Tamil Nadu
7. If the contractor quotes unworkable rates in the tender, special additional security deposit will be levied at the discretion of the Chief Engineer, Tamil Nadu Police Housing Corporation apart from usual deposits.
8. The contractors / tenderers who are covered under the Employees Provident fund and Miscellaneous Provision Act 1952 shall produce the Code No. (Regn.No) of their establishment. If the contractors are not covered under the above said Act, they shall furnish a declaration to that fact.  
It is obligatory on the part of the contract to recover the Employees Provident Fund Subscription from the Employees who work under them/him/her and remit to the Regional Provident Fund Commissioner
9. Further, if any modifications or amendments are issued by the concerned department / Government from time to time, the same is applicable as and when such orders are issued. The contractors should be aware of the rules stipulated on this by the concerned department / Government.
10. All the dismantled work should be made good to match the original surface

11. The contractor shall make use of kiln burnt ground moulded country bricks/stock bricks of clear designation so having average compressive strength of 35 kg/cm<sup>2</sup> for country bricks and 50 kg/cm<sup>2</sup> for chamber Burnt/stock bricks and 100 Kg/cm<sup>2</sup> for fly ash bricks.
12. The testing shall be done by the contractor at their own cost of the materials such as cement, sand, M Sand (Crushed Stone Sand) bricks, steel, pressed tiles, water, etc., & the finished products like concrete cubes. Every consignment of cement steel supply should be tested for quality at contractors own cost.
13. **On evaluation of tender, if it is found that if the overall quoted amount of the tender is less than 5 to 15% of the value put to tender, the contractor shall pay an additional security deposit at 2% of the estimate value put to tender. If the tender discount exceeds 15% the contractor shall pay an additional security deposit of 50% of the difference between the quoted amount and estimate amount by means of Demand Draft / Pay Order / Banker's Cheque from any one of the Nationalized Bank / Scheduled bank in favour of the Executive Engineer concerned / NSC / KVP should be pledged in favour of the respective the Executive Engineers. Failure to furnish the additional security deposit within 15 days from the date of receipt of acceptance order and execute the agreement shall entail cancellation of award contractor with forfeiture of EMD furnished.**
14. The contractor shall make their own arrangements for the leveling instruments at site of work.
15. The tenderer / contractor will make his/her/their own arrangements to procure and use ISI brand Cement and ISI Brand Steel required for the work.
16. It should be clearly understood that the rate quoted by the tenderer / contractor is inclusive of the cost of 43 grade ordinary Portland cement / SRC and steel and other incidental charges such as conveyance, loading, unloading, stacking at site and testing charges etc. complete.
17. The tenderer / contractors will produce test certificate obtained from any one of the Government institutions for cement and steel brought to site. As and when required by the department the cement and steel brought to the site shall be tested by the department from any one of the approved Government institutions and only when the test results confirm to the ISI specifications they will be allowed to be used in the works.
18. The tender shall be valid for a period of 90 days from the last date for receipt of tenders.
19. Every tenderer is expected, before quoting his rates to inspect the site of proposed work. He should also inspect quarries, and satisfy himself about the quality and availability of materials such as Bricks, Sand, M Sand (Crushed stone sand) & HBS jelly etc. The best class of materials shall be allowed to use on the work. In every case the materials must comply with the relevant standard specifications. Samples of materials called for in standard specifications, or in this tender notice or as required by the Executive Engineer in any case shall be submitted for the Executive Engineer's approval before the supply to the site of works is began. Accordingly the tenderers are requested to quote there own workable rates.  
  
The Tamil Nadu Police Housing Corporation Limited will not however after acceptance of contract rate pay any extra charges for lead or for any other reasons in case the contractors is found later on to have misjudged the materials available. Attention of the contractor is direct to the General conditions of the contract regarding payment of seignior ages tolls etc. subject to price adjustment clause provided for in this tender schedule.
20. The best class and renowned brand of approved quality of materials shall be allowed to use in the works. The samples of materials to be supplied / required (i.e. Cement, Sand, M.Sand (Crushed Stone Sand), Bricks, Fly ash bricks, Steel, HBS jelly, Electrical, Water supply, Sanitary items, Paints, Furniture fittings etc.,) for the work shall be got approved from the Chief Engineer / Superintending Engineer / Executive Engineer of concerned before delivery made.
21. Tenderers representative participating in tender opening should produce the authentication letter from the tenderer on the date and time of opening of tender.
22. Tenders from joint ventures will not be considered.

