



GOVERNMENT OF TAMILNADU PUBLIC WORKS DEPARTMENT

Office of the Executive Engineer, P.W.D.,
Buildings (Construction & Maintenance) Division ,
Pudukkottai

TENDER DOCUMENT

Name of work	:	CONSTRUCTION OF VETERINARY DISPENSARY BUILDING AT ARASADIPATTI IN PUDUKKOTTAI DISTRICT.
EMD	:	Rs.27,500/-
Tender shall be submit on or before 3.00pm. on	:	09.06.2022

முக்கிய அறிவிப்பு

முன்வைப்புத் தொகையை தேசிய சேமிப்புப் பத்திரங்களாகத் தருவதாய் இருந்தால் டெண்டர் அறிவிப்பில் தெரிவித்தபடி குறிப்பிடப்பட்டுள்ள செயற்பொறியாளர் பெயருக்கு அடமானம் செய்த பின்னரே டெண்டருடன் இணைக்க வேண்டும். அடமானம் செய்வதற்கான விண்ணப்பத்தில் கையொப்பமிட்டால் மட்டும் போதாது. தவறினால் கண்டிப்பாக டெண்டர் கணக்கில் எடுத்துக் கொள்ளப்படாது, உடனடியாக தள்ளுபடி செய்யப்படும்.

(ஓம்/-----)
செயற்பொறியாளர், பொபது
கட்டடம் (க&ப) கோட்டம்
புதுக்கோட்டை

ANNEXURE
PARTICULARS TO BE FURNISHED BY THE TENDERER

1. Name of the tenderer and address :
2. Name of work
3. Date of tender :
4. Total value of tender :
5. Details about E.M.D. enclosed for this
tender and its validity :
Including the Goods and Services Tax
(GST) Amount
6. Registered class of the tenderer with
monetary limit and department in which
registered. Certified copy of the
registration should be attached. :
7. Recent work (details about name and
place of work, value of the work etc.,
should be furnished) :
8. Works under execution (details about
name and place of work value of the
work etc., should be furnished) :
9. Command of labour in brief :
10. Turnover of previous year (Particulars
for a period of three consecutive years
to be furnished) :
11. Whether Income Tax clearance certificate
is 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. In case of registered co-operative
societies they should furnish name of
the nominee with their credential details
at the time of tender itself. They should
also certify, that the nominee of the
society is not a registered contractor
in the Dept. :

14. TECHNICAL ASSISTANT DETAILS

1. Name :

Qualification certificate

Experience certificate :

2. Name :

Qualification certificate Experience
certificate :

OR

1. Name :

If retired Civil Engineer, Designation
and date of retirement (copy to be
enclosed) :

15. Any other details :

NOTE : *The consent letter from the Technical **Assistant proposed to be employed** should be obtained and enclosed with the tender.*

DECLARATION TO BE GIVEN BY THE UNEMPLOYED ENGINEER

1. Name :
2. Address :
3. Age :
4. Native place :
5. District :
6. Qualification :
7. Year of passing :
8. No. of years of employment :
9. Name of the Division in which
registered as an unemployed Engineer :
10. Date of registration :
11. Class of contractor :
Monetary Limit
12. Previous experience in year
 - a) Irrigation b) Head works
 - c) Building d) Bridges
 - e) Others

(Details with regard to name of work, nature of work etc., may be furnished in a separate sheet)

Contracts	Name of work	Value of work	Period of work	Nomination of tender
(1)	(2)	(3)	(4)	(5)

13. Annual turnover for first three years :
14. Solvency / Immovable / Cash :
15. Tools and Plant owned :
16. Was there any default in fulfilling terms
of contract and result and penal action :
17. Special remarks if any :

Station :
Date :

Signature and name of the
Unemployed Engineer

**ADDITIONAL GENERAL CONDITIONS (i.e.) IN ADDITION TO GENERAL CONDITIONS TO
CONTRACT APPENDED WITH T.N.B.P.**

1. POSTAL TENDERS :

- 1.1) The contractor may have the option to present the tender directly or to send registered post acknowledgement due; on or before the last date for receipt of tenders.
- 1.2) In case of sending tenders by registered post acknowledgement due it is the responsibility of the
tender himself to dispatch the tender sufficiently early so as to reach the tender opening authority
before the date and time notified in the tender notice for opening of tenders.
- 1.3) No representation appeal of any kind will be allowed against belated receipt of tenders by post
beyond the notified date and time or loss in transit etc.

2. E.M.D

The acceptance of EMD in various approved forms duly pledge in favour of the Executive Engineer concerned is subject to the specific condition that the successful tenderer should pay the Security Deposit (including E.M.D) in the form of small savings scripts\ deposits\Accounts in lieu of other mode of payment for E.M.D. If offering Indravikas patras, the Contractor should note his name in the back side of the said patras and to furnish a letter stating that he is submitting the Indravikas patras of such Indira Vikas Patras will only be taken for calculation.

3. SECURITY DEPOSIT :

In case of contracts for Buildings works the Security Deposit (i.e., 2% of the value of contract minus the E.M.D. already remitted) will be collected at one time only. equivalent to 2% of the contract value including GST Amount)

The Security Deposit can be paid to the contractor asking them to invest the amount so paid in small savings scripts and to hand over to the Executive Engineer concerned by pledging them in his favour, subject to the condition that unless the contractor remit the security deposit in small savings scripts (which will be returned after observing the rules in force), their further bill to the work carried out by them will not be paid.

Additional security deposit will have to paid by successful tenderer if called for,

Irrevocable bank guaranty in the prescribed form shall be accepted towards security deposit retention money also (G.O.Ms.No.283/PW(G2)Dept./Dt.21.05.99).

4. SALES TAX :

The Tenderer shall quote the rates and prices (both in figures and words) for all the items of the Works described in the Bill of Quantities **excluding GST** along with sum of the quoted tender value **excluding GST** at the end (both in figures and words).

Contractor

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Buildings (C&M) Division,
Pudukkottai

5. WITHHELD AMOUNT :

The withheld amount at 5% percent be recovered from each bill based on the value of work done.

6. CLAIMS OF CONTRACTORS ON ACCOUNT OF LOSSES DUE TO UNPRECEDENTED FLOODS

AND OTHER ACTS OF GOD :

The work executed by the contractor under this contract shall be maintained at the contractor's risk until the work is taken over by the Executive Engineer. The Government shall not be liable to pay for, any loss of damages occasioned by or arising out of fire, flood, volcanic eruption, earth quakes, other convulsions of nature and all other natural calamities, risks arising out of acts of God during such period and that the option whether to take insurance coverage or not to cover such risks is left to the contractor.

7. STANDARD SPECIFICATIONS :

For detailed description of various items of work to be executed in addition to the brief description given in the schedule and for the rights and obligations of the Contractors etc, the attention of the contractors is invited to Tamil Nadu Building practice which should be followed in all respects both in letter and spirit. The materials used, the workmanship, the mode of execution of the work etc., should conform to relevant specification of TNBP or Indian Standard Specifications as may be specified.

8. SAFETY CODE :

The safety measures and all amenities for the labours shall be made by the Contractor at his cost as indicated in the safety code vide appendix to General Conditions to Contract and clause 34,35 and 42.1 to 42.6 of General Conditions to Contract.

9. RETENTION OF 2½% FOR ONE YEAR :

In case of contract for construction of building either permanent or semi Permanent buildings, a sum equivalent to 2½ % of the value of work done will retained with the Government for a period of one year reckoned from the date of completion of the work in order to enable the departmental officers to watch the effect of all seasons on the work done by the contractor. The amount so retained with the Government will be refunded, only on expiry of one-year period referred to above and on execution of indemnity bond by the contractor for further period of four years.

The contractor shall be liable to set right all defect arising out his faulty Execution of sub standard work notice during the above five years period at his cost **(G.O.Ms.No.283/PW(G2) Dept. / Dt.21.05.99).**

In addition to the aforesaid security deposit, retention amount shall be deducted from the running account bills, a sum equivalent to 5% (Five Percent) of the total value (including the Goods and Services Tax (GST) Amount for all the running account bill) of each bill as retention money

Out of the 5% retention amount, 2½ % (Two and half Percent) of the total value of the work so far executed will be released to the contractor on payment of final bill, and in the final bill, the Goods and Services Tax (GST) amount retained in previous payment has to be released to the contractor without interest .

And the balance 2½% will be retained for a period of one year reckoned from the date of completion of the work, as all defects shall have been made good according to the true intent and meaning hereof, whichever shall happen last

The retention money of 2½% including GST (Two and a Half Percent) of the total value of contract after deducting any amount due to the Department, shall be refunded to the Bidder without interest after the defects liabilities attached to the contract is over.

**Contractor
Contractor**

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Pudukkottai**

GOVERNMENT OF TAMIL NADU

PUBLIC WORKS DEPARTMENT

Office of the Executive Engineer, P.W.D.,

Buildings (Construction & Maintenance) Division, Pudukkottai

Name of work: : **CONSTRUCTION OF VETERINARY DISPENSARY
BUILDING AT ARASADIPATTI IN PUDUKKOTTAI
DISTRICT.**

Last Date for receipt of tender : **09.06.2022 upto 3.00 pm**

Date and time of opening : **09.06.2022 at 3.30 pm**

E.M.D. to be remitted : **Rs.27,500/- (Rupees Twenty seven thousand and five
hundred only) Tax
(GST) Amount**

Mode of E.M.D. to remitted: In the shape of Demand draft of the Nationalized and Scheduled banks drawn in favour of Executive Engineer concerned and National Saving script / Deposit / Accounts of postal Department pledged in favour of the Executive Engineer concerned.

Note :

- 1. The tender document and E.M.D. should be enclosed and covered with sealed. Tenders not submitted in sealed cover will be summarily rejected.*
- 2. The rate In words and figures for each item of schedule should be furnished by the tenderer without fall In appropriate columns. Corrections scribbling overwriting and erasing (should be avoided as far as possible) should be attested by the contractor.*
- 3. The total value of each Item of work should be worked out and entered in the amount column. Proper care must be taken in working out the value of each item of work taking Into account the unit for which the rate is quoted and the quantity of work to be done under the Item.*
- 4. The total of each page should be noted at the end of each page and carried over to next page. The grand total value of the tender should be worked out and furnished at **the** end, both In. words and figures.*
- 5. The Tenderer shall quote the rates and prices (both in figures and words) for all the items of the Works described in the Bill of Quantities **excluding GST** along with sum of the quoted tender value **excluding GST** at the end (both in figures and words).*
- 6. The Tenderer shall quote the rates excluding GST for the quantity and units specified under metric units under schedule.*

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Pudukkottai**

FOR SPECIAL ATTENTION OF THE TENDERER

1. Proof of registration in P.W.D. as a contractor shall be attached with the tender.
2. Current Income Tax clearance certificate shall be enclosed with the tender,
3. The Tenderer should furnish the „**Copy of Goods and Services Tax (GST) Registration No.**
4. E.M.D. will be accepted in the shape of chalan, Deposit at call receipt, Demand Draft of the Nationalized and Scheduled banks drawn in the name of Executive Engineers concerned and National Saving Scrip/Deposit/Accounts of Postal Department pledged in favor of the Executive Engineer concerned Indravikas patras are acceptable. The tenderer should write in the back of Indravikas Patra his name and address. He should also give an undertaking to the Executive Engineer in writing that the Indravikas patras bearing relevant register number are submitted as E.M.D. No other mode of payment will be accepted.
5. The successful tenderer should convert the E.M.D. already deposited and additional security deposit if any required for the fulfillment of contract into National Savings Certificates / Accounts pledged in favour of the Executive Engineer concerned,
6. The following particulars shall also be furnished by the contractor along with the tender.
 - a) List of details of works executed by the contractor with their value.
 - b) A list of details of work under execution by the contractor with their values.
 - c) Annual turnover of the last one year (necessary certificate to the effect issued by the respective bank shall be attached)
7. The tender documents will be issued to the contractors registered in Public Works Department in the appropriate class.

Contractor

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Executive Engineer,PWD,
Buildings (C&M) Division,
Pudukottai**

SPECIAL INSTRUCTION TO THE TENDERERS

1. The Tenderer should carefully go through the tender schedule and quote their rates for all items.
2. The rates should be filled in neatly in figures and in words and taking into account the metric units specified in the tender, scribbling, over writings and erasing should be avoided as far as possible.
3. The amount of each item of work should be worked out. Proper care must be taken in working out the amount of each item of work taking into account the unit for which the rate is quoted and the quantity of work to be done under the item.
4. The total for each page should be arrived at and, carried out to every page and the grand total value of work should be worked out and shown at the end. And the Tenderer shall quote the rates and prices (both in figures and words) for all the items of the Works described in the Bill of Quantities excluding GST along with sum of the quoted tender value excluding GST at the end (both in figures and words).
5. The tender should be submitted along with a covering letter giving full details, as called for in the tender notice together with the copy of letter registering them into the appropriate class.
6. In case the tenderers who are eligible for confessional Earnest Money Deposit and accordingly they should furnish the reference No. and date in which the concession was granted to them. A copy of the aforesaid reference may be enclosed along with the tender for ready reference.
7. Income tax clearance certificate for the current year should be submitted along with the tender or the tender in which the Income Tax clearance certificate for the current year was submitted to this office should be specified.
8. Details of previous work done by the Tenderers covering the cost of the work, the agreement, No. date, department in which the work was carried out, etc., should be furnished so as to assess the previous experience of the tenderers. Year wise details should be furnished so as to see that these tenderers have minimum experience of major building.
9. List of various machinery and other equipments at the tenderers disposal for use in the execution of the work, should be furnished.
10. The TENDER form should be filled in while submitted the tender. The tenders submitted without filling up the tender form are liable to be rejected.
11. The tender must be submitted in a sealed foolscaps cover duly signing all the conditions.

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Add New Conditions for Goods and Services Tax (GST)

The Government of India has notified vide Notification No. 20 / 2017 – Central Tax (Rate), dated 22nd August, 2017 and Notification 21 No.24 / 2017 – Central Tax (Rate), dated 21st September, 2017, the concessional rate of the Goods and Services Tax (GST) at 12% [CGST at 6% + SGST at 6%] is leviable for any Government Contract, whether Civil or Electrical, irrespective of the Goods and Services Tax (GST) rate applicable on purchase of goods used in the execution of Government Contract.

And the GST amount will be calculated at 12% from the sum of total tendered value quoted by the tenderer for construction cost (excluding GST) specified in the BOQ, Subject to GST rate applicable from time to time as recommended by the GST Council

“All duties, taxes, and other levies except GST, payable by the contractor under the contract, or for any other cause shall be included in the rates, prices and total Bid Price submitted by the Bidder”

INPUT TAX CREDIT (ITC)

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

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

c) As per PWD Revised SOR (2017-18), dated 21.10.2017, under General Note, 8 (ix), the Contractor is eligible to get refund of excess tax paid over or liable to pay tax for this Contract Work.

TOTAL TENDER PRICE

7. The total tender price will be the cumulative of value quoted for construction (Total Basic Rate + GST),

The amount of EMD is fixed at 1% of the contract value of work put to tender (including the GST Amount)”

NEGOTIATIONS

The lowest tenderer will be identified who quotes lowest total tender price which including GST as per the clause Negotiation of rates will be made only with the lowest tenderer for reducing the quoted rates and the negotiation will be made for the rates quoted to the items in the construction part alone and not for GST amount.”

“After negotiation with lowest tenderer, the GST amount will be recalculated at 12% of the sum of the Negotiated tender value (excluding GST) for construction Cost specified in the BOQ, subject to GST rate applicable from time to time as recommended by the GST Council

AWARD OF CONTRACT

To be substantially responsive to the bidding documents and who has offered the lowest evaluated total tender price (Total Quoted Value including the Goods and Services Tax (GST) Amount).

MINIMUM CRITERIA FOR QUALIFICATION

The Applicant should produce Income Tax Clearance Certificate valid for the current period, „VAT“ Verification Certificate (i.e. previous assessment year) and „TIN“ number having validity and copy of Goods and Services Tax (GST) Registration No.

Contractor

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Executive Engineer,PWD,
Buildings (C&M) Division,
Pudukottai

APPENDIX - 1

TENDER NOTICE

(As amended in CO. M.S. No. 618/PW. Dt. 30.04.85)

on behalf of the Governor of Tamilnadu, Tenders will be received by the Executive Engineer, PWD, Buildings (Construction & Maintenance) Division, Pudukkottai, at his office upto **3.00 PM on 09.06.2022** for the work of **Construction Of Veterinary Dispensary Building at Arasadipatti in Pudukkottai District**. The tenders should be in the prescribed form obtainable from **Executive Engineer's office P.W.D. Buildings (Construction & Maintenance) Division P.W.D. Pudukkottai**. The tenders will be opened by the Executive Engineer at **3.30 P.M.** on the same day at the place aforementioned.

1. The tenderers or their agents are expected to be present at the time of opening of tenders. The tender receiving officer will on opening each tender prepare a statement of the attested and unattested corrections therein and hand it over to the tenderer concerned and initial all corrections in the presence of the tenderers. If any of the tenderers or their agents finds it inconvenient to be present at the time, then in such a case, the tender receiving officer will on opening the tender of the absentee tenderer, make out a statement of the unattested corrections and communicate it to him. The absentee tenderer shall then accept the statement of the corrections without any question whatsoever.
2. Tenders must be submitted in sealed covers and should be addressed to the Executive Engineer, P.W.D. Buildings (Construction & Maintenance) Division, Pudukkottai. the name of the tenderer and name of the work being noted on the Cover. 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 firm it shall be signed with the copartnership, name by a member of the firm who shall also sign his 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 authorised officer who shall produce with his tender, satisfactory evidence of his authorisation. Such tendering corporation may be required, before the contract is executed, to furnish evidence of its corporate existence.
3. Each tenderer must also send a certificate of Income Tax Verification from the appropriate Income Tax authority in the form prescribed therefore. The certificate will be valid for one year from the date of issue for all tenders submitted during the period.
4. In the case of proprietary or partner firm it will be necessary to produce the certificate aforementioned for the proprietor or proprietors and for each of the partners as the case may be.
5. If the tenderer is a registered Public Works Dept. 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 occasions on which the said certificate was produced, are given.
6. All tenders received without a certificate aforementioned will be summarily rejected.
7. Each tender must pay an Earnest Money, Deposit a sum of **Rs.27,500/- (Rupees Twenty seven thousand five hundred only)** either in the form of N.S.C. pledged in favour of the **Executive Engineer. P.W.D., Buildings (C&M) Division, Pudukkottai** or in any other form as may be approved by the State Govt. from time to time as per para 155 of T.N.P.W.D. Code. This E.M.D. will be refunded to the unsuccessful tenderer on application after intimation is sent of rejection of the tender or at the expiration of three months from the date of tender whichever is earlier. The refund will be authorized by the Superintending Engineer / Executive Engineer. The E.M.D. will not be received in cash or currency notes by the PWD Officers.

8. The EMD should be remitted in the shape of Small savings scripts, Deposits , Pass Books NSC KVP. If the Earnest money is remitted in the shape of National savings certificates and KVP., it must be Pledged In favour of the concerned Executive Engineer. **If the EMD in the shape of NSC or KVP is not pledged in favour of Executive Engineers concerned, the tender will be summarily rejected.**
9. **The EMD will not carry any interest. It will be dealt with as provided in the tender.**
10. The acceptance of EMD in various approved forms duly pledged in favour of the Executive Engineer concerned is subject to the specific condition that the successful tenderer should pay the Security Deposit including EMD in the form of small savings scrip. Deposits account in lie of other mode of payment made for EMD before acceptance of the tender.
11. The tender will remain valid for a period of 90 days from the last date of receipt of tender. The validity period can be extended further if the contractor gives his consent in writing specifying the period of extension.
 - i) The tenderer whose tender is under consideration, shall attend the Superintending Engineer's office before the end of the period specified by written intimation to him. In case, the tenderer fails to attend the office before the end of the specified period, his tender will not be considered. He shall forthwith upon intimation being given to him of acceptance of his tender, by the officer duly authorised in his behalf under article 299 (1) of the constitution hereinafter called "The accepting authority," make security deposit of 2% of the value of contract in one of the forms prescribed in Tamilnadu Public Works Account Code (ie) by taking into account of the amount of EMD already deposited with the tender it would be sufficient to pay the balance amount to make up the 2% of the value of contract for the purpose of Security deposit. However, the security deposit of one percent of the estimate cost of work can be deposited as one time deposit by the contractor. The security deposit together with earned Money Deposit and the amount withheld according to clause 64-1 of General conditions of Contract shall be retained as Security for the fulfilment of contract. If a cash Security Deposit is made by the contractor, he shall follow the procedure laid down in the proceeding paragraph for payment of Earnest Money Deposit and such deposit shall not bear interest
 - ii) An additional Security deposit of 1 % of the value of the contract in one of the forms prescribed above will be remitted by the successful tenderer, if called for by the tender finalising authority.
 - iii) On receipt of written communication of acceptance of tender, if the tenderer fails to pay the requisite security deposit within the period specified in the written communication or backs out from the tender or withdraws his tender, the Earnest Money Deposit shall be forfeited to the Govt.

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

- iv) It shall be expressly understood by the tenderer that on receipt of written communication of acceptance of tender by the tenderer there emerges a valid contract between the Governor of Tamil Nadu and the tenderer, for execution of the work without any separate written agreement. For this purpose the tender documents ie., tender notice, tender offered by the contractor, General Conditions of Contract, special conditions to the contract, correspondence, written communication of acceptance of tender etc., shall constitute a valid contract and that will be foundation of the rights of the both the parties to the contract.

Provided that it shall be open to the accepting authority to insist execution of any written agreement by the tenderer, if administratively considered necessary or expedient.

6. The tenderer shall examine closely the Tamilnadu Building practice and also the General Conditions of Contract contained therein, and sign the divisional office copy of the Tamil Nadu Bldg., Practice and its addenda volume in token of such study before submitting his tender unit rates, which shall be for finished work in situ. He shall also carefully study the drawing and addl. specifications and all the documents connected with the contract. The Tamilnadu Bldg., practice and other connected documents with the contract such as specifications, plans, descriptive specifications sheet regarding materials etc. can be seen at any time between 11.00 a.m. and 5.00 p.m. on office, days in the office of Executive . Engr. P.W.D. Buildings (Construction & Maintenance) Division, Pudukottai
7. A copy of the set of contract documents can also be had on payment of **Rs.9000/- + Rs.1080/- including the Goods and Service Tax(GST)** for each set inclusive of GST .
8. The tenderers attention is directed to the requirement for materials under the clause "Materials and workmanship" in the General Conditions of Contract. Materials conforming to the ISI. Standards shall be used on the work, and the tenderer shall quote his rates accordingly.
9. 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 and kiln 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 the standard specification or in the tender notice or as required by the Executive Engineer shall be submitted for Executive Engineer's approval before the supply to site of work is begun. If the contractor after examination of the source of materials defined in the descriptive specification sheet is of the opinion that materials complying with the standard or other specification of the contract cannot be obtained in quality or sufficient quantity, from the source defined in the descriptive specification sheet, he shall so state in his tender and state where from he intends to obtain materials, subject to the approval of the Executive Engineer.

The Govt. will not, how ever, after acceptance of contract rate pay any extra charges for lead or for any other reasons, in case the contractor is found later on to have misjudged the materials available. Attention of the contractor is directed to the "General Conditions of Contract" regarding payment of seignior age tolls etc.

10. The tenderer's particular attention is drawn to the sections and clause in the General Conditions of Contract dealing with.

