



**THE TAMILNADU HANDLOOM WEAVERS CO-OPERATIVE SOCIETY LIMITED  
GENERAL MANAGER (MARKETING)**

**NOTICE INVITING TENDER (NIT Document)**

**Tender Reference No.** TNHWCS/01/Q/GM(M)/2024

**Date:** 10.01.2025

The General Manager (Marketing) on behalf of The Tamil Nadu Handloom Weavers Co-operative Society Ltd invites submission of online bids from eligible bidders for the contract package as below. Bids are invited under two cover systems to be uploaded in the online web portal <https://tntenders.gov.in> from the registered contractors with the monetary limit satisfying the tender value in TNHWCS or Government Departments / Government undertaking / Public Sector Undertaking **Approved list for erection and maintenance of Lift issued by CEIG** and registered as a legal entity in India upto **03:00 PM on 24.01.2025** and the same will be opened at **4.00 PM on 24.01.2025** in the presence of the Tender Scrutiny Committee.

Sl. No	Name of work	Approximate Tender Value (Including GST@18%) (Rs. in lakhs) ----- Period of contract	EMD (In Rs.)
(1)	(2)	(3)	(4)
1	Design, Manufacture, Supply, Delivery, Installation, Testing and Commissioning of 1 no. of 13 persons capacity passenger lift (Stilt + 4 Storied) and Construction of lift supporting steel structure with ACP Cladding in Co-optex Kolam Showroom Building at No.843,Anna Salai,Chennai-02	Rs.47.37 Lakhs ----- 3 Months	Rs. 47,370/-

**Note:**

1. Detailed tender notice, conditions for participating in the tender and the tender documents are also available at <https://tntenders.gov.in/nicgep/app> which can be downloaded at free of cost. The tenderer shall keep a watch over the web site till the preceding date of tender for any notifications.
2. The EMD should be paid only through online in the gateway provided at the <https://tntenders.gov.in/nicgep/app> web portal.
3. Bid submission will start from **10.01.2025 at 10.30 AM to 24.01.2025,03:00PM**
4. Pre-Bid Meet on 20.01.2025 at 3.00 PM

Note: For further information, kindly refer to the document

A.P.Ravi  
General Manger (Marketing)  
TNHWCS Ltd



**THE TAMILNADU HANDLOOM WEAVERS CO-OPERATIVE  
SOCIETY LIMITED**

Tender Document for

**Name of work: Design, Manufacture, Supply, Delivery, Installation, Testing and Commissioning of 1 no. of 13 persons capacity passenger lift (Stilt + 4 Storied) and Construction of lift supporting steel structure with ACP Cladding in Co-optex Kolam Showroom Building at No.843,AnnaSalai,Chennai-02.**

Under Open Competitive Bidding  
(Following single stage two envelope bidding procedure)

Issued on: 10.01.2025

Tender Reference No: TNHWCS/01/Q/GM(M)/2024

General Manager (Marketing)  
The Tamil Nadu Handloom Weavers  
Co-operative Society Limited  
No. 843, Anna Salai,  
Triplicane,  
Chennai – 600 002.

CONTRACTOR

GENERAL MANAGER  
(MARKETING)

**Table of Contents**

Name of Work	Design, Manufacture, Supply, Delivery, Installation, Testing and Commissioning of 1 no. of 13 persons capacity passenger lift (Stilt + 4 Storied) and Construction of lift supporting steel structure with ACP Cladding in Co-optex Kolam Showroom Building at No.843,AnnaSalai,Chennai-02.
Tender Reference No.	TNHWCS/01/Q/GM(M)/2024
Cost of Tender Schedule	Free of Cost to be downloaded in the e-procurement Website <a href="https://www.tntenders.gov.in">https://www.tntenders.gov.in</a> and <a href="https://www.cooptex.gov.in">https://www.cooptex.gov.in</a>
Approx Tender Value of Work	Rs.47.37 Lakh
Period of Contract	03 Months
Form of contract	Item Rate Contract
Method of Tender	Open Tender/Two cover-e-Tender System (Online submission of Cover A - Pre-Qualification / Technical Bid Cover B - Price Bid)
Earnest Money Deposit (EMD)	Rs.47,370/- (Remitted through online only)
URL for online bid Submission for e-tender	<a href="https://www.tntenders.gov.in">https://www.tntenders.gov.in</a>
Period of availability of Bidding documents on website	From 10.01.2025 to 24.01.2025 upto 03:00PM
Last date & time for submission of EMD electronically & Pre-Bid Meeting	24.01.2025 upto 03:00PM & 20.01.2025 at 3.00 PM
Last date & time for submission of Bids electronically	24.01.2025 upto 03:00PM
Date & time of opening of Technical Bid electronically	24.01.2025 at 04:00P.M onwards
Clarification to be sought for from	General Manager (Marketing), The Tamil Nadu Handloom Weavers Co-operative Society Limited (Co-optex) <b><u>EmailId:dailycooptex@gmail.com</u></b>

**SECTION 1: INSTRUCTIONS TO BIDDERS**  
**(ITB)**

**THE TAMIL NADUHANDLOOM WEAVERS CO-OPERATIVE SOCIETY LIMITED**

**Name of the work: “Design, Manufacture, Supply, Delivery, Installation, Testing and Commissioning of 1 no. of 13 persons capacity passenger lift (Stilt + 4 Storied) and Construction of lift supporting steel structure with ACP Cladding in Co-optex Kolam Showroom Building at No.843,AnnaSalai,Chennai-02.”**

1. It is mandatory for the applicant to register their firm with e-procurement portal of NIC (<https://tntenders.gov.in>) to have a user ID and password. Any bidder not having the user ID and password / Digitally Signature Certificate (DSC) may obtain the same from NIC on payment of requisite fees.
2. If the bidder submits more than one bid in this bidding process it will result in the disqualification of all the Bids.
3. **Bid document can be downloaded from the Government website [www.tntenders.gov.in](http://www.tntenders.gov.in) & [www.cooptex.gov.in](http://www.cooptex.gov.in) at free of cost.**
4. **The bidder should remain in the same “name and style” in the Civil Engineering construction field at least for the past “THREE” years.**
5. **The bidder should be registered contractors with the Monetary Limit satisfying the tender value who engages a firm / person possessing the certificate of Registration in the Approved list for erection and maintenance of Lifts issued by CEIG are alone eligible to participate in this tender.**

**The bidder should be registered contractor in TNHWCS or Government Departments / Government undertaking / Public Sector Undertaking as a legal entity in India with the Monetary Limit satisfying the tender value alone are eligible to participate in this tender.**

**The contractor who quotes tender should personally visit the work site and submit a site visit certificate issued by the Engineer –in- Charge, TNHWCS, Triplicane, Chennai– 02.**

6. **The bidder should have proper license on live for Manufacturing and erection of the lifts from the authorities concerned. In case of any failure in this respects, there tender will not be considered and the same will be rejected without any notice.**
7. **The bidder should furnish “SARAL” as produced to Income Tax Department and respective Balance Sheet and details of GST Registration and GST Verification Certificates which are obtained for past “THREE” years.**
8. **The bidder should furnish the details of major building works including other civil and electrical works completed by him / her / them during the past “THREE” years.**
9. The bidder should not have any of his contracts terminated / rescinded due to breach of contract on part of the applicant during the past three years by any agency. A bid from a temporary suspended or debarred bidder will be rejected. The self-declaration form should be duly signed and uploaded in e-procurement portal <https://tntenders.gov.in>.
10. A prospective Bidder requiring any clarification on the Bidding Document shall submit their queries in online to General Manager (Marketing), TNHWCS Ltd., by e-mail to [dailycooptex@gmail.com](mailto:dailycooptex@gmail.com) before the pre-bid meeting.
11. The Bidder is advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidders own expense. After submission of the bid, any additional claim of the successful bidder regarding the site conditions will not be entertained.
12. Conditional tenders, seeking the taxes, other requirements, and benefits on the bids during execution will be summarily rejected.

13. The entire processes of Tender are done in accordance with the provisions contained in the Tamil Nadu Transparency in Tender Act, 1998 and the rules framed there on.

#### **14. AMENDMENT OF BIDDING DOCUMENTS**

- (a) Before the deadline for submission of bids, the General Manager (Marketing) may modify the bidding documents by issuing addenda.
- (b) Any addendum thus issued shall be part of the bidding documents and shall be uploaded in <https://tntenders.gov.in> & <https://cooptex.gov.in> website. Prospective bidders shall look into the website for addendum.

#### **15. Language of the Bid**

The Bid as well as all correspondence and documents relating to the bid exchanged between the Bidder and the General Manager (Marketing), shall be written in the English language. Supporting documents and printed literature that are part of the Bid may be in another language provided they are accompanied by an accurate translation of the relevant passages in the English language.

#### **16. Documents comprising the Bid**

The bid document comprise the following:

**(a) Technical / Pre Qualification Documents to be uploaded  
Online- procurement portal are listed below**

- (i) Registration of contractor / Firm registration with live certificates, License holders who engages a firm / person possessing the certificate of Registration in the Approved list for erection and maintenance of Lifts issued by CEIG and proper license on live for Manufacturing and erection of the lifts.
- (ii) GST registration certificate and GST Statement for the last three years.
- (iii) PAN Card, IT "SARAL" for the Past "Three years" and Audited Balance Sheet of Annual Turn Over for the Past Three years.

- (iv) Similar work experience certificate for the Past Three Years, Current Contract commitments (On- Going Works) and Liquid Assets (Bank Certificates)
- (v) Self Declaration of Non-termination/non-rescinded due to breach of contract of any projects in Past Three Years, Details Technical Personnel's and Details of Tools and Plants.
- (vi) Self declaration for Engagement of minimum number of labourers. [ *The contractor has to employ labourers (Mason, Mazdoor Class I, Mazdoor Class II, Carpenter, Plumber, painters, electrician etc.,) at any given point throughout the entire contract period and the certificate to that effect has to be given by the contractor as a self declaration duly attested by the Notary Public*]
- (vii) Site visit certificate Obtained from the Engineer -in- Charge, TNHWCS Ltd.,

**(b) Financial bid documents to be uploaded in e-procurement portal are listed below**

- (i) BoQ in excel format has to be uploaded.
- (ii) Complete Tender document in pdf format has to be uploaded.

*(Note: The bidders are instructed to upload the duly signed and notary attested copies for the above said technical and complete tender documents in the respective folders of the e-procurement portal)*

**17. Bid Validity**

Bids shall remain valid for a period not less than **Ninety days** after the deadline date for bid submission. A bid valid for a shorter period shall be rejected by the General Manager (Marketing) as non-responsive. In exceptional circumstances, prior to the expiration of the bid validity period, General Manager (Marketing), may request Bidders to extend the period of validity of their Bids. A Bidder granting the request shall not be required or permitted to modify their Bid.



**18. Bid Security/ Earnest Money Deposit:**

The Bidder shall furnish, as part of his Bid, a Bid security in the amount as shown in NIT for this particular work. The Bidder shall furnish an Earnest Money Deposit / bid security through online transaction in e-procurement website (<https://tntenders.gov.in/>).

The EMD of qualified but unsuccessful bidders shall be returned promptly upon receiving of security deposit from successful bidder.

**19. Security Deposit:**

The successful Bidder should however pay the Security Deposit amount indicated in the LOA (Letter of Acceptance) the time of signing the contract in the shape of demand draft or unconditional and irrevocable Bank Guarantee etc., on the standard format enclosed to the Bid schedule for a total period not less than the stipulated period of the completion of the work, plus six months.

The Security Deposit should be paid by the successful bidder within 07 days from date of the receipt of Letter of Acceptance. Failure of the successful Bidder to submit the Security Deposit or to sign the Contract Agreement shall constitute sufficient grounds for the annulment of the award and forfeiture of the EMD. In that event, the General Manager (Marketing), may award the Contract to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the General Manager (Marketing), to be qualified to perform the Contract satisfactorily.