23. All Xerox copies of the documents enclosed with tender as evidence or in support of the experience or of any kind should be duly attested from the notary public / Gazatted officer.
24. Telegraphic tenders will not be accepted
25. Revenue solvency issued by the Tahsildar with upto date EC should be enclosed. The details of Survey number, area etc., of the property mentioned in the solvency certificate and Encumbrance certificate should be tallied. If any discrepancies, the same will not be considered. Encumbrance certificate should be obtained from the date of solvency certificate issued by the Tahsildar, on or after the date of issue of tender notice of the respective works. EC should be free from Encumbrance. If EC is obtained from the Government website, the same also be considered.
26. Current Income tax certificate (2020-2021 / 2021-2022) should be furnished.
27. The tenderer should furnish the Experience certificate with the details of Name of work, Name of contractor, Date of Commencement of Work, Due date of Completion, Actual date of Completion, Actual Completion Cost, Fine imposed if any and reason for delayed completion of work with extension of time details.
28. **The Private experience should be supported along with TDS statement (ie Form 16A & Form 26AS) In case, the contractors who have executed works in TNPSC Ltd., the satisfactory performance certificate in the prescribed format from the Superintending Engineer concerned of TNPSC Ltd., should be furnished Credentials of the tenderer(s) for the works executed by him /them in the past 5 years supported by certificates issued by the authority not lower than the rank of Superintending Engineer should be furnished. The date of completion of the works stated in the experience certificate should be within the past 5 years prior to the date of tender.**
29. **Insurance :**  
  
The contractor should insure the construction workers employed by them for an amount fixed by the respective department / State Government / Central Government / Honorable Court of law with modification and amendments if issued from time to time at the own cost of the contractor.
30. **Condition for Engaging the migrated Interstate workers in the Construction work site by the contractors in the construction work site.**
  - a) The contractor should take the labour insurance for the construction workers employed by them as per the statutory Government norms.
  - b) The contractor should have the labour license while engaging more than 20 Labours
  - c) The contractor should also have all the details of labours engaged by them like Aadhar Card, Photos etc., and the same should be handed over to the local Police Station to avoid the difficulties and problem facing the unpleasant issued in the site like group clash among the construction workers / life loss / any leagal problem rising with the labours.
  - d) The contractor should engage the watch and ward during the night time in the construction work site without fail so as to maintain the safety of the labours.

## **SPECIAL CONDITIONS FOR SENDING THE CEMENT CONCRETE CUBES FOR TESTING**

The contractor should make arrangements for getting mould to the site for casting of cubes for testing of concrete strength.

1. **Mould** : The concrete mould' should be as per IS Specification (IS-516-1959) the details of which are as follows:

The mould shall be of metal, preferably steel or cast iron, and stout enough to prevent distortion. It shall be constructed in such a manner as to facilitate the removal of the moulded specimen without damage and shall be so machined that when it is assembled ready for use, the dimensions and internal faces shall be accurate within following limits.

The height of the mould and the distance between opposite faces shall be the specified size  $\pm 0.2\text{mm}$ . The angle between adjacent internal faces and top and bottom planes of the mould shall be  $90^\circ \pm 0.50^\circ$ . The interior faces of the mould shall be plane surface with a permissible variation of 0.03 mm. Each mould shall be provided with a metal base plate having a plane surface and to support the mould during the filling without leakage and it shall be preferably attached to the mould by springs for screws.

The interior surfaces of the mould shall be thinly coated with mould oil to prevent adhesion of the concrete.

2. **Compacting** : The concrete shall be filled into the mould in layers approximately 5 cm deep. Each layer shall be compacted either by hand or by vibration as described below (as per ISI)

When compacting by hand, the standard tamping bar shall be used and the strokes of the bar shall be distributed in a uniform manner over the cross section of the mould as prescribed in I.S.I. and for cubical specimen in no case, shall be concrete be subjected to less than 35 strokes per layer for 15 cm cubes (as per I.S.I.)

When compacting by vibration each layer shall be vibrated by means of an electric or pneumatic hammer or vibrator (as per I.S.I.)

3. The concrete cubes shall be cured for 28 days and send on 29<sup>th</sup> day. If the day falls on a holiday the cubes shall be sent on the next working day.
4. All the charges connected with the cube testing etc. shall be borne the contractor.