1. Test, Inspection and rejection of defective materials and work.
2. Carriage
3. Construction plant
4. Water and Lighting
5. Cleaning up during progress and for delivery
6. Accidents
7. Delays
8. Particulars of payment.

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

A schedule of quantities accompanies this tender notice. It shall be definitely understood that the Govt. does not accept any responsibility for the correctness or completeness of this schedule and that this schedule is liable to alterations by omissions deduction or additions at the discretion of the **Executive Engineer Building Construction & Maintenance Division, Pudukkottai** as set forth in the conditions of contract. The tenderer will, however base his lump sum tender on this schedule of quantities. He should quote specific rates for each item in the schedule and the rates should be in rupees and in sums of five paise. The rates should be written both in words and figures and the units words. The tenderer should also show the totals of each item and the grand total of the whole contract and quote in the tender a lumpsum of which he will undertake to do the whole work subject to the conditions of contract such lumpsum agreeing with the total amount of Schedule A. The schedule accompanying the lumpsum tender shall be written legibly and free from erasures, over writings, or conversion of figures. Corrections, where unavoidable should be made by crossing out, initialing dating and rewriting.

10. Tenderers offering a percentage deduction from or increase on the estimate amount except in the case of tender for maintenance and repair works called for specifically under percentage rate tender system and those not submitted in proper form or in due time will be rejected.
11. The tenderer should workout his own rates, without reference being made to the Public Works Dept. schedule of rates or the public works department estimate. However in case of tenders called for under % rate tender system the tenderer should workout his own rate but quote his percentage rate above or below the total estimated cost of the work of the department indicated in the tender schedule.
12. The price at which and the sources from which certain particular materials shall be obtained by the contractor are given at the end of the schedule accompanying the tender form. Tenderer must accept the materials at these prices and shall quote their price for finished works accordingly. Notwithstanding any subsequent change in the market value for these materials, the charges to the contractor will remain as originally entered in the written contract. No cent age or incidental charges will be borne by Govt. in connection with this supply.
13. The attention of the tenderer is directed to the contract requirements as to the time of beginning of work the rate of progress and the dates for the completion of the whole work and several parts. The following rate of progress and proportionate value of works done from time to time as will be indicated by the Executive Engineer's certificates of the value of work done will be required. Date of commencement of the programme will be the date on which the site (or Premises) is handed over to the contractor.

Period after date of Commencement	Percentage of work complete (Based on contract lump sum amount)
1st Month	20 %
2 nd Month	40%
3 rd Month	60%
4 th Month	80%
5 th Month	100%
(Total Five Months)	

Note : The period to be entered in col. 1 for the purpose of following the rate of progress may be fixed by the Superintending Engineers or Executive Engineer to suit each case.

15. No part of the contract shall be sub-let without written permission of the Executive Engineer nor shall transfer be made by power of attorney, authorising others to receive payment on the contractor's behalf.
16. If further necessary information is required the Executive Engineer of the division will furnish such but it must be clearly understood that tenders must be received in order and according to instructions.
17. The Superintending Engineer or other sanctioning authority reserves the right to reject any tender or all the tenders .
18. The tenderers who are themselves not professionally qualified shall undertake to employ Qualified technical men at their cost to look after the work. The tenderers should state in clear terms whether they are professionally qualified or whether they undertake to employ technical men required by the department specified in the schedule below for the work. In case the selected tenderer is professionally qualified or has undertaken to employ technical men under him, he should see that one of the technically qualified men 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.

(The norms for the employment of technical Assistant and penalty for non-employment of such technical Assistant etc, is furnished in the format below)

ADDITIONAL CONDITIONS
EMPLOYMENT OF TECHNICAL ASSISTANTS

The tenderer who himself is not professionally qualified should undertake to employ qualified technical men at his cost to look after the work. The tenderer should state in clear terms whether he undertakes to employ technical men required by the Department specified in the Schedule below for the work. In case the selected tenderer is professionally qualified or has undertaken to employ. Technical men under him he should see that one of the technically qualified men is always at the site of work during working hours, personally checking all items of works and paying extra attention to such works as may demand special attention eg. reinforced cement concrete works etc.

Employment of Technical Personnel

- | | |
|-------------------------------|--|
| 1. From one to Rs. 5.00 Lakhs | 1) One Diploma Holder in Civil Engineering
(or) |
| 2. From Rs. 5 to 10 lakhs | 2) Not less than one retired Junior Engineer
1) One B.E., (Civil)
(or)
2) Equivalent Degree holder
(or)
3) Not less than one retired Sub Divisional Officer AEE / ADE
(or)
4) One Diploma Holder with three years experience. |
| 3. From Rs. 10 to 25 lakhs | 1) One B.E., (Civil) with 3 years experience plus ONE DIPLOMA Holder in Civil Engg.
(or)
2) Equivalent Degree holder with 3 years experience plus one Diploma holder in Civil Engg.
(or)
3) Not less than one retired Sub-Divisional Officer plus one Diploma holder in Civil Engg.
(or)
4) Two diploma holder in Civil Engg. with 3 and 5 years experience respectively. |
| 4. From Rs. 25 to 50 lakhs | 1) One B.E., Civil with 3 years experience plus two diploma holders in Civil Engg.
(or)
2) One B.E., (Civil) with 3 years experience plus two retired Junior Engineers.
(or)
3) Equivalent degree holder with 3 years experience plus two Diploma holders in Civil Engg. or Two retired Junior Engineers
(or)
4) One retired Sub Divisional Officer (AEE or ADE) Plus two diploma holders in Civil Engg. or one retired SDO (AEE or ADE) Plus two retired Junior Engineers |

5. Above Rs. 50 Lakhs
 - 1) To be examined in individual cases depending upon the nature of work and the technical skill involved and defined in the tender notice regarding the No. of qualified technical personnel to be employed by the contractor
6. A penalty of Rs. 2,000/- PM for diploma holder and Rs. 5,000/- PM for Degree Holder be levied in case of default on the part of contractors in the norms mentioned above.
7. The employment of Technical Assistant should be based only on the value of contract. Engineers with Mechanical Engineering qualification and retired from Civil Engineering Departments are also suitable to supervise the Civil Engineering works because of their experience in Civil Engineering field.
8. It will not be incumbent on the part of the Contractor to employ Technical Assistants when the work is kept in abeyance due to valid reasons and during such period in the opinion of the Executive Engineer, the employment of Technical Assistant is not required for the due fulfillment of the Contract.
9. A movement register should be opened and maintained for Technical Assistants employed by the Contractor or for the Technically qualified contractor. The Technical Assistant or Technically qualified Contractor should note the arrival and the departure timings every day along with their initials. Such Register should be produced during inspection of the Inspecting Officers.
10. Without prejudice to the generality of the above clause the contractor shall during the currency of the contract, when called upon by the Engineer-in-charge engage and also ensure engagement by the Sub Contractors and others employed by the contractor in connection with the work such number of apprentices in the category mentioned, below and for such period, as may be required by the Engineer-in-charge. The Contractor shall train them as required under the Apprentices Act 1961 and the rules made thereunder and shall be responsible for all obligations of the employer under the said act including the liability to make payments to apprentice as required under that said act.
19. Deleted.
20. A tenderer submitting a tender which the tender accepting authority considers excessive and/ or indicative of the insufficient knowledge of current prices or definite attempt at profiteering will render himself liable to be debarred permanently from tendering or for such period as the tender accepting authority may decide. The tender rates should be based on the controlled price for materials - price permissible for the tenderer to charge a private purchaser under the provision of clauses 8 of hoarding and profiting prevention ordinance 1943 as amended from time to time and on similar principles in regard to labour and supervision in the construction.
21. The contractor should offer employment to ex-toddy tappers as far as possible.

Note: *This paragraph should be scored out if the cost of work involved is less than Rs, 10, 000/-*

22. The contractor shall comply with the provisions of the Apprentices Act 1961 and the rules and orders issued there under from time to time. If he fails to do so, his failure will 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 conditions of agreement. The contractor shall also be liable for any pecuniary liability arising on account of any violation by him of the provisions of the Act. Contractor shall, during the currency of the contract, ensure engagement of the apprentices in the categories mentioned below who may be assigned to him by the Director of Employment and Training/State Apprenticeship Adviser, Tamil Nadu. The contractor shall train them as required under the Apprentices Act 1961, and the rules made there under and shall be responsible for all obligations of the employer under said Act including the liability to make payments to the apprentices as required under the said Act.

Value of contract	Category	No. to be appointed
Rs. 1.00 lakh and upto Rs. 3.00 lakhs	1. Building Constructor 2. Brick layer	1
Above Rs. 3.00 lakhs and upto 10.00 lakhs	1. Building Constructor 2. Brick layer Diploma 3. holder in Civil Engineering	1 1 1
Above Rs. 10 lakhs and upto 50.00 lakhs	1. Building Constructor Brick layer B.E., (Civil) or 2. equivalent degree holder	1 1

"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 "That contractor had 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.

23. In the case of contracts for construction of buildings either permanent or semi permanent buildings, a sum equivalent to 2 1/2% of the value of work done will be retained with the Govt. for a period of one year reckoned from the date of completion of the work in order to enable the departmental officers to watch the effect of all seasons on the work done by the contractor. The amount so retained with the Govt. will be refunded only on the expiry of one year period referred to above and on execution of Indemnity bond by the contractor for a further period of four years. The contractor shall be liable to set right all the defects arising out of his faulty execution or sub standard work noticed during the above five years period at his cost.
24. A statement giving particulars of equipment resources that will be put at the disposal of the work under the following classification should accompany the tender.
- Equipment (Transport of materials viz. lorries and carts, concrete mixers)
 - Organisation
 - Technical & (ii) Unskilled
25. The tender of the contractor who agrees to employ the maximum No. of Ex. service Men (No. to be specified in the tender) will receive preferential consideration. The tenderers are requested to report on their covering letter.

26. The Superintending Engineer reserves to himself the right of allotting the different sub works to the different contractors or to one and the same contractor as he may decide after the receipt of tenders.
27. The Tenderer shall quote the rates and prices (both in figures and words) for all the items of the Works described in the Bill of Quantities **excluding GST** along with sum of the quoted tender value **excluding GST** at the end (both in figures and words)..
28. No seigniorage shall be charged where due for materials quarried from the PWD or other Govt. Quarries. Assistants as necessary shall be given to the contractor by the Department to obtain access to quarries approved by the Executive Engineer. No plotrent will be charged for materials stocked on Govt. land during the course of construction provided all such materials are removed within one month after the work is completed.
29. Seigniorage or charges due for the use of private quarries and private land shall be paid by the contractor.

Contractor

Sd/-----
Executive Engineer, PWD,
Buildings (C & M) Division,
Pudukkottai

II. TENDER

To

His Excellency the Governor of Tamilnadu,
represented by the
Superintending Engineer, PWD
Buildings Construction & Maintenance Circle,
Tiruchirappalli

Sir,

1. I/We do hereby tender and if this tender be accepted undertake to execute the following work viz, as shown in the drawings and described in the specification deposited in the office of the Circle/Division with such variations by way of alterations or additions to and omission from the said works and method of payment as are provided for in the conditions of contract for the sum of _____ Rupees (in _____ figures and words) _____ or such other sum as may be arrived at under the clause of the General Conditions of Contract relating to "Payment on lumpsum basis or by final measurements at unit prices"
2. I/We have also completed the priced list or items in schedule "A" annexed (in words and figures) for which I/We agree to execute the work and receive payment on measured quantities as per the General Conditions of Contract.
3. I/We do hereby distinctly and expressly declare and acknowledge that before the submission of my or our tender, I/We have carefully followed the instruction in the tender notice and have read the Tamilnadu Building Practice and the General Conditions of Contract there-in and the Tamilnadu Building Practice addenda volume, and that I/We have made such examination of the contract documents and of the plans, specifications, 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 materials required to be furnished as to enable to thoroughly understand the intention of the same and requirement, covenants, stipulations and restrictions contained in the contract and in the said plans and specification, and distinctly agree that I/We will not hereafter make any claim or demand upon the Govt. based upon or arising out of any alleged misunderstanding or misconception or mistake on my/our part of the said requirements covenants stipulations restrictions and conditions.
4. I/We enclose an income tax verification certificate.
I/We being a registered PWD contractor have already produced an Income Tax verification certificate during the current calendar year in respect of _____ (here particulars of the previous occasions in which the certificate was produced should be given) The legal address of the contractors for service of all letters and notices will be as follows. _____
5. (i) (a) I/We enclose herewith a chalan for the payment of the sum of Rs
.....(to be entered in words and figures) as Earnest Money not to bear interest.
- . (i) (b) I/ We have paid Rs (Rupees.....,
.....as against the E.M.D. of Rs.,
(Rupees)only.
Since I am/We are eligible to pay the EMD, at concessional rates.

- (i) (c) in lieu of a cash

I/Wehave enclosed a.....
bearing NoDate.....
issued by
for a value of Rs
drawn/enclosed /pledged in favour of the Executive Engineer, PWD.

5. (i)(d) I am / We are
and hence exempted from payment of E.M.D.
6. If my/our tender is not accepted this sum shall be returned to me/us on my/our applications when intimation is sent to me/us of rejection or at the expiration of three months from the date of this tender whichever is earlier. If tender is accepted, the Earnest Money shall be retained by the Govt. as security for the due fulfilment of contract. If upon intimations being given to me/us by the authority authorised by the Governor under article 299 (1) of the constitution (hereinafter called the accepting authority) of acceptance of tender (I/We) fail to make the additional security Deposit, then I/We agree to the forfeiture of Earnest Money Deposit. Any notice required to be served on me or us hereunder shall be sufficiently served on me or us if delivered to me or us personally or forwarded to me or us by post (Registered or ordinary) or left at my or our address given herein. Such notice shall, if sent by post be deemed to have been served on me or us at the time when in due course of post it would be delivered at the address to which it is sent.
7. I/We fully understand that on receipt of communication of acceptance of tender from the accepting authority, there emerges a valid contract between me/us and the Governor of Tamilnadu and the tender documents ie. Tender notice tender with schedules General Conditions of Contract and special conditions of the tender negotiation letters, communications of acceptance of tenders, shall constitute a contract for this purpose and be the foundation of rights of both the parties provided that it shall be open to accepting authority to insist on execution of any written Agreement by the tenderer, if administratively considered necessary or expedient.
8. I/We have also signed the copy of Tamilnadu Building practice and addenda volume, thereto maintained in the Division office in acknowledgement of being bound by all conditions of the clauses of the General Conditions of Contract and all specifications for item of works described by a specification number in Schedule A.
9. In consideration of the payment of Rupees or such of the sum as may be arrived at under the clause of the General conditions of contract, relating to payment of lumpsum basis or by final measurement at unit prices I/We agree subject to said conditions to execute and complete the works shown upon the said drawing serially from number I to inclusive (Schedule - B) and described in the specifications (Schedule - C) and to the extent of probable quantities shown in (Schedule - A) with such variations by way of alterations additions to or deductions from the said work and method of payment therefor as are provided for in the said conditions.
- 10.(i) The term "Executive Engineer" in the said condition shall mean the Public Works Department officer in charge of the Division having jurisdiction for the time being over the work who shall be competent to exercise all the powers and privileges reserved herein in favour of the Govt. with the previous sanction of or subject to ratification by the competent authorities in case where such sanction or ratification may be necessary and who has been duly authorised under articles 299 (1) of the constitution.
- (ii) In the event of the work being transferred to any other circle/division/sub division, the Superintending Engineer / Executive Engineer / Assistant Executive Engineer who is incharge of the work will exercise the powers and privileges reserved in favour of Govt.

11. I/We agree that the time shall be considered as the essence of the contract and I/We hereby agree to commence the work as soon as this contract is accepted by the competent authority as defined by the Tamilnadu Public Works Department code and the site (or premises) is handed over to me/us as provided for in the said conditions and agree to complete the work within **Five (5) Months** from the date of such handing over of the site(or premises) and to show progress as defined in the tabular statement "rate of progress" subject nevertheless to the provisions for extension of time contained in clause 56 of the General Conditions of Contract appended to the Tamilnadu Building Practice
12. I/We agree that upon the terms and conditions of this contract being fulfilled and performed to the satisfaction of Executive Engineer, the security deposited by me/us as herein before recited or such portions thereof as I/We may be entitled to under the said conditions be paid back to me/us as provided in clause 64 of the General conditions of Contract.
13. I am/We are professionally qualified and my/our qualification are as follows.

I/We in pursuance of clause 18 of tender notice, undertake to employ the following technical staff for supervising the work and will see that one of them is always at site during working hours personally checking all items of works and paying extra attention to such works „ as may require special attention (eg) reinforced cement concrete.

	Name of technical staff proposed to be employed (1)	Qualification (2)	Experience (3)
1.			
2.			
3.			

14. I/we agree that the arbitrator for fulfilling the duties set forth in the arbitration clause of the General Conditions of Contract shall be : **The Executive Engr. P.W.D. Buildings Construction & Maintenance ,Division, Pudukkottai** In case, the value of claim does not exceed Rs.50,000/-

Signature of the Contractor with Date

15. On behalf of the Governor of Tamilnadu and as duly authorised by the Governor under article 299 (1) of the constitution the above tender for a value of Rs is accepted on this day of

Signature and Designation

*Signature of Witness in full
and address with name in block letters*

SCHEDULE - A**(Schedule of Rates and Approximate Quantities)**

- A. The quantities here given are those upon which the lump sum tender cost of the work is based but they are subject to alterations, omissions, deductions or additions as provided for in the conditions of this contract and do not necessarily show the actual quantities of work to be done. The unit rates noted below are those governing payment of extras or deductions for omissions according to the conditions of the contract as set forth in the General Conditions of Contract in Tamilnadu Building Practice and other conditions specifications of this contract.
- B. It is to be expressly understood that the measured work is to be taken net (Not with standing any custom or practice to the contrary) according to the actual quantities when in place and finished according to the drawings or as may be ordered from time to time by the Executive Engineer and the cost calculated by measurement or weight at the respective prices without any additional charge for any necessary and contingent works connected therewith. The rates quoted are for works in situ complete in every respect.

Item No	Probable Quantities	Class and Description work	T.N.E.B.P No or other special specification no if any	Rate World Figure	Unit Words	Amt figure
VIDE SHEETS ATTACHED SEPARATELY						

SCHEDULE –B**LIST OF DRAWINGS**

Note: All drawings to be signed by the contractors as well as the officer entering into the contract.

SUPPLEMENTAL LIST

As referred to in the specification including the General Conditions of contract in Tamilnadu Building practice

Sl.No	Drawing No	Description	Sl.No	Drawing No	Description	Date on which the drawing was supplied
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1) Site Plan 2) Building Plan CA Job No:						

Description Specification Sheet

item	Materials			
	1. Size alternative to Std. Specification size or size prescribed Mortar and concrete	Source from which item is to be obtained	Approximate lead	remarks
DELETED				

PERCENTAGE FORM

Tender Notice No.	:	04 /2022-23 / EE / B (C&M) Dn. /Pudukkottai / Dated:24.05.2022
Tender Date	:	09.06.2022
Issued to	:	

Senior Draughting Officer,PWD.,
Buildings (C&M) Division, Pudukkottai

E.M.D. Amount : Rs.27,500/- (Rupees twenty seven thousand and five hundred only)

Name of Work : **CONSTRUCTION OF VETERINARY DISPENSARY BUILDING AT ARASADIPATTI IN PUDUKKOTTAI DISTRICT.**

Estimate value of Work as per schedule enclosed : Rs.31,89,148/- (Rupees thirty one lakhs eighty nine thousand one hundred and forty eight only) (Including GST 12%)

I / Weoffer to execute the above work with a Tender Premium as follows.

Plus (+)..... (in words and figures)percentage

Minus (-) (in words and figures) Percentage

Over the Departmental Estimate value of work indicated above. In case of variations in quantity of various item of works during execution. I / We agree that the amount payable for the individual item of works will be as per the Departmental Unit Rates indicated in the Tender Schedule for the items as varied in accordance with the Tender Premium and the actual quantity of work done.

Details of the EMD enclosed.

Date :

Place :

Signature and address of the Tenderer

Note: Any correction or overwriting should be attested by the Tenderer with full Signature.

Number of Corrections in figures
Number of Corrections in words
Number of overwriting in figures
Number of overwriting in words

Office of the Executive Engineer . P.W.D.
Buildings Construction & Maintenance Division.
Pudukkottai.

Tender Date:
EMD:

SCHEDULE - A

NAME OF WORK : CONSTRUCTION OF VETERINARY DISPENSARY BUILDING AT ARASADIPATTI IN PUDUKKOTTAI DISTRICT.