**20. Submission of Bids:**

- a) Bidders shall submit their Bids only electronically through e-procurement website <https://tntenders.gov.in/>. Bids shall be digitally signed. Submission by any other mode shall render the bidder non-responsive.
- b) The electronic bidding submission procedures shall be as follows:
- c) E-Tendering” means submission of a digitally signed bid (by a valid digital certificate which has been issued by a licensed Certifying Agency, as approved by Controller of Certifying Agency) which is stored in Time Stamped electronic sealed tender box.

Special Instructions to the bidders for the e-submission of the bids online through this e-Procurement Portal - (<https://tntenders.gov.in/>)

- i) The Bidders must submit bids online following the instructions appearing on the screen. Detailed guidelines for e-procurement are also available on the e-procurement portal. Bidder should do Online Enrolment in this Portal.
- ii) Bidder then logs into the portal giving user id / password chosen during enrollment.
- iii) The e-token that is registered should be used by the bidder and should not be misused by others.
- iv) DSC once mapped to an account cannot be remapped to any other account. It can only be deactivated.
- v) The Bidders can update well in advance, the documents such as certificates, purchase order details etc., under My Documents option and these can be selected as per tender requirements and then attached along with bid documents during bid submission. This will ensure lesser upload of bid documents.
- vi) After downloading / getting the schedules, the Bidder should go through them carefully and then submit the documents as per the bid document, otherwise, the bid will be rejected.
- vii) The BOQ template must not be modified / replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for that tender. Bidders are allowed to enter the Bidder Name and Values only.
- viii) If there are any clarifications, this may be obtained online through the e-Procurement Portal or through the contact details given in the bid document preferably on or before pre-bid meeting (Please refer item no. 13 of section 1, Instruction To Bidders). Bidder should take into account of the addendums published before deadline for submitting the bids online.
- ix) Bidder, in advance, should prepare the bid documents to be submitted as indicated in the schedule and they should be in PDF/XLS/RAR formats. If there is more than one document, they can be clubbed together.
- x) The bidder reads the terms and conditions and accepts the same to proceed further to submit the bids
- xi) The bidders are advised to submit the bid online well in advance before the prescribed time to avoid any delay or problem during the bid submission process.
- xii) There is no limit on the size of the file uploaded at the server end. However, the upload is decided on the Memory available at the Client System as well as the Network bandwidth available at the client side at that point of time. In order to reduce the file size, bidders are suggested to scan the documents in 75-100 DPI so that the clarity is maintained and also the size of file also gets reduced.

This will help in quick uploading even at very low bandwidth speeds.

- xiii) It is important to note that, the bidder has to Click on the Freeze Bid Button, to ensure that he/she completes the Bid Submission Process. Bids which are not Frozen are considered as Incomplete/Invalid bids and are not considered for opening/evaluation purposes.
- xiv) The Bidder shall complete the bid submission well before the date and time mentioned in the e-procurement portal. The General Manager (Marketing) will not be responsible for any sort of delay or the difficulties faced by the bidders for the submission of bids in e-procurement portal due to any issues.
- xv) At the time of freezing the bid, the e-Procurement system will give a successful bid updation message after uploading all the documents submitted and then a bid summary will be shown with the bid no, date & time of submission of the bid with all other relevant details. The documents submitted by the bidders will be digitally signed using the e-token of the bidder and then submitted.
- xvi) After the bid submission, the bid summary has to be printed and kept as an acknowledgement as a token of the submission of the bid. The bid summary will act as a proof of bid submission for a tender floated and will also act as an entry point to participate in the bid opening event.
- xvii) Successful bid submission from the system means, the bids as uploaded by the bidder is received and stored in the system. System does not certify for its correctness.
- xviii) The bidder should see that the bids submitted should be free from virus and if the documents could not be opened, due to virus, during bid opening, the bid is liable to be rejected
- xix) The time that is displayed from the server clock at the top of the tender Portal, will be valid for all actions of requesting bid submission, bid opening etc., in the e-Procurement portal. The Time followed in this portal is as per Indian Standard Time (IST) which is GMT+5:30. The bidders should adhere to this time during bid submission.
- xx) All the data being entered by the bidders would be encrypted at the client end, and the software uses PKI encryption techniques to ensure the secrecy of the data. The data entered will not be viewable by unauthorized persons during bid submission and not viewable by any one until the time of bid opening. Overall, the submitted bid and attachment become readable only after the tender opening by the authorized individual.
- xxi) During transmission of bid document, the confidentiality of the bids is maintained since the data is transferred over secured Socket Layer (SSL) with 256 bit encryption technology. Data encryption of sensitive fields is also done.
- xxii) The bidders are requested to submit the bids through online e-Procurement system well before the bid submission end date and time (as per Server System Clock).

## xxiii) Key Dates:

The bidders are strictly advised to follow the time schedule (Key dates) of the bid on their side for tasks and responsibilities to participate in the bid, as all the stages of each bid are locked before the start time and date and after the end time and date for the relevant stage of the bid as set by the Department.

**a) Bids shall be submitted electronically on e-Procurement site (<https://tntenders.gov.in/>), not later than 03:00 PM on, 24.01.2025.** Bid submission timelines will be defined as per the e-Procurement server clock only. The e-procurement system would not allow any late submission of Bids after due date and time as per server system.

b) The dates stipulated in the NIT are firm and under any circumstances they will not be relaxed unless officially extended.

## 21. Modification and Withdrawal of Bids:

Bidders may modify (or) withdraw their bids before the deadline for E-submission of bids. No bid shall be modified after the deadline for bid submissions.

**22. Opening of Bids:**

Electronic opening procedure shall be as follows:

The Bid opening member shall open the bids online as per the scheduled timeline. Bidders have the option to view, online, the status of the bid opening at the e-procurement website and do not have the option to view the bid documents of their competitors online from their respective logins.

The Price Bids will remain unopened and encrypted in the e-Procurement website until the specified time of their opening.

If the Technical Bid and the Price Bid are submitted together in the same on-line folder, the General Manager (Marketing), will reject the entire Bid.

**23. Evaluation of Technical Bids:**

- (a) To qualify for award of the contract, the bidder in his / her name should have been in the business of residential / commercial development in India for the last three years and should achieve minimum annual financial turn over mentioned below during any one of the last three year in India. (i.e.; 150% of tender value)

DESCRIPTION	VALUE
Annual Financial Turnover	Rs. 71,05,000/-

- (b) The applicant should satisfactorily completed as a prime contractor for at least one similar nature of works under single agreement (i.e.; 50% of tender value) in the last three years.

DESCRIPTION	VALUE
Completed building work	Rs.23,70,000/-

- (c) Liquid assets of the applicant should not be less than 20% of value of tender

DESCRIPTION	VALUE
Liquid assets	Rs.9,47,000/-

\* Liquid assets shall be certified by the Bank and it should be uploaded in e-procurement portal <https://tntenders.gov.in>

- (d) **Bid capacity**=( $A \times N \times 1.5 - B$ ) where,

**A** = Maximum value of works executed in any one year during the last three years (updated to **2023 - 2024** price level) taking into account the completed as well as works in progress.

**N** = Number of years prescribed for completion of the works for which bids are invited.

**B** = Value, at **2024 - 2025** price level, of existing commitments and on-going works to be completed during the **next 03 months** (period of completion of the works for which bids are invited)

**Note.1:** *The statements showing the value of existing commitments and on-going works\* as well as the stipulated period of completion remaining for each of the works listed should be countersigned by the Engineer in charge, not below the rank of an Executive Engineer concerned/Director or equivalent and **the same should be in originals and the paid capacity statement should be prepared upload in the onsite web portal.***

- (e) **Technical Personnel's**

The applicant shall have a project Manager and Site Engineer with Degree (or) Diploma (in Civil and Electrical Engineering) holders with minimum field experience prescribed.

Note: i) *The qualification of tender evaluation shall be done as a PASS /FAIL basis against criteria furnished.*

ii) *Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have:*

- *made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or*

- *record of poor performance such as abandoning the works, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.; and / or participated in the previous bidding for the same work and had quoted unreasonably high bid prices and could not furnish rational justification to the employer.*

#### **24. Opening of Price Bid:**

At the end of the evaluation of the Technical Bids, the Price Bids of technically pre qualified bidders who satisfy the minimum qualification criteria alone shall be opened through online e-procurement portal by the Bid Opening members on the date, and time specified in thee- procurement portal.

#### **25. Evaluation of price Bid:**

The Tender Scrutiny Committee members shall compare all substantially responsive price Bids to determine the lowest evaluated Bid price.

#### **26. Negotiation:**

Negotiation of rates will be made only with the Lowest Bidder for reducing the quoted rates (The lowest bidder will be identified who quotes lowest bid value. The Bid Value is inclusion of GST).

#### **27. Award of Contract:**

The Tender Accepting Authority of TNHWCS shall award the Contract to the Bidder who has offered the lowest evaluated Bid value (Total Quoted Value inclusive of GST) and is substantially responsive to the Bidding Document.

## ANNEXURE

## PERFORMANCE SECURITY (FOR ASD ONLY) (IRREVOCABLE BANK GUARANTEE)

To: The Managing Director,  
The Tamil Nadu Handloom Weavers Co-operative Society Limited,  
[Address of Employer] Account No:  
IFSC Code:

### Guarantee Bond

1. In consideration of the President of India (herein after called the "Government") having agreed to exempt \_\_\_\_\_ [hereinafter called, the said Contractor(s)] from the demand, under the terms and conditions of an Agreement dated \_\_\_\_\_ made between \_\_\_\_\_ and \_\_\_\_\_ for \_\_\_\_\_ (here in after called the said "Agreement"), of security deposit for the due fulfillment by the said Contractor(s) of the terms and conditions contained in the said Agreement, on production of a bank Guarantee for Rs. \_\_\_\_\_ (Rupees \_\_\_\_\_ only), We, \_\_\_\_\_, (here in after referred (indicate the name of the Bank) to as the "Bank") at there quest of \_\_\_\_\_ [Contractor(s)] do hereby undertake to pay to the Government an amount not exceeding Rs. \_\_\_\_\_ against any loss or damage caused to or suffered or would be caused to or suffered by the Government by reason of any breach by the said Contractor(s) of any of the terms or conditions contained in the said Agreement.
2. We \_\_\_\_\_ (indicate the name of the Bank) do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Government stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Government by reason of breach by the said contractor(s) of any of the terms or conditions contained in the said Agreement or by reason of the Contractor(s)" failure to perform the said Agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. \_\_\_\_\_.
3. We undertake to pay to the Government any money so demanded notwithstanding any dispute or disputes raised by the Contractor(s)/supplier(s) in any suit or proceeding pending before any Court or Tribunal relating thereto our liability under this present being absolute and unequivocal.

The payment so made by us under this bond shall be a valid discharge of our liability for payment there under and the Contractor(s)/supplier(s) shall have no claim against us for making such payment.

CONTRACTOR

GENERAL MANAGER  
(MARKETING)

4. WE, \_\_\_\_\_ (indicate the name of Bank) further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Government under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till \_\_\_\_\_ Office/Department/Ministry of \_\_\_\_\_ Certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee. Unless a demand or claim under this guarantee is made on us in writing on or before the \_\_\_\_\_ we shall be discharged from all liability under this guarantee thereafter.
5. We, \_\_\_\_\_ (indicate the name of Bank) further agree with the Government that the Government shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said Agreement or to extend time of performance by the said Contractor(s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Government against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the Government or any indulgence by the Government to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating to sureties would, but for this provision, have effect of so relieving us.
6. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s)/supplier(s).
7. We, \_\_\_\_\_ (indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the Government in writing.
8. Dated the \_\_\_\_\_ day of \_\_\_\_\_ for \_\_\_\_\_ (indicate the name of the Bank).