**Quality Plan for Material, Testing (Revision -4)  
Laboratory Tests for Building Materials**

Procedure for Quality Plan for Material Testing					Doc. No	OC/QP/01
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SL.No	Material to be Tested	Sampling	Name of test	Permissible Limits	Standards	Record Reference
1	Water	Lab Test: Local Source - Once in Three months Out source - Once in a month			IS 456- 2000 Clause 5.4	ST/RG/01
			a) To Neutralize 100 ml of water using Phenolphthalein as an indicator (Acidity).	Not more than 5 ml (or 50 mg/Lit) of 0.02 normal NaOH		
			b) To Neutralize 100 ml of water using mixed indicator (Alkalinity)	Not more than 25 ml (or 250 mg/Lit) of 0.02 normal H <sub>2</sub> SO <sub>4</sub>		
			C) Solids:			
			(i) Total Dissolved Solids	3000 mg/Lit		
			(ii) Sulphates (as SO <sub>4</sub> )	400 mg/Lit		
			(iii) Chlorides (as Cl)	2000 mg/Lit for Concrete not containing embedded steel and 500 mg/Lit for Reinforced Concrete work.		
			(iv) Suspended Matter	2000 mg/Lit		
			d) pH value	Not less than 6		
		Field Test: (Using Litmus Paper) Local Source - Once in Fortnight Out Source - For each Load (Lorry Load)	a) pH value	Not less than 6		Field Observation Register
2	Cement (43 Grade)	One test for Every 300 Tonnes of single Brand (Test to be done, if there is change in Brand)			IS 269-2015	ST/RG/01
			a) Initial setting Time	Not less than 30 minutes		
			b) Final setting Time	Not more than 600 minutes		
			c) Fineness of Cement			
			i) By Permeability Method	Not less than 225 m <sup>2</sup> /Kg		
			(or)			
			ii) By Standard Sieve Test	Retained not more than 10%		
			d) Soundness of Cement			
			i) By Le-Chatelier Method	Expansion not more than 10 mm		
			(or)			
			ii) By Auto Clave Test	0.80%		
			e) Compressive Strength of C.M (1:3) Cube			
			i) 3 days (72 +/- 1 hr)	Not less than 23 Mpa (or) 230 Kg/Cm <sup>2</sup>		
			ii) 7 days (168 +/- 2 hrs)	Not less than 33 Mpa (or) 330 Kg/Cm <sup>2</sup>		
			iii) 28 days (672 +/- 4 hrs)	Not less than 43 Mpa (or) 430 Kg/Cm <sup>2</sup>		
3	Steel					
	a) Mild Steel (Grade I - Fe 250)	Each Load and Each Diameter (Min. 3 Samples)			IS 432 (Part-I) 1982	ST/RG/01
			a) Yield Stress	Min. 250 N/mm <sup>2</sup> (Or) 25 Kg/mm <sup>2</sup>		
			b) Elongation	Min. 23.0%		
			c) Ultimate Tensile Stress	Min 410 N/mm <sup>2</sup> (Or) 41 Kg/mm <sup>2</sup>		

Procedure for Quality Plan for Material Testing					Doc.No	OC/QP/01
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SL.No	Material to be Tested	Sampling	Name of test	Permissible Limits	Standards	Record Reference
	b) High Strength Deformed Bars (Fe 415)	Each Load and Each Diameter (Min. 3 Samples)			IS 1786 - 2008	ST/RG/01
			a) 0.20% Proof Stress / Yield Stress	Min.415 N/mm <sup>2</sup> (or) 41.50 Kg /mm <sup>2</sup>		
			b) Elongation	Min.14.50%		
			c) Tensile Stress	10% More than the actual Proof stress. But not less than 485 N/mm <sup>2</sup> (or) 48.50 Kg/ mm <sup>2</sup>		
	c) High Strength Deformed Bars (Fe 500)	Each Load and Each Diameter (Min. 3 Samples)			IS 1786 - 2008	ST/RG/01
			a) 0.20% Proof Stress / Yield Stress	Min.500 N/mm <sup>2</sup> (or) 50.0 Kg /mm <sup>2</sup>		
			b) Elongation	Min.12.0%		
			c) Tensile Stress	8% More than the actual 0.2 Percent Proof stress. But not less than 545 N/mm <sup>2</sup> (or) 54.50 Kg/ mm <sup>2</sup>		
4	Sand	Each Load	Clay, Fine silt and Fine Dust	Not more than 5% by Mass	IS 2116-1980	ST/RG/01
5	Coarse Aggregate	Every Quarry	a) <b>Either Crushing Value (Or) Impact Value</b>		IS 383-1970	ST/RG/01
			i) <b>Crushing Value</b>			
			Aggregates used for concrete other than wearing surfaces.	Not more than 45%		
			Aggregates used for concrete for wearing surfaces(Such as Roads, Pavements).	Not more than 30%		
			(Or Alternatively)			
			ii) <b>Impact Value</b>			
			Aggregates used for concrete other than wearing surfaces	Not more than 45% by weight		
			Aggregates used for Concrete for wearing surfaces (Such as Roads, Pavements).	Not more than 30% by weight		
			b) <b>Abrasion Value</b>			
			For Aggregates to be used in Concrete for wearing surfaces.	Not more than 30%		
			For Aggregates to be used in other concrete	Not more than 50%		
6	Bricks	Lot Size - For Every One Lakh Bricks - (Number of Samples 20.Nos)			IS 1077-1992	ST/RG/01
			<b>For Class 35</b>			
			a) Compressive Strength	Not Less than 35 Kg/cm <sup>2</sup> (or) 3.50 N/mm <sup>2</sup>		
			b) Water Absorption	Not more than 20% by Weight		
			c) Efflorescence	Rating not more than Moderate		
			<b>For Class 50</b>			
			a) Compressive Strength	Not Less than 50 Kg/cm <sup>2</sup> (or) 5.0 N/mm <sup>2</sup>		
			b) Water Absorption	Not more than 20% by Weight		
			c) Efflorescence	Rating not more than Moderate		