Sl. NO	Qty	Description of Work	TNSS /NBC No	Rate in Figure and in words	Unit	Amount
1	2	3	4	5	6	7
1	126.00 M ³ [One hundred and twenty six cubic metre]	Earth work excavation for foundation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the surplus earth within the compound in places shown by the departmental officers with an initial lead of 10 mts and initial lift of 2 mts. and clearing and levelling the site, etc., complete complying with standard specification.		Rs.172.30 (Rupees one hundred seventy two and thirty paise only)	1 m ³ (one cubic metre)	21709.80
2	24.50 M ³ [Twenty four point five zero cubic metre]	Earth work open excavation in all soils and sub-soils and to full depth as may be directed except in rock requiring blasting inclusive of shoring shuttering, bailing out water wherever necessary and depositing the excavated earth with a lead of 10 mts. within the compound in places shown by the departmental officers and clearing and levelling the site, etc., complete complying with standard specification.		Rs.80.55 (Rupees eighty and fifty five paise only)	1 m ³ (one cubic metre)	1973.48
3	41.00 M ³ [Fourty one cubic metre]	Supplying and filling in foundation, basement, etc with filling Crushed stone sand in layers of not more than 15 cm thick well watered, rammed and consolidated etc. complete complying with standard specification and as directed by the departmental officers.		Rs.1581.60 (Rupees one thousand five hundred eighty one and sixty paise only)	1 m ³ (one cubic metre)	64845.60
4	40.00 M ³ [Fourty cubic metre]	Refilling with excavated earth other than sand with an initial head load of 100 mts. and depositing the earth as shown by the departmental officers in layers of not more than 15 cm thick well rammed, watered and consolidated etc. complete complying with standard specification		Rs.33.60 (Rupees thirty three and sixty paise only)	1 m ³ (one cubic metre)	1344.00

1	2	3	4	5	6	7
5	37.00 M ³ [Thirty seven cubic metre]	Supplying and FILLING GRAVEL Supplying and filling in 'foundation and basement with filling sand in layers of not more than 15cm.thick well rammed watered and compacted - 1m3 etc., complete complying with standard specification.		Rs.380.20 (Rupees three hundred eighty and twenty paise only)	1 m ³ (one cubic metre)	14067.40
6	11.50 M ³ [Eleven point five zero cubic metre]	Cement Concrete 1:5:10 (One Cement, Five sand and Ten Crushed stone sand) using 40 mm gauge hard broken granite stone jelly for foundation including dewatering wherever necessary and laid in layers of not more than 15 cm thick well rammed, consolidated and curing etc. complete (The crushed stone sand to be used on concrete work shall confirm to gradation as per IS 383-1970)		Rs.4613.40 (Rupees four thousand six hundred thirteen and fourty paise only)	1 m ³ (one cubic metre)	53054.10
7		Brick work using Country Bricks of size 8-3/4" x 4-1/4" X2-3/4"" in Cement Mortar 1:5 (One cement and five Crushed stone sand) including curing neat finishing, etc., complete complying with standard specifiction.(The crushed stone sand to be used on concrete work shall confirm to gradation as per IS 383-1970)				
a	27.50 M ³ [Twenty seven point five zero cubic metre]	Foundation and Basement		Rs.5378.60 (Rupees five thosand three hundred seventy eight and sixty paise only)	1 m ³ (one cubic metre)	147911.50
b	25.00 M ³ [Twenty five cubic metre]	In Ground Floor		Rs.5446.60 (Rupees five thousand four hundred fourty six and sixty paise only)	1 m ³ (one cubic metre)	136165.00
8		Brick work in Cement Mortar 1:6 using best quality country bricks of size 8-3/4" x 4-1/4" x 2-3/4" for foundation and basement including curing, etc., complete complying with standard specifiction.				
a	13.60 M ³ [Thirteen point six zero cubic metre]	Foundation and Basement		Rs.5450.10 (Rupees five thousand four hundred fifty and ten paise only)	1 m ³ (one cubic metre)	74121.36

1	2	3	4	5	6	7
9	23.60 M ² [Twenty three point six zero square metre]	Damp proof course with Cement Mortar 1:4 (One Cement and Four Crushed stone sand) 12mm thick mixed with best approved quality water proofing compound conforming to Indian Standard specification as specified by the departmental officers at 2% by weight of cement used, finishing and curing etc. complete complying with standard specification.		Rs.230.95 (Rupees two hundred thirty and ninety five paise only)	1 m ² (one Square metre)	5450.42
10	76.10 M ² [Seventy six point one zero square metre]	Supplying and erecting steel centering including necessary supports for plane surfaces for Reinforced Cement Concrete works such as column footings, column pedestals, plinth beams, grade beams, staircase steps, etc. which require only nominal strutting using mild steel sheets of size 90cm x 60cm and 10 BG stiffened with welded mild steel angles of size 25mm x 25mm x 3 mm for boarding, laid over silver oak joists of size 10cm x 6.5cm spaced at about 75cm centre to centre or at suitable intervals etc. complete in all floors complying with standard specification. (Payment for centering shall be given after the concrete is laid)		Rs.747.70 (Rupees seven hundred forty seven and seventy paise only)	1 m ² (one Square metre)	56899.97
11		Supplying and erecting centering for sides and soffits including necessary supports and strutting upto 3.29 M height for plane surfaces as detailed below in all floors with all cross bracings using Mild Steel sheets of size 90 x 60 cm and 10 BG stiffened with welded Mild Steel angle of size 25mm x 25mm x 3 mm for boarding laid over silver oak joists of size 10cm x 6.50 cm spaced at about 90 cm centre to centre and supported by casurina props of 10cm to 13 cm dia spaced at not more than 75 cm centre to centre etc. complete complying with the standard specification. (Payment for centering shall be given after the concrete is laid)				
a	206.50 M ² [Two hundred and six point five zero square metre]	For plane surfaces such as RCC floor slab, roof slab, beams, lintels, bed blocks, landing slab, waist slab, portico slabs and beams, etc.		Rs.840.35 (Rupees eight hundred forty and thirty five paise only)	1 m ² (one Square metre)	173532.28
b	136.50 M ² [One hundred and thirty six point five zero square metre]	For plane surfaces such as rectangular or square RCC columns, sunshades, top and bottom slab of RCC boxing, etc.		Rs.1008.45 (Rupees one thousand eight and forty five paise only)	1 m ² (one Square metre)	137653.43

1	2	3	4	5	6	7
12		Providing and laying in position, standardised concrete mix M-20 Grade in accordance with IS 456 using 20mm and down graded hard broken granite stone jelly for all RCC items of works with minimum cement content of 325 kg/m ³ and maximum water cement ratio of 0.55, including admixture (plasticiser / super plasticiser) in recommended proportions as per IS:9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability with about (5 cu.m.) 7730 kg. of 20mm machine crushed stone jelly and with about (3.3 cu.m.) 5156 kg. of 10-12mm machine crushed stone jelly and with about (4.79 cu.m) 7670 kg. of sand, but excluding cost of reinforcement grill and fabricating charges, centering and shuttering and also including laying, vibrating with mechanical vibrators, finishing, curing, etc. and providing fixtures like fan clamps in the RCC floor/ roof slabs wherever				
a	30.90 M ³ [Thirty point nine zero cubic metre]	Foundation and Basement		Rs.7431.07 (Rupees seven thousand four hundred thirty one and seven paise only)	1 m ³ (one cubic metre)	229620.06
b	30.00 M ³ [Thirty cubic metre]	In Ground Floor		Rs.7534.37 (Rupees seven thousand five hundred thirty four and thirty seven paise only)	1 m ³ (one cubic metre)	226031.10
13	55.00 Qtl [Fifty five quintal]	Supplying, fabricating and placing in position Mild Steel / Ribbed Tor Steel grills for all RCC works as per design given including cost of steel and G.I. binding wire in all floors etc. complete complying with standard specification. (Contractor has to make his own arrangements for the supply of steel and binding wire)		Rs.7839.80 (Rupees seven thousand eight hundred thirty nine and eighty paise only)	1 Qtl (one Quintal)	431189.00
14	1.10 M ³ [One point one zero cubic metre]	Plain Cement Concrete 1:2:4 (one cement, two sand and four hard broken stone jelly) using 20mm jelly for wearing coat including laying, compacting, finishing and curing, etc., complete as per standard specificatins and as directed by the departmental officers.		Rs.6134.70 (Rupees six thousand one hundred thirty four and seventy paise only)	1 m ³ (one cubic metre)	6748.17

1	2	3	4	5	6	7
15	14.50 M ³ [Fourteen point five zero cubic metre]	Cement Concrete 1:5:10 (One cement, Five sand and Ten hard broken stone) using 40 mm gauge hard broken jelly for flooring including laying, consolidating, finishing, rendering the top surface rough to receive the floor, curing, etc. complete complying with standard specification. (The rate is inclusive of necessary planking for panelling wherever necessary and as directed by the departmental officers (The crushed stone sand to be used on concrete work shall confirm to gradation as per IS 383-1970)		Rs.4613.40 (Rupees four thousand six hundred thirteen and fourty paise only)	1 m ³ (one cubic metre)	66894.30
16		Brick partition walls of 10.80cm thickness using best quality country bricks of size 8-3/4" x 4-1/4" x 2-1/4" in Cement Mortar 1:3 (One Cement and Three Crushed stone Sand) using hoop iron reinforcement if found necessary including curing etc. complete and as directed by the departmental officers. (Hoop iron reinforcement will be measured and paid for separately) (The crushed stone sand to be used on concrete work shall confirm to gradation as per IS 383-1970)				
a	89.00 M ² [Eighty nine square metre]	In Ground floor		Rs.713.00 (Rupees seven hundred and thirteen only)	1 m ² (one Square metre)	63457.00
17	4.70 M ² [Four point seven zero square metre]	Plain Cement Concrete 1:2:4 (one cement, two sand and four hard broken stone jelly) using 6-10 mm jelly for wearing coat including laying, compacting, finishing and curing, etc., complete as per standard specificatins and as directed by the departmental officers.		Rs.5582.95 (Rupees five thousand five hundred eighty two and ninety five paise only)	1 m ² (one Square metre)	26239.87
18	15.60 M ² [Fifteen point six zero square metre]	Supplying ,fabricating and fixing in position of steel frame without bottom frame, of size 100X60mm rectangular section with necessary rebate 30mmX15mm, to host the shutter,using 1.25mm thick (18 guage) CRCA cold rolled frame steel plate confirming to ISI specified ensured of right butt joint riveted hold assembly with nylon insert,not be welded with special purpose hard ware.Proclaimed including phopating as per ISI with rust preventive primer ready to assemble condition for easy installation at site including dismantling,making necessary chipping and holes in RCC columns, walls with power drills to the extent required ,including providing concrete 1:2:4 inside the box curing etc complete.The cost includes the cost of hold fast ,plastic bush, insert receiver,rubber bottom check absorber etc complete as		Rs.395.10 (Rupees three hundred ninety five and ten paise only)	1 m ² (one Square metre)	6163.56

1	2	3	4	5	6	7
19		<p>Manufacturing supplying and fixing of steel door with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x6mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and</p>				
a	3.15 M ² [Three point one five square metre]	Double Leaves		Rs.4281.00 (Rupees four thousand two hundred and eighty one only)	1 m ² (one Square metre)	13485.15

1	2	3	4	5	6	7
20		<p>Manufacturing supplying and fixing of steel door with the following specification MS angels of size 40x40x6mm are used for the outer frames and M.S. angles of size 35x35x5mm for the shutter frames stiffeners with 32 x 6mm M.S flat is provided at required intervals in the shutter frame. 18-gauge C.R. sheet laid as panel in the shutter and welded intact. M.S. flat 18x5mm is welded over the 32 x 6mm M.S. flat sandwiching the C.R. sheet in between additional stiffeners with 18x5mm M.S. flat is provided diagonally at the rear side of the shutter, 3nos. of hinges in case of single leaf and 6nos. of hinges in double leaves shutter to be provided 6nos. of holdfasts 120 mm in length made of angle section spliced at the ends are welded to the outer frames of the door. Tower bolts 2nos. one at the top and the other at the bottom are provided 1no. Aldrop is provided incase of double leaf door at lock rail section in the door in single leaf door, one more aldrop is provided in the inner lock rail section of the door One rotaing locking arrangements for the inner side of the door and</p>			1 m ² (one Square metre)	0.00
a	4.20 M ² [Four point two zero square metre]	Single Leaves		Rs.4062.00 (Rupees four thousand and sixty two only)	1 m ² (one Square metre)	17060.40
21	5.54 M ² [Five point five four square metre]	<p>Supplying and fixing Solid core Particle board flush shutter of nominal thick of 35 mm with Teak ply on both sides and with T.W. lipping alround conforming to IS 2302 including supplying and fixing cost of wind appliances and furniture fittings such as 1no .300 x 12 mm aluminium tower bolt 2 nos. 200x12 mm aluminium tower bolts 1no. 250 x 16 mm aluminium aldrops, 2 nos. 200mm 'D' type aluminium door handle and door stopper with bush etc., complete as directed by the departmental officers.</p>		Rs.3091.00 (Rupees three thousand ninety one only)	1 m ² (one Square metre)	17124.14

1	2	3	4	5	6	7
22	3.78 M ² [Three point seven eight square metre]	Solid PVC door shutters using 19 Gauge 19mm MS square tubes for styles and outer frames. 15mm MS square tubes for top, lock and bottom rails. The steel tubes shall be covered with 5mm thick solid PVC sheets. Shutter using 5mm thick solid PVC sheets for panelling shall rigidly fixed in position including necessary furniture and fittings. The over all size of styles shall be 50mm x 30mm. The over all size of top rail, Lock rail and bottom rail shall be 75mm x 30mm. The over all size of frames shall be 50mm x 45mm, with suitable rabate for housing the shutter.		Rs.3167.00 (Rupees three thousand one hundred and sixty seven paise only)	1 m ² (one Square metre)	11971.26
23	563.00 Kg [Five hundred and sixty three kilo gram]	Supplying and fixing of M.S.grill of approved design for open courtyard, grill, grill work to doors and window openings etc., using necessary mild steel flats for inner and outer members which should be fixed on edges including priming coat of best approved quality red oxide primer etc., complete complying with standard specification.		Rs.90.20 (Rupees ninety and twenty paise only)	1 Kg (one kilo gram)	50782.60
24	9.36 M ² [Nine point three six square metre]	Fabricating, Supplying and fixng in position of steel sheeted windows (Two Leaves) with the following specifications. Outer frames of windows made of 'Z' section F7D of size 33 x 25 x 3mm at 1.419 kg/ m and mullion 'J' section (F4B) of size 46x25x3mm at 2.28kg/m and shutter section of made of F7D of 33x25x3mm at 1.419 kg/m as specified in IS 7452/1990. Each openable shutter should not exceed a width of 600mm to enable separate operations and easy maintenance. The panel of the shutters to be covered with 18 gauge cold rolled sheet of superior quality and welded intact with shutter frames. Horizontal stiffeners using 18x5mm MS Flat at 0.70kg/m at 3 Nos. for each shutter and additional diagonal stiffners of the same MS flats at all the four corners of each shutters to the suitable length welded to the shutters, for holding the CR Sheets in position firmly.		Rs.3959.00 (Rupees three thousand nine hundred and fifty nine only)	1 m ² (one Square metre)	37056.24

1	2	3	4	5	6	7
25	1.08 M ² [One point zero eight square metre]	Supplying and Fixing in position steel glazed Ventilators with central hung swing shutter using F7D section of size 30x25x3mm for inner outer frames with 4 Nos. Of 12mm dia MS sq.bars for protection and 2 Numbers of clamps welded with outer frame and using 3mm thick pin headed glass for panel including painting with one coat of Red Oxide Primer dismantling the masonry wherever necessary for fixing the ventilator and redoing the same to the original condition fixing the ventilator and redoing the same to the original condition fixing the ventilator in position etc.,		Rs.4287.00 (Rupees four thousand two hundred and eighty seven only)	1 m ² (one Square metre)	4629.96
26	39.50 M ² [Thirty nine point five zero square metre]	Supplying and fixing colour galvalume sheet roof of 0.47mm thick and steel tubular box section of 100x50x3mm of 1 meter interval including priming coat fixing in position with all necessary accessories complete complying with standard specification and as directed by the departmental officers.		Rs.1608.00 (Rupees one thousand six hundred and eight only)	1 m ² (one Square metre)	63516.00
27	41.80 M ² [Forty one point eight zero square metre]	Supplying and fixing fine polished cuddapah slab of following thickness for cup-board arrangements including laying to correct alignment with necessary cement mortar and black powder etc, complete complying with standard specification and as direct.		Rs.468.55 (Rupees four hundred sixty eight and fifty five paise only)	1 m ² (one Square metre)	19627.19
28	442.00 M ² [Four hundred forty two square metre]	Plastering with Cement Mortar 1:5 (One cement and Five sand), 12mm thick in all floors including curing etc. complete complying with standard specification and as directed by the departmental officers.		Rs.220.80 (Rupees two hundred twenty and eighty paise only)	1 m ² (one Square metre)	97593.60
29	356.00 M ² [Three hundred fifty six square metre]	Special ceiling plastering and finishing the exposed surface of all RCC items of work such as slabs, beams, sunshades, fascia, canopy slab, staircase waist slab, landing slab etc., with Cement Mortar 1:3 (One Cement and Three Sand) 10mm thick including hacking the surfaces, providing cement mortar nosing, beading for sunshades, staircases, steps, landing slabs and curing, etc., in all floors complying with standard specification and as directed by the departmental officers		Rs.252.45 (Rupees two hundred fifty two and forty five paise only)	1 m ² (one Square metre)	89872.20

1	2	3	4	5	6	7
30	59.70 M ² [Fifty nine point seven zero square metre]	Plastering the surface of walls with Cement Mortar 1:3 (One cement and Three sand), 20mm thick in all floors including curing etc., complete complying with standard specification and as directed by the departmental officers.		Rs.242.50 (Rupees two hundred forty two and fifty paise only)	1 m ² (one Square metre)	14477.25
31	107.80 M ² [One hundred seven point eight zero square metre]	Paving the floor with best quality Verified Tiles of size 600 x 600 x 8mm of approved colour, shade and quality laid in cement mortar 1:3 (one cement and three sand) 20mm thick in all floors and the top pointed with the white cement mixed same colour pigments etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)		Rs.1370.20 (Rupees one thousand three hundred seventy and twenty paise only)	1 m ² (one Square metre)	147707.56
32		Flooring with following ceramic tiles of size 305 x 305 x 6 mm laid over 20 mm thick cement mortar 1:3 (One Cement and Three Sand) base mortar over the existing slab / floor including cutting the tiles to the required size with special cutter wherever necessary, laying in position and pointing with white cement mixed with colouring pigment at the rate of 0.3 Kg. / sq.m. etc., complete complying with standard specification. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)				
a	9.00 M ² [Nine square metre]	Self Designed Colour Ceramic Tiles of size 305 x 305 x 6mm (Observed Data)		Rs.932.30 (Rupees nine hundred thirty two and thirty paise only)	1 m ² (one Square metre)	8390.70
33		Dadoing walls with following best approved quality, white / colour glazed tiles of following sizes set in Cement Mortar 1:2 (One Cement and Two crushed stone sand) 10mm thick and pointing the joints with white cement mixed with colouring pigments at the rate of 0.40 Kg. / sq.m. neatly in all floors, curing, etc., complying with standard specification and as directed by the departmental officers.				
a	20.00 M ² [Twenty square metre]	Dadoing Ceramic tiles of size 300 x 450 x 8mm (The Crushed stone sand to be used in base mortar shall confirm to gradation as per IS 1542-1977)		Rs.1248.50 (Rupees one thousand two hundred forty eight and fifty paise only)	1 m ² (one Square metre)	24970.00

1	2	3	4	5	6	7
34	32.10 M ² [Thirty two point one zero square metre]	Flooring with Cut Stone fully roughly dressed paving stone laid on sand base pointed with the stone laid over on lime concrete 1:2:4-100mm thick over the existing sand packing and pointing neatly with cement mortar 1:3 (one cement and three sand) curing etc. complete complying with standard specification		Rs.1394.80 (Rupees one thousand three hundred ninety four and eighty paise only)	1 m ² (one Square metre)	44773.08
35	7.50 M ² [Seven point five zero square metre]	Paving the floor with pre-polished concrete anti-skid step tiles (Required shape and design) of 20mm thick of approved quality and colour laid in Cement Mortar 1:3 (One Cement and Three sand) 20mm thick and pointed with white cement mixed with colouring pigment at the rate of 0.40 Kg. / sq.m., curing, etc., complete complying with standard specification and as directed by the departmental officers. (The make and brand of the tiles should be got approved by Executive Engineer before use on works)		Rs.1349.30 (Rupees one thousand three hundred forty nine and thirty paise only)	1 m ² (one Square metre)	10119.75
36	479.00 M ² [Four hundred seventy nine square metre]	Supplying and painting the walls with two coats of oil bound distemper over one coat of water based cement primer including cost for distemper, primer, cleaning and scrapping the walls, rendering the walls smooth with necessary putty, brushes, scaffolding arrangements, labour charges, etc., as per standard specification. (The colour and shade of the distemper shall be got approved by the Executive Engineer before use of work).		Rs.173.35 (Rupees one hundred seventy three and thirty five paise only)	1 m ² (one Square metre)	83034.65
37	320.00 M ² [Three hundred and twenty square metre]	Painting two coats of newly plastered wall surface with ready mixed plastic emulsion paint of first class quality and of approved colour over a priming coat including thorough scrapping, clean removal of dirt, and including necessary plaster of paris putty, wherever required etc., complete complying with standard specification.		Rs.211.85 (Rupees two hundred eleven and eighty five paise only)	1 m ² (one Square metre)	67792.00
38	43.00 M ² [Fourty three square metre]	Painting new iron works such as steel doors, windows, ventilators, window bars, balustrades etc., with two coats of best approved first quality and colour of synthetic enamel paint over the existing red oxide priming coat in all floors excluding cost of priming coat etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)		Rs.126.25 (Rupees one hundred twenty six and twenty five paise only)	1 m ² (one Square metre)	5428.75

1	2	3	4	5	6	7
39	13.90 M ² [Thirteen point nine zero square metre]	Painting new wood work with two finishing coats of synthetic enamel ready mixed paint of approved quality and colour over one coat priming coat in all floors including the cost of primer etc., complete complying with standard specification. (The make, quality and colour of paint should be got approved by the Executive Engineer before use on works.)		Rs.212.95 (Rupees two hundred twelve and ninety five paise only)	1 m ² (one Square metre)	2960.01
40		Supplying and fixing in position best approved of BIS quality PVC rain water down fall pipes having a pressure of 4 kg. / sq.cm including cost of necessary PVC shoe, PVC bend, cast iron gratings of required diameter and special clamps, brass screws, nails, etc., and fixing of cast iron gratings at junction of parapet and the RCC roof slab including finishing neatly etc., complete. The rate shall be inclusive of cast of removable cast iron grating. The PVC pipe shall be fixed in wall with special type of "U" clamp at the centre of the pipe line in addition to those for more than 3.0 metre pipe length, etc., complete complying with standard specification.				
a	12.00 Rm [Twelve running metre]	110mm dia		Rs.532.70 (Rupees five hundred thirty two and seventy paise only)	1 Rm (one running meter)	6392.40
41		Manufacturing, supplying and fixing Precast Reinforced Cement Concrete slabs of following thickness in RCC 1:2:4 (one cement, two sand and four aggregates), using following HBGS jelly excluding cost of reinforcement steel in position but including cost of moulding charges, casting of slab, finishing, curing and fixing in position in all floors etc., complete complying with standard specification and as directed.				
a	0.80 M ² [Zero point eight zero square metre]	75mm thick		Rs.763.85 (Rupees seven hundred sixty three and eighty five paise only)	1 m ² (one Square metre)	611.08

1	2	3	4	5	6	7
b	4.10 M ² [Four point one zero square metre]	50mm thick		Rs.508.40 (Rupees five hundred eight and fourty paise only)	1 m ² (one Square metre)	2084.44
42		Supplying and fixing in position white / colour glazed European Water Closet of best quality and approved make with 100 mm "P" or "S" trap connecting with CI pipe of 100mm dia / PVC pipe of 110mm dia, double flapped rigid PVC black seat and seat cover with CP brass hinges including cost of white cement, cement for packing, spun yarn, teak wood plugs, brass screws, etc., including supplying and fixing 10 litres capacity PVC / 12.5 litres capacity porcelin low level flushing tank with a pair of CI brackets, etc., complete with all fittings such as 15mm brass ball valve with polythene float with brass handle, union, coupling connected by means of 40mm white PVC flush hand using Indian adopter joint including all internal fittings.....				
a	2.00 Nos [Two numbers]	white glazed European Water Closet with 10 litres capacity PVC flushing tank with all accessories		Rs.5676.00 (Rupees five thousand six hundred and seventy six only)	1 No (one number)	11352.00
43		Supplying and fixing in position best quality and approved make Indian made white / colour glazed earthenware wash hand basin of size 550 x 400mm (with pedestal / without pedestal) with a pair of cast iron brackets, including cost 15mm dia brass CP pillar tap, 32mm dia "B" class GI waste pipe with rubber plug and chain, 15mm dia GM wheel valve, 15mm brass nipple, 15mm dia nylon connection, 32mm dia CP brass waste coupling including fixing of wash basin using CI brackets on to the wall in position with TW plugs and screws, rubber washers, white lead and giving necessary water supply connection and painting the brackets with two coat of painting over a priming coat of anti-corrosive paint including testing for leakages etc., complete complying with standard specification and as directed by the departmental officers. (The wash hand basin and specials should be got approved by the Executive Engineer before use on works).				