**LIST OF SCHEDULED COMMERCIAL BANKS**

<b>PUBLIC SECTOR BANKS</b>		<b>PRIVATE BANKS</b>	
1	State Bank of India	1	Axis Bank Ltd.,
2	Bank of Baroda (Including Vijaya Bank and Dena Bank)	2	Catholic Syrian Bank Ltd.,
3	Bank of India	3	City Union Bank Ltd.,
4	Bank Of Maharastra	4	Development Credit Bank Ltd.,
5	Canara Bank (Including Syndicate Bank)	5	Dhanalakshmi Bank Ltd.,
6	Central Bank of India	6	Federal Bank Ltd.,
7	Indian Bank (Including Allahabad Bank)	7	HDFC Bank Ltd.,
8	Indian Overseas Bank	8	ICICI Bank Ltd.,
9	Punjab National Bank (Including Oriental Bank of commerce and United Bank of India)	9	Indusland Bank Ltd.,
10	Punjab & Sind Bank	10	Jammu & Kashmir Bank Ltd.,
11	Union Bank of India (Including Andhra Bank and Corporation Bank)	11	Karnataka Bank Ltd.,
12	UCO Bank	12	Karur Vysya Bank Ltd
13	Tamil Nadu Apex State Co-operative Bank	13	Kotak Mahindra Bank Ltd.,
		14	Lakshmi Vilas Bank Ltd.,
		15	Nainital Bank Ltd.,
		16	Ratnakar Bank Ltd.,
		17	South Indian Bank Ltd.,
		18	Tamilnad Mercantile Bank Ltd.,
		19	Yes Bank Ltd.,
		20	Bandhan Bank
		21	IDFC Bank Ltd.,
		22	IDBI Bank Ltd.,

## **GENERAL CONDITIONS**

Bids will be received by the **General Manager (Marketing)** through onsite only up to **03:00 P.M on 24.01.2025** for the work of “**Design, Manufacture, Supply, Delivery, Installation, Testing and Commissioning of 1 no. of 13 persons capacity passenger lift (Stilt + 4 Storied) and Construction of lift supporting steel structure with ACP Cladding in Co-optex Kolam Showroom Building at No.843, Anna Salai, Chennai-02.**”

1. The tenders will be opened by the General Manager (Marketing) through online the date and time aforementioned. The bidders or their agents are watched in the online at the time of opening bids.

2. Tenders must be submitted through online web portal to the General Manager (Marketing). If the tender is made by an individual it shall be signed with his full name and his address shall be given. If it is made by a member of the firm, it shall be signed with the co-partnership name by a member of the firm who shall also sign his own name, and the name and address of each member of the firm shall be given. If the tender is made by a corporation, it shall be signed by a duly authorized officer, who shall produce with his tender, satisfactory evidence of his authorization. Such tendering corporation may be required, before the contract is executed, to furnish evidence of its corporative existence.

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

In the case of proprietary and partnership firm it will be necessary to produce the certificate aforementioned for the proprietors and each of the partners as the case maybe.

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

Tenders received without a certificate as aforementioned will be summarily rejected.

4. Each tenderer must pay, as earnest money, a sum of **Rupees. 47,370 /-** (**Rupees Forty Seven Thousand Three Hundred and Seventy Only**) in the account of the **TNHWCS Ltd ONLINE transaction in e-procurement web portal**. This earnest money will be refunded to the unsuccessful tenderer.

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

5. When a tender is to be accepted, the tenderer whose tender is under consideration the tender inviting authority communicate information in web portal for negotiation. If the tenderer fails to negotiate before the end of the period specified, his tender will not be considered. He shall forthwith upon intimation being given to him by the General Manager (Marketing) of acceptance of his tender make a security deposit (which will be informed later) and sign an agreement in the proper departmental form for the due fulfillment of the contract. This security deposit to get her with the earnest money and the amount withheld according to clause 68 of the Standard

Preliminary Specification of the Tamil Nadu. Detailed Standard Specifications shall be retained as security for the due fulfillment of his contract. If a cash security deposit is made by the contractor he shall follow the procedure laid down on the preceding paragraph for payment of earnest money and such deposit will not bear interest. Failure to enter into the required agreement or to make the security deposit as defined in this paragraph shall entail forfeiture of the earnest money. The written agreement to be entered into between the contractor and The Tamil Nadu Handloom Weavers Co-operative Society Limited shall be the foundation of the rights of both the parties and the contract shall not be deemed to be complete until the agreement has first been signed by the contractor and then by the proper officer authorized to enter into contract on behalf of The Tamil Nadu Handloom Weavers Co-operative Society Limited.

6. The tenderer shall examine closely the Tamil Nadu Detailed Standard Specifications and also the standard preliminary specifications contained therein and sign the Divisional officer copy of the Tamil Nadu Detailed Standard Specifications and its addenda volume in token of such study before submitting his BoQ, unit rates which shall be for finished work in site. He shall also carefully study the drawings and additional specifications, and all documents which form part of the agreement to be entered into by the accepted tenderer. The Tamil Nadu Detailed Standard Specifications and other documents connected with the contract such as specifications, plans descriptive specifications sheet regarding materials etc., **can be seen on or before 24.01.2025, 03:00 P.M at <https://tntenders.gov.in> on at free of cost.**

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

8. Every tenderer is expected, before quoting his rates to inspect the site of the proposed work. He should also inspect the quarries and satisfy himself about the quality and availability of materials. The name of quarries, kilns, etc., where from certain materials are to be obtained will be given in the descriptive specification sheet. The best class of materials to be obtained from the quarries or other source defined shall be used on the work. In every case the materials must comply with the relevant standard specification samples of materials as called for in Standard Specification, or in this tender notice.

The Tamil Nadu Handloom Weavers Co-operative Society Limited will not, however, after acceptance of a contract rate pay any extra charges for lead of for any, other reason, in case the contractor is found later on to have misjudged the materials available. Attention of the

contractor is directed to the standard "Preliminary Specification" regarding payment of seigniorage toll etc.,

9. The tenderer's particular attention is drawn to the sections and clauses in the standard "Preliminary Specification" 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) Accident.
- (7) Delays.
- (8) Particulars of payment.

The tenderer should closely peruse all the specification clauses which govern the rates which he is tendering.

10. Tenders offering a percentage deduction from or increase on the estimate amount and those not submitted in proper form or due item will be rejected. Rates or lump-sum amounts for items not called for shall not be included in the tender. No alteration which made by the tenderer in the contract from the conditions of contract, the drawings, specifications, or quantities accompanying the same will be recognized, and if any such alterations are made, the tender will be invalid.

11. The tenderer should work out his own rates without reference being made to the Public Works Department current schedule of rates or to The Tamil Nadu Handloom Weavers Co-operative Society Limited estimate rates which are not open for inspection by tenderers.

12. The price at which and the source from which certain particular materials shall be obtained by the contractor are given at the end of the schedule accompanying the tender form. Tenderers must accept the materials at these prices, and shall quote their price for finished work accordingly.

13. The attention of the tenderers 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 indicated by the TNHWCS 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 after date of commencement (1)	Percentage of work completed (Based on contract lump-sum amount) (2)
1 <sup>st</sup> Month	30.00%
2 <sup>nd</sup> Month	30.00%
3 <sup>rd</sup> Month	40.00%

14. No part of the contract shall be sublet without written permission of the Engineer -in- Charge nor shall transfer be made by the power of attorney authorizing others to receive payment on the contractor's behalf.

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

16. The General Manager (Marketing) reserves the right to reject any tender or all the tenders without assigning any reason there for.

17. The tenderers, who are themselves not professionally qualified or whether they undertake to employ technical men at their cost to look after the work, should state in clear terms whether they are professionally qualified or whether they undertake to employ technical men required by the departmental specified in the schedule below for the work. In case the selected tenderer is professionally qualified / or has undertaken to employ technical staff under him, he should see that one of the technically qualified staff is always at the site of the work during working hours personally checking all items of works and paying extra attention to such works as may demand special attention, e.g., reinforced concrete works etc.,

18. A tenderer submitting a quotation 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. The tender rates should be based on the controlled price for materials, if any, fixed by Government or the reasonable price permissible for the tenderer to charge a private purchaser under the provision of clause 8 of the Heading and Profiteering Prevention Ordinance, 1943 as amended from time to time and on similar principles in regard to labour and supervision in the construction.

19. The contractor should offer employment to toddy tappers to whom he can offer employment should be mentioned in the tender and he should undertake in the agreement to offer such employment to such number.

20. The fact of submitting the tender implies that the tenderers 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.

21. A statement giving brief particulars of equipment and resources that will be put at the disposal of the work under the following classifications should accompany the tender. Equipment (Transport) for materials, viz., lorries and carts concrete mixers)

- (a) Organization :(i)Technical and (ii) Unskilled.
- (b) Resources in materials like teakwood etc., and extent to which departmental help is required for procurement of material and transport of same.
- (c) Methods that will be adopted to speed up the work to ensure completion within or less than the time fixed for completion.

22. The tender of the contractor who agrees to employ the maximum number of ex-serviceman number to be specified in the tender will receive preferential consideration. The tenderers are requested to report on this their COVERING LETTER.

23. Those who are not registered contractors should invariably attach income-tax clearance certificates with their tenders and registered contractors who had not already produced these certificates in the current year also should do so.

24. The General Manager (Marketing) reserved himself the right of allotting the different sub-works to the different contractors or to one and the same contractors as may decide after the receipt of tenders.

**TENDER**

The General Manager (Marketing), TNHWCS Ltd

Date:

Sir,

I/We do here by tender and, if this tender be accepted under take to execute the following works viz., as shown in the drawing and described in the specification deposited in the office of the TNHWCS with such various by way of alteration of addition to and omission from the said works and method of payment as and when provided for in the conditions of contract for the sum of Rupees or such other sum as may be arrived at under the clause of the Standard Preliminary Specification relating to "Payment on lump-sum basis or by final measurement unit prices.

I / We have also completed the priced list of items in schedule "A" annexed (in words and figures) for which I / We agree to execute the work when the lump-sum payment under the terms of the agreement is valid by payment on measured quantities.

I / We have 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 Detailed Standard Specifications and the Preliminary Specification therein and that I / We have made such examination of the contract documents and of the plans, specifications and quantities, and of the location where the said work is to be done and such investigation of the work required to be done, and in regard to the material required to be furnished as to enable me to thoroughly understand the intention of some of the requirements, covenants, agreements, stipulations and restrictions contained within the contract and in the said plans and specifications and distinctly agree that I / We will not hereafter make any claim or demand upon the Government based upon or arising out of any alleged misunderstanding or misconception or mistake on my / our part of the said requirements covenants, agreements, stipulations restrictions and conditions.

I/We .....being a registered S.C. B. / P. W. D. contractor enclose an income tax verification certificate in respect of (here particulars of the previous have already produced an income-tax verification on which the certificate was produced should be given) I/We enclose here with a chalan for the payment of sum of Rupees.....

If / my our tender is not accepted this shall be returned to me/us on my/our application when intimations is sent to me/us of rejection or at the expiration of three months from the date of this tender whichever is earlier. If/my tender is accepted, the earnest money shall be retained by the Government as a security for the fulfillment of the contract. If upon written intimation me / us by the General Manager (Marketing) I/We fail to attend the said office before the end of the period specified on such intimation, the tender will not be considered and if upon intimation, being given to me/us by the General Manager (Marketing) of acceptance of my/our tender I/We fail to make the additional security deposit or to enter into the required agreements defined in clause 4 of the tender notice, then I/We agree to the for feature of the earnest money. Any notice required to be served on me/us hereunder shall be sufficiently served on me/us if delivered to me/us address given here in. Such notices shall if sent by post be deemed to have been served on me/us at the time when in due course of post would be delivered at the address to which it is sent.

CONTRACTOR

GENERAL MANAGER  
(MARKETING)

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

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

Name	Qualifications

I / We will 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 works and paying extra attention to such works as require special attention(e.g.)reinforce concrete work.

Name of members of technical staff proposed to be employed	Qualifications

NOTE: (a) The last two clause should be scored out if the cost of the work involved is less than Rs.10,000.

(b) The tenders should score out the last clause or the penultimate accordingly as they are themselves professionally qualified or undertake to employ technical staff Under them.