Procedure for Quality Plan for Material Testing						Doc.No	OC/QP/01
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SL.No	Material to be Tested	Sampling	Name of test	Permissible Limits	Standards	Record Reference	
7	Fly Ash Brick	Lot Size - For Every One Lakh Bricks - (Number of Samples 20.Nos)			IS 12894 -2002	ST/RG/01	
			<b>For Class 100</b>				
			a) Compressive Strength	Not Less than 100 Kg/cm <sup>2</sup> (or) 10.0 N/mm <sup>2</sup>			
			b) Water Absorption	Not more than 20% by Weight			
			c) Efflorescence	Rating not more than Moderate			
8	Hydraulic pressed Tiles	One test for area upto 1999 sq.m and one additional test for every 1000 sq.m. and part thereof			IS 2690 - 1993	ST/RG/01	
			a) Water Absorption	Shall not exceed 15%			
			b) Flexural Strength	Shall not be less than 20 Kg / cm <sup>2</sup>			
9	Vitrified Tiles	One Test for an area upto 1999 sq.m and one additional test for every 1000sq.m. and part thereof.			IS 15622 - 2006	ST/RG/01	
			Deviation percent in Length & Width (2 or 4 sides)	±0.10			
			Deviation percent in Thickness	±4.00			
			Maximum Deviation percent in Rectangularity	±0.10			
			Surface Flatness (Warpage)	±0.20			
			Water absorption percent by mass	Average < 0.08 Individual max 1.0			
			Modulus of rupture in N/mm <sup>2</sup>	Average 47, Individual 44.min			
			Breaking Strength in, N	> 7.5mm thickness, 1500 (Min)			
			Scratch hardness of surface (Mohs)	6, Min			
			Bulk density in (g/cc)	2.20 Min			
			Impact Resistance	Required			
			Chemical Properties / Resistance	Required			
10	Electric Cable	One test for each Brand, each size	Conductor resistance at 20° C		IS 664 - 1990	ST/RG/01	
			For 1.5 Sq.mm cable	Max. allowable limit 12.10 Ohm / Km			
			For 2.5 Sq.mm cable	Max. allowable limit 7.40 Ohm / Km			
			For 4.0 Sq.mm cable	Max. allowable limit 4.95 Ohm / Km			
11	Wood	One sample for each work	Lab Test - Moisture Test	Not more than 12%	IS 287 - 1993	ST/RG/01	
			Field Test - Visual observation	Free from Rotten, unsound knots (or) knots in cluster	IS 3629 - 1960		
12	Cube test in Lab		Compressive strength of 150mm Cube		IS 456- 2000	ST/RG/01	
		1 to 5 m <sup>3</sup> - 1 set	M20 (1:1.5:3)				
		6 to 15 m <sup>3</sup> - 2 sets	7 days	Not less than 135 Kg / cm <sup>2</sup>			
		16 to 30 m <sup>3</sup> - 3 sets	28 days	Not less than 200 Kg / cm <sup>2</sup>			
		31 to 50 m <sup>3</sup> - 4 sets	M25 (1:1:2)				
		>50 m <sup>3</sup> - 4 plus one for each add 50 m <sup>3</sup>	7 days	Not less than 170 Kg / cm <sup>2</sup>			
		(1 set = 3 cubes)	28 days	Not less than 250 Kg / cm <sup>2</sup>			
			M30				
			7 days	Not less than 205 Kg / cm <sup>2</sup>			
			28 days	Not less than 300 Kg / cm <sup>2</sup>			
13	Slump test	Type of work	With vibration	Without vibration		ST/RG/01	
	Slump test at site for all Reinforced concrete at regular intervals (Slump in mm)	Mass concrete, large section, roads and pavements	10 to 25	50 to 75			