1	2	3	4	5	6	7
a	2.00 Nos [Two numbers]	White Galzed wash hand basin without Pedestal		Rs.3492.00 (Rupees three thousand four hundred and ninety two only)	1 No (one number)	6984.00
44	1.00 No [One number]	Supplying and fixing in position best quality cuddapah sink of following sizes including cost of 32mm dia CP waste coupling, 32mm dia PVC waste pipe with rubber plug and chain, 15mm dia brass nipple including fixing the sink in position and testing for leakages etc., complete complying with standard specifications excluding CI brackets. [The sink and specials should be got approved by the Executive Engineer before use on works]		Rs.2395.00 (Rupees two thousand three hundred and ninety five paise only)	1 No (one number)	2395.00
45	2.00 Nos [Two numbers]	Supplying and fixing approved best quality brass CP towel rail 600mm long and 20mm dia with brackets of same materials including cost of teak wood plugs and CP screws, etc., complete complying with standard specifications. (The tower rail should be got approved by Executive Engineer before use on works).		Rs.483.55 (Rupees four hundred eighty three and fifty five paise only)	1 No (one number)	967.10
46	2.00 Nos [Two numbers]	Supplying and fixing best approved best quality brass CP soap tray of size 150 x 100mm including cost of teak wood plugs, brass screws, etc., complete complying with standard specifications. (The soap tray should be got approved by Executive Engineer before use on works).		Rs.296.95 (Rupees two hundred ninety six and ninety five paise only)	1 m ² (one Square metre)	593.90
47	2.00 Nos [Two numbers]	Supplying and fixing in position Indian make bevelled edge mirror of approved quality and brand PVC / Fibre Glass framed 600 x 450 x 5.5mm thick mirror, shelf type with hard board backing of approved colour fixed with brass screws, rawl plug, etc., complete complying with standard specification. (The mirror should be got approved by the Executive Engineer before use on woks)		Rs.957.50 (Rupees nine hundred fifty seven and fifty paise only)	1 m ² (one Square metre)	1915.00

1	2	3	4	5	6	7
48		Supplying and fixing in position best quality PVC soil / waste pipes of various dia having 6 kg / sq.cm. pressure BIS mark and providing leak proof joints using PVC adhesives including fixing to the wall with special PVC / MS clamp, teak wood plugs, brass screws, etc., and making connection to all sanitary fittings, dismantling masonry / RCC works wherever found necessary and making the good dismantled portion to the original condition, including testing for any leakages, etc., complete complying with standard specifications. (The PVC pipes should be got approved by the Executive Engineer before use on works). The rate for earth work excavation will be measured and paid separately in the cases where the pipe lines are proposed to laid below ground level				
a	10.50 Rm [Ten point five zero running metre]	110mm dia PVC Pipe		Rs.447.65 (Rupees four hundred fourty seven and sixty paise only)	1 Rm (one running meter)	4700.33
b	8.00 Rm [Eight running metre]	75mm dia PVC Pipe		Rs.343.45 (Rupees three hundred fourty three and fourty five paise only)	1 Rm (one running meter)	2747.60
49		Supplying and fixing in position PVC specials of the following dia and types of approved quality confirming to BIS and providing leak proof joints including fixing to the walls and giving connection to the PVC soil stacks, dismantling the masonry or RCC works and re-doing the dismantled portion to original condition etc., complete complying with standard specifications.				
a	1.00 No [One number]	110mm PVC plain bend		Rs.392.95 (Rupees three hundred ninety two and ninety five paise only)	1 No (one number)	392.95

1	2	3	4	5	6	7
b	1.00 No [One number]	110mm PVC door Elbow		Rs.419.45 (Rupees four hundred nineteen and forty five paise only)	1 No (one number)	419.45
c	1.00 No [One number]	75mm PVC Plain Elbow		Rs.352.95 (Rupees three hundred fifty two and ninety five paise only)	1 No (one number)	352.95
d	1.00 No [One number]	75mm PVC tee		Rs.386.45 (Rupees three hundred eighty six and forty five paise only)	1 No (one number)	386.45
50	2.00 Nos [Two numbers]	Supplying and fixing position CI Nahani Trap / Floor Trap of the following sizes with best stainless steel gratings of approved brand and quality, fixed over a bed of brick jelly lime concrete 1:2:5 (One part of lime, two part of sand and five part of 40mm gauge brick jelly) and finished with Cement Mortar 1:3 (One Cement, Three sand) including dismantling masonry works wherever found necessary and making good the dismantled portions to the original condition and giving connection to the CI / PVC pipes, etc., complete complying with standard specification. (The Nahani Trap should be got approved by the Executive Engineer before use on works)		Rs.746.50 (Rupees seven hundred forty six and fifty paise only)	1 No (one number)	1493.00
51	1.00 No [One number]	Supplying and fixing PVC ventilating shaft of 110mm dia (having working pressure 4 kg. / sq.cm) with 3 metre height including cost of PVC cylindrical cowl of best approved quality etc., complete complying with standard specifications and as directed by the departmental officers		Rs.1058.50 (Rupees one thousand fifty eight and fifty paise only)	1 No (one number)	1058.50
52	500.00 Lit [Five hundred liters]	Supplying and fixing in position of PVC tank 1000 litre capacity of approved variety and good quality conforming to I.S.I. Mark including labour charges for fixing etc., complete complying with standard specification		Rs.9.60 (Rupees nine and sixty paise only)	1 Lit (one litter)	4800.00

1	2	3	4	5	6	7
53		Supplying, laying and jointing CPVC pipes (having working pressure 10 kg. / sq.cm) of approved quality and best variety conforming to BIS of the following dia including cutting, threading and fixing UPVC specials using CPVC adhesives (but excluding cost of such specials) and fixing into wall with teak wood plugs, CPVC clamps and screws making holes on the wall (or) drilling holes in the roof and making good the dismantled portion to original condition with necessary brick work / cement concrete and plastering neatly wherever necessary with necessary scaffolding charges, etc., complete complying with standard specifications. The CPVC pipes shall be got approved by Executive Engineer before use on works.				
a	15.00 Rm [Fifteen running metre]	32mm dia CPVC Pipe		Rs.427.80 (Rupees four hundred twenty seven and eighty paise only)	1 Rm (one running meter)	6417.00
54		Supplying, laying and jointing G.I. Pipes of approved quality and best variety of "B" class pipe of the following dia including labour fixing G.I. Specials, (excluding charges for cutting and threading of pipes, cost of such specials) to wall with necessary teak wood plugs, clamps, screws, thread balls, shellac, etc., making holes on the walls (or) drilling holes in roof and making good the dismantled portions to original condition with necessary brick work / concrete and plastering wherever necessary with necessary scaffolding charges. The pipes are to be painted with the 2 coats of good variety and approved best quality of synthetic enamel paint over a priming coat of red oxide etc., complete in all floors complying with standard specification. G.I. pipes shall be got approved by the Executive Engineer before use on works.				
a	15.00 Rm [Fifteen running metre]	25 mm dia G.I Pipe		Rs.306.20 (Rupees three hundred six and twenty paise only)	1 Rm (one running meter)	4593.00
b	30.00 Rm [Thirty running metre]	20 mm dia G.I Pipe		Rs.243.50 (Rupees two hundred forty three and fifty paise only)	1 Rm (one running meter)	7305.00

1	2	3	4	5	6	7
55		Supplying and fixing in position the following GI Specials of heavy type and approved quality and good variety excluding fixing charges but including necessary cutting and threading of GI pipes, jointing the GI specials and painting with two coats with good variety and best quality synthetic enamel paint over a coat of red oxide primer and jointing the specials with pipe line using shellac etc., complete complying with standard specification. (The GI specials should be got approved by the Executive Engineer concerned before use on works.)				
I		CPVC Elbow				
a	3.00 Nos [Three numbers]	32mm dia		Rs.102.30 (Rupees one hundred two and thirty paise only)	1 No (one number)	306.90
b	3.00 Nos [Three numbers]	25mm dia		Rs.48.10 (Rupees fourty eight and ten paise only)	1 No (one number)	144.30
c	4.00 Nos [Four numbers]	20mm dia		Rs.22.80 (Rupees twenty two and eighty paise only)	1 No (one number)	91.20
II		GI Tee				
a	2.00 Nos [Two numbers]	32mm dia		Rs.130.70 (Rupees one hundred thirty and seventy paise only)	1 No (one number)	261.40
b	4.00 Nos [Four numbers]	25mm dia		Rs.58.00 (Rupees fifty eight only)	1 No (one number)	232.00

1	2	3	4	5	6	7
56	3.00 Nos [Three numbers]	Supplying and fixing in position 15mm dia brass CP screw down tap / Pillar tap (heavy duty) of approved make conforming to BIS specifications and quality including cost of shellac, thread, etc., complete complying with standard specification and including cutting and threading wherever necessary. (Taps should be got approved by the Executive Engineer before use on the works)		Rs.337.65 (Rupees three hundred thirty seven and sixty five paise only)	1 No (one number)	1012.95

(Fifty six items Only)

Total value put to tender Rs: **2847453.76**

G.S.T @ 12%Rs: **341694.45**

Total Value Put Tender including GST Rs: **3189148.21**

(Or)

3189148.00

SCHEDULE -B

LIST OF DRAWINGS			SUPPLEMENTAL LIST			
Note : All drawings to be signed by the contractors as well as the officer entering into the contract.			As referred to in the specifications including the Preliminary specification of the Madras Detailed Standard Specifications.			
Serial Number	Drawing Number	Description	Serial Number	Drawing Number	Description	Date on which the drawing was supplied.

Date:

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Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

SCHEDULE -C

List of specifications for the various items of works supplementing those described in Schedule A by standard specification numbers.

1. The contractor shall employ the following technical staff for supervising the work and shall see that one of them always at site during working hours personally checking all items of work and paying extra attention to such works as may demand special attentions eg. Reinforced cement concrete works etc.

Sl.No	Name of the members of the technical staff to be employed	Qualification	Year of Passing

Note 1 : In case the contractor is himself professionally qualified the above specification should be suitably altered and in case in which the contractor selected has not given in undertaking to employ qualified men it should be scored out.

2. A penalty of Rs. 2,000/- per month for Diploma Holder and Rs. 5,000/- p.m. for Degree holder be levied in case of default on the part of the contractors as per norms fixed by the Government for employment of Technical Assistant.
3. The employment of Technical Assistant should be based only on the value of contract Engineers with Mechanical Engineering qualification and retired from Civil Engineering Departments are also suitable to supervise the civil Engineering works because of their experience in Civil Engineering Field.
4. In case of the contractor who is professionally qualified is not in a position to remain always at the site of the work during hours personally checking all items of the work and paying extra attention to work as may demand special attention (eg) R.C.C. work etc. he should employ technically qualified men as prescribed for the works.
5. A movement register should be maintained for Technical Assistants employed by the Contractor or for the technically qualified Contractor. The Technical Assistants or Technically qualified contractors should note the arrival and the departure timings every day along with their initials. Such register should be produced during inspection of the Inspecting Officer.
6. It will not be incumbent on the part of the contractor to employ Technical Assistants when the work is kept in abeyance due to valid reasons and if during such period in the opinion of the Executive Engineer, the employment of Technical Assistants is not required for the due fulfilment of the contract.
7. Without prejudice to the generality of the above clause the contractor shall during the currency of the contract, when called upon by the Engineer-in-charge engage and also ensure engagement by the Sub Contractors and others employed by the contractor in connection with the work such number of apprentices in the category mentioned, below and for such period, as may be required by the Engineer-in-charge. The Contractor shall train them as required under the Apprentices Act 1961 and the rules made thereunder and shall be responsible for all obligations of the employer under the said act including the liability to make payments to apprentice as required under that said act.

Contractor

**Sd../.
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai**

Details of Technical personnel under regular employment of the tenderer who can be made available for the work.

Sl. No.	Designation	Name	Educational Qualification	Under regular employment with tenderer since	Total Span of experience	Salary being paid	Remarks

II. TENDER

1. Tenders with tampered seals will not be accepted.
2. Tenders in which the rates are not written in words will generally be rejected. In case of any discrepancy while expressing rates in words, the rate whichever is advantageous to Govt. will only be taken into account. Tenders containing overwriting, corrections which are not attested by the tenderers will be liable for rejection.
3. The contractor should satisfy himself about the availability of the various materials at the quarries specified in the tender schedule for the work before tendering. In case, the contractor feels any difficulty in procuring the material from the stipulated quarries he should make a special mention of the fact with details of the quarry / Quarries from which he proposes to bring the required materials for the work in the covering letter to accompany his tender. Any claim for payment of extra cost on account of increase in the lead for materials at the later stage will not be accepted.
4. In case it is found by the Departmental Officers that the contractor has brought any of the required materials from a quarry with lesser lead than that is specified. in the schedule, proportionate deductions will be made from the contractors rate of payment for the finished work for the respective item / items of work.
5. A deduction of 2% will be made towards income Tax in every payment made to the contractor.
6. The successful tenderer should convert the E.M.D. already deposited and additional security deposit if any required for the fulfillment of contract into National Savings Certificates / Accounts pledged in favour of the Executive Engineer concerned Bank Guarantee for the Security deposit may be furnished vide G.O.No.283/PW(G2)Dept./dated 21.05.1999.
7. Irrevocable Bank Guarantee shall be accepted towards security deposit Retention money only G.O.Ms.No.283/PW(G2)Dept./Dated 21.05.1999.
8. Under Section 7F of T.N.G.S.T. Act 1999 and Notification dated 31.5.99 2% of deduction will be made for Civil work and 4% will deducted in respect of all other works
9. **Percentage Tender Conditions** : On evaluation of Tender if it is found that if the overall quoted amount of the, Tender is less than 5 to 15% of the value put to Tender, the contractor shall pay an additional security at 2% of the estimated value. If the tender discount exceeds 15% to 20% the contractor shall pay an additional, Security deposit of 50% of the difference between the quoted amount and estimate amount Failure to furnish the Additional Security Deposit within 15 days from the date of receipt of Acceptance order and execute the Agreement shall entail cancellation of award of contract and forfeiture of E.M.D. furnished,"

(As per the Office of Engineer - in - Chief, WRO and Chief Engineer (General), P.W.D. Chepauk, Chennai - 5. Circular Memo No. H.D.O. (A) / 65964 / 99.1, dt. 02.12.99).

CONDITION AN ITEM NO.23 OF TENDER NOTICE ACCOMPANING THE TENDER

SI.No.3:- An irrevocable Bank Guarantee will be accepted towards Security Deposit in the prescribed form. An affidavit in prescribed form is to be taken up the contractor on a non-judicial stamp paper before a Judicial Magistrate.

SI.No.4:- As per GO Ms No.296, Finance (Salaries) Department, dt.09.10.2017, the entire GST of the supply will have to finally borne by the procuring entities.

SI.No.5:- In the case of contracts for the Construction of buildings either permanent or semi permanent buildings, a sum equivalent to 2 1/2% (Two and half percent) of the value of work done will be retained with the Government for a period of one year reckoned from the date of completion of the work in order to enable the departmental officers to watch the effect of all seasons on the work done by the contractor. The amount so retained with the Government will be refunded only on expiry of one year period referred to above and on execution of Indemnity bond by the contractor for a further period of four years.

Otherwise on irrevocable Bank Guarantee and affidavit in the prescribed form will be accepted in lieu of retention money.

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III. Execution of Work

1. The entire work should be carried out as per specifications in the National Buildings code and Tamilnadu Building Practice.
2. The contractor shall make his own arrangements for clean and fresh water and shall meet all charges therefore. The special attention of the contractor is drawn to clause 36 of General Conditions of Contract regarding water and lighting.
3. The rates specified in schedule for the different items of works are for the finished work.
4. All duties, taxes, and other levies **except GST**, payable by the contractor under the contract, or for any other cause shall be included in the rates, prices and total Bid Price submitted by the Bidder.
5. All minor baling and pumping incidental on the work shall be borne by the contractor, where heavy pumping is required the baling will be done departmentally. If the contractor is asked to do, the charges will be paid as per actual plus 10%. The Executive Engineer in charge of the work will be the final authority to decide whether pumping is minor or heavy
6. The payment for Earthwork will be made for embankment excluding the quantity of pebbles, boulders and other such materials which shall not normally be used along with the earth for formation of bund.
7. The cement concrete for reinforced cement concrete works shall be machine mixed.
8. The lime mortar shall be ground in mortar mill as per T.N.B.P.
9. More than 90 cm height of concrete should not be laid in one day. At the place where the concrete is stopped, it should end in the form of steps so as to facilitate receiving of the next length of concrete. Once a height of 90 cm of concrete is laid, it should be cured for three days before further concrete is laid.
10. The teakwood or country wood (Karimarudhu or pillaimarudu) shall be of best quality and shall be subject to inspection and approval by Executive Engineer before use on the work.
11. PAINTING : Paint used for the work shall be of approved brand and colour.
12. Plastering : All external corners, "TEE" beam edges and doors and windows opening etc, shall be finished truly vertical or horizontal as the case may be. The rate for plastering shall include the cost of finishing. No separate extra for finishing the corners edges of beams etc. will be paid.
13. The planks for form work and centering for reinforced cement concrete works shall be well seasoned timber approved by the Executive Engineer according to clause 8 of T.N.B.P. No. 30. They must be made smooth and perfectly level at top so as to give smooth and even finish to the reinforced cement concrete ceilings. Alternatively, the contractor may use steel sheets over wooden frames provided the required finish to the underside of the slab is obtained. Mango Planks shall not be used under any circumstances. Centering form works shall be provided to the extent and area ordered by the Executive Engineer during the execution.
14. The arrangements of steel rods for reinforcement for reinforced concrete works shall be in accordance with the working drawing supplied.
15. The Executive Engineer will be at liberty to carryout any portion of the work at any time either departmentally or through any other agency in the interest of Govt. without assigning any reasons therefore to the contractor who is actually doing the work. The contractor is not entitled for any comprehension on account of the same. The contract will be only subject to this condition.
16. In the event of the work being transferred to any of the Circle/Division/Sub-division the Suptg. Engineer/ Exe.Engineer/Asst. Exe.Engr. who is incharge of the Circle/Division/Sub-division having jurisdiction over the work shall be competent to exercise all the powers and privileges reserved in favour of the Government.
17. Earth work : Each and every borrow bit will be individually marked by the Section Officer and in urgent cases by the Masteries incharge of the work subject to the approval of the Section Officer. Earth should be removed only from the places marked and to the depth ordered by the above officer.

Contractor

Sd/..
Executive Engineer, PWD.,
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18. a. The contractor should locate pits for earth work in open places away from the old pits.
- b. No excavation shall be made inside of the tank bund nearer to the toe of the slope than twice the height of the bund and the point not on the outside of the bund than three times in the height of the bund, unless specifically approved by the Executive Engineer.
19. The contractor should not enter any private lands for removal of earth there from without the prior written consent of the landowners. If he does unauthorise delly, the contractor alone will be held fully responsible for consequences arising there from.
20. No borrow pit should be less than 45 cm deep. Gap of 90 cm should be allowed between any two consecutive pits. When the pits are excavated for more than 2m in width longitudinal thandus should be provided.
21. The contractor should not put in borrow pits for removal of earth on a haphazard/fashion and they should be put in the place and in such a manner as, may be directed by the officers in charge of the work. If any such unauthorized pits are put, the contractor will have to fill up the pits at his own cost.
22. A deduction of 20% and 10% will be made in the quantity of earth work measured for thandus and muttus respectively and the amount on account of this deduction will be paid after satisfactory removal of Thandus and muttus. If thandus and muttus are not removed within a month from the date of check measurement by the sub-divisional officer or Executive Engineer or within the period fixed at the discretion of the Executive Engineer, the 20% and 10% deductions will be final and will not be revoked.
23. The contractor shall arrange for sectioning of the bank immediately after the work in each reach is completed. The final sectioning must be completed within 15 days after the completion of the work in the entire reach.
24. Payment for earthwork for New Banks
Payment for earthwork for New Banks will be made as follows

- | | | |
|---|---|---------------------|
| <ol style="list-style-type: none"> i. Quantity as per pit measurement ii. Quantity of New bank after Consolidation based on level | } | whichever is lesser |
|---|---|---------------------|

IV. SUPPLY OF MATERIALS

1. The contractor's rate for the different items of work involving the use of cement are inclusive of the cost of Cement
2. The cement required for the work will be supplied by the contractor himself
3. The contractor should make his own arrangement at his own cost to take delivery of the cement from the dealer and to convey the same to his store shed at site of work. The stock of cement with contractors should be accessible to the Departmental Officers for verification at any time.
4. To be procured from authorised stockiest and dealers with details of printing in the Cement bag as approved by ISI (Pozzolona Cement printed in red colour and other Cement bags including OPC in black colour)
5. All Cement quantity should be supplied in paper bags only at site of work.
6. Test certificate to be obtained from Government institutions and Quasi Government institutions only by mentioning the name of work & period of contract and should not be from private institutions.
7. The minimum content of cement is to be ensured in use for works as specified in IS : 450-1978 Table - 19.

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8a. TABLE - PHYSICAL CHARACTERISTIC REQUIREMENTS OF CEMENT (OPC)

Sl. No.	Characteristics	Requirements		
		33 Grade IS: 269-1989	43 Grade IS: 8112-1989	53 Grade IS : 12269-1989
1.	Minimum compressive strength in N/ Sq. mm 3 days 7 days 28 days	16 22 33	23 33 43	2 7 3 7
2.	Fineness (minimum) (Sq. m/Kg)	225	225	225
3.	Setting Time (minutes) Initial - (minimum) Final - (maximum)	30 600	30 600	30 60 0
4.	Soundness, Expansion Le Chatleier - (maximum) m m Autoclave Test (maximum) %	10 0.80	10 0.80	10 0.80

In Engineer-In-chief, WRO & Chief Engineer (General), Chepauk, Chennai - 5. Circular Memo No. AEE/TI/AE.I/40322/96,dt. 28.05.2002 If the Tender of the successful tenderer is seriously unbalance in relation to the Engineers estimate of the real cost of work to be performed under the contract, the Government may require that the amount of performance security be increased at the expense of the successful tenderer to a level sufficient to protect the Government of Tamilnadu against financial loss in the event of subsequent default tenderer under the contract.

8.b. Cement Conditions :

The Procurement of cement of required specifications for the works subject to the followings.

- A. The contractor shall procure cement required for the works only from reputed cement factories (main producer of their authorized agents, manufacturing cement to ISI standard) acceptable to the Engineer-in-charge. The contractor shall be required to furnish to the Engineer-in-charge bills of payment and cost certificates issued by the manufactures or their authorized agents to authenticate procurement of quality cement from the approved cement factory.
- B. The contractor shall procure in standard packing of 50Kg. Per bag bearing manufacturers. The contractor shall make necessary arrangement at his own cost to the satisfaction of Engineer-in-charge for actual weightment of random sample from the available stock and shall conform with the specification laid down by the Indian Standards Institution as the case may be cement shall be got tested for all the tests including through destructive and non-destructive test materials etc, as directed by the Engineer-in-charge in advance before the use of cement bags. In case test results indicate that the cement arranged by the contractor does not conform to the relevant code, the same shall stand rejected and shall be removed from the site by the contractor at his own cost within a day's time of written order from the Engineer-in-charge to do so.
- C. The employer will furnish air recreating agents and admixtures required to the Contractor free of cost at the employer stores. The use of such admixtures and agents shall be made as per the instructions of the Engineer-in-charge. The cost of Cartage / Storage, handling, batching mixing shall be borne by the Contractor and shall be included by him to unit officers tendered for concrete.
- D. The cement shall be brought at site in bulk of approximately 50 tones or as decided by the Engineers-in-charge for large works
- E. The Cement Go down of the capacity to store a minimum of 1000 bags of cement shall be constructed by the Contractor at site of work, for which no extra payment shall be made. The Contractor shall facilitate inspection of the Cement Go down by the Engineer-in-charge at any time.
- F. The Contractor shall further at all times satisfy the Engineer-in-charge on demand by production or records and test book or by submission of returns and other proofs as directed that the cement is being used as tested and approved by the Engineer-in-charge for the purpose and the Contractor shall at all times, keeps his record up to date and enable the Engineers-in-charge to apply such checks as he may desire.
- G. Cement which has been unduly long in storage with the Contractor or alternatively has deteriorated due to inadequate storage and thus become unfit for use on the works will be rejected by the Department and no claim will be entertained. The Contractor shall forth with remove from the work area any cement the Engineer-in-charge may disallow for use of work and replace it by cement complying with the relevant Indian Standards.