Rate of Progress CONTRACTOR  
(Fill in from Tender Notice)

Extra from schedule of quantities CONTRACTOR  
(Fill in only the table from Tender Notice)



## **SPECIAL CONDITIONS**

1. An attendance register must be maintained at site. The site representative shall sign in the register in token of his presence proportionate penalty will be levied for the days of absence calculating from the penalty for a month.

2As per the G.O.(Ms.) No.555,dt.17.11.1999 of PWD(G2) Department, "On evaluation of tender, it is found that if the overall quoted amount of the tender is less than 5% to 15% of the departmental value put to tender, the contractor shall pay an additional security deposit at 2% of the estimated value put to tender in addition to normal ASD. If the tender discounts exceed 15% to 20% the contractor shall pay an additional security deposit of 50% of the difference between the quoted amount and estimated amount in addition to the normal ASD. Failure to furnish the additional security deposit within 15 days from the date of receipt of acceptance order and execute the agreement shall entail cancellation of award of contract with forfeiture of EMD furnished".

## **GENERAL CONDITION FOR THE TENDER**

1. If any corrections or alternations in the specification are made in the Tender Schedule by the tenderer, such tender will be summarily rejected.

2. The successful tenderer should not assign or sublet any portion of the contract.

3. The contractor shall himself arrange for the necessary installation and supply of electricity power etc., and the water for the work. The department will not incur any expenditure on this account. The charges towards temporary connections for temporary supply of electricity and water shall also be borne by them.

4. Tenderer should thoroughly acquaint themselves with the tender notice drawings, specifications articles of agreement and conditions of contract each tender should contain not only rates but also the value of each item of work entered in a separate column. All the items being totaled in order to show the aggregate value of each tender.

## **5. SPECIFICATION**

Specifications mean the standard specifications of, TNPWD, Highways Department and any particular specifications set out for this particular contract. In the absence of any specification issued by the Department, the specifications issued by the Bureau of Indian Standards or sound engineering practices will apply.

## **6. WORKS COMPRISED IN THE CONTRACT**

This contract comprises the execution and completion of the work described or mentioned in these specifications and in the schedules here to, annexed and shown up on the drawings herein referred to, and all extra works, which may be ordered under the powers herein contained. The drawings, specifications, schedules etc., are to be considered as explanatory of each other and no advantage shall be taken of any omission in any of these documents.

## 7. DISCREPANCIES

Should any discrepancy appear in any of the documents and drawings included in the contract, or between different parts of the same documents or any ambiguity or insufficiency of information, the contractor shall point out the same to the Engineer-in-charge in writing and receive his instruction, explanation or decision in the matter, before quoting the tender.

## 8. OMISSIONS

In the event of anything reasonably necessary or proper to the due and complete performance of the work (of which the Engineer shall be the sole judge) being omitted to be shown or described in the drawings, specification and schedules, the contractor shall execute and provide at the rates quoted in the Bill of Quantities all such omitted works and things as if they had been severally shown and described and according to the directions of the Engineer and to his satisfaction.

9. Reports on the financial standing of the Bidder, such as profit and loss statements and auditor's reports for the past three years

10. Bids from Joint ventures are not acceptable"

11. To qualify for a package of contracts made up of this contracts for which bids are invited in the IFB, the bidder must demonstrate having experience and resources sufficient to meet the aggregate of the qualifying criteria for the individual contracts.

12. Each bidder shall submit only one bid for one contract

13. The Bidder, at the Bidder's own responsibility and risk is encouraged to visit and examine the Site of Works and its surroundings and obtain all information that may be necessary for preparing the Bid and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Bidder's own expense.

14. The unit rates and the prices shall be quoted by the bidder entirely in Indian Rupees.
15. Bid evaluation will be based on the bid prices/ negotiated price.
16. Negotiation is permitted.
17. The General Manager (Marketing) reserves the right to accept or reject any variation, deviation, or alternative offer. Variations, deviations, and alternative offers and other factors which are in excess of the requirements of the Bidding documents or otherwise result in unsolicited benefits for the General Manager (Marketing) shall not be taken into account in Bid evaluation.
- 18 The General Manager (Marketing) has the rights to accept any Bid and to Reject any or all Bids.
19. Mobilization /Secured advance will not be entertained.
20. Selection for qualification will be made by a Tender evaluation committee on the basis of competence of individual bidders.
21. The General Manager (Marketing), The Tamil Nadu Handloom Weavers Co-operative Society Limited, reserves the right to accept or reject any Bid or to reduce the scope, cancel the exercise without having to incur any cost or to assign any reason for its decision to any party whatsoever and The General Manager (Marketing), The Tamil Nadu Handloom Weavers Co-operative Society Limited, decision on qualifying contractors will be final and binding on all the contractors.
24. Any change in the existing levy/charges announced by the Government/ Authorized body from time to time will be recovered from the bill without information.  
(C.E'sCircularNo.4/14/SCB/T.Cell/D1/101812/08Dated:12.6.2014.)

**SPECIAL CONDITION FOR GST**

1. The details of supply of Goods & Services are subject to GST rules applicable with effect from 01.07.2017
2. All the tenderers are requested to submit the GSTIN registration number at the time of tenders or at the time of submitting their invoice / Bill claim, without which the payment will not be paid to the contractor.
3. All the tenderers while quoting the rates should clearly indicate the basic rates and applicable GST separately as per GST rules which are in force.
4. The payment of Goods and services Tax (GST) will have to be made by the procuring entity as specified in G.O. (Ms) No.114, Commercial Tax and Regn. (B1) Department Dated: 22.07.2022 and subsequent amendments, if any, made there after by the GOI / GOTN during the currency of agreement.

**CONDITIONS REGARDING THE SCALE AND QUALIFICATION FOR THE  
EMPLOYMENT OF TECHNICAL STAFF AND THE RATES OF PENALTY FOR  
FAILURE ON THE PART OF THE CONTRACTORS TO EMPLOY THE  
TECHNICALS STAFF SCHEDULE**

Sl. No.	Value of contract	Qualification and No. of Technical Assistants to be employed	Penalty for the failure to employ the technical
1.	Rs.1 lakh to Rs.5 lakhs	One Diploma Holder in Civil Engineering or not less than one retired Junior Engineer	Rs.2,000/- Per month
2.	Rs.5 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 one diploma holder with three years experience	Rs.5,000/- Per month
3.	Rs.10 lakhs to Rs.25 lakhs	One B.E. (Civil) or equivalent degree holder with three years experience in Civil Engineering works or not less than one retired sub-divisional Officer plus one diploma holder in Civil Engineering with three and five years experience respectively.	Rs.7,000/- Per month
4.	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 or (Retired Assistant Executive Engineer) plus two diploma holders in Civil Engineering or two retired Junior Engineers.  <b><u>Alternative:</u></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 BE. (Civil or equivalent degree holder.	Rs.9,000/- Per month  Rs.10,000/- Per month
5.	Above Rs.50lakhs	Three B.E. (Civil) or equivalent degree holder with three years experience or not less than one retired sub-divisional officer and two more B.E.(Civil)or equivalent Degree holder.	Rs.15,000/- Per month

Note: Revised tariff for levy of penalty for non employment of technical Assistant (As per G.O.Ms. No.181 P.W.(G2) Department, Dt:16.05.03)

BRNo.28,dated:05.12.2003

(i) For Diploma holder	Rs.2,000/-per month/each
(ii) For Degree holder	Rs.5,000/-per month/each

I am / we are professionally qualified and my / our qualifications are given below:

Name	Qualification
------	---------------

**[Notary attested copy of certificate should be uploaded]**

**I / we will employ the following technical staff or supervision the work and will see that one of them is always at site during working hours personally checking all items of works and paying extra attention to such works as require special attention (e.g.) reinforce concrete work.**

Name of members of technical Staff proposed to be employed	Qualifications
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**[Notary attested copy of certificate should be uploaded]**

Note:-

12. The last two clause should be scored out if the cost of the work involved is less than Rs.10,000/-
13. The tenders should score out the last clause or the penultimate accordingly as they are themselves professionally qualified or under take to employ technical staff under them.

Rate of Progress  
(Fill in from Tender Notice)

**CONTRACTOR**

Extra from schedule of quantities  
(Fill in only the table rom Tender Notice)

**CONTRACTOR**

**SPECIAL CONDITION**

As per the Government order No.283, Public works (G2) Department, dated: 21.05.1999 the shrinkage period will be One year from the date of completion in order to watch the effect of all seasons on the works. An amount at the rate of 5% of every RA Bill will be withheld as Retention amount. Accordingly after completion of work, a sum equivalent to 5% of the value of work done from the contractor's bill will be retained for the above period for the due fulfillment of contract for all works. Further the contractor should furnish an Indemnity Bond for a further period of four years to indemnify TNHWCS for any defects noticed. After retaining as stipulated and stated above, the balance amount such as E.M.D. and A.S.D will be returned only after the expiry of six months from the date of completion. However the contractor can produce irrevocable bank guarantee for the value of withheld amount in the final bill till the completion of one year from the date of completion.

**ARBIRATION CLAUSE**

The arbitration for fulfilling the duties set for thin the arbitration clause of the standard preliminary specification shall be

Claims upto Rs.10,000/-

General Manager (Marketing), TNHWCS

Claims upto Rs.50,000/-  
Claims aboveRs.50,000/-

Managing Director, TNHWCS

Court of Law under jurisdiction of Chennai City

**GENERAL CONDITIONS**

1. The General Manager (Marketing), TNHWCS Ltd Chennai-02 reserves to himself the right of rejecting all or any of the tenders without assigning any reasons whatsoever for so doing or of accepting a tender in parts.
2. Any tender not received in proper order as per department schedule and according to instructions, given in the notice and in due time is liable to be rejected.
3. All the materials used and the work done must be of the best quality and upto the departmental specifications and should be got approved by the Engineer in charge of the work.
4. The tenderer is requested to state clearly whether he has the machinery and staff ready to commence the work immediately upon acceptance of his tender.
5. The contractor will be permitted to do work at nights, subject to the availability of department staff for supervision but no extra rate will be allowed on account of over-time wages cost of lighting or on any other account.
6. The successful tenderer should not assign or sublet any portion of the contract without the written permission of the Engineer in Charge.



**Special Condition Regarding Employment of Labour**

**Employer Means Managing Director, TNHWCS or any other authorized persons and Contractor means successful Tenderer or the Agency with whom agreement is signed.**

**LABOUR:**

The contractor shall, unless otherwise provided in the contract, make his own arrangements for the engagement of all staff and labour, local or other, and for their payment, housing, feeding and transport.

The contractor shall, if required by the Employer, deliver to the Employer a return in detail, in such form and at such intervals as the Employer may prescribe, showing the staff and the numbers of the several classes of labour from time to time employed by the contractor on the site and such other information as the Employer may require.

**COMPLIANCE WITH LABOUR REGULATIONS:**

During continuance of the contract, the contractor shall abide at all times by all existing labour enactments and rules made there under, regulations, notifications and bye laws of the state or Central Government or local authority and any other labour law (including rules), regulations, bye laws that may be passed or notification that may be issued under any labour law in future either by the state or the central Government or the local authority. The contractor shall keep the Employer indemnified in case any action is taken against the employer by the competent authority on account of contravention of any of the provisions of any Act or rules made there under, regulations or notifications including amendments. If the employer is caused to pay or reimburse, such amounts as may be necessary to cause or observe or for non-observance of the provisions stipulated in the notifications/bye laws/Acts/Rules/regulations including amendments, if any, on the part of contractor, the Employer shall have the right to deduct any money due to the contractor including his amount of security deposits in any form. The Employer shall also have right to recover from the contractor any sum required or estimated to be required for making good the loss or damage suffered by the Employer.

The employees of the contractor in no case shall be treated as the employees of the Employer at any point of time.

**Contractor's Risks**

All risks of loss of or damage to physical property and of personal injury and death which arise during and in consequence of the performance of the contract are the responsibility of the contractor.