Procedure for Quality Plan for Material Testing					Doc.No	OC/QP/01
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SL.No	Material to be Tested	Sampling	Name of test	Permissible Limits	Standards	Record Reference
		RCC foundation, substructures, thick walls and other heavy sections	26 to 50	40 to 115		
		Thin vertical sections such as walls, beams, columns with congested reinforcement	40 to 50	100 to 175		
		When using concrete Pump	80 to 100			
14	M-Sand				IS: 383-2016 (3 <sup>rd</sup> Revision) For Zone-II	
14.1	Test for Size and Grading of Aggregate		IS Sieve Size in mm		IS: 2386(Part-I)-1963	
			a) 10 mm	Shall be 100%		
			b) 4.75 mm	Shall be between 90 & 100%		
			c) 2.36 mm	Shall be between 75 & 100%		
			d) 1.18 mm	Shall be between 55 & 90%		
			e) 600 micron	Shall be between 35 & 59%		
			f) 300 micron	Shall be between 8 & 30%		
			g) 150 micron	Shall be between 0 & 10%		
14.2	Test for Specific Gravity			Shall be between 2.1 and 3.2		
14.3	Test for Water absorption, %			Shall not be more than 5%		
14.4	Test for Bulk density				IS: 2386(Part-III)-1963	
			a) Bulk density in Kg/l-loose condition	Limit not specified		
			b) Bulk density in Kg/l-compacted condition	Limit not specified		
14.5	Test for Deleterious Materials					
			a) Coal and Lignite	Shall not be more than 1%		
			b) Clay lumps	Shall not be more than 1%		
			c) Material finer than 75 $\mu$ m IS sieve	Shall not be more than 10%		
			d) Organic Impurities	Shall pass the test		
			e) Silt content	Limit not specified		
14.6	Test for Soundness of Aggregate					
			% loss of weight of the material after 5 cycles when tested with Sodium sulphate solution.	Shall not be more than 10%		
14.7	Test for Total Alkali Content					
			Total alkali content as Na <sub>2</sub> O equivalent Percent	Shall not be more than 0.3%		
14.8	Test for Sulphate content					
			Test for Sulphate content as SO <sub>3</sub>	Shall not be more than 0.5%		
14.9	Test for Acid Soluble Chloride content					
			Acid Chloride content Percent	Shall not be more than 0.04%		
14.10	Test for Alkali Aggregate reactivity		Acceleration Mortar bar Method			
			The Average expansion of accelerated mortar bar after 16 days of casting percentage	1. Expansions of <0.10% - Indicates <b>Innocuous</b> behavior of aggregate. 2. Expansions between 0.10 and 0.20% includes both <b>Innocuous</b> and <b>deleterious</b> aggregate. 3. Expansion >0.20% indicative of <b>Potentially deleterious</b> aggregate		
14.11	Test for Bulking of Sand percent		Bulking of sand Percent	Limit not specified	IS: 2386(Part-III)-1963	

### **CONDITIONS OF EMPLOYING TECHNICALLY QUALIFIED PERSON**

Technical qualified man should be employed as follows:

SL.NO. (1)	Value of Contract (2)	Qualification and No. of Technical Assistant to be employed (3)
1.1	Upto 1 Lakh	No Technical Assistant need be employed. However, if the officer who accepts the agreement, feels that the nature of work required a Technical Assistant conditions may be stipulated in the tender notice that one diploma holder in Civil Engineering or a retired Junior Engineer may be employed.
1.2.	Rs. 1 Lakh to Rs. 3 Lakhs	One Diploma holder in Civil Engineering or not less than one retired Junior Engineer.
1.3.	Rs. 3 Lakhs to Rs.10 Lakhs	One B.E., (Civil) or equivalent degree holder or not less than one retired sub-divisional officer (Assistant Executive Engineer or Assistant Divisional Engineer).
1.4.	Rs.10 Lakhs to Rs.25 Lakhs	One B.E., (Civil) or equivalent degree holder with three years experience in Civil Engineering works not less than one retired sub-divisional Officer plus one Diploma holder in Civil Engineering.
1.5.	Rs.25 Lakhs to Rs.50 Lakhs	One B.E., (Civil) or equivalent degree holder with three years experience or not less than one retired sub-divisional officer (retired Assistant Executive Engineer) plus two Diploma holders in Civil or two retired Junior Engineers.
		<b>ALTERNATIVE</b>
		One B.E., (Civil) or equivalent degree holder with three years experience or not less than one retired Sub-Divisional Officer and one more B.E., (Civil) or equivalent degree holder.
1.6.	Above Rs.50 Lakhs	To be examined in individual case depending on the nature of technical skill involved and defined in the Tender Notice regarding the number of qualified technical person to be employed by the contractor.
2.	A penalty of Rs.500/- p.m. for Diploma holder and Rs.1,000/- p.m. for Degree holder be levied in case of default on the part of contractors in following the norms laid down above.	
3	The employment of Technical Assistant could be based only on the value of contract. Engineers with Mechanical Engineering Qualification and retired from Civil Engineering department are also suitable to supervise the Civil Engineering works because of their experience in Civil Engineering field.	