Contractor

Sd/..
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9. Steel required for the work will be supplied by the Contractor himself
10. No separate charges will be paid to the contractor for straightening of mild steel rods. The contractor shall make his own arrangements for cutting to sizes, bindings and tying grills etc. Mild steel rods, should be cut and placed as reinforcements with proper care according to the available rods at site so as to ensure minimum possible wastage.
11. To be procured from authorised dealers and test certificate for strength as well as for unit weight to be produced before use in order to ascertain the size of rod and quantum of Steel actually used in the work.
12. Excessively rusted Steel rods should be rejected.
13. To be delivered at site of work and to be under the custody of contractor only.
14. Use of Steel rods shall confirm to the structural designs approved for the work.
15. Steel supplied shall confirm to standard specifications specified in Table : 16 of IS : 456-1978 as detailed below :
 - a) Mild Steel - Grade I of IS : 432/Part 1/1966. '
 - b) HYSD bars - IS : 1786 - 1985/
 - c) Cold worked - IS : 786-1979 (Grade Fe 415)
16. Steel manufactured from the waste Steel through the process of re-rolling shall be rejected since guarantee for the strength and quality is not certified by the authorised dealer or by the manufacturers.

STEEL : The contractor shall provide mild steel Ribbed Tor Steel Rods and Structural Steel etc., required for the works only from the main and secondary producers manufacturing steel or their authorized agents to the prescribed specifications Bureau or Indian Standards requirements and licensed to affix ISI or other equivalent certificates are to be produced to the Engineer before use of works.

The diameter and weight of steel should be as follows :-

Sl.No.	Diametre of Rod	Sectional weight in kilogram per running meter both for plain and HYSD STEEL
1)	6 Milli metres	0.222
2)	8 Milli metres	0.395
3)	10 Milli metres	0.617
4)	12 Milli metres	0.888
5)	14 Milli metres	1.208
6)	16 Milli metres	1.578
7)	20 Milli metres	2.466
8)	25 Milli metres	3.853

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Technical Circular No. AEF/T10/57017 dated 12.07.2017

- 1.0. In recent years, considerable emphasis has been made by the experts in the construction industry to use Manufactured Sand (M-Sand) as River Sand resources are exhausting very rapidly. It has also been proved that Good quality M-sand can be used as an alternative construction material to River sand.
- 2.0. Though the definition of Manufacturing Sand (M-Sand) as per IS 383:2016 code refers to processed fine aggregates, the Crushed Stone Sand is commercially called as M-sand in the Market.
- 3.0. IS 383:2016 code under clause 3.1.2 defines the crushed sand as, (1) Crushed stone sand - Fine aggregate produced by crushing hard stone. (2) Manufacturing fine aggregate (Manufactured Sand) - Fine aggregate manufactured from other than natural sources, by processing materials, using thermal or other process such as separation, washing, crushing and scrubbing.
- 4.0. In the reference circular cited, PWD permitted to use Crushed Stone Sand hereafter called “**CS-Sand**” in the construction work as an alternate material to Natural Sand with the condition that it should comply with all the requirements as stipulated by relevant codes of Bureau of Indian Standards.
- 5.0. However, there has been general reluctance to use the CS-Sand in construction works mainly due to lack of supply of good quality CS-Sand. It has been noticed that Quarry Dust which contains Flaky particles and higher percentage of Micro fines (particles less than 75 micron) is being supplied in the name of CS-Sand and these properties affect the quality of concrete and other works.
- 6.0. Hence, in continuation of earlier circular instructions issued, to bring awareness about the use of good quality CS-Sand and to promote the use of the CS-Sand an alternate to River Sand, the following further circular instruction are issued in respect of quality checks to be carried out on CS-Sand and the manufacturing process of good quality CS-Sand.

Quality checks on Crushed Stone Sand

- 7.0. Following aspects help to assess the quality of CS-Sand.

Carrying out Simple field tests for certain parameters.

Testing at the Laboratories shall be in accordance with IS Bureau of Indian Standards.

Inspection of CS-Sand production unit to ensure that the unit has the five stage processes established and practiced.

Field Tests on Crushed stone sand

- 8.0. Keeping in hand the Crushed Stone Sand taken from a heap and just by visual observation and rubbing it in between fingers, excess presence of quarry dust , flakiness , gradation , texture of crushed stone sand etc., is verified and quality can be ensured based on the experience.



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**Testing of CS-Sand by “visual observation” and “rubbing with hand”
to assess the presence of Quarry
dust**

Shape test by visual observation

9.0. Particles retained on 4.75mm and 2.36 mm can be verified visually for the particle shape. Additionally, an image taken with the help of Mobile camera that has resolution of 8 MP and more can be zoomed to verify the shape.



Good quality CS-Sand (2.36mm) - Cubical



River Sand (2.36mm) - Cubical



Poor Quality CS-Sand with Flaky Particles



Good Quality CS-Sand



VSI Crushed Sand - Cubical - Good Quality



JAW Crushed Sand - Flaky - Poor

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10.0. Sieve Analysis can be carried out at site with the set of sieves as stipulated by BIS to find out the particle size distribution of CS-Sand across various size fractions.

Particles less than 75 micron (Micro fines)

11.0. This test is done by “Wet Sieving” CS-Sand sample through 75 micron sieve through which the presence of Micro fines can be measured. Though IS 383:2016 accepts 15% as upper limit for presence of Micro fines, according to Industry experts it is advisable to limit this upper value to 7%.



Cube test for compressive strength

12.0. After the use of CS-Sand, to test the compressive strength of concrete, the specimen of required numbers of standard cube of (150 mm x 150 mm x 150 mm) have to be casted and cured in water and tested for 3, 7 and 28 days and test results should comply the stipulated requirements of Bureau Indian Standards.

Laboratory Tests on CS-Sand

13.0. CS-Sand should adhere to the highest standards and must undergo the following quality tests

1. Sieve analysis
2. Specific gravity
3. Water absorption
4. Bulk density (loose and compact)
5. Alkali aggregate reaction
6. Soundness
7. Deleterious materials
8. Organic impurities
9. Micro fines content
10. Chloride and Sulphate Content
11. Petro graphical Analysis if Manufacturer does not possess.
12. Tests for Silt and clay

14.0. List of few labs for conducting test on CS-Sand are furnished below :

1. National Test House, Government of India, Taramani, Chennai
2. ICOMAT- The IIT incubated lab, Perungudi, Chennai
3. Soil Mechanics and Research Lab, PWD, Taramani, Chennai
4. Tamilaga Arasu Building Research Station, Taramani, Chennai
5. Labs of various Engineering Colleges all over Tamilnadu

Plastering

15.0. The specialized CS-Sand of particular gradation (as called Puuchchu Manal) should alone be used for plastering with addition of super plasticiser at the rate of 100ml per bag of cement for better bonding and achieving the required strength of plaster.

Contractor

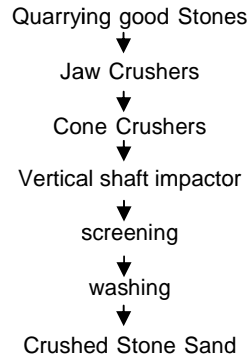
Sd/..
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Buildings (C&M) Division, Pudukottai

Caution

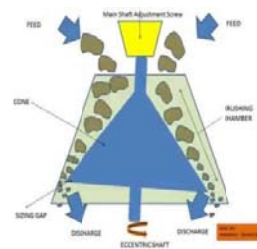
16.0. By-products during crushing of rocks are not Crushed Stone Sand. A Crusher Dust (or Quarry Dust) produced from fine screening of quarry crushing cannot be called Crushed Stone Sand.

The fine particles obtained, as by-products during crushing of rocks to produce coarse aggregates (by jaw crusher and/or cone crusher) are known as Quarry Rock Fines / Quarry Dust / Crusher Dust. These by-products are not suitable for concrete or mortar as they contain higher percentage of dusty, flaky particles of un-controlled sizes with high water absorbent property. If the crusher dust is flaky and angular in shape, the workability will be very difficult. There is no plasticity in the concrete and mortar which makes it even difficult for the mason to work, whereas if it is cubical in shape with grounded edge, superior gradation and good plasticity to concrete will be obtained.

17.0. Crushed Stone Sand (CS-Sand) manufacturing process



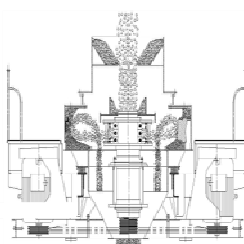
Jack Crusher



Cone Crusher

18.0. Vertical Shaft Impact (VSI) Crusher

This involves an important stage of using Tertiary crusher called Vertical Shaft Impact (VSI) Crusher which carries out a combined process of reducing coarser particles into finer particles and shaping the fine particles by removing the flaky and weak edges.



Adhering to the above mentioned Technical aspects and based on various studies conducted by Industry experts and also examination made by TNPED, use of Good quality Crushed stone sand with distinctive properties, manufactured following the above mentioned processes can be permitted in PWD for construction works as alternate material to River Sand. Further it is informed that, Good quality C.S-Sand provides greater durability and required strength to concrete by overcoming deficiencies like segregation, honey combing, voids and capillary action. The rates for crushed Stone Sand and River Sand are Provided vide page 19 of PWD Schedule of Rates for the Year 2017-2018.

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CENTERING WORKS

Payments for centering works for all R.C.C. items shall be made only after concrete is laid, even though separate rate is called for, for centering work in the Schedule.

The contractor will be held responsible for the proper safe custody of all the Departmental materials which are handed over to the contractor until they are finally used on the work or taken over by the Department.

The shed for storing materials should be put up by the contractor at his own cost.

V. Special Conditions for Earthwork Excavation in Hard Rock Requiring Blasting

In the case of earthwork excavation in hard rock requiring blasting the tenderer should observe the following conditions.

- a. The blasted rock shall be compactly stacked for measurement. The net quantity of blasted rock shall be arrived at by allowing a deduction of 40% for voids and compared with the pre-measured quantity and only the lesser of the Two shall be paid.

Where the rock other than hard rock and hard rock are mixed upon ground, the Two kinds of rocks shall be stacked separately for measurement. The net measurement of two kinds of rock shall be compared with the pre-measured quantity and only the lesser of the Two shall be paid for. If the total of net measurement of the two kinds of rock exceeds (or) falls short of the measurements of mixture, the volume of mixture proposed to be paid shall be apportioned in the proportion of the net actual measurements of stacks of the Two kinds of rocks.

Note :

- i) 40% deduction for voids shall be adopted for compact and proper stacking but such percentage of deduction shall be increased for loose (or) improper stacks.
- ii) The blasted rock material, stacked, measured and paid for shall become the property of the department.
- iii) I.S. Code No. 1200 (Part I) 1969 method of measurement of buildings and Civil Engineering of work. Part I "Earthwork" may be referred as and when necessary.

VI MOSAIC FLOORING

1. Cement concrete flooring tiles shall be manufactured from a mixed cement natural aggregates and colouring materials where required by pressure process. During manufacture the tiles shall be subjected to a pressure of not less than 140 kg. per. sqm. (or) 2000 lbs. sq.inc)
2. Proportion of cement to aggregate in backing of the tiles shall be not less than 1:5 by weight.
3. On removal from mould, the tile shall be kept in moist condition continuously for at least 7 days and subsequently if necessary kept in moist for such a longer period that would ensure their conformity, to the requirements of Traverse strength, Resistance to wear and tear absorption and would minimize shrinkage and cracking. Tiles shall be stored under cover.
4. TOLERANCE : Tolerance on length and breadth shall be plus or minus one millimeter.

Thickness of Wearing Layers

Class of tiles	Minimum thickness of wearing layer (mm)
Plain cement and plain coloured tiles for general duty	3
Plain cement and plain coloured tiles for heavy duty	6
(Mosaic) terrace tiles with chips of size varying from the smallest upto 6mm (1/4")	5
(Mosaic) terrace tiles with chips of size varying from the smallest upto 12 mm (1/2")	5

Colours and Appearance: The colour and texture of the wearing layer shall be uniform throughout its thickness. When specifying the tiles, the contractor should specifically indicate whether the chips to be used are from the smallest units 6mm from smallest upto 12mm or from the smallest upto 200mm size. The officers of the department shall also specify size of chips by referring the approximate photograph given in figure 4 to figures 6 in Indian Standard 1237/1959.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

Test inspection and rejection of defective materials and works

- 1) The contractor shall provide proper facilities at all for the testing of materials and inspection of the work by the Executive Engineer, and the Executive Engineer shall accordingly also have access at all times to the places of storage of manufacture where materials are being made for use under the contract to determine that manufacture is proceeding in accordance with the drawings and specifications.
- 2) The contractor shall, upon demand, also forward for the Executive Engineer's inspection test certificate supplied by the vendors, when he is purchasing consignments of cement, steel and other materials in respect of which certificates are usually available.
- 3) The Executive Engineer shall have power to reject at any stage, any work which be considered to be defective in quality of material or workmanship and be shall not be debarred from rejecting wrought materials by reasons of his having previously passed them in an unworked conditions. Any portion of the work or materials rejected or pronounced to be inferior to or not in accordance with the drawings and specifications, shall be taken down and removed from the work site at the contractor's expense, within 24 hours after written instruction to that effect have been given by the Executive Engineer. Replacement shall at once be made in accordance with the specifications and drawings at the contractors expense.
- 4) In case of default on the part of the contractor to carry out such orders the Executive Engineer shall have power to employ and pay other reasons to carry out the orders at the contractor's risk and all expenses consequent thereon and incidental there to shall be borne by the contractor.
- 5) In lieu of rejecting work **not** done in accordance with the contractor, the Executive Engineer may allow such work to remain and in that case shall make such allowance for the difference in value, as in his opinion may be reasonable.
- 6) Works opened for inspection. The contractor shall, at the request of the Executive Engineer, within such time as the Executive Engineer shall **name**, open for inspection any work covered up and should the contractor refuse or neglect to comply with such a request the Executive Engineer may employ other workmen to open up the same. If the said work has been covered up in contravention of the Executive Engineer's instructions or if on being opened up, it be found not in accordance with drawings and specifications or the written instructions of the Executive Engineer the expenses of opening it and covering it up again whether done by or recovered from the contractor. If the work has not been covered up in contravention of such instructions or if on being opened up it be found to be in accordance with the drawings and specifications or the written instructions of the Executive Engineer, the expenses aforesaid shall be borne by Government and shall be added to the contract sum, provided always that in the case of foundations, or any other urgent works so opened up and requiring immediate attention the Executive Engineer shall, within reasonable time after the receipt of a notice from the contractor that the work has been opened, make or cause the inspection there of to be made, and at the expiration of such time if such inspection shall not have been made, the contractor may cover up the same, and shall not be required to open it up again for inspection except at the expense of Government.

II) Defects, shrinkages, etc. after completion

- 1) Any defects, shrinkage or other faults which may appear within six months from the completion of the works arising, in the opinion of the Executive Engineer from faulty materials or workmanship not in accordance with the drawings and specification or the instructions of the Executive Engineer shall, upon the directions in writing of the Executive Engineer and within such reasonable time as shall be specified them, be amended and made good by the contractor at his own cost, unless the Executive Engineer shall decide that the contractor ought to be paid for the same at the rates agreed on such reduced or other rates, as the Executive Engineer may fix and incase of default, the Executive Engineer may employ and pay other persons to amend and make good such defects, shrinkage or other faults or damage, and all expenses consequent thereon and incidental thereto shall be borne by the contractor.
- 2) The shrinkage period of six months referred to in main clause 26.1 above, will be five years in respect of all contracts for construction of original buildings either semi permanent or permanent to ensure structural stability of the building. (G.O.Ms. No. 181 PWD 28.1.86)
- 3) Provided that in the event of Government taking over portions of the works as and when they are completed the liability of the contractor under this clause shall extend to a period of six months (or five years as the case may be) from the date of final taking over the of the work irrespective of the actual dates on which portion of the works were over.

3. Executive Engineer's Decision : To prevent disputes and litigation, it shall be accepted as an inseperable part of the contract that in matters regarding materials workmanship, removal of improper work, interpretation of the contact drawings and contract specifications, mode of procedure and the carrying out of the work, the decision of the Executive Engineer shall be final and binding on the contractor and in any technical question which may arise touching the contract, the Executive Engineer's decision shall be final and conclusive.

4. Dismissal of workmen : The contractor shall employ in and about the execution of the works only such persons as are careful, skilled and experienced in their several trades and callings and the Executive Engineer shall be at liberty to object to and request the . Contractor to remove from the works any person employed by the contractor in or about the execution of the works who in the opinion of the Executive Engineer misconducts himself or incompetent or negligent in the proper performance of his duties and such persons shall not be again employed upon the works without the permission of the Executive Engineer.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

GENERAL CONDITIONS OF CONTRACT

A-1. DEFINITIONS AND INTERPRETATIONS

7. Definition of terms

7.1 Wherever the words and expressions defined in this clause or pronouns used in their stead occur in contract documents (which includes the T.N.B.P) they shall have the meanings hereby assigned to them except where the context otherwise requires :

- a) Executive Engineer means the Executive Engineer for the time being in charge of the concerned work under execution or such other departmental assistants or subordinates to whom the Executive Engineer may have delegated certain duties, acting severally within the scope of the particular duty entrusted to them.
- b) No delegation by Executive Engineer which affects agreements it is however, to be distinctly understood that the Executive Engineer or the Superintending Engineer or the higher authority who is vested with the powers of acceptance of the particular agreement under reference will make no delegation of powers to such assistants or subordinates with in any way affects the agreement and its contract condition when such agreement is to be or has been accepted by the Executive Engineer or by the other higher authority respectively. The duties of such assistants or subordinates will be solely duties of supervision to ensure compliance with contract conditions.
- c) Contractor means the particular persons firm or corporation with whom an agreement has been made by the Executive Engineer or higher authority as the case may be, for executing work defined in the concerned agreement and for purpose of instructions regarding compliance with contract conditions, it shall include the contractor's authorised agent, who is maintained on the work by the contractor.
- d) Works or work means the works by or by virtue of the contractor contracted to be executed whether temporary or permanent and whether original, altered substituted or additional or connected with the supply repairs or carriage of tools and plant and supply of manufacture of other stores.

7.2 Works importing the singular only also include the plural and vice-versa where the context requires.

NOTE: The terms section officer, Assistant Executive Engineer, Executive Engineer, Superintending Engineer and Chief Engineer, used in the following clauses shall where the context so requires, be construed as also including officers of the corresponding grade in the Highways and Rural Works Department.

8. Evidence of Experience: Tenderers shall, if required, present satisfactory evidence to the Executive Engineer that they have been regularly engaged in constructing such works, as they propose to execute and that they are fully prepared with the necessary capital, machinery and materials to begin the work promptly and to conduct it as required by T.N.B.P. and the other specifications for the particular work if tendered for, in the event of their tender being accepted.

9. Legal address Notices

- 9.1 Tenderers should give in their tender their place of residence and postal address. The delivering at the above named place or posting in a post box regularly maintained by the Post Office Department or sending by letter registered for acknowledgement of any notice, letter or other communication to the contractor shall be deemed sufficient service thereof upon the contractor in writing as may be changed at any time by an instrument executed by the contractor, and delivered to the Executive Engineer.
- 9.2 Nothing contained in the agreement and its contract conditions shall be deemed to preclude or render inoperative the service of any notice, letter or other communication upon the contractor personally.

10. STATEMENT OF APPROXIMATE QUANTITIES IN SCHEDULE – A

- 10.1 The quantities mentioned in tender notices and in agreement schedule - A, are worked out from the relevant drawing in office and may or may not be the actuals required for execution. The Executive Engineer does not be the expressly or by implication agree that the actual amount of work to be done will correspond therewith but reserves the right to increase or decrease the quantity of any class or portion of the work as he deems necessary.
- 10.2 Tenderers must satisfy themselves by a personal examination of the site of the proposed work, by examination of the plans and specifications and by others means as they prefer as to the accuracy and sufficiency of the statement of quantities and all conditions affecting the work and shall not at any time after the submission of their tender, dispute or complain of such statement of quantities or assert, that there was any misunderstanding in regard to the nature or amount of the work to be done nor in consequence apply for extension of time for completion beyond the agreement date.\
- 11. **Approximate not to mean deviation from drawings and specification:** This declaration of the approximate, nature of the statement of quantities in Schedule. A does not, however, in any way imply that the quantities will be increased for departure by the contractor from strict compliance with sanctioned drawings and specifications to suit his own convenience or reduce his costs.
- 12. **To compare tenders:** The quantities in Schedule - A are given for a uniform comparison of lump-sum tenders.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

C DRAWINGS AND SPECIFICATIONS

- 13. Purpose:** The contract drawing if any, read together with the contract specifications are intended to show and explain the manner of executing the work and to indicate the type and class of materials to be used.

14. Conformance

- 14.1 The works shall be carried out in accordance with the drawings and specifications which form part of the contract and in accordance with such further drawings, details and instructions, supplementing or explaining the same as may from time to time be given by the Executive Engineer.
- 14.2 If the work shown on any such further drawings or details, or other work necessary to comply with any such instructions, directions, or explanations, be in the opinion of the contractor, of a nature which the schedule rate in the contract does not legitimately cover he shall before proceeding with such work, give notice in writing to this effect to the Executive Engineer and contractor failing to agree as to whether or not there is any excess rate to be fixed and the Executive Engineer deciding that the contractor is to carry out the said work, the contractor shall accordingly do so, and the question whether or not there is any excess and if so the amount thereof, shall failing agreement, be settled by an arbitrator as provided in the arbitration clause, unless the subject is one which is left to the sole discretion of the Executive Engineer under the clauses of these conditions of contract and the contractor shall be paid accordingly.
- 14.3 It shall be the responsibility of the contractor to give timely notice to the Executive Engineer regarding anything shown on the drawings and not mentioned in the specification, or mentioned in the specifications and not shown in the drawings or any error or discrepancy in drawings or specifications and obtain his orders thereon. Figure dimensions are to be taken and not those obtained from scaling the drawings. In any discrepancy between drawings and specifications, the contractor shall forthwith apply to the Executive Engineer for such further instructions, drawings or specifications as he requires it, being understood that the subject to be dealt with under the building procedure of best modern practice. The Executive Engineer will furnish instructions, drawings or specifications if in his opinion, they are required by competent workmen, for the proper execution of the work.

15. Variations by way of modifications, omissions or additions.

- 15.1 For all modification, omissions from or additions to the drawings and specification, the Executive Engineer will issue revised plans, or written instructions or both and no modification, omissions or additions shall be made unless so authorised and directed by the Executive Engineer in writing.
- 15.2 The Executive Engineer shall have the privilege of ordering modifications, omissions or additions at any time before the completion of the work and such orders shall not operate to annul those portions of the specifications with which said changes do not conflict.
- 15.3 The contractor shall submit to the Executive Engineer a statement giving details of the claims for any additional work within 30 days of the work and no claim for any such work will be considered which has not been included in the statement.

16. Copies of Drawing and Specifications: One copy of the available drawings and specifications (apart from the T.N.B.P. a copy of which the contractor should purchase for his reference) shall be furnished free of cost to the contractor for his own use. Such copies of supplementary details furnished by the Executive Engineer shall be kept by the contractor on the work until the completion thereof, and the Executive Engineer shall at all times have access to them.