In addition to the conditions stated in TNDSS clause 42, the contractor shall register the names of all labours engaged by him / her for this work with the appropriate Agencies as notified from time to time as per the rules and laws in force. He shall

take all preventive measures in the Execution of works to safe guard the lives of the labours engaged. The contractor will be solely held responsible for any act of negligence in protecting the lives of the labours engaged.

### **Insurance**

The Contractor shall provide insurance cover from the start date incomplete shape to the Employer concerned.

A: Till the handing of the Project for,

- a. Loss of or damage to the Works, plant and Materials.
- b. Loss of or damage to Equipment.
- c. Loss of or damage of property (except the works, Plant, Materials and Equipment) in connection with the contract; and.

B. Till the completion of works

- a. personal injury or death of the labour and staff engaged by the contractor.

Policies and certificates for insurance shall be delivered by the contractor to the Employer for the Employer's approval before the 1<sup>st</sup> payment from TNHWCS. All such insurance shall provide for compensation to be payable in the types and proportions of currencies required to rectify the loss or damage incurred.

If the contractor does not provide any of the policies and certificates required, the Employer may effect the insurance which the contractor should have provided and recover the premiums the Employer has paid from payments otherwise due to the contractor or, if no payment is due, the payment of the premiums shall be a debt due.

Alterations to the terms of insurance shall not be made without the approval of the Employer.

## CONDITION FOR LIFT

1. The Tender should be valid for 90 days from the date of opening

2. SECURITY DEPOSIT:

The successful Bidder should however pay the Security Deposit amount indicated in the LOA (Letter of Acceptance) the time of signing the contract in the shape of demand draft or unconditional and irrevocable Bank Guarantee etc., on the standard format enclosed to the Bid schedule for a total period not less than the stipulated period of the completion of the work, plus six months.

3. The price quoted should be inclusive of the following items:

- a) All the Steel items required for complete erection including Steel for Erection of Lift machinery in the Lift machine room.
- b) Sill angles and fascia plates including civil works.
- c) Minor builder Works like
  - (i) Cutting and making good of holes for grouting the Brackets etc. in the Lift Shaft machine room and pit.
  - (ii) Provision of Slots for Landing Push Button and indicators etc.
  - (iii) Concreting for the Buffer Block and machine beams.
- d) Scaffolding.
- e) Labours killed and un-skilled.
- f) All the other items required for erection, completion and commissioning of the Lifts.
- g) Monthly free servicing and free Break down Call Service during the one year guarantee period.
- h) The Cost of Tools Required for Maintenance.
- i) The amount of GST available at the current rates should be furnished clearly.

4) a) The Tenderers are advised to have a free Inspection of the site before Tendering.

b) The complete requirement of the tenderers which they considered should be done by the Department including Civil work etc., should be given in the Tender. Any piece meal requirement will not be entertained during the execution of work.

c) The following Tests and any other Tests prescribed by the ISI should be carried out in the completed Lift installation before it is handed over. The firm will provide the necessary Test weight and all the instruments.

(1) Test to determine the insulation resistance between line and earth.

(2) Test to determine proper functioning of brake system, control equipments. Door locks and all safety devices.

- (3) Test to determine that the earthing of conduit switch and similar Metal works are continuous.
- (4) Test to determine Lift Car raises and Lowers at rated Load.
- (5) Test to determine that the Lift Car Achieves the contracts peed.
- (6) Test to determine that the safety gear stops the Lift Car with Rated Load. Over load tests shall be made with ropes attached and all the Electrical apparatus Operative except the over speed switch on the Governor. The Stopping distance of the Lift Car is the actual slide as observed as marking on the Guide.

## 5) TERMS OF PAYMENT:

(Term of payment applicable based on the specification which was in the tender schedule whether for I or II).

### I For Lift

The payment will be made as follows:

- 1) 40% value of work against receipt of entire materials at site. The documents such as Gate pass etc., shall also be produced.
- 2) 40% value of work of the contract will be paid on completion of the erection work (i.e.) commissioning and handing over of the Lift to the Department in Satisfactory working condition.
- 3) 15% of value of work will be paid on the production of CEIG certificate of safety.
- 4) Balance 5% of the contract value will be released after the expiry of 12 months from the date of handing over to the department.
- 5) The EMD and ASD paid by the tenderer will be released after the expiry of 12 months from the Date of commissioning and handing over to the department. The retained amount of 5 % (Five percent) will be returned to the contractor at the end of the period of 1 Year (One year) as per the above Government Order. Further, the contractor should furnish an Indemnity Bond for the further period of 4 Years (Four years).

### II For Maintenance of Lift

- 1) The Maintenance charges will not be paid for the 2 years (i.e., Two years free maintenance beyond the free warranty period of one year from the date of commissioning handing over of lifts to the department)
- 2) The tenderer should be a manufacture of passenger lift and they should produce the manufacturers certificate issued by the government.
- 3) GST: The tenderers are requested to include the GST in their offer. If not included in the offer then following figure should compulsorily be furnished in the offer.
  - a. The GST items and their costs.
  - b. Tariff value of the GST components.

CONTRACTOR

GENERAL MANAGER  
(MARKETING)

c. Percentage and amount of GST

d. Any statutory variation in GST will be paid etc., proof.

e. The Tenderer should produce documentary evidence for the quantities of GST

whenever required by the Electrical Engineer.

8. GUARANTEE:

- a) The Lift should be guaranteed against faulty design, materials manufacture and workmanship for a period of 12 months from the date of handing over Lift in perfect working condition. If the Lifts go Out of Order during the Guarantee period the Guarantee period will be extended by the period during which the Lift is out of order and not functioning.
- b) The Guarantee should cover replacement of defective parts, lubricating the parts, during the Guarantee period. Transport charges for taking the defective material to the company / Factory and bringing them back to the site should be to the account to the contractor.

9) FREE SERVICING:

- c) The Lift should be thoroughly serviced regularly every month during the Guarantee period of 12months. Break down Calls should be attended to immediately FREE of CHARGE during the Guarantee period. The Tenderer is capable in ensuring required after Sales Services must be stated.
- d) Firm having full fledged Service station in the city or nearby will be preferred. The location of the Service Station should be stated.

10) PERIOD OF COMPLETION:

- a) The successful Tenderer should submit the G.A. Drawings within 1<sup>st</sup> month from the date of receipt of LOA (Letter of Acceptance) formal supply order in consultation with the undersigned and get the approval of the G.A. Drawings within one week from the date of submission of G.A. Drawings from the undersigned by specially deputing a responsible person. The correspondences by post in this regard should be totally avoided.
- b) Materials should be supplied within 2<sup>nd</sup> month from the date of approval of G.A. Drawings. Erection shall be completed within 2<sup>nd</sup> month from the date of readiness of the Lift shaft and Lift machine room and work should be completed within stipulated completion period.
- c) The extension of time if required to complete the work should be obtained by indicating the reasons for the delays and that any period not covered by the extension of time will be treated as unauthenticated calling for penal action.
- d) Proper evidence should be produced by the firm to the satisfaction of the Superintending Engineer, whenever Force adheres conditions arise.

11 a) Those accepting Department terms of payment, validity, Guarantee and completion period alone need quote. Otherwise the tender will be summarily rejected.

b) Only the tenders, complete in all respect for all items of works will be considered.

c) Tenders received in time alone will be considered. The telegraphic offer will not be considered. The Postal Tenders, should be registered and received on or before the Last

CONTRACTOR

GENERAL MANAGER  
(MARKETING)

Date Fixed for receipt of Tenders in person.

## 12. INCOMETAX CLEARANCE CERTIFICATE:

The tenderers are advised to enclose a XEROX copy of the Latest Income Tax Clearance Certificate along with the Tender.

- a. The turnover of the previous years must also be furnished.
  - b. Previous experience installing the Lift if any and if so, the Capacity of the Lift with Consumers full Address and performance certificate should be furnished.
  - c. The Leaflets, literature of the Lift equipment's should also be enclosed.
13. Printed conditions enclosed to the Tender should be score dout and initialed where ver not Applicable with respect to this specific tender.
  14. AnyTenderClarificationaffectingthepricestructureafterTenderopeningwillnot Considered.
  15. The Tenderers are requested to go through the enclosed specifications carefully and offer their as per the proposal made therein for the complete JOB. The tenders for a portion of the work will not be considered and Tenders must be in full conformity with those specifications (Without any deviation).If the Tenderers wish they might submit any number of alternative offers with complete details.
    - a. The tenders must be submitted through electronically before 12.00Noon on the date mentioned. The tenders will be opened on the next day by 3.30 PM.
  16. The Department reserves the right to reject any or all the Tenders received without assigning any reasons.
  17. The detailed of size, Weight of steel, Members such as sill projection, sill angles machine, beam, Door frames buffer support channel, facial plate etc. should be included in the main offer. If the above are necessarily required completing the erection, according to the Tenderers design.
  18. The details of Motor as stated be low must be furnished in the Tender.
    - a. Type of motor (Squirrel Cage OR Slip Ring)
    - b. Torque develop and H.P.rating of the motor.
    - c. Starting and full load current.
    - d. Method of Starting.
    - e. Type of enclosure.
    - f. Type of Gearing.
  18. Complete description of the Architraves offered should be furnished.(if necessary)

20. The proposed Lifts should be erected in the Lift Shaft made of R.C.C. work with brick masonry No. Self-supporting structure for the Lift Shaft is needed.

21. SCAFFOLDING:

The Tenderers are requested to include the rate in their offer for scaffoldings required, during the time of erection.

22. TOOLS AND SPARES:

The Tenders must include for necessary Tools and plant that may be required for the maintenance of the plant for two years. List of Tools included must be furnished.

The offer must SEPARATELY furnish rate for spare parts that may be required for two years period, apart from guarantee period. The list of Spares that are included in the offer should also be furnished.

All the Tenderers Even must comply with the requirements if some have all-in-service facilities.

23. ELECTRICAL WIRING:

The Electrical works should be done as per the Latest Indian Electricity rules. They should include Bus Bar arrangements main earthing as per I.S.S and necessary switches etc.

24. TRAININGTHEDEPARTMENTALPERSONS:

The Tenderers should be ready to train the "Departmental persons in the operation, maintenance and fault detection in the Lift during the Erection period and Servicing periods also Tenders without this facilities are liable to be rejected.

25. The Lift offered should be confirm to the I.S.I Standard I.S. 14665 (Part I to Part V) with respect to the Car dimensions and with respect to the installation, Operation and maintenance of the Lifts and IS.4289-2000with respect to the Lift Cables and amendment thereon.

26) a) All the Iron and Steel members including equipment's shall be painted with 2 coats of Anti corrosive paint over one coat of Red Oxide.

b) One set of Blue print Drawings and connecting Drawings shall be framed and fixed in the machine rooms and another set should be handed over to the Divisional Office P.W.D for record.

c) The controller should been closed type.

d) Three sets of Electrical Wiring and Layout drawings should be furnished to the Department (Prepared as per I.E. Rules) for obtaining CEIG, approval.

e) Erection work should be carried out with full co-operation of the Occupying Department and to the entire satisfaction of the Department.

## 27) GENERAL CONDITIONS:

Unless other-wise specified the conditions put forth in the General Specification for the Electrical Works and the Special Conditions for the Electrical Works P.W II (1) and P.W. II(2) will hold good.

- 28) Any Damage of disfiguring caused by the Tender to the Building during the execution of the work should be made good at the Tenderer's cost.

## 29. Recovery of Dues under Revenue Act:

Whenever any amount has to be paid by the contractor in View of Determination of the contract by virtue of clause 57.4 or any amount that may be due or may become due from the contractor under these presents and the contractor is not responding to the demands for the payments of the said amount then the Government shall entitled to recover the said amount under the provision of the Tamil Nadu Revenue Recovery Act. 1864. (Tamil Nadu Act. V. of 1864).

## 30. GST Clearance Certificate.

The tenderers are advised to enclose a Xerox copy of their latest GST clearance certificate along with the tender.

## 31. Special Conditions:

- a) Tenderer should have branch office and maintenance facilities at Chennai.
- b) The tenderer should have minimum three years experience in this field with the same type of elevators.
- c) Tenderer should be the manufacturer of lift.