\*\* I am / we are professionally qualified and my / our qualifications are given below.

NAME	QUALIFICATION	EXPERIENCE
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I / we employ the following technical staff for supervision the work and will see that one of them is, always at site during working hours personally checking all items of work that paying extra attention to such works is required special attention (e.g.) reinforcement concrete work.

Name of member of technical staff proposed to be employed	QUALIFICATION	EXPERIENCE
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In deciding the period of absence, the certificate from the Assistant Exe. Engineer in-charge of the work Counter signed by the Executive Engineer – incharge shall be taken as the conclusive evidence and I/we shall be bound by such a certificate.

- \*\* Note :
1. In case of 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 to such works as may demand special attention. (e.g.) R.C. work etc., he should employ technically qualified men (as prescribed for the work).
  2. The Tenderers should score out the last clause if they are themselves professionally qualified and undertake to employ technical staff under them.

**TAMIL NADU POLICE HOUSING CORPORATION LTD.,**  
**SPECIAL CONDITION FOR ELECTRICAL WORKS**

1. The work shall be carried out in accordance with the General specification for electrical works and the code of practice for electrical wiring installation I.S. 732-1963 & I.S. 3043-1964 and as amended upto date. All installation shall comply with the requirements of Indian Electricity Rules 1956 & Act and I.S. Code amended upto date.
2. Approval of the Engineer in-charge shall be taken well in advance for all materials and brand of materials to be used on work by the contractors, based on the approved brand of materials. The choice of brand of materials from the approved list is at the discretion of the Engineer-in-charge and his decision will be final. The contractor is bound to use the brand of materials selected by the Engineer-in-charge.
3. Bad workmanship is liable to be rejected in to.
4. The contractor shall supply on completion of work completed plan along with insulation polarity and earth tests reports before the installation is handed over to the Engineer in-charge in good condition in triplicate. The tests should be carried out in the presence of Engineer-in-charge at contractors cost.
5. All repairs and patch work shall be neatly carried out to match the original finish and to the entire satisfaction of Engineer-in-charge.
6. The contractor shall make his own arrangement at his own cost for all general T&P and spl. T&P required on the job.
7. The contractor shall make his own arrangements for storage of materials and watch and ward at his own cost, till the installation (completed work) is handed over to the Department after obtaining service connection from Electricity Board and testing the line. Any loss and tampering of materials for which the payment was made good by the Department will be made by the contractor at his own cost.
8. Issue of the materials to the contractor wherever stipulated will be regulated to the needs from time to time depending upon the progress.
9. Materials stipulated for issue shall be taken over to the site of work and the safe custody till completion of the job is the responsibility of the contractor.
10. All the debris due to electrical works shall be removed from site by the contractor as soon as the work is completed.
11. Electrical works shall be progressed by the Contractor side by side with the progress of the building work burning of conduits for recessed portion shall be planned together with the building progress so that there is no hindrance to the buildings progress at any stage.
12. The internal E.I. shall be ordinarily carried out according to the drawing supplied with the schedule of work subject to change made by the Engineer-in-charge.
13. The wiring route shall be marked at site first and get approval from the Engineer-in-charge before commencement of actual work. The work must be carried out as directed by Engineer-in-charge.
14. PVC wiring shall be neatly painted with two coats for non-cracking paint / distemper suitable for painting PVC wire and of suitable colour to match the surroundings as per the direction of Engineer-in-charge.
15. In place where electrical conduit is required to pass through wall/RCC column beam etc., the conduit shall be laid during the execution of work in consultation with the Engineer-in-charge so as to avoid the need for cutting the structure at the later date.