17. Signed drawing - No authority to the Contractor: 1 No signed drawing shall be taken as in itself an order for variation, unless either it is entered in the agreement schedule of drawings under proper attestation of the contractor and the Executive Engineer or unless it has been sent to contractor by the Executive Engineer, with a covering letter confirming that the drawing is an authority variation of the contract under reference.

D. MATERIALS AND WORKMANSHIP

18. To be the best quality

- 18.1 All materials, articles and workmanship shall be the best of their respective kind for the class of work described in the contract specification and schedule materials being obtained from sources approved by the Executive Engineer. The word "best" as used in these specifications shall mean, that in the opinion of the Executive Engineer there is no other superior quality of materials or finish of articles on the market and that there is no better class of workmanship available for the nature of the particular item described in the contract schedule. The contractor shall, upon the request of the Executive Engineer, furnish him with the vouchers to prove that the materials are such as are specified.
- 18.2 Samples of materials shall be furnished at the contractor's expense to the Executive Engineer when called for in the tender notice or ordered to be furnished by the Executive Engineer prior to execution of any work.

19. Conversion for proportions : Wherever the proportions are written by figures without further description and where the meaning is otherwise clear as to which figure is intended to apply to each material, then the usual conventions will be understood to apply.

For example,

1:2 Means 1 lime (or cement in accordance with the context) and 2 sand.

1:2:4 Means 1 lime (or cement in accordance with the context) 2 sand 4 broken stone (or other aggregate in accordance with the context).

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

20. Measurement and mixing: In the case of loose materials such as lime sand, cement, broken stone, surki, mortar, etc. the proportions demanded by the specifications must be measured in properly constructed measuring boxes or weighed or in such other manner as shall be instructed by the Executive Engineer. Measurement is not to be done in loose heaps when intimate mixtures such as mortar concrete, etc., are to be formed. The mixing must always be done on closely constructed platform so that there will be no leakage of any of the materials through the floor of the platform and also that no foreign materials can be incorporated during the mixing. These platforms must be approved by the Executive Engineer. The cost of such measuring boxes and platforms and all the work referred to herein shall be borne by the contractor.

21. Data: The materials and labour utilised in the execution of work by the contractor shall not be less than that given in the Tamilnadu P.W.D Standard Data for the relevant item.

NOTE : In case the contractor considers that the materials and labour provided in the T.N.P. W.D Standard data for the execution of particular items of work are in excess, the contractor may furnish detailed data for such items along with tender with reasons for variations from P.W.D Standard Data.

22. Layout of materials stacks : The contractor shall deposit materials for the purpose of the work on such parts only on the ground as may be approved by the Executive Engineer. He shall submit for the approval of the Executive Engineer before starting work, a detailed site survey clearly indicating positions and areas where materials shall be stacked and sheds built.

23. Source of purchase of materials and stores: The Executive Engineer shall, during the progress of the work, have power to cause the contractor to purchase and use such materials or supplies from Government brick fields, stores or other sources as may be specified in the contract for the purpose therein specified.

24. Contractor liable for materials supplied by Government:

24.1 The contractor shall be responsible for all materials and other articles and things which may be supplied by Government from the time he takes delivery thereof and shall make good any loss, damage wastage or undue wear and tear that may take place from whatever cause and pay to Government for such loss, damage, wastage or undue wear and tear such sum as the Executive Engineer may determine.

24.2 If at any time subsequent to the execution of the agreement Government materials other than those specified in the Agreement are to be supplied to the contractor for use on work they will be charged at the market value prevailing at the time of supply or stock issue rate which - ever is greater. The contractor will be informed in writing the rate which he demands for finished work in view of the fact that he is to use Government materials.

24.3 Deleted.

25. Test inspection and rejection of defective materials and works

25.1 The contractor shall provide proper facilities at all times for the testing of materials and inspection of the work by the Executive Engineer, and the Executive Engineer shall accordingly also have access at all times to the places of storage or manufacture where materials are being made for use under the contract to determine that manufacture is proceeding in accordance with the drawings and specifications.

25.2 The contractor shall, upon demand, also forward for the Executive Engineer's inspection test certificate supplied by the vendors, when he is purchasing consignments of cement, steel and other materials in respect of which certificates are usually available.

25.3 The Executive Engineer shall have power to reject at any stage, any work which he considers to be defective in quality of materials or workmanship and he shall not be debarred from rejecting wrought materials by reasons of his having previously passed them in an unworked condition. Any portion of the work or materials rejected or pronounced to be inferior or not in accordance with the drawing and specification, shall be taken down and removed from the work site at the contractor's expense, within 24 hours after written instructions to the effect have been given by the Executive Engineer. Replacement shall at once be made in accordance with the specifications and drawings at the contractor's expense.

25.4 In case of default on the part of the contractor to carry out such orders the Executive Engineer shall have power to employ and pay other persons to carry out the orders at the contractor's risk and all expenses consequent thereon incidental thereto shall be borne by the contractor.

25.5 In lieu of rejecting work **not** done in accordance with the contract, the Executive Engineer may allow such work to remain, and in that case shall make such allowance for the difference in value, as in his opinion may be reasonable.

25.6 Works opened for inspection:- The contractor shall, at the request of the Executive Engineer, within such time as the Executive Engineer shall **name**, open for inspection any work covered up and should the contractor refuse or neglect to comply with such a request the Executive Engineer may employ other workmen to open up the same. If the said work has been covered up in contravention of the Executive Engineer's instructions or if on being opened up, it be found not in accordance with drawings and specifications or the written instructions of the Executive Engineer the expenses of opening it and covering it up again whether done by or recovered from the contractor. If the work has not been covered up in contravention of such instructions or if on being opened up it be found to be in accordance with the drawings and specifications or the written instructions of the Executive Engineer, the expenses aforesaid shall be borne by Government and shall be added to the contract sum, provided always that in the case of foundations, or any other urgent works so opened up and requiring immediate attention the Executive Engineer shall, within reasonable time after the receipt of a notice from the contractor that the work has been opened, make or cause the inspection thereof to be made, and at the expiration of such time if such inspection shall not have been made, the contractor may cover up the same, and shall not be required to open it up again for inspection except at the expense of Government.

Contractor

Sd./.
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

26. Defects, shrinkages, etc, after completion

26.1 Any defects, shrinkage or other faults which may appear within six months from the completion of the works arising, in the opinion of the Executive Engineer from faulty materials or workmanship not in accordance with the drawings and specification or the instructions of the Executive Engineer shall, upon the directions in writing of the Executive Engineer and within such reasonable time as shall be specified them, be amended and made good by the contractor at his own cost, unless the Executive Engineer shall decide that the contractor ought to be paid for the same at the rates agreed on such reduced or other rates, as the Executive Engineer may fix and in case of default, the Executive Engineer may employ and pay other persons to amend and make good such defects, shrinkage or other faults or damage, and all expenses consequent thereon and incidental thereto shall be borne by the contractor.

26.1 (A) The shrinkage period of six months referred to in main clause 26.1 above, will be five years in respect of all contracts for construction of original buildings either semi permanent or permanent to ensure structural stability of the building.(G.O.Ms. No. 181 PWD 28.1.86)

26.2 Provided that in the event of Government taking over portions of the works as and when they are completed the liability of the contractor under this clause shall extend to a period of six months (or five years as the case may be) from the date of final taking over the of the work irrespective of the actual dates on which portion of the works were taken over.

27. Executive Engineer's Decision

27.1 To prevent disputes and litigation, it shall be accepted as an inseparable part of the contract that in matters regarding materials workmanship, removal of improper work, interpretation of the contract drawings and contract specifications, mode of procedure and the carrying out of the work, the decision of the Executive Engineer shall be final and binding on the contractor and in any technical question which may arise touching the contract, the Executive Engineer's decision shall be final and conclusive.

28. Dismissal of workmen

28.1 The contractor shall employ in and about the execution of the works only such persons as are careful, skilled and experienced in their several trades and callings and the Executive Engineer shall be at liberty to object to and request the contractor to remove from the works any person employed by the contractor in or about the execution of the works who in the opinion of the Executive Engineer misconducts himself or incompetent or negligent in the proper performance of his duties and such persons shall not be again employed upon the works without the permission of the Executive Engineer.

D.1 GENERAL OBLIGATIONS

29. Contractor's maistri or agent and contractor's staff: The contractor shall in his own absence keep constantly on the works a competent maistry or agent and any directions or explanations given by the Executive Engineer or his representatives to such maistry or agent shall be held to have been given to the contractor. The contractor shall further provide all staff which is necessary for the proper supervision, execution and measurement of the work to ensure full compliance with the terms of the contract.

30. Government Maistries or agents: The Government may be represented on the work by an agent clerk of the works, or maistry who is not borne on the official or officers and subordinates of the P.W.D. or Highways and Rural Works Department. He (if appointed) shall, in the absence of the Executive Engineer, furnish the contractor with the Executive Engineer's or his representative's instructions of the works and the contractor shall duly comply with such instructions and directions to the progress and execution of the works and the contractor shall duly comply with such instructions and directions and shall on the written requisition of the maistry clerks of works or agent, stay the further progress of any portion of the works which in his judgment is being constructed with unsound or improper material or workmanship, until the opinion and determination of the Executive Engineer shall be obtained thereon, but such maistry clerk of works or agent is to have no power whatever to order any extra works or deviation from the specifications and drawings.

E. INCLUDED IN CONTRACT RATES

3.1 Defining contract schedule rates : The rate entered in a contract schedule for any class of work shall be for finished work in situ and shall include all contingent expenses whether direct construction expenses involved in the building in place in accordance with the drawings and specifications or whether they be expenses imposed by an outside authority such as local body. Such contingent expenses shall not entitle the contractor to claim an extra in respect thereof.

32. Carriage

32.1 Rates for finished work shall always include the cost of conveyance and all leads, lifts, loading unloading and stacking in the manner and at the place ordered by the officer in immediate charge of the work, unless circumstances necessity provisions for a separate schedule item, in which case for such will be specified in the tender notice or schedule.

32.2 Wherever the term "carriage" of "conveyance" is used in a schedule item, it shall in the absence of other schedule provisions or modifying description in the specification, be taken to include all leads, lifts loading, unloading and stacking in uniform stacks to the satisfaction of the Executive Engineer with careful attention to close packing in case of materials which are to be measured in stacks as a basis of payment for finished work.

NOTE 1: In the case of important leads and lifts as may occur in river conservancy and other such works where lifts over flood banks and long leads may be involved, it is usual to make separate schedule item provision with a specification defining the exact work to be done for each tendered rate.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

NOTE 2 : Payment for carriage will ordinarily be by bulk for weight at a rate between specified place and on the basis of the method adopted in the standard schedule of rates for carriage of materials. The distances will be measured by the nearest practicable and cheapest routes, whether metalled or unmetalled road or cart track.

32.3 When cart or vehicles of any sort are engaged by the day, the quantity of materials to be conveyed, the distance to be travelled and the number of trips to be made shall, if he considers necessary be fixed by the Executive Engineer.

32.4 The contractor is responsible for making good all loss in transporting materials entrusted to him or his agents, whether caused by wastage, breakage, theft or any other cause.

32.5. No payments shall, in any case, be made for the return trips with carts empty. Where there are loads also for the return trip the agreement rates should allow for the reduced cost thereby on each set of materials so conveyed.

33. Constructions plant

33.1 The contractor shall include in his tendered price and shall provide and install all necessary construction plant and shall use such methods and appliances for the performance of all the operations connected with the work embraced under the contract as will secure a satisfactory quality of work and rate of progress which in the opinion of the Executive Engineer will ensure the completion of the work within the time specified. If at any time before the commencement, or during the progress of the work, or any part of it such methods or appliances appear to the Executive Engineer to be insufficient or inappropriate for securing the quality of the work required or the said rate of progress, he may order the contractor to increase their efficiency or to improve their character, and the contractor shall comply with such orders, but the failure of the Executive Engineer to demands such increase of efficiency or improvement shall not relieve the contractor from his obligation to secure the quality of work and the rate of progress required by the contract and the contractor alone shall be responsible for the efficiency and safety of his plant, appliances and methods.

33.2 It is however, open to Executive Engineer to lend or supply to the contractor any tools, implements, materials and machinery that the Executive Engineer may consider desirable but for any such tools, implements, materials and machinery that may be lent or supplied to contractor by Government, the contractor shall pay such deposit and hire, or purchase price as may be determined by the Executive Engineer. All articles that may be so lent or hired to the contractor shall be returned in good serviceable condition by him to the Executive Engineer before the final bill for work is paid and any shortage or amage shall be recovered from the contractor in the final bill at such rate as may be determined by the Executive Engineer after making

33.3 Such allowance as he may consider suitable for fan- wear and tear.

34. Scaffolding instructions: All requisite scaffolding shall be provided at the contractor's expense and shall be double, i.e. it must have two sets of upright supports. Care must be taken to ensure the safety of the work people and the contractor must comply with such instructions as the Executive may issue to ensure such safety. The contractor will be entirely responsible for any damage or injuries to persons or property resulting from ill erected scaffolding, defective ladders, or otherwise arising out of his default in this respect. The contractor's attention also invited to the "safety code"

35. Temporary structure: The Contractor shall erect and maintain at his own cost temporary weather proof sheds at such places and in a manner approved by the Executive Engineer for keeping materials under cover. The contractor shall also provide and maintain at his own expenses such temporary fences, guards, bridges and roads as may be necessary for the execution of his contract work or for safeguarding or accommodating the public. If the Executive Engineer shall order any departure from the arrangements made of the contractor, the contractor shall comply with such orders as the Executive Engineer may issue to safeguard or accommodate the public Sheds for housing workmen shall be provided at the contractor's expense if, in the opinion of the Executive Engineer, such are necessary or desirable,

36. Water and Lighting: The contractor shall pay all fees and provide water and light as required from municipal mains or other sources and shall pay all charges therefore (including storage tanks, meters, etc) for the use of the work and workmen unless otherwise arranged and decided on in writing with the E.E. The water for the works shall be, so far as practicable, free from earthy vegetable, or organic matter and from salts or other substances likely to interfere with the setting of mortar or otherwise prove harmful to the work.

37. Sun protection keeping dry and pumping: The contractor shall at his own expense arrange all requisite protection of the work and materials against sun or rain effects and shall keep all portions of the work free from water to the satisfaction of the Executive Engineer and shall use his own plant for the purpose unless otherwise specifically provided in the contract specification.

38. Tools and Seignior age

38.1 The contractor shall, unless otherwise specifically stated in the tender notice and subsequently on this basis in the contract be responsible for the payment wherever payable of all import duties, tolls, octroi duties, seignior ages, quarry fees, etc. on all materials and articles that he may use.

38.2, The contractor shall be solely responsible for the payment of sales tax under the provision of Madras General Sales Tax Act 1939 (Madras Act IX of 1939) as in force for time being and the rates for the various items of the work shall remain unaffected by any change that may be made from time to time in the rate at which such tax is payable.

38.3 Notwithstanding anything's contained in section 10 of the Indian Traffic Act, of 1894, the rates for items involving, the use or supply of articles obtained' by the contractor from outside India shall remain unaffected by any changes that may be introduced in Customs duties.

NOTE : For works carried out on behalf of the Government of India, Seignior age fees, etc, referred to in this clause will have to be levied in every case.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

38.4 No seignior age shall be charged where due for materials quarried from the P.W.D. or other Government quarries Assistance as necessary will be given to the contractor by the department to obtain access to quarries approved by the Executive Engineer. No plot rent shall be charged for materials stacked on the Government lands during the course of construction provided all such materials are removed within one month after the work is completed.

38.5 Seignior age charges due for use of private quarries and private land shall be paid by the contractor.

38.6 The contractor shall form his own approach road to the worksite for which no extra will be due to him. On completion 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.

39. Setting out works: The contractor shall be responsible for the true and proper setting out of the works and for the correctness of the position, levels, dimensions and alignment of all parts of the works and for the provision of all materials, staff and labour in connection therewith.

40. Cleaning up during progress and for delivery : All rubbish shall be burnt or removed from the site, as it accumulates. All floors, stairs, landing windows, surface and soil drains shall be cleaned down and put in a thoroughly complete clean, sound and workman like state to the satisfaction of the Executive Engineer before the work is finally handed over all rubbish and surplus materials not required by the Executive Engineer having first been removed by the Contractor. The contractor shall be give notice in writing to the Executive Engineer when the work is so ready to be handed over and shall be responsible for its maintenance until it is taken over by the Executive Engineer.

F. RESPONSIBILITIES AND LIABILITIES OF THE CONTRACTOR

41. Observance of laws, local regulations and notices, Attachments

41.1 The contractor shall confirm to the regulations and bylaws of any local authority and or of any water or lighting companies with those systems the structure is proposed to be connected and shall before making any variations from the drawings and specification that may be necessitated by so confirming, give to the Executive Engineer written notice., specifying the variations proposed to be made and the reasons for making them and apply for instructions, thereon. In case the contractor shall not received such instruction within seven days, he shall proceed with the work confirming to the provisions regulating or by-law in question and variation in the drawing or specifications so necessitated shall be dealt with under clause 59.

41.2 The contractor shall give all notices required by the said Act, regulations or by-laws and pay all fees in connection therewith unless otherwise arranged and decided on in writing with the Executive Engineer. He shall also ensure that no attachments are made against materials of work forming part of or for the use of the contract. In every case referred to in this clause the contractor shall protect and indemnify Government against any claim or Liability arising from or based on the violation of any such law, ordinance, regulation order, decree, or attachment whether by himself or by his employees.

42. Accidents - Hoarding - Lighting Observations –Watchmen

42.1 When excavations have been made or obstacles have been put in public thorough fares or in places where there is any like hood of accidents, the contractor shall comply with any requirement of law on the subject and shall provide suitable hoarding lighting and watchmen as necessary.

42.2 It shall be contractor's sole responsibility to protect the public and his employees against accident from any cause and he shall indemnify Government against any claims for damages for injury to person or property, resulting from any such accident and shall where the provisions of the Workmen's Compensation Act apply take steps to properly insure against any claims there under.

42.3 On the occurrence of accident which results in the death of any of the workmen employed by the contractor or which so serious as to be likely to result in the death of any such workmen, the contractor shall within 24 hours of the happening of such accident, intimate in writing to the concerned section officer of Department the fact of such accident. The contractor shall indemnify Government against all loss or damage

42.4 sustained by government resulting directly or indirectly from his failure to give intimation in the manner aforesaid including the penalties of fines if any payable by Government as a consequence of Government's failure to give notice under the Workmen's Compensation Act or otherwise confirm to the provisions of the said Act in regard to such accident.

42.5 In the event of an accident in respect of which compensation may become payable under the Workmen's Compensation Act VIII of the 1923 whether by the contractor or by the Government as principal it shall be lawful for the Executive Engineer to retain out of money due and payable to the contractor such sum or sums of money as may, in the opinion of the said Executive Engineer be sufficient to meet such liability. The opinion of the Executive Engineer shall be final in regard to all matters arising under this clause.

42.6 The contractor shall indemnify Government from and against all claims and proceedings for or on account of infringement of any patent rights, design, trade mark, or name or other protected rights in respect of any constructional plant, machine work or materials used for or in connection with the works or temporary works, or any of them and from and against all claims, demands, proceedings, damages, costs, charges and expenses whatsoever in respect thereof in relation thereto.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

42.7 In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this agreement, the contractor shall comply with or cause to be complied with all the rules framed by the Government from time to time for the provision of health and sanitary arrangements to workers employed by P.W.D. and Highways and Rural Works Department and their contractors (vide appendix) In case the contractor fails to make arrangements and provide necessary facilities as aforesaid the Executive Engineer shall be at liberty to make arrangements and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

42.7 In respect of all labour directly or indirectly employed in the works for the performance of the contractor's part of this agreement, the contractor at his own expense shall arrange for the safety provisions as per "Safety Code" framed from time to time and shall at his own expense provide for all facilities in connection therewith. In case the contractor fails to make arrangements and provide facilities as aforesaid the Executive Engineer shall be at liberty to make arrangements and provide facilities as aforesaid and recover the costs incurred in that behalf from the contractor.

42.8 In respect of all labour directly or indirectly employed in the work for the performance of the contractors part of this agreement the contractor shall arrange to furnish in triplicate particulars for each work in the proforma Vide Appendix XXXVIII by the end every month to the Executive Engineer in charge of the work.

43. Blasting: Blasting executed by contractors in connection with Government works shall be carried out in the manner described under "Blasting operation - Instructions to Contractor" of the TNBP.

44. Protection of Existing and Adjoining premises : The contractor is to protect the whole of the adjoining and where necessary, the existing premises and all works and all fittings to all buildings on and adjoining the site against the structural and decorative damages caused by the execution of these works and make good in all respects all such damage done or occurring to the same, and leave such reinstatement in perfect order. He is also to make good any damage done in the execution of the work to existing public or to private footways or roadways.

45. Permit other workmen – Co-operation - Afford Facilities

45.1 The Executive Engineer shall have full power to send workmen upon the premises to execute fittings and other works not included in the contract, for whose operations the contractor is to afford every reasonable facility during ordinary working hours, provided that such operations shall be carried on in such a manner as not to impede the progress of the work included in the contract, but the contractor is not to be responsible for any damage which may happen to or be occasioned by any such fittings or other works, provided he complies with the Executive Engineer's instructions in connections therewith, and provided that the damage is not caused by himself or his workmen.

45.2 The contractor shall, at all times co-operate assist, attend on, and afford facilities for such specialists as maybe employed by the Executive Engineer on other works in connection with the building, allowing them free of charge the use of all plant, light and water installed in the works. The contractor shall also cause such special work or protect it as instructed to avoid injury during progress of the works. For failure so to protect, the contractor must make good any damage caused.

45.3 When two or more contractors are engaged on installation or construction work in the same vicinity the Executive Engineer shall have authority to direct the manner in which each shall conduct the work so far as it affects other contractors.

46. Holes for water services, gas electrical and sanitary fittings : The contractor shall leave all holes in masonry and floors for the insertion of water services, gas and electrical connections and sanitary fittings in the exact positions indicated by the Executive Engineer during the progress of work. These holes must be properly built up in a workman like manner at the contractor's cost, as soon as the fittings have been installed in cases, where the installations are made during the constructions of the building and where in the opinion of the Executive Engineer, delays in settlement of accounts will not thereby occur.

47. Contract's risk and insurance.

47.1 The work executed by the contractor under the contract shall be maintained at the contractor's risk until the work is taken over by the Executive Engineer. The Govt. shall not be liable to pay for any loss or damages occasioned by or arising out of fire, flood, volcanic eruption, earth quake or other convulsions of nature and all other natural calamities and risks arising out of acts of God during such period and the option whether to take insurance coverage or not to cover and such loss or damages is left to the contractor.

47.2 Provided however, that the contractor, shall not be liable for all or any loss or damages occasioned by or arising out of acts of foreign enemies invasions hostilities or warlike operations (before or after declaration of war) rebellion military or usurped power.

48. Holidays : Subject to any provision to the contrary contained in the contract name of the permanent work shall save as hereinafter provided be carried on during the night or on Sundays and other holidays without the permission in writing of the Executive Engineer or of the officer in-charge of the work, save when the work is unavoidable or absolutely necessary for the safety of life or property or for the safety of the works in which case the contractor shall immediately advise the Executive Engineer.