CONDITIONS ERECTION / MAINTENANCE / INSPECTION / TESTING

1.
  - I. This certificate is valid for a period of two years and shall be returned to Chief Inspector of Lifts and Escalators for renewal along with application for the purpose three months before the expiry of validity.
  - II. In the event of the holder of registration failing to get the registration renewed in the said manner before the date of expiry, the registration shall become void and fresh registration shall have to be obtained.
2. The firm/company holding this registration can undertake the work of erections, additions or alterations of Lift.
3. The holder of this certificate of registration shall be in possession of the latest copy of Tamil Nadu Lifts and Escalators Act, 1997 and Tamil Nadu Lifts and Escalators Rules, 1997 and relevant specifications and code of practices of Bureau of Indian Standards.
4.
  - I. It shall be the responsibility of the person authorized to ensure that all materials, fittings, appliances, equipment etc used in the lift which he undertakes to erect/add/alter conform to the relevant specifications as laid down by Bureau of Indian Standards.
  - II. All the works for erection / addition / alteration of Lift undertaken by the holder of this certificate of registration shall be done as per the provisions of the Lifts and Escalators Rules and the holder there of shall be responsible for proper erection.
5. The holder of this certificate of registration
  - I. shall maintain a register of technical personnel employed by him for erection and that register shall be produced for inspection on demand by Chief Inspector of Lifts and Escalators and Inspector of Lifts and Escalators or any other person authorized by him in this behalf.
  - II. Shall maintain a register of lifts erected indicating the date of commencement of completion.
  - III. The list of lifts erected as on 31<sup>st</sup> March of every year after the receipt of the approval, shall be submitted before 30<sup>th</sup> April of the year to Chief Inspector to Lifts and Escalators and Inspector of Lifts and Escalators and the Inspector of lifts of the District/Area concerned.
6. Any change in address of the place of business of the holder of this certificate of registration shall be communicated to Chief Inspector of Lifts and Escalators and Inspector of Lifts and Escalators within 2 weeks of such change. Any change of Agent or Manager, if any shall be similarly notified within 15 days of such change.

7. Permission to erect a lift or for making addition or alteration to existing lift should be arranged to be obtained from Inspector of Lifts of District concerned.
8. Before commencement of the work of erection, addition to or alteration to a Lift installation, intimation shall be given to Inspector of Lifts of concerned district within 7 days from the commencement of work.
9. On completion of the erection works completion report should be sent to the Inspector of Lifts and Escalators for obtaining the license and lifts should be commissioned only after obtaining the license.
10. A record of tests carried out during initial erection and tests carried on the lifts installation shall be recorded in a register to be maintained for the purpose by the holder of this certificate and every such report shall be produced to the Inspector of Lifts and Escalators concerned during the Inspection.
11. The holder of this certificate should mention the approval registration number with its validity in all their correspondence to this office and to any Inspector of Lifts and Escalators and only the authorized signatory shall sign in all the correspondences
12. The holder of this certificate should depute one of his authorized Representative Engineer to be present at the time of inspection by the Inspector of Lifts and Escalators or his representative of the Lift Installation erected by him.
13. If there is change in ownership or the name and style in which the approval is granted then the holder of the certificate shall seek fresh certificate of authorization.
14. At least 3 persons who are ordinarily the occupants or residents of premises in which the lift is to be installed, shall be trained by holder of this certificate of registration in respect of rescue operation in case of power failure.
15. The holder of this certificate of registration shall report the occurrence of any fatal or non-fatal accident in writing to Chief Inspector of Lifts and Escalators and the Inspector of Lifts and Escalators concerned within 24 hours of the occurrence of such accident.
16. The group Insurance Scheme/ Workman compensation policy for the employees should be kept alive.
17. No lifts or escalators erection work / Addition/Alteration work should be taken in the building or premises where in the local body approval was not obtained.
18. All the lifts / Escalator to be maintained without any break down for which AMC was executed.
19. Issue of Duplicate Copy of Certificate of Registration:
  - I. A duplicate copy of certificate of registration will be issued on the request made by the applicant in case of loss of original certificate, to the satisfaction of Chief Inspector of Lifts and Escalators.

- II. On issue of duplicate copy of certificate, the original certificate shall be deemed to be invalid and if found shall be returned to Chief Inspector of Lifts and Escalators.

20. If the holder of this certificate is found to be guilty of negligence or incompetence or in case of breach of the provisions of the Tamil Nadu Lifts and Escalators Act, 1997 and Tamil Nadu Lifts and Escalators Rules, 1997 and the above instructions contained in this registration or for the malpractice or misconduct or misbehavior or any other reason in public interest, the Chief Inspector of Lifts and Escalators may suspend or cancel the approval after giving show cause notice.

#### ADDITIONAL CONDITIONS FOR COMPREHENSIVE AND FREE MAINTENANCE OF LIFT SAFETY TESTS AND PLANNED MAINTENANCE

The Tenderer should periodically examine safety devices and governor of the equipment to ensure user safety in addition the tenderer should conduct and annual load safety test on the equipment.

Tenderer will in accordance with their terms should regularly examine, lubricate and adjust the equipment and generally carry out planned maintenance in a systematic and controlled manner using Tenderer developed techniques and expertise. The frequency of examination will depend on the type of equipment and its location.

#### WORK SCHEDULE:

All the maintenance work and service provided in this agreement are to be performed during normal working hours on normal working days. Additional costs incurred in carrying out work for emergency purpose will not be charged as extra for the overtime premium hours.

#### SPECIAL CONDITION:

Within the warranty period Tenderer should replace the damaged or non-proper functioning of spare parts without any delay or reasons as instructions given by the departmental officers. The Non-availability of spares parts is not a acceptable reasons, Hence the tenderer should replace the spare parts without any delay.

#### REPAIR OR REPLACEMENT OF SPAREPARTS:

Repair or replace any parts detailed in the following section which in its opinion are defective. Parts will be replaced on an exchange basis under which the replaced parts become the property of the Tenderer.

Renew all wire ropes and chains (where fitted) as often as required to maintain an adequate factor of safety. To equalize the tension on all hosting ropes, repair or replace conductor cables and hoist way and machine room elevator wiring.

#### EQUIPMENT OF SPARES COVERED FOR ANNUAL MAINTENANCE:

1) Machine worm gear 2) Thrust bearings 3) Motors heave 4) Motor bearings 5) Brake contact 6) Linings and components 7) Governor 8) Governor sheave 9) Shaft assembly 10) Bearings 11) Contacts 12) Governor jaws 13) Car and hall mechanical buttons 14) Car and hall position indicator 15) Hall lanterns 16) Car direction indicators 17) Car and landing signal fixtures 18) Deflector or secondary sheave, 19) Bearings, 20) Car 21) Counterweight guide rails 22) Buffers 23) Top and bottom limit switches 24) Governor Tension sheave assembly 25) Compensating sheave assembly including rollers of gibes 26) Car counter weight guide shoes 27) Interlocks on hoist way door 28) hoist way door hangers 29) car door hanger 30) Car door contact safety shoe 31) load weighing equipment 32) Car safety mechanism 33) Switches 34) Travelling Cables 35) Controller Drive with unit 36) Hoist way and machine room equipment.

#### EXCLUSIONS OF SPARE PARTS:

Car enclosure, door panels, hung ceiling, car gates, light diffusers, light bulbs, fluorescent tubes, handrails, stators, chokes, mirrors, floor coverings, carpets, other architectural features, hoist way enclosure, hoist way gates, door frames, door, sills, batteries, security system.

#### ACCESS, LIGHTING VENTILATION:

The Tenderer representatives maybe permitted to take a free and unhindered access to the equipment and the landing, lobbies and machine room associated therewith and all areas mentioned herein. In the interest of safety of equipments and its users the customer shall not director permit there pair, alternation, replacement or any interference with any of the equipment or any part of thereof, of any items specified herein, by any person or organization by the Tenderer.

The customer will provide the machine room with adequate lighting, cooling, moisture control, and or ventilation as may be required in the judgment of Tenderer to assist its mean in providing the work set out hereunder in enhancing the effective operation of the equipment.

TECHNICALDETAILS

1) Lift Motor	Capacity	Make	Insulation Class	RPM	
2) Gear:	Make	Ratio	Wheel dia		
3) V3F Unit:	Make	Model	Performance chart		
4) ARD:	Make	Model	Battery Type	Battery Make	AH
5) Ropes		Size	Make		
	Car				
	C. Weight				
	O.S.G.				
6) Car fittings:		Make			
	Fan 400mm				
	Light Fixture				
7) Cables/ Wires:		No. of Cores	Make	Size	
	Trailing Cable				
	Control wires				
8) a) Tools List:	Enclosed				
b) Spares:	Enclosed				

CONTRACTOR

GENERAL MANAGER  
(MARKETING)

9) Basic Price	
E.D	
GST	
Cost of Motor	
Gear	
ARD	
V3F	
Installation Charges	

SUMMARY SCHEDULE  
(To be furnished by the Tenderers)

- |    |  |   |         |
|----|--|---|---------|
| 1. | Is the offer is in Conformity with the departmental, technical Specification.  | : | Yes /No |
| 2. | Brand name and capacity/size of components proposed to be used.<br>(a)<br><br>(b)<br><br>(c)   | : |         |
| 3. | Completion Period<br><br>a. Time required for the supply of materials .....  | : |         |
|    | b. Time required for the execution of work .....   | : |         |
|    | c. Total completion period.  | : |         |
| 4. | Is the tenderer agree able for the departmental terms of payment.  | : | Yes /No |
| 5. | Is the tenderer agreeable to furnish 2%of the contract value as Security Deposit in the shape of NSC, Small Savings Scripts / Deposits / Accounts. | : | Yes /No |
| 6. | Is the tender valid for 3 months.  | : | Yes /No |
| 7. | Is the latest income tax clearance certificate enclosed.   | : | Yes /No |

CONTRACTOR

GENERAL MANAGER  
(MARKETING)

SUMMARY SCHEDULE  
(To be furnished by the Tenderers)

- |     |  |   |         |
|-----|--|---|---------|
| 8.  | Is the quoted price inclusive of GST<br>(Specify the amount of GST)    | : | Yes /No |
| 9.  | Is the quoted price inclusive of minor<br>Builder work required.       | : | Yes /No |
| 10. | Is the quoted price inclusive of<br>scaffolding required for the work. | : | Yes /No |
| 11. | Is the quoted price firm until the<br>completion of work.              | : | Yes /No |
| 12. | Is the tenderer agreeable for the<br>departmental penalty clause.      | : | Yes /No |



## PARTICULARS TO BE FURNISHED BY THE TENDERER.

1. Name of Tenderer with Address :
  
2. Name of Work :
  
3. Date of Tender :
  
4. Total value of Tender :
  
5. Details of EMD enclosed & its validity :
  
6. Registered class of the tenderer with Monetary limit & Department in which registered(Copy of registration should Be closed) :
  
7. Recent work executed (Name of work, place of work value of work should be Mentioned) :
  
8. Works under execution (Name of work, place of work value of work should be mentioned) :
  
9. Command of labour in brief :
  
10. Turnover in previous Year :

CONTRACTOR

GENERAL MANAGER  
(MARKETING)

11. Whether Income Tax clearance Certificate enclosed. If not when It will be produced.

12(I).GST Registration Number :

(II)Whether GST clearance certificate is enclosed. If not, when it will be produced. :

13. Technical Assistant Details :

I(I ) Name :

(ii) Qualification(copy should been closed) :

(iii) Experience certificate :

II (I)Name :

(ii) Qualification(copy should be enclosed):

(iii) Experience certificate :

(or)

(i)Name

If retired electrical Engineer, Designation:  
& date of retirement.  
(Copy to been closed)

14. Any other details :

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

### **SPECIAL CONDITION FOR THE 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 installing I.S.8732/1963 and I.S.3045/1965 and as amended up to date. All installation shall comply with the requirement of Indian Electricity Rules 1956 and Act and I.S. code amendment up to 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 works by the contractor based on the description of the Executive Engineer-in-charge and this decision will be final.
3. Bad workmanship is liable to be rejected in total.
4. The contractor shall supply on completion of work, completed plan along with insulation, polarity and earth test reports before the installation is to be handed over to the Executive-in-charge in good condition in triplicate. The tests should be carried out in the present of Engineer-in-charge at contractor's cost.
5. All repairs and patch works 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 arrangements at his own cost for all general T & P and special 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 installation (completed works) is handed over to the Department after obtaining the service connection from Electricity Board and testing the line. Any loss and tampering of materials for which the payment was made by the department, shall be made good by the Contractor at his own cost.
8. Issue of the materials to the Contractor wherever stipulated shall 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 works and the safe custody till completion of the job is the responsibility of the contractor.
10. All 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, carrying of conduits for recessed portion shall be planned together with the building progress so that there is no hindrance to the building 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 Executive Engineer-in-charge.
13. The wiring route shall be marked at site first and get approval from the Executive Engineer- in - charge before commencement of actual work. The work must be carried out as directed by the Executive Engineer - in - charge.
14. In place, where electrical conduits required to place through wall / RCC column/ beam etc., the conduit shall be laid during the execution of work in consultation with the Engineer-in-charges so as to avoid the need for cutting the structure at a later stage.
15. The teak wood materials such as fillets specials T.W. boxes and all materials shall be got approved from the Engineer-in-charge before use to ensure the quality of materials.
16. In the case of recessed conduit works, the M.S. Boxes shall also be recessed and covered with 1/8" (3mm) hylem bake lite sheet. The thickness of M.S. Box sheets shall not be less than 3mm thick.