16. The T.W. materials such as fillets specials TW boxes and all materials shall be got approved from the Engineer-in-charge before use to ensure the quality of materials.
17. In the case of recessed conduit works, the MS boxes shall also be recessed and covered with 1/8" (3 mm) hyleam/Bakelite sheet. The thickness of MS sheet shall not be less than 3 mm thick.
18. Provision of fittings.
  - a. All switch Board shall be so placed that the bottom is normally 1.22 meter above floor level of such height as decided by the Engineer-in-charge.
  - b. All fittings shall be provided at 2.6 metre from the floor level or such height as decided by the Engineer in-charge.
  - c. The convenient 5/15 Amps. plug socket shall be 25cm. above the floor level or such height as decided by the Engineer in-charge.
  - d. Wiring shall run normally at 2.6 metre from the floor level or such height as decided by the Engineer in-charge.
19. The materials issued if any by the Department to the contractor, the cost will be recovered at the stores issue rate. If the contractor fails to return the surplus materials after completion of work, the cost will be recovered at double the stores issue rate or market rate whichever is higher.
20. Tools and plant General and Spl. as required on the work is to be arranged by the contractor at his own cost.
21. Brass tinned like/joint clips of 0.32 mm (30 gauge) thick upto 40mm length and 0.40 (28 gauge) thick above 40mm length and of width shall be used on the work.
22. Brass hinged brass hooks and eyes, single plank teak wood boards of 60mm minimum depth in case of open wiring and minimum depth of 100 mm in the case of concealed wiring and not less than 6.5 mm thickness shall be used to the works.
23. Fixing of wooden battens.
  - a. The Screws shall be used for fixing the wooden batten and accessories at an interval not exceeding 50cm. The thickness of batten shall be less than 10mm.
  - b. The clips are provided on the wooden batten with screws/pins and spaced at an interval of 15cm both in the case of horizontal and vertical run.
  - c. Round block shall not be less than 75mm dia. and 40mm deep and fixed by means of 2 nos. of screws.
24. Piano type switches outlet of approved make wherever needed shall be used for recessed boards after getting the approval of Engineer in-charge.
25. Only brass screws shall be used for fixing fitting switches plugs and sockets main boards and distribution board and T.W. accessories etc., required for the, wiring.
26. All conduit pipe shall be approved gauge (not less than 16 SWG : 14SWG) solid drawn of lap welded finished with galvanized stone enameled finished. The saddles used shall not be less than 24 gauge upto 25mm dia pipes and not less than 20 gauge for inner dia pipes.

27. The main earthening shall not less than 8 SWG copper (4.06mm) in case of copper wire earthening or 6 SWG.GI wire (4.98mm) in case of G.I. wire earthening. Separate earthing shall be provided for all mountings of rain Boards, distribution boards, 5/15 amps. C.S. plug sockets with not less than 14 SWG of copper (2.03 mm).
28. Earthing shall confirm to relevant I.S. Code 3043-1966, the G.I. Pipe earth electrode system is adopted G.I. pipe shall be of medium class 38/40mm dia. 3.75 metres long. The electrode/ shall be buried in the ground vertically with its top not less than 20 cm. below ground level, Normally an earth electrode shall provide 1.5 metres away from any building., In case of providing twin earthing the distance between the earth pits shall be 10 feet. Alternate layers of charcoal or cock and seal of minimum 15 cm thick are to be provided from the bottom of earth pit upto 1 metre below ground level and the masonry work is to be carried out in brick with the cement mortar 1:4 above the last layer and the top is to be covered by Suitable cast iron frame and cover.
29. The staircase light point wiring must be done by looping or piece wire system and which must control phase or live wire only.
30. Looping in system is to be adopted for wiring. Normally the looping of neutral of light, fan, plug point etc., should be restricted to three points for a single wire from the switch board.
31. The wooden batten and specials shall not butt jointed and joints should be lap joined.
32. The wiring must be done using bend and corners wherever necessary sharp bending or cable must be avoided.
33. The lighting circuit shall not have more than 10 point or a load of 800 watts whichever is less.
34. Power wiring shall be kept separate and distinct from the lighting wiring.
35. The contractor should be present at the premises at the times of effecting service connection by the Electricity Board authority and afford all facility for testing and commissioning the installation.
36. The contractor should provide sufficient leads for connecting the main switches to meters and cut out provided by the Electricity Board at his own cost.
37. The apartment main switches and the main switches at the Electricity Board service connection boards should be numbered in paint for easily identification and the danger boards should be provided wherever necessary according to I.E Rules and Act regulations.
38. Looping of neutral and connection wires in the switch boards must be carried out through mechanical connectors and proper insulation shall be provided inside the switch board wherever necessary to avoid short circuiting the system.
39. The scaffolding and the shed required for the electrical installation works should be put up by the contractor at his own cost.
40. The run of main relates to the mains run from the main switch provided inside the apartments to the main switch provided for service connection by the Electricity Board authorities. The Distribution Box used shall be metallic enclosed type with fuse unit and neutral link. The earthing for the, main switches provided in the service connection Board should be properly interconnected and connected to the main earthing system.