6. MISCELLANEOUS

49. Sand and Gravel : 49.1 The contractor shall not make any excavations upon the site for the purpose of obtaining gravel, sand or soil other than that shown or implied by the drawings, except with the previous permission of the Executive Engineer.

Contractor

**Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai**

50. Old Curiosities: All old curiosities, relics, coins, mineral, etc., found in excavating or pulling down, shall be the property of the Government and be handed over to the Executive Engineer. Should any ancient masonry, or other old work of interest be opened up the Executive Engineer's attention shall be called to the same before demolition or removal.

51. Assignment or sub-letting: The contractor shall not without the written consent of the Executive Engineer assign the contract nor sub-let any portion of the same. Ordinarily no sub-letting will be permitted, but in case such should be permitted by the Executive Engineer, it shall in no way free the contractor from any of responsibilities under any clause of these "Conditions of Contract" or of the "Articles of Agreement"

52. Specialists: The Executive Engineer shall, during the progress of the work have powers to select, nominate or recommend tradesmen or specialists to supply material or execute such portion of the work as he may consider desirable in the interests of the Government.

53. Ratification of the orders of the Executive Engineer: Should the acceptance of the tenders be beyond the authorised powers of the Executive Engineer as laid down the P.W.D. code, the orders and decisions of such Executive Engineer with regard to extension of time for completing the contract will be subject to the ratification of the Superintending Engineer for all works for which tenders were accepted by the Engineers of Public Works Department including Superintending Engineer, Chief Engineer / Board of Engineers and Government and the termination of contract or of employment of specialists for certain portion of the works will be subject to the ratification of the Chief Engineer for all works for which tenders were accepted by Engineers of PWD including Superintending Engineer/Chief Engineer/Board of Engineers and Government.

54. Order Book

54.1 An order book shall be kept at the P.W.D. Office on the site of the work. As far as possible, all orders regarding the work are to be entered in this book. All entries shall be signed and dated by the P.W.D. Officer in direct charge of the work and by the contractor or by his representative. In important cases, the Executive Engineer or the Superintending Engineer will countersign the entries, which have been made. The order book shall not be removed from the work except with the written permission of the Executive Engineer.

54.2 No photographs of the site or of the work or any part thereof shall be taken except with the permission in writing of the Executive Engineer and no such photographs shall be published or otherwise circulated without the permission of the Chief Engineer.

H. DATE OF COMMENCEMENT, COMPLETION, DELAYS, EXTENSION, SUSPENSION OF WORK AND FORFEITURE

55. Date of commencement and completion : On notification of possession of the site (or premises) being given to the contractor by letter registered for acknowledgement as provided in clause 9.1 supra, he shall forthwith begin the work, shall regularly and continuously proceed with them, and shall complete the same (except for painting or other work which, in the opinion, of the Executive Engineer, it may be desirable to delay) by the date of completion, as defined in the "Articles of Agreement" subject nevertheless, to the provisions of extension of time mentioned in the next clause. The contractor shall under no circumstances be entitled to claim any damages from Government if he incurs any expenses or liabilities to payment under the contract before the date of commencement defined above. The contractor shall have the right to withdraw from the contract and obtain refund of his security deposit if such intimation of handing over the site is delayed by more than two months from the date of acceptance of the agreement by competent authority.

56. Delays and extension of time

56.1 No claim for compensation on account of delays or hindrances to the work from any cause whatever shall tie except as hereinafter defined. Reasonable extension of time will be allowed by the Executive Engineer or by the officer competent to sanction the extension for unavoidable delays, such as may result from causes which in the opinion of the Executive Engineer are undoubtedly beyond the control of the contractor. The Executive Engineer shall assess the period of delay or hindrance caused by any written instruction issued by him at twenty five percent in excess of the actual working period so lost. If at any time the Executive Engineer is of the opinion that there has been avoidable delays and the contractor fails to maintain the rate of progress specified in the articles of agreement, it shall be lawful for the Executive Engineer to impose penalty or order forfeiture from the Deposit and sanction the extension of time for such delays, provided however, the penalty and forfeiture shall be governed as per clause 57.2 and 57.3

56.2 In the event of the Executive Engineer failing to issue necessary instructions and thereby causing delay and hindrance to the contractor the latter shall have the right to claim an assessment of such delay by the Superintending Engineer of the Circle. The contractor shall lodge in writing to the Executive Engineer a statement of claim for any delay or hindrance referred to above within fourteen days from its commencement otherwise no extension of time will be allowed.

56.3 Whenever, authorised alterations or additions made during the progress of the work are of such nature in the opinion of the Executive Engineer as to justify an extension of time in consequence thereof such extension of time will be granted in writing by the Executive Engineer or other competent authority when ordering such alterations or additions.

57. Delays in commencement or progress or neglect of work or suspension of works by the contractor and forfeiture of Earnest Money, Security Deposit and withheld amount

57.1 Time shall be considered as the essence of the contract. If at any time the Executive Engineer shall be of the opinion that contractor is delaying commencement of the work neglecting or delaying the progress of work as defined in the tabular statement, "Rate of Progress" in the Articles of Agreement or the contractor fails to maintain the Rate of progress in the Articles of Agreement plus any extension of time or the contractor shall suspend the works, or sublet the

Contractor

**Sd./.
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai**

work or a portion thereof without the sanction of the Executive Engineer or violates any of the provisions of the contract the Executive Engineer shall so advise the contractor and at the same time demand compliance. If the contractor neglects to comply with such demand within seven days after receipt of such notice, it shall then or at any time be lawful for the Executive Engineer to impose a penalty or forfeiture on this contractor from the deposit or to determine the contract.

57.2 The penalty or forfeiture referred to in Clause 57.1 shall not exceed 5% of the value of work executed and is imposed in cases where the contractor is allowed to proceed with the whole or part and complete the whole or such part of the works. The penalty or forfeiture imposed by the Executive Engineer under this clause is however subject to modification or waiver at the absolute discretion of any authority higher in rank than the Executive Engineer.

57.3 It shall be a further right of the Executive Engineer to give any part of the work to any other contractor at his discretion or have it done departmentally in order to maintain the rate of progress and the contract shall then be determined for only that portion of the work given to the other contractor or done departmentally. The forfeiture under clause 57.2 willing these circumstances be applied and any excess expenditure incurred on this account shall be recovered from the original contractor.

57.4 Determination of the contract referred to in Clause 57.1 shall carry with it the forfeiture of the Security Deposit. After determining the contract, the Executive Engineer shall have the right to give any part of the work to any other contractor in the unexecuted portion of contract, in which case any expenses which may be incurred in-excess of such amount which would have been paid to the original contractor if the whole work had been executed by him shall be borne and paid by the original contractor and may be deducted from any money due to him by Government under this contract or any other amount what so ever Provided also that if the expenses incurred by the government are less than the amount payable to the contractor at his agreement rate the difference will not be paid to the contractor.

57.5 In the event of anyone of the above clauses being adopted by the Executive Engineer, the contractor shall have no compensation for any loss sustained by him by reason of his having purchased or processed any materials or entered into any engagements or made any advances on account or with a view to the execution of the work or the performance of contract, and in case action is taken under any of the provisions aforesaid, the contractor shall not be entitled to be paid any sum for any work actually performed under the contract unless and until the Executive Engineer has certified in writing the performance of such work and the value payable in respect thereof and he shall only be entitled to be paid the value so certified.

57.6 In the event of the Executive Engineer putting in force all or any of the powers vested in him under the clause 57.4 he may if he so desires after giving a notice in writing to the Contractor take possession of the works and site and all sue' plant and materials thereon (or any ground contiguous there to) and all such plant and materials as above mentioned shall thereupon be at the disposal of Government absolutely for the purpose of completing the work. After such notices shall have been given the contractor shall not be at liberty to remove from the site of works or from the ground contiguous thereto any plant or materials belonging to him which shall have been placed thereon for the purpose of the above work. Government shall not be liable to make any payment to the contractor on account of use of such plant for the completion of the works under the provisions herein before contained. On taking possession of the materials and stores belonging to the contractor or procured by the contractor and intended to be used for the execution of the work or any part thereof the contractor shall be paid for the same in account, at the contract rates, to be certified there of shall be final. Otherwise the Government may give notice in writing to the contractor to remove any of his plant or materials from the site and not required for completion of the works, if such plant and materials are not removed with fourteen days after notice and have been so given, Government may remove and sell the same holding the proceeds less the cost of removal and sale, to the credit of the contractor. The certificate of the Executive Engineer as to expense of any such removal and sale shall be final and binding on the contractor.

1. PARTICULARS OF PAYMENT

58. Payment on lump sum basis or by final measurement in unit prices

58.1 Final measurements need not be taken unless either the contractor or the Executive Engineer claims extras to or deductions from the quantities of schedule - A.

58.2 In case final measurements are claimed, they shall be taken only for those items for which either the contractor or the Executive Engineer claims final measurements and the quantities of the remaining items in Schedule-A shall be accepted as correct. The lump sum amount mentioned in the agreement will then be varied by adding thereto or deducting there from as the case may be, the difference (if any) between the amounts mentioned in Schedule-A for such items and the amounts arrived at by calculation at contract rates based on the revised quantities for the same, obtained by the final measurement aforesaid.

58.3 It shall be accepted as a condition of the contract that the payment of the final bill to the contractor less the withheld amounts and his acceptance thereof shall constitute a full and absolute release of Government from all further claims by the contractor under the contract.

59. Payment for additions and deductions for omissions

59.1 No authorised variation shall vitiate the contract, but additions and omissions shall be measured up and dealt with in accordance with clause 58.2'

59.2 If there is no rate in Schedule A for additional work ordered to be carried out by the Executive Engineer, then prior to execution of the additional work, a rate for the additional work, shall be worked out in accordance with the methods indicated in 59.3 and with the rate agreed upon a supplemental agreement shall be entered in the proper departmental form signed and dated by the contractor and the Executive Engineer and or any other officer for the time being authorised to accept such agreement and supplemental agreement shall on such acceptance form part of the original agreement. A copy of the supplemental slip shall be given to the contractor.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

59.3.1 The rate for additional works shall be derived from the rate for similar items of work in the accepted agreement.

59.3.2 In the case of works for which supplemental agreement is to be entered into during the period when the schedule of rates has not changed from the date of execution of the original agreement then the rates for supplemental agreements may be the prevailing schedule or rates plus or minus tender premium in case the rates" cannot be derived from the items in the original agreement. In other case, where the schedule or rates has changed in the intervening period, the rates prevailing as per the schedule of rates at the time of execution of supplemental items will be adopted with, no tender premium over this rate.

59.3.3 If the rate for a particular item of work is not in the schedule of rates, the prevailing market rate when the work has done shall be adopted.

59.3.4 If the rates cannot be determined as above, the rates shall be fixed on the cost of labour and materials plus 10 percent thereon, provided the vouchers shall have been delivered to the Executive Engineer within 7 days after such work is completed. If the Executive Engineer considers that the vouchers are unduly high, the Executive Engineer can value the work as reasonable and fair and make payment if the value of payment is less than Rs. 1,000. If the value of additional payment exceeds Rs. 1,000 the contractor shall have the right to submit matter to arbitration.

60. No payment for unsanctioned extras: 1 It shall be distinctly understood that no payment whatever will be made to the contractor for variations by way of extras, in cases where such variations have been made within the written sanction of Executive Engineer.

61. Accounts Receipts and Vouchers : The contractor shall at any time upon the request of the Executive Engineer furnish him with all invoices account, receipts and other vouchers that he may require in connection with the contract.

62. Fraud, willful neglect or default: No final or other certificate of payment or of completion, acceptance or settlement of account shall, in any circumstances, relieve the contractor from his liability for any fraud, or willful neglect or default in the execution of the contract or any willful or unauthorized deviations from drawings, specifications, instructions and directions for the time being binding upon him.

63. Unfixed materials : 1 No payment or advance will be made for unfixed materials when the rates are finished work in situ.

64. Payments and Certificate

64.1 Payments will be made to the contractor under the certificates to be issued at reasonably frequent intervals by the Executive Engineer or the Sub-Divisional Officer, within 14 days of the date of each certificate an intermediate payment will be made by the Executive Engineer or the Sub-Divisional officer of a sum equal to 95 percent of the value of work, as so certified and the balance of 5 percent will be withheld and retained as security for the due fulfillment of the contract. Under the certificate to be issued by the Executive Engineer or Sub-Divisional Officer on the completion of the entire works, the contractor will receive the final payment of all the money due or payable to him under or by virtue of the contract except security deposit and the withheld amount equal to 2 1/2 percent of the total value of the work done provided there is no recovery from or forfeiture by the contractor to be made under clause 57. The amount withheld from the final bill will be retained under. Deposits and paid to the contractor together with the Security Deposit after one year reckoned from the date of completion of work or as soon after the expiration of such period of one year as all defects shall have been made good according to the true-intent and meaning thereof whichever shall last happen. In the event the final bill remains unpaid even after the period of one year aforesaid, the Executive Engineer shall refund the security deposit which included the E.M.D. and also the withheld amount on a separate bill if requested for by the contractor in writing. No certificate of Executive Engineer or Sub-Divisional Officer shall be considered conclusive evidence as to the sufficiency of any work or materials or correctness of measurements to which it relates nor shall it relieve the contractor from his liability to make good defects and provided by the contract. The contractor when applying for a certificate, shall prepare a sufficiently detailed bill based on the original figures of quantities and rates in the contract Schedule-A to the satisfaction of the Executive Engineer, to enable the Executive Engineer or the Sub-Divisional Officer to check the claims and issue the certificate. The certificates as to such of the claims mentioned in the application as are allowed by the Executive Engineer or the Sub-Divisional Officer shall be issued within fourteen days of the application. No application for a certificate shall be made within fourteen days of a previous application.

64.1 (A) Notwithstanding the above clause, the withheld amount of 2 1/2% from the final bill in respect of contract for construction of original building, will be retained by the Govt for a total period of one year in lieu of six months period referred to in clause 64.1 above and will be released after the expiry of one year period on execution of an indemnity bond by the contractor to the satisfaction of the Exe. Engr. for a further period of four years to ensure structural stability of the building under clause 26.1 A

64.2 When there are complaints from the labour Department about non-payment of wages to the labourers employed by the Contractor for the execution of works under agreement, the Executive Engineer, shall have full powers to withhold the bills claimed by the contractor pending clearance certificate from the Labour Department and to act as per the direction given by the Labour Department.

65. Interest on money due to the contractor

65.1 No omission by the Executive Engineer or the Sub-Divisional Officer to pay the amount due upon certificates shall vitiate or make void the contract nor shall the contractor be entitled to interest upon any guarantee fund or payments in arrear, nor upon any balance which may, on the final settlement of his accounts, be found to be due to him.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

652 Whenever the withheld amount reaches Rs. 1,000 or a multiple thereof, the contractor may, at his option, deposit with the Executive Engineer an equal amount in sums of Rs. 1,000 or a multiple thereof, in any of the forms of interest bearing securities recognized for the purpose by the T.N. Public Works Account Code and subject to the provisions thereof contained in which case the equivalent withheld amount shall be paid to him forth with. The contractor will be permitted to exercise the option in this clause, subject only to the condition that the rates of progress contained in the Articles of Agreement is properly maintained.

66. Acceptance of final measurements: The contractor agrees that before payment of the final bill shall be made on the contract, he will sign and deliver to the Executive Engineer, either in the measurement book or otherwise as demanded a valid release and discharge from any and all claims and demands whatsoever for all matters arising out of or connected with the contract and also produce a certificate from the Income Tax Authorities that all income tax payable by him upto-date has been duly paid provided that nothing in this clause shall discharge or release the contractor from his liabilities under the contract. It is further expressly agreed that Executive Engineer in supplying the final measurement certificate need not be bound by the proceeding measurements and payments. The final measurements, if any of the Executive Engineer shall be final conclusive and binding on the contractor.

67. Recovery of money from contractor in certain cases

67.1 In every case in which provision is made for recovery of money from the contractor, Government shall be entitled to retain or deduct the amount thereof from any money, that may be due or may become due to the contractor under these presents and or under any other contract or contracts or any other account what so ever.

67.2 Recovery under Revenue Recovery Act

Whenever any amount has to be paid by the Contractor in view of the determination of the contract by virtue of clause 57 or any amount that may be due from the contractor is under these presents and the contractor is not responding to the demands for the payment of the said amount, then the Govt. shall be entitled to recover the said amount under the provisions of the Revenue Recovery Act.

68. Contractor dying becoming insolvent insane or imprisoned

68.1 In the event of the death or insanity or insolvency or imprisonment of the contractor, or where the contractor being a partnership or firm becomes dissolved or being a corporation goes into liquidation voluntary' or otherwise, the contract may at the option of the Executive Engineer, be terminated by notice in writing posted at the site of the works and advertised in one issue of the local district Gazette and all accepted and acceptable works shall forthwith be measured up and paid for at the rates provided in the contract schedule where such apply, or otherwise, by the most recent schedule of rate of the division approved by competent authority to the person or persons entitled to receive and give a discharge for the payment.

J. SETTLEMENT OF DISPUTES

69. Arbitrations

69.1 In case of any dispute or difference between the parties to the contract either during the progress or after - the completion of the works or after the determination, abandonment or breach of the contract, or as to any matter or thing arising there under except as to the matters left to the sole discretion of the Executive Engineer under clauses 18,20,25-3,27.1,34,35 and 37 of "General conditions of contract" or as to the with holding by the Executive Engineer of payment of any bill to which the contractor may claim to be entitled, then either party shall forthwith give to the other notice of such dispute or difference shall be and is hereby referred to the arbitration of the Superintending Engineer of the nominated circle mention in the "Articles of Agreement" (herein after called the 'Arbitrator') in cases where the value of claim is less than and upto Rs. 50,000/- in case where the value of claim is more than Rs. 50000/- the parties will seek remedy through the competent civil court. (G.O. Ms.No. 253 PW dt: 24.02.81)

The Arbitrator shall give detailed reasons in their awards for their findings and conclusion. (G.O.Ms.No. 1844 PW dt: 06.04.83) Subject as aforesaid to the provisions of the arbitration Act, 1940 or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the Arbitration proceeding under this clause. Upon every and any such reference, the costs of and incidental to the reference and award respectively shall be discretion of the arbitrator, subject to the condition that the amount of such costs to be awarded to either party shall not, in respect of a monetary claim exceed the percentage set out below of any such award irrespective of the actual fees, cost and expense incurred by either party provided that where a monetary claim is disallowed in full the said percentage shall be calculated on the amount of the claim. The arbitrator may determine the amount of the costs to be awarded or director the same to be fixed as between solicitor and client or as party and shall direct by whom and to whom and in what manner the same shall be borne and paid.

The percentage above referred to in this clause are 5% on any such monetary award which does not exceed Rs. 10,000 at 3% on the next Rs. 40,000 or any part thereof 2% on the next Rs. 50,000 or any part thereof and 1% on any excess over Rs. 1,00,000/- provided that the government shall not be liable to any claim in respect of any such dispute or difference until the liability and the amount thereof shall have been referred to and decided by the Arbitrator.

69.2 The fees for Arbitrators shall be levied based on the value of claims referred to for arbitration. The fees shall be calculated at 5% of the first Rs. 10000/- at 3% of the next Rs. 40000/-

69.3 In cases where the value of claim is more than Rs. 50,000 the parties will seek remedy through the competent civil court.

Contractor

Sd./.
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

APPENDIX No. I.

PUBLIC WORKS DEPARTMENTS SAFETY CODE

General Rules as to Scaffolds:

1. Suitable scaffolds shall be provided for workman for all works that cannot be safely done from a ladder or by other means. When a ladder is used an extra Mazdoor shall be engaged for holding the ladder and the ladder shall be given an inclination not steeper than 0.25 to 1 (0.25 horizontal to 1 vertical) When the ladder is used for carrying materials as well, suitable foot holds and hand holds shall be provided on the ladder.
2. A scaffold shall not be constructed taken down or substantially altered, except (a) under the supervision of competent and responsible person; and (b) as far as possible by competent workers possessing adequate experience in such work.
3. All scaffolds and appliance connected therewith and all ladders shall be of sound material be of adequate strength having regard to the load strain to which they will be subjected and be maintained in proper condition. Scaffolding or staging more than 3.5 metres above the ground or floor shall have a guard rail properly attached, braced and otherwise secured at least 0.9 meter above the floor or platform of such scaffolding or staging and extending along the entire length of the outside and ends thereof with only such opening as may be necessary for delivery of materials. Such scaffolding or staging shall be so fastened as to prevent it from swaying from the building or structure.
4. Scaffolds shall be so constructed that no part thereof can be displaced in consequence of normal use.
5. Scaffolds shall not be overloaded and so far as practicable the load shall be evenly distributed.
6. Before installing lifting gear of scaffolds special precautions shall be taken to ensure the strength and stability of the scaffolds.
7. Working platform, gangways and stairways should be so constructed that no part there can save unduly or unequally. If the height or the platform or the gangway or the stairways is more than 3.5 meters above ground level or floor level they should be closely boarded should have adequate width and should be suitably fenced as described in (4 above)
8. Every opening in the floor of a building or in a working platform shall be provided with suitable fencing or railing for a minimum height of 0.9 meter to prevent the fall of persons or material.
9. Safe means of access shall be provided to all working platforms and other working places. Every ladder shall be securely fixed. No portable single ladder shall be over 9 metres in length while the width between side rails in rung ladder shall in no case be less than 30cm for ladder upto and including 3 metres in length. For longer ladders this width should be increased at least 20 mm for each additional metre of length. Uniform step spacing should not exceed 30 cm. Adequate precautions should be taken to prevent danger from electrical equipment. No materials on the site of work shall be so stacked or placed as to cause danger or inconvenience to any person or the public. The contractor shall provide all necessary fencing and lights to protect the Public from accidents and shall be bound to bear the expenses of the defense of every suit, action or other proceedings at law that may be brought by any persons for injury sustained owing to neglect of the above precautions and to pay any damages and cost which may be awarded in any such suit, action or proceedings to any which may be awarded in any such suit, action or proceedings to any such persons or which may with the consent of the contractor be paid to compromise and claim by any such person.