#### **PROVISION OF FITTINGS**

17. All switch boards shall be placed such that the bottom is normally 1.22 meters above floor level or such height as decided by the Engineer- in- charge.
18. All fittings shall be provided at 2.6 metre from the floor level or such height as decided by the Engineer - in - charge.
19. The convenient 5/15 amps plug socket shall be 23 cm above the floor level or such height as decided by the Engineer - in - charge.
20. Wiring shall run normally at 2.6 metres from the floor level or such height as decided by the Engineer - in - charge.
21. The materials issued if any by the department to the contractor the cost will be recovered at the stores issue rates. 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.
22. Tools and Plants generals and special as required on the work is to be arranged by the contractor at his own cost.
23. Brass tinned link / joint clips of 0.32mm (30 gauge) thick up to 40mm length and 0.40mm (28 gauge) thick above 40mm length and of 8 mm width shall be used on the work.

24. Brass hinges brass hooks and eyes, single plank teak wood board 60mm minimum depth in case of open wiring and minimum depth of 100mm in the case of concealed wiring and not less than 6mm thickness shall be used on the works.

### **FIXING OF WOODEN BATTERNS**

25. The screws shall be used for fixing the wooden battern and accessories at an interval not exceeding 50cm. The thickness of batterns shall not be less than 10mm.
26. The clips are provided on the wooden battern with screw / pins and spaced at an interval of 15cm both in the case of horizontal and vertical run.
27. The round block shall not be less than 75mm and 40mm deep and fixed by means of 2 Nos. of screws.
28. Piona type switches, sockets outlets of approved make wherever needed shall be used for recessed boards after getting the approval of Engineer-in-charge.
29. Only brass screws shall be used for fittings, switches, plug and sockets main boards and distribution boards and teak wood accessories etc., required for wiring.
30. All conduit pipe shall be of approved gauge (not less than 16 SWG 14 SWG) solid drawn or lap welded finished with galvanized stone enameled finish. The saddles used shall not be less than 24 gauge up to 25mm dia pipes and not less than 20 gauge for longer dia pipes.
31. The main earthing lead shall not be less than 8 SWG copper (4.06 mm) in case of copper wire earthing of 6 SWG G.I. Wire (4.98 mm) in case of G.I. wire earthing separate earthing shall be provided for all mountings of main boards, distribution boards, 5/15 amps C.S. plugs sockets with not less than 14 SWG of copper (2.03mm).
32. Earthing shall conform to the relevant I.S. code 303 / 1966. The G.I. pipes earth electrode system is adopted. G.I. pipes shall be of medium class 38/40mm dia 3.75 meters long. The electrode shall be buried in the ground vertically with its top not less than 20cm below ground level. Normally an earth electrode shall provide 1.5 meters away from any building. In case of providing twin earthing the distance between the earth pits shall be 10'0" alternative layers of charcoal or coke and salt of minimum 15cm thick are to be provided from the bottom of earth pit up to 1 meters below ground level and the masonry work is to be carried out in brick with cement mortar 1:4 (One of cement and four of sand) above the last layer and the top is to be covered by suitable cast iron frame and cover.

33. The staircase light point wiring must be done by looping or piece wire system and switch must control phase or line wire only.
34. Looping in system is to be adopted for wiring normally the looping of neutral to light fan plug points etc., shall be restricted to 3 points for a single wire from the switch board.
35. The wooden battern and specials shall not be butt jointed and joints should be lap jointed.
36. The wiring must be done using bend and corners wherever necessary sharp banding or cabling must be avoided.
37. The lighting circuit shall not have more than 10 points or a load of 800 watts whichever is less. In exceptional cases the lighting circuit shall not have more than 8 points.
38. Power wiring shall be kept separate and distinct from the lighting wiring.
39. The contractor should be present at the premises at the time of effecting service connection by the Electricity Board authority and afford all facility for testing and commissioning the installations.
40. The apartment main switches and the main switches at the Electricity Board Service connection should be numbered in paint for easy identification and the damager boards should be provided wherever necessary according to the I.E. rules and indications.
41. The Contractor should provide sufficient leads for connecting the main switches to meters and cuts provided by the Electricity Board at his own cost.
42. 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 boards wherever necessary to avoid short circuiting the system.
43. The scaffolding and the shed required for the Electrical installation works should be put up by the contractor at his own cost.
44. The run off mains relates to the mains run from the buss bar to distribution board or buss bar main switches as the position indicated in the electrical layout. The point wiring shall include mains taken from distribution board or main switch to board. The main for this shall not be measured and paid. The run off mains relates to the mains run from the main switches provided inside the apartments to the Electricity Board authorities. The earthing for the main switches provided in the service connection board should be properly interconnected and connected to the main earthing system.

45. Each circuit has to be taken from the D.B. by separate independent conductor / separate group of wires from D.B. and they could be distinctly visible. The wiring must be done if there is no D.B. with distributed circuits as directed by the field staff.
46. For temporary supply if any required by the contractor himself should supply to M.E.S. and obtain the supply at his own cost.
47. PVC pipes and specials M.S. Boxes etc., if available with the department the same may be supplied for works at recovery.
48. The contractor should prepare necessary electrical systematic layout drawing at this own cost and get approval from the Chief Electrical Inspection to Government, Madras - 2 and the permission to enlarge the same from the CEIG (Madras -2).
49. The Contractor shall use only the brand of material that are approved by the Engineer - in - charges.
50. The Electrical installation to be carried out as per the specification and it confirmed to I.E. rule.
51. The Electrical contractors should hold either "A " grade license (or) "B" grade license issued by the Electrical wireman and supervisor contractor licensing Board.

**FOR CONTRACTOR'S SPECIAL ATTENTION**

1. Clean fresh water and rivers and shall be used in all cases.
2. Only clean fresh water shall be used on the work. The Contractor shall make his own arrangement for water and shall meet all charges therefore. The special attention of the contractor is drawn to clause 36 of the Preliminary Specification in the T.N.D.S.S. regarding water and lighting.
3. The broken stone for concrete and R.C.C. work should be of granite as passed by the Executive Engineer.
4. 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 give a priming coat of approved red lead paint without claim or extra.
5. All fittings and furniture of doors and windows shall be of best quality steel machine made and well happened. The iron holdfasts shall be built up in the walls in cement mortar 1:3 at the time of construction of wall no extra claims shall be due for the same. Wherever holdfasts are to be provided 9" thick walls, these should be fixed with C.C. 1:3:6 using 3/4" size hard broken granite stone jelly proper anchorages and for proper binding. No separate rate for such of concrete filling at hold fasts point will be allowed and this will be measured as masonry along with adjacent masonry.
6. Holes and chases for electric wiring, water supply and drainage etc., shall be provided as directed during progress of work without any claim for extra.
7. The work shall be carried out with the least hindrance to the adjoining buildings and officers and the contractor will be responsible for any damages, caused to the existing fixtures, electric fitting etc., in the course of execution and the contractors shall make good any such damages without any claim the extra.
8. In the case of 'T' beams and 'L' beams, the quantities given in the schedule is the quantity of rib portion only. The top flange portion will be always measured with the general slab portion and paid for at the slab rate only. For all R.C.C. work the rate shall include the treatment of bearing as per plate W.No.2 of 1946 as per M.D.S.S. (Page 52 of 952 edition.)
9. Plastering all external corners, edges of beams, edges of doors and windows, openings etc., shall be finished sharp using richer mortar if necessary and also finished truly vertical or horizontal as the case may be the rate of plastering shall include the cost of finishing as above and no separate rate for finishing the corners, edges of beams, etc., will be paid.



10. Fixing iron bars to windows: The methods of measurements for this item of work shall be area of the window frames.
11. If rates are not separately called for similar items of work in different floors the contractor should note one rate applicable for all the floors indicating in the detailed plans. Any claim for extra rates for such items floor-wise will not be entertained under any circumstances.
12. The revised preliminary specification of the T.N.D.S.S. are applicable of the contractor as per G.O.2659 P.W.D. dated 23-12-79.

### **ADDITIONAL SPECIFICATION**

1. The planks for forms and centering for R.C.C. works shall be of well-seasoned timber approved by the Executive Engineer according to Clause (10) of M.D.S.S. No.30. They must be made smooth and perfectly level at top so as to give smooth and even finish to the R.C. Ceilings. Alternatively the contractor may use steel sheets over wooden form provided the required finish to the under-side of the slabs is obtained. Mango planks shall not be used under any circumstances. Centering and forming shall be provided to the extent and as ordered by the Executive Engineer during the execution.

1. All cement concrete for R.C.C. work shall be machine mixed and vibrated.

2. All lime mortar shall be ground in mortar mill as per M.D.S.S.

3. (a) M. S. Steel rods should be cut and placed as reinforcements with proper care according to the available rods at site so as to ensure the minimum possible wastage.

b) The cut bits shall be to the account of the contractors themselves and the same will not be taken back.

c) For the quantity of steel issued in excess of 5% over and above theoretical requirements and not returned to the Department in good condition, penal recovery will be made at double the issue rate, in addition to the normal recovery rate.

4. For the quantity of cement issued in excess of the theoretical requirement with an allowance indicated in the circular cited above and not returned to the department in good condition, penal recovery will be made at double the issue rate, in addition to the normal recovery rate.

<b>Value of works</b>	<b>Percentage of allowance</b>
UptoRs.2.00lakhs	5%(Five)
UptoRs.2.00lakhstoRs.5.00lakhs	4%(Four)
AboveRs.5.00lakhs	3%(Three)

5. If at any time subsequent to the execution of this agreement, department, materials other than those specified in the agreement are supplied to the contractor for

use on the work, they will be charged at the market value prevailing at the time of supply or stock issue rates whichever is higher.

The contractor will be informed in writing of this charge and he should intimate in writing the rate which i.e., demand for finishing the work in view of the fact that he is to use department materials. No centage or incidental charges will be borne by the Government in connection with the supply of the materials.

## **ADDITIONAL CONDITIONS I AND II**

1. The materials noted in the list enclosed will be supplied departmentally at the work site stores and their cost recovered from the contractors bills at issue rates noted against each.

2. The contractor shall be responsible for safe custody and storage of the materials under dry conditions at the place where the works got approved by the Engineer -in- Charge.

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

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

5. The contractor's special attention is invited to clauses 35, 36 of Appendix of the P.S. to T.N.D.S.S. and he is requested to provide at his own expense sheds, latrines and urinals for his workmen.