**SPECIAL CONDITIONS FOR GOODS AND SERVICE TAX (GST)**

1. Cost of Tender schedule for sale, includes applicable (GST).
2. The amount of EMD inclusive of GST (Basic Rate + GST) will be calculated as 1% of the contract value of work put to tender for upto Rs.20.00 Lakhs plus 0.5% of the value of work put to tender for above Rs.20.00 Lakhs (Including the GST amount).
3. The tenderer shall quote the rates and prices (both in figures and words) for all the items of the works described in the Bill of Quantities excluding GST along with sum of the quoted tender value excluding GST at the end (both in figures and words).
4. Government of India has notified vide Notification No.20/ 2017 – Central Tax (Rate), dated 22<sup>nd</sup> August , 2017 and Notification No. 24 / 2017 – Central Tax (Rate) dated 21<sup>st</sup> 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 and Services Tax (GST) rate applicable on purchase of goods used in the execution of Government Contract. **And the GST amount will be calculated at 12% from the sum of total tendered value quoted by the tenderer for construction cost (excluding GST) specified in the Tender Schedule, subject to GST rate applicable from time to time as recommended by the GST Council.**
5. All duties, taxes, and other levies except 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.
6. 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 transactions undertaken by State Government shall be treated neither as supply of goods nor a supply of service.
7. 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.

8. As per PWD Revised SOR (2017-18), dt: 21.10.2017, Under General Note, 8 (ix), the Contractor is eligible to get refund of excess tax paid over or liable to pay tax for this Contract Work.
9. The total bid price will be the cumulative of Value quoted for construction (Total Basic rate + GST) shall be substituted.
10. The security Deposit (With GST) of 2% (Two percentage) of the value of contract in one of the forms prescribed in TNPHC by taking into account of the amount of EMD already deposited with the tender, it would be sufficient to pay the balance amount to make up the 2% of the value of contract for the purpose of security deposit (Including of GST amount).
11. In addition to the aforesaid security deposit, retention amount shall be deducted from the running account bills, a sum equivalent to 5% (Five Percent) of the total value (including the Goods and Services Tax (GST) Amount for all the running account bill) of each bill as retention money.
12. Out of the 5% retention amount (with GST), 2½ % (Two and Half Percent) of the total value of the work so far executed will be released to the contractor on payment of final bill.
13. The balance 2½ % will be retained for a period as specified in the tender schedule reckoned from the date of completion of the work, as all defects shall have been made good according to the true intent and meaning hereof, whichever shall happen last.
14. The retention amount of 2½ % including GST (Two and half Percent) of the total value of contract after deducting any amount due to Department, shall be refunded to the Bidder without interest after the defects liabilities attached to the contract is over.
15. Negotiation of rates will be made only with the lowest tenderer for reducing the quoted rates.



16. The lowest tenderer will be identified who quotes lowest total tender price which including GST as per the clause Sl.No.9. The Negotiation of rates will be made only with the lowest tenderer for reducing the quoted rates and the negotiation will be made for the rates quoted to the items in the construction part alone and not for GST amount. After negotiation with lowest tenderer, the GST amount will be recalculated at 12% of the sum of the Negotiated tender value (excluding GST) for Construction Cost specified in the Tender Schedule, subject to GST rate applicable from time to time as recommended by the GST council.
17. For every Bill, 12% of GST will be paid to the contractor based on the value of work done for Construction by the contractor. After the payment including 12% of GST, the Contractor should pay the GST Amount to Government through his GST Registration No. Also the contractor needs to submit the Material purchase bill mentioning the name of the works in the package and GST No. to the Department.
18. At the time of payment for first running account bill, the contractor should produce the GST paid details on goods (Materials) to the department along with Input Tax Credit (ITC).
19. At the time of payment for next running account bills, the contractor should produce the GST paid details of services upto previous bill payment (i.e. GST paid detail for the previous work bill) along with Input Tax Credit (ITC) availed at the time of payment of intermediate bill to the department.
20. The contractor should produce the GST paid details for all the materials used for Construction work and GST paid details of services for the upto previous payment (i.e. GST paid detail for the upto previous work bill) to the department along with Input Tax Credit (ITC) availed at the time of payment of final bill to the department.
21. In the final bill, the Goods and Service Tax (GST) amount retained in previous payment has to be released to the contractor without interest.
22. After receipt of final work bill payment for construction, the contractor shall furnish to the department, with the complete GST paid details along with Input Tax Credit (ITC) details within 3 months matched with GSTN (Goods and Service Tax Net work).

23. The rates tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, including 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.
24. The Contractor should be required to indicate their GST registration number under the Goods and Service Tax (GST) Act 2017 in the tender form. The Central Goods and Service (CGST) Act 2017, the Integrated Goods and Services (IGST) Act 2017 and the Tamil Nadu Goods and Services (TNGST) Act 2017 have 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.