6. If night work is required to fulfil the agreed rates for progress, all arrangements shall be made by the contractor inclusive of lighting without any claim for extra rate.

7. The contractor shall not employ the labour below the age of 12 years and shall also note that he must offer employment to ex-serviceman, ex-toddy tappers and unemployed agricultural labourers as far as possible.

8. Payment will be made on detailed measurement. Any of the items in the schedule may be omitted or radically altered, no variation in the rate shall become payable to the contractor on account of such omissions or variations in quantity.

9. Reference to T.N.D.S.S. No. in the schedule quantities referred to reprint 1952 and addenda and corrigenda issued thereafter.

10. The contractor shall abide by the contract labour regulation formed by the Tamil Nadu Government.

11. The contractor shall at his own expense provide or arrange for provision of foot wear for any labour doing cement mixing work and all other similar types of works involving the use of tar, mortar, etc., to the satisfaction of the Engineering chief and on

His failure to do so Government shall be entitled to provide the same and recover the cost from the contractor.

12. When there are complaints of non-payment of wages to the labour, bills of the contractor, may be with held pending a clearance certificate from the labour department.

### **SPECIFICATIONS FOR SANITARY FITTINGS DRAINAGE AND WATER ARRANGEMENTS**

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

2. The rates shall include all dismantling making holes in walls of slabs and restoring the structures to the original conditions after the completion of the work.

3. The work shall be carried out with least hindrance to the adjoining building and the contractor shall be responsible for any damages caused to the existing fixtures, electric fittings etc., in the course of execution and the contractor shall make good any such damages without claim for extra.

4. The rate of laying stoneware pipes shall include necessary earthwork excavation for trenches (irrespective of nature of all incidental charges such as shoring strutting and bailing out water refilling trenches) after the completion of works and consolidating, removing the surplus earth to places shown within compound and making good the damages to roads and other structures.

5. The rates for laying C.I. Pipes and G.I. Pipes shall include earthwork for trenching and refilling them and fixing with plug, clamps and screws where the pipes are fixed to walls the rates for G.I. Pipes shall also include wrapping them with tarred tape where they are buried in earth tarring the portions embedded in masonry and painting with white lead paint, two coats for portions above ground level.

6. The clamps for G.I. Pipes fittings should not be spaced more than 6 feet apart, the wooden plugs for pipe and bracket fittings should be properly fixed in cement mortar 1.3 in holder make, in masonry with the wide end of wedge plugs inside and no hammered with them and into the walls. The size of plugs should not less than 1" square at this end and 1 1/2" at the other end with depth of not less than 3".

7. Painting with two coats of best white paint (or any other colour approved by the Executive Engineer) over a priming coat of red lead to all flushing tanks, brackets clamps used for fixing pipes) and all lead connections. Painting with two coats of anti corrosive paint of approved colour to all C.I. Soils waste and anti syphonage pipes.

8. The rates shall include all dismantling making holes in the slabs and restoring the structure to the original condition after the completion of the work.

## **SUPPLYING AND FIXING INDIAN TYPE WATER CLOSETS**

1. The Indian type water closet shall be fixed in position at floor level in a bed of concrete brick jelly in lime mortar the proportion being 32:12 1/2 so as to completely embed the closet trap and foot rest. The existing masonry structures after dismantling the floor, making the holes, etc., shall be restored to its original condition after completion of the work. The flooring around the closet shall be finished off in cement mortar 1:3, 1/2" thick with adequate slope around for draining into the closets. The foot rest should be fixed at an angle shown in sanitary Engineer's type designs.

2. The cast iron flushing tank shall be of three gallons capacity of Indian make of approved brand supported G.I. brackets with necessary G.I. chain and handle for pull float ball valve 1/2" lead and brass connections to the closet including necessary connection to the water main and closet complete and wiped solder joints. The flushing tanks and bracket must be painted with white glazed enamel paint 2 coats over a priming coat of red.

3. The fixing of water closets shall include the dismantling of existing floors wherever indicated making holes in masonry walls etc., and restoring structure to original condition after completion of the work. The flushing tank and accessories will be fixed to the walls with necessary clamps and brackets in cement mortar 1:0.

## **SCHEDULE "D"**

Applicable to all cases of works where a minimum of fifty workers are employed except works relating to roads, channels and canals.

### **FOR THE PROVISION OF HEALTH AND SANITARY ARRANGEMENT FOR WORKERS**

The contractor's special attention is invited to clauses 35, 36, 42 (60) & 48 of the Preliminary Specification of the Madras Detailed Standard Specification and he is requested to provide at his own expense the following amenities to the satisfaction of the Superintending Engineer.

#### **1. FIRST AID:**

At the work site there shall be maintained in a readily accessible place, first aid appliances and medicines including as 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:

1. Water of good quality fit for drinking purposes shall be provided for the work people on a scale of not less than 8 gallons per head per day.
2. Where drinking water is obtained from an intermittance public water supply, each work place shall be provided with storage tank where such drinking water shall be stored.
3. Every water supply storage shall be at a distance of not less than 50 ft, from any latrine drain or other source of pollution. Where water has to be drawn from an existing well which is within such 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 well shall be entirely closed in and be provided with a trap door which shall be dust and water proof.
4. 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 atleast once a month.

## 3. 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.

## 4. LATRINES AND URINALS:

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

	<b>Seats</b>
(i) Where the No. of persons employed exceed 50	2
(ii) Where the No. of persons employed exceed 50 but Does not exceed 100	3
(iii) For every additional 100	3

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 latrine shall be provided with receptacle on dry earth system which shall be cleaned atleast four times daily and atleast twice during working hours and kept in a strictly sanitary condition. The reacceptances shall be tarred inside and outside atleast once a year.

The excreta from the latrines shall be disposed off at the contractor's expenses to the out way pits approved by the local public health authority. The contractor shall also employ adequate No. 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, rest 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 for the use of children under age of 5 years belonging to such women. One hut shall be used for infant's games and play and the other as their shed room. The huts shall not be constructed on a lower standard than following.

- a. Thatched Roofs.
- b. Mud floors and walls.
- c. 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. CANTEENS:**

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

#### **8. SHED FOR WOMEN:**

The contractor should provide at his expense sheds for housing his work men. 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, floor area of about 6' x 5' for 2 person shall be provided. The sheds are to be in rows with 5ft, clear space between rows if conditions could permit. The work people camp shall be laid out in units of 400 persons each unit to have cleared a space of 40 ft, all rounds.

## CONDITION REGARDING CONTRACTOR'S RISK AND INSURANCE

The second para in clause 47 of the Preliminary Specification to T.N.D.S.S. is not operative and stands cancelled.

## CLAUSES REGARDING ENGAGEMENT OF APPRENTICES

1. The contractor shall comply with the provisions of the Apprentices Act 1961 and the rules & orders issued there under from time to time. If he fails to do so, his failure will be a breach of the contract and the competent authority, may at his discretion cancel the contract or invoke any of the penalties for the breach of contract provided in the agreement. The contractor shall also be liable for pecuniary liability arising or account of any violation by him of the provisions of the Act.

2. Contractor shall during the currency of the contract ensure engagement of the apprentices in the categories mentioned below who may be assigned to him by the Director of Employment and Training / State apprenticeship Adviser, Tamil Nadu. The contractor shall train them as required under the Apprentice Act 1961, and the rules made there under, and shall be, responsible for all obligations of the employer under the said Act including the liability to make payments to the apprentices as required under the said Act.

Sl.No.	Value of Contract	Category	No. to be appointed
1.	Rs.1 lakhs and upto Rs.3 lakhs	1. Building Constructor	1
		2. Brick layer	1
2.	Above Rs. 3 lakhs and Upto Rs.10 lakhs	1. Building Constructor	1
		2. Brick layer	1
		3. Diploma holder in Civil Engineering	1
3.	Above Rs. 10lakhs and Upto Rs.50 lakhs	1. Building Constructor	1
		2. Brick layer	1
		3. B.E.(CIVIL)or Equivalent degree holder	1

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

**TAMIL NADU HANDLOOM WEAVERS CO-OPERATIVE SOCIETY LIMITED****CONDITIONS FOR LIME**

1. The lime shall be burnt from shells, lime stone or kanker as specified and shall be carefully free from earth impurities.
2. The process of burning shall be carried out in such kilns and with such fuel of the Engineer -in- Charge may approve.
3. In all cases, the lime shall be delivered at the site of the mortar mill quite fresh, i.e., within seven days of the date on which it was drawn fresh from the kiln. In case where compliance herewith is not possible due to seasonal closure of kilns, written permission of the Engineer -in- Charge is necessary before stored slacked lime can be used.
4. The lime shall be slacked, if so required in the presence of a departmental representative before being put into the mill. All impurities, ashes, or pieces improperly or carelessly burnt shall be screened or picked out before slacking and removed at once from the work.
5. The lime shall then be screened through sieve of such size as the Engineer -in- Charge may direct and all stuff that will not pass through the sieve shall be rejected. In the absence of separate orders under this clause a wire screen of 94 meshes to the square inch shall be used, except for plastering second and third coats or for any fine work defined accordingly by specification in which case the lime is to pass through a sieve of 324 meshes to the square inch.
6. Lime which has perished or which has been damaged by damp, rain or inter mixture of dirt, or which has become partially air-locked, shall on no account be used on the works but shall be removed at once from the site. Lime which given a residue of more than 10 percent by weight when tested hydrochloric acid shall be rejected.
7. Lime is to be obtained from the source defined in the Descriptive Specification sheet.
8. The Lime at work site is to be protected from weather action by being kept in a weather proof shed with impervious floor and sides.
9. When time permits, the following test is to be made for stone limes:

The lime to be tested shall be passed through a sieve having 64 meshes per square inch. Briquettes shall be made of 1 lime 2 sand adding sufficient water to the lime till a stiff paste is formed, this stiff paste is to be well pressed down into the mould, which is to rest on a sheet of glass. The upper surface of the mortar in the mould shall be struck off level with a trowel. The mould shall then be laid aside till the briquette attains initial set. After this period, the briquette (still in the mould) shall be placed in wet sand for two days to allow it to get gradually. It shall then be taken out of its mould, placed in water for 25 days taken out and allowed to dry for 24 hours and then finally



tested. The briquette, which is to have cross sectional area of one square inch, should take a minimum tensile strain of 20 lb. If less than this the Engineer -in- Charge shall have the right to reject the lime, and the contractor shall then remove the rejected materials at once from the work site.

NOTE: The two general classes of lime are:

(a) Fat limes: and (b) Hydraulic limes. Shell lime comes under class (a) and is largely used for plaster and whitewash limes from kankar and limestone come under class (b) and should always be used for masonry work unless written permission of the Engineer -in- Charge has been given to the use of shell lime.

Non hydraulic lime mortar should not be used in well locations. Works which are likely to be exposed to the action of water within a month from date of completion should be constructed with a cement mortar or a surki mortar if the latter is found to be sufficiently hydraulic.

10. Vide instruction in note 2 under 'Materials' which shall apply.

#### DESCRIPTIVE SPECIFICATION SHEET

Sl. No.	Materials	Sources from where item is to be obtained	Approximate Lead
1.	Sand for mortar		
2.	Sand for Filling		
3.	Hard broken stone of different sizes Rough Stone and Bond Stone		
4.	Brick, Brick jelly flat titles, square titles, pressed titles etc.,		
5.	Gravel		
6.	Lime		

**BRAND NAMES OF THE PAINTS TO BE USED FOR THE  
CONSTRUCTION OF SLUM TENEMENTS**

Sl.No.	Name of the Paint Company	Brand Name of the Paint class	
1.	British paints	...	Parrot
2.	Asian paints	...	Three Mangoes
3.	Goodlass	...	Glossolite
4.	Jonson and Nicholson	...	Jensolin
5.	Shalimar	...	Durolac
6.	I.C.I.	...	Duwel
7.	Blundel	...	Kingla

**SCHEDULE 'B'**

**LIST OF DRAWINGS**

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Serial Number	Drawing Number	Description	Remarks
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