Excavation and trenching

11. Trenches -1.2 meters or more in depth, shall at all times be supplied with at least one ladder for each 30 meters in length or fraction thereof. Ladder shall be extended from bottom of the trench to at least 0.8 meter above the surface of the ground. The sides of trenches which are 1.5 meters or more in depth shall be stepped back to give suitable slope or hold securely by timber bracing, so as to avoid the danger of sides to collapse.
12. Demolition - Before any demolition is commenced and also during the process of the work -
 - a) All roads and open areas adjacent to the work site shall either be closed or suitably protected.
 - b) No electric cable or apparatus which is liable to be a source of danger over a cable or apparatus used by the operator shall remain electrically charged.
 - c) All practical steps shall be taken to prevent danger to persons employed from risk of fire or explosion or flooding. No floor, roof or other part of the building shall be so overloaded with debris or materials as to render it unsafe.
13. All necessary personal safety equipment as considered adequate by the Executive Engineer shall be kept available for the use of the person employed on the site and maintained in a condition suitable for immediate use and the contractor should take adequate steps to ensure proper use of equipment by those concerned.
 - a) Workers employed on mixing asphaltic materials cement and lime mortars shall be provided with protective footwear and protective goggles.
 - b) Those engaged in white-washing and mining or stacking of cement bags or any materials which is injurious to the eyes shall be provided with protective goggles.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

- c) Those engaged in welding works shall have protective goggles and protective clothing and seated at sufficiently safe intervals.
- d) Those engaged in welding works shall be provided with welder's protective sight lags.
- e) When workers are employed in sewers and man holes which are in use, the contractor shall ensure that the manholes covers are opened and are ventilated at least for an hour before the workers are allowed to get into the manholes, and the manholes so opened shall be cordoned off with suitable railing and provided with warning signals or boards to prevent accident to the public.
- f) The contractor shall not employ men below the age of 18 years and women on the work of painting with products containing lead in any form. Where ever men above the age of 18 are employed on the work of lead painting, the following precautions shall be taken.
 - (i) No paint containing lead and lead products shall be used except in the form of paste of ready-made paint.
 - (u) Suitable face masks should be supplied for use by the workers when paint is applied in the form of spray or a surface having lead paint dry rubbed and scrapped.
 - (in) Overalls shall be supplied by the contractors to workmen and adequate facilities shall be provided to enable the working painters to wash during the cessation of work.
 - (iv) When workers are employed in dangerous occupations like work with hot bitumen, drilling operations etc., which are likely to prove dangerous resulting in physical damage and casualty, adequate protection of the workers should be provided.
- 14. When the work is done near any place where there is risk of drowning all necessary equipments should be provided and kept ready for use and all necessary steps taken for prompt rescue of any person in danger and adequate provision should be made for prompt first aid treatments of all injuries likely to be sustained during the course of the works.
- 15.
 - a) Hoisting machines and tackle including their attachments anchorages and supports shall be good mechanical construction sound materials and adequate strength and free from patent defect and shall be kept in good repair and in good working order. Every rope used in hoisting or lowering materials or as a means of suspension shall be of suitable quality and adequate strength and free from patent defect.
 - b) Every crane driver or hoisting appl
 - c) Fiancé operator shall be properly qualified and no person under the age of 21 years should be in control of any hoisting aching, including the scaffold winch or give signals to the operator.
 - d) In the case of every hoisting machine and of every chain ring hook shackle level and fully block used in hoisting or lowering or as a means of suspension, the safe working load shall be ascertained by adequate means. Every hoisting machine and all gear referred to above shall be plainly marked with the safe working load, in the case of hoisting machine having a variable safe working load, each safe working load and the conditions under which it is applicable shall be clearly indicated. No part of any hoisting machine or of any gear referred to above in this paragraph shall be loaded beyond the safe working load except for the purpose of testing.
- 16. Motors, gearing, transmissions, electric wiring and other dangerous parts of hoisting appliance shall be provided with efficient safeguards, Hoisting appliance shall be provided with such means as will request to a minimum the risk of the accidental descent of the load. Adequate precautions shall be taken to reduce to a minimum the risk of any part of a suspended load becoming accidentally displaced. When workers are employed on electrical installations which are already energized, insulating mats, wearing apparel such as gloves, sleeves and boots as may be necessary should be provided. The workers and carry keys or other materials which are good conductors or electricity.
- 17. These safety provisions should be brought to the notice of all concerned by display on a notice board at a prominent place at workshop. The person responsible for the compliance of the safety code shall be named by the contractor.
- 18. To ensure effective enforcement of the rules and regulations relating to safety precautions, the arrangements made by the contractor shall be open to inspection by the Labour Officer, Executive Engineer of the Department or other representative.
- 19. Notwithstanding the above clauses (1) to (18) there is nothing in these to exempt the contractor from the operations of any other Act of rules in force in the Republic of India. Model Rules for provision of Health and Sanitary arrangements for workers employed by the P. W.D. and Highways and Rural works Department and their contractors The contractor's special attention is invited to relevant clauses of the "General conditions of contract" in the Tamilnadu Building Practice and he is requested to provide at his own expense the following amenities' to the satisfaction of the Executive Engineer. - <, Application : These rules shall apply to all building and construction works in charge of P.W.D.
- 2. Definition: (i) "Work place"¹¹ means a place at which an average fifty or more workers are employed in connection with construction work. •
- ii) "Large work place" means a place at which at an averaged 500 or more workers are employed in connection with construction work.
- 4. First Aid : (a) At the work site there shall be maintained in a readily accessible place, first aid appliance and medicines including an adequate supply of sterilized dressing. And sterilized cotton wool. The appliances shall be kept in good order. They shall be placed under the charge of a responsible person who shall be readily available during working hours.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

(b) At large work places where hospital facilities are not available within easy distance of the works first-aid posts shall be established and be run by a trained compounder.

(c) Where large work places are remote from regular hospitals an in-door ward shall be provided with one bed for every 250 employees.

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

4. Drinking Water :

a) Water of good quality fit for drinking purposes shall be provided for the work people on a scale of not less than 15 litres per head per day.

b) Where drinking water is obtained from an intermittent public water supply each work place shall be provided with storage tank where such drinking water shall be stored.

c) Every water supply storage shall be at a distance of not less than 15 metres from any latrine, drain or other source of pollutions. Where water has to be drawn from an existing well, which is within such proximity of latrine, drain or any other source of pollution, the well shall be properly chlorinated before water is drawn from it for drinking. All such wells shall be entirely closed in and be provided with a trap door which shall be dust and water proof. d) A reliable pump shall be fitted to each covered well the trap door shall be kept locked and opened only for cleaning or inspection which shall be done atleast once a month.

5. Washing and bathing places : Adequate washing and bathing places should 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.

6. Latrines and Urinals: There shall be provided within the precincts of every work place, latrines and urinals in an accessible place and the accommodation, separately for each of them, shall be on the following scale or on the scale so directed by the Executive Engineer in any particular cases.

(i) Where the number of persons employed does not exceed 50 2 seats

(ii) Where the number of persons employed exceed 50 but does not exceed 100 3 seats

(iii) For every additional 1003 seats

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

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

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

7. Shelters during rest: At every work site there shall be provided free of cost, two suitable sheds one for meals and the other for rest separately for men and women for the use of labourers.

8. Creches: (a) At every workplace at which 50 or more women workers are ordinarily employed, there shall be provided two huts of suitable size for the use of children under age of 6 years belonging to such women, one hut shall be used for infants games and play and the other as a bed room. The huts shall not be constructed on a lower standard than the following

i) Thatched roofs

ii) Mud floors and walls.

iii) Planks spread over the mud floor and covered with matting.

The huts shall be provided with suitable and sufficient opening for light and ventilation. There shall be adequate provision of sweepers to keep the places clean. There shall be two Dais in attendance. Sanitary utensils shall be provided to the satisfaction of the Health Officer of the area concerned. The use of the huts shall be restricted to children, their attendants and mothers of the children.

b) Where the number of Women workers is more than 25 hut less than 50, the contractor shall .provided atleast one hut and one Dai to look after the children of women workers.

c) The size of creche or creches shall vary according to number of women workers.

d) The creche of creches shall be properly maintained and necessary equipment like toys, etc., shall be provided.

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

10. Sheds for workmen: The contractor should provide at his own expense shed? for housing his workmen. These sheds shall be on a standard not less than the cheap shelter type, to live in which the work people in the locality are accustomed to.

A floor area of about 1.8 metres x 1.5 metres for two persons shall be provided. The sheds to be in rows with 1.3 metres clear space between sheds and a 9 metres clear space between rows if conditions permit. The work people's camp shall be laid out in units of 400 persons, each, each unit to have a clear space of 12 metres around.

Contractor

Sd/..

**Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai**

APPENDIX - IX – XXXVIII

MONTHLY REPORT OF CONSTRUCTION EMPLOYEES UNDER CONTRACTORS

1. Name, location and type of work
2. Name of Contractor
3. Works engaged in
(i) P.W.D, Work
(ii) Government work other than PWD (iii) Other works
4. Name and address of Manager(s) of works
5. Value of contract
6. Employment earnings

Category	Men	Women	Employees boys	Girls
1	2	3	4	5

- I. Total number of employees during months:
- II. Number of employees in the works on the last working day of the month:
- III. Total wages paid for Total numbers of working days during the month
- IV. Length of normal wage period

Date : Place :

To

Signature of the Contractor or Manager

1. The Employment Officer, District Employment Office,
2. The Executive Engineer, Division.

Instruction to complete the Performa

1. The Contractor means the person who has contracted to execute the works.
2. Manager means any person who manages, supervises the work(s) on behalf of the contractor.
3. Item-6(i) The cumulative total of daily employment on all days in a Calendar month, if the last day of the Calendar month is a holiday, the working day immediately previous to the holiday Item 6 (ii) Wages means basic wage, dearness allowance project allowances etc. including work benefits paid in cash or kind. Item 6 (iii) Columns 2 and 3 refer to adults who are 18 years of age or over. Item 6 - Columns 4 and 5 refer to others not covered by columns 2 and 3.
4. Returns should cover a calendar month.
5. Completed returns to reach the employment exchanges concerned on or before 5th of the month Succeeding the month to which the return relates.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

AMENDMENT

(Issued in Govt. P.W.D., Letter No. 2163/Y2/95-I/dU9.9.96)

In the said preliminary specifications after clause 56.3 the following clauses shall be inserted, namely:

56.4 In cases where the Government under the terms of the contract with the contractor are liable to supply any materials, article or things to the contractor for the performance by him of his part of the contract, the executive Engineer, may at his absolute discretion extend the time with in which such materials, articles or thing maybe supplied by the Government, and the Government may supply to the contractor such materials, articles or things within the time so extended without any liability on their part to compensate the contractor by reason of the extension of time for the supply of the materials, articles or things.

56.5 In cases where the Government under the terms of the contract are liable to supply any materials, articles or things to the contractor for the performance by him of his part of the contract and the Government for any reason are unable to supply such materials, articles or things either within the time specified in the contract or within the time extended under clause 56.4 the Executive Engineer may at his discretion or at the request of the contractor determine the whole or any part of the contract which cannot be performed by reason of the failure to supply such materials, articles or things and the contractor shall not be entitled to claim any damages or compensation in respect of such determination. The contractor shall however, be paid the value of the work already done by him and the cost of the materials articles or things if any collected by him up to the date of such determined and left unused on the work-spot (Which shall be taken over by the Executive Engineer either at the contract rates or at values deducted form the through rates included in the contract) when the contract is determined at the discretion of the Executive Engineer, he shall give notice in writing to the contractor and the decision of the Executive Engineer to determine the contract shall be final and binding on the contractor

Explanation: The expression through rules means the rate for the finished items of work or the allinrates that is to say, the rates for finished items of work inclusive of the cost of materials and labour

56:6 If, at any time after the acceptance of tender the Government shall, for any reason what so ever not required the whole or any part of the works to be carried out, the Executive Engineer shall give notice in writing of the fact to the contractor who hare no claim to any compensation or other payments what so ever, on account of any profit or advantage he might have derived from the Execution of of the work in full but which he did not drive in consequence of the termination of the works, he shall be paid at contract rates, for the work executed by him including any additional works such as clearing of site etc. may be rendered necessary by such determination. He shall also be allowed a reasonable payment as decided by the authority which accepted the tender, for any expense incurred by him on account of labour and materials, articles or thing collected, but which could not be utilized on the works as verified by the Executive Engineer such decision shall be final and binding on both the parties and shall not be subject to arbitration under clause 69

AMENDMENT

(G.O.Ms.No.309, Finance (Saleries), 17th October 2017, Purattasi31, Helilambi, Thiruvallur Andu – 2048)

All the Contractors and Sub- Contractors hired by main contractors shall engage construction workers registered with the Construction Workers Welfare Board as required under the Building and Other Construction Workers (Regulation of Employment and Conditions of Service) Act, 1996 (Central Act 27 of 1996).

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

குழந்தை தொழிலாளர் முறையினை அகற்றுவதற்கான உறுதிமொழி

இந்திய அரசியலமைப்பு விதிகளின்படி கல்வி பெறுவது குழந்தைகளின் அடிப்படை உரிமை என்பதால் 14 வயதுக்குற்பட்ட குழந்தைகளை ஒருபொதும் எந்தவித பணிகளிலும் இடுபடுத்த மாட்டேன் எனவும் அவர்கள் பள்ளிக்கு செல்வதை ஊக்குவிப்பேன் எனவும் குழந்தை தொழிலாளர் முற்றிலுமாக அகற்றிட சமுதாயத்தில் விழிப்புணர்வு ஏற்படுத்துவேன் என்றும் தமிழகத்தை குழந்தைத் தொழிலாளர் அற்ற மாநிலமாக மாற்றுவதற்கு என்னால் இயன்றவரை பாடுபடுவேன் எனவும் உளமாற உறுதி கூறுகிறேன்.

ADDITIONAL SPECIAL CONDITION

If the bid of the successful bidder is seriously unbalanced in relation to the departmental value put to tender of the cost of work to be performed under the contract the Executive Engineer may require the bidder to produce detailed price analysis for any or all items of the bill of quantities to demonstrate the internal consistence of these prices with the construction methods and schedule proposed. After evaluation of the price analysis, the Executive Engineer may require that any amount of the performance of additional security be increased of the expense of the successful bidder to a level sufficient to protect the Government against financial loss in the event of default of the successful bidder under the contract

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

ELECTRICAL CONDITIONS.

1. The entire work should be carried out as per the General specifications for electrical works in Government Buildings approved in G.O.Ms.No. 347 Works Dated: 17th March 1919, General conditions of contract for Electrical Works approved in G.O.Ms.No. 347 Works Dated: 17th March 1919, latest I.E. Act, I.E. Rules, CEIG conditions, ISI specifications and Revised TNSS Electrical Specifications and as per the General conditions of the contract.
2. The work should be carried out in co-operation of the occupants of the building which are occupied may not be made available for carrying out the work uninterruptedly throughout the day.
3. In case, if it is necessary, the Contractor should be at the premises at the time of connecting the installations to the supply mains and afford all facilities for testing and commissioning.
4. **Necessary arrangements should be made by the contractor for getting permanent service connection from TANGEDCO.**
5. The Contractor should make his own arrangements to transport the materials to the work spot at his own cost. The Contractor shall be responsible for the safe custody and storage of the materials under dry conditions.
6. If night work is required to fulfill the agreed rate of progress, all arrangements should be made by the Contractor including lighting without any claim of any extra cost.
7. The Contractor should not employ the Labourers below the age of 12 years and shall also they must offer employment to Ex-Servicemen and Unemployed Agriculture Labourers as far as possible.
8. Payment will be made on detailed measurements. 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 omission for variation of the quantities.
9. Before making payment of final bill, the Contractor shall also produce a certificate from the Income Tax authorities that all the Income Tax payable by him up to date had been paid.
10. While making payment, 2% for Firms & 1% for Individuals, of the bill value shall be deducted towards Income Tax as per statutory orders of the Government.
11. In the event of work being transferred to any other Circle / Division / Sub Division /section, the Superintending Engineer/ Executive Engineer (Electrical)/ Assistant Executive Engineer (Electrical)/ Assistant Engineer/ Junior Engineer who is in charge of Circle/ Division/ Sub Division/ Section having jurisdiction over the work shall be competent to exercise all the power and privilege reserved in favour of the Dept.
12. All rates quoted in the tender shall be inclusive of Sales Tax payable under the General Sales Tax Act as amended from time to time (including Amendment Act 28/ 1984) and that the Contractor is responsible to file the Sales Tax return and pay the amount of Tax as demanded by the Commercial Tax Department. No request for payment of Sales Tax separately in addition to the tendered rates due to any plea of subsequent levy or increase in Tax will be entertained vide above Clause 38(2) of General Conditions of Contract
13. For slow progress of works/ bad workmanship/ leaving the work incomplete shape, the Department will take action to impose fine/ penalty as per the Departmental rules.
14. The Contractor should supply only ISI approved materials with ISI mark.
15. The Field Officers should inspect the quality of the electrical materials then and there and the random sample materials supplied by the contractor should be tested in the Government Testing Laboratory or Government authorized Testing Laboratories and also if it is found necessary, if the Field Officers suspects the genuineness of the materials.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

16. All materials required for E.I works such as Ceiling fans, Exhaust fans, Cables etc, should be purchased only from the manufacturers or from their authorized dealers. The contractor should produce necessary bill/ invoice with ISI test certificate of the Manufacturers of the materials. If the materials purchased through the authorized dealers, then the Contractor should produce the bills of the dealers with ISI test certificate of the Manufacturers of the materials
17. **GUARANTEE.** : Electrical materials supplied by the Firm or Contractor should be guaranteed for the period of one year against any manufacturing defects, or bad workmanship. If any faults occurred, the same should be got rectified and the faults occurred, the same should be got rectified and the faulty materials should be renewed at free of cost during the guarantee period.
18. **In addition to the aforesaid security deposit, retention amount (with held amount) shall be deducted from the running account bills, a sum equivalent to 5% (Five percent) of the total value (including the Goods and Services Tax [GST] amount for all the running accounts bills) of each bill as retention money.**
19. **RECOVERY OF DUES UNDER REVENUE RECOVERY 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 and contractor is not responding to the demands for the payments of the said amount then the Government shall be entitled to recover the said amount under the provisions of the Tamil Nadu Revenue Recovery Act. 1864 (Tamil Nadu Act. V of 1864)
20. **GST RATES AT 12% FOR WORKS CONTRACT:** Government of India has notified vide Notification No.20/ 2017- Central Tax (Rate), Dated: 22nd August 2017 and NotificationNo.24/ 2017- Central Tax (Rate), dated: 21st September 2017, the concessional rate of the Goods and Services Tax (GST) at 12% [CGST at 6% + SGST at 6%] is leviable for any Government Contract, whether Civil or Electrical, irrespective of the Goods and Services Tax (GST) rate applicable on purchase of goods used in the execution of Government Contract. And the GST amount will be calculated at 12% from the sum of total tendered value quoted by the tenderer for construction cost/ electrical works cost (excluding GST) specified in the Bill of Quantities, subject to GST rate applicable from time to time as recommended by the GST Council.
21. The works contract assigned to the Contractor's shall be cancelled if they engage Child Labour in executing works and such contractors should be black listed for 3 years.
22. The work done should be guaranteed for One year from the date of last measurement date recorded in the M- Book.
- 2.3. The retention amount at 5% including GST of the total value of contract and Security Deposit at 2% will be retained **for one year** from the date of final bill measurement date recorded in the M-Book.
24. **INPUT TAX CREDIT (ITC)**
- (a) As per Notification 202, dated: 29.06.2017 and as per sub-section (2) of section 7 of the Tamil Nadu Goods and Services Act 2017, (Tamil Nadu Act 19 of 2017) activities or transactions undertaken by State Government shall be treated neither as supply of goods nor a supply of service.
- (b) As per Chapter IX (Section 41) of the Tamil Nadu Goods and Services Act 2017, every registered persons may be entitled to take the credit of eligible input tax, as self-assessed, in his return and such amount shall be credited on a provisional basis to his electronic credit register.
- (c) As per Revised Schedule of Rates for 2017- 2018 dated: 21.10.2017, under General Not 8 (ix), the contractor is eligible to get refund of excess tax paid or liable to pay tax for this Contract Work.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

25. The retention money of 5% including GST of the total value of contract after deducting any amount due to the Department, shall be refunded to the contractor without any interest after the defects liabilities attached to the contract is over **i.e after one year.**
26. **PAYMENT :**Part or complete Payment will be made only on satisfactory completion of work in full / part thereof and value of work executed shall be determined, based on the measurements and check measurements by the Engineer in the Measurement Book.
- (a). For every Bill, 12% of GST will be paid to the contractor based on the value of work done for Construction by the Employer. After the payment including 12% of GST, the Contractor should pay the GST Amount to Government through his GST Registration No. Also the contractor needs to submit the Material purchase bill mentioning the name of the work/s in the package and GST No. to the Employer.**
- b) First Bill Payment:** "At the time of payment for first running account bill, the contractor should **produce** the GST paid details on goods (Materials) to the Employer for ITC."
- c) Intermediate Bill Payment:** "At the time of payment for next running account bills, the contractor should produce the GST paid details of services upto previous bill payment (i.e. GST paid detail for the previous work bill) along with Input Tax Credit (ITC) availed at the time of payment of intermediate bill to the employer."
- d) Final Bill Payment:** "The contractor should produce the GST paid details for all the materials used for construction work and GST paid details of services for the upto previous payment (i.e. GST paid detail for the upto previous work bill) to the Employer along with Input Tax Credit (ITC) availed at the time of payment of final bill to the employer."
- e) Submission of GST paid details of Final Bill :** "The GST paid details for the final work bill payment of construction work to be submitted by the contractor to the employer in few days after getting payment".
27. **IN BILL OF QUANTITIES, PREAMBLE:** The rates and prices tendered in the priced Bill of Quantities shall, except in so far as it is otherwise provided under the Contract, include all constructional plant, labour, supervision, materials, erection, maintenance, insurance, profit, taxes and duties (**except GST**), together with all general risks, liabilities and obligations set out in the Contract. The GST amount will be calculated at 12% of sum of the Bid value (**excluding GST**) quoted by the bidder for construction cost specified in the Bill of Quantities. The Bill of Quantities should include **GST (Goods and Services Tax) Amount"**
28. **Goods and Services Tax (GST) Registration and Addition of GST in Bills:** The Contractor should be required to indicate their GST registration number under **the Goods and Services Tax (GST) Act 2017** in the tender form. **The Central Goods and Services (CGST) Act 2017, the Integrated Goods and Services (IGST) Act 2017 and the Tamil Nadu Goods and Services (TNGST) Act 2017 have been enacted and enforced from 01.07.2017. Under the new tax regime, GST (comprising CGST, SGST and IGST) on works contracts for Government work was finally notified at 12 percent. As per the Tamil Nadu Goods and Services (TNGST) Act 2017, with effect from 01.07.2017.**
29. The Agreement contains items and pages as per agreement.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

DESCRIPTIVE SPECIFICATION SHEET

Items.			Materials (i) Size alternative to standard specification size or size prescribed Mortars and concrete (ii) Mixes prescribed if deviation from standard Specification. (iii) Masonry joint thickness and deviations.	Source from which items is to be Obtained.	Approximate load	Remarks.
Lime				
Surki				
Portland Cement				
Sand for mortar works				
Sand for filling in				
Earth for filling and disposal of surplus				
Broken stone for Road works				
Broken brick				
Gravel				
Quarry rubbish				
Rough stone, jeddy stone,etc.,		...				
Flooring stone				
Cut stones				
Cuddapha slab				
M.S. Sheets				
Corrugated roofing - Deviations in gauge				
Brick (wall)				
Do. (terrace)				
Do. (flooring)				
Pan tiles				
Flat tiles				
Mangalore tiles				
Pressed Ornamental tiles,etc.,				
Teak wood				
Other classes of wood				
Furnishing for doors and windows etc.,				
Standardized items of furniture				
Paints				
Tar				
Wood oil				
Varnish				
Distemper (Brand and number of coats) Steel R.S. Beams, etc.,				
Iron work for jail cells Ventilators, door, lock boxes cage latrine, etc.,				
Cast iron				
lime mortar				
Surki mortar				
Painting				

0 Inserts in remarks column where excess earth required for filling is to be obtained from and where excess spoil if any, is to be casted or conveyed.

+ Enter if deviation standard specification procedure and if iron or brasses.

* These will usually be purchased from jail - vide current price list for same.

** Enter if these are to be supplied from the Salem Jail and if so where contractor shall take delivery of same.

l Pointing - State if to be done as per " Remarks on pointing " in Madras Detailed Standard Specification and included in masonry rate.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai

DESCRIPTIVE SPECIFICATION SHEET cont.,

Items.			Materials (i) Size alternative to standard specification size or size prescribed Mortars and concrete (ii) Mixes prescribed if deviation from standard Specification. (iii) Masonry joint thickness and deviations.	Source from which items is to be Obtained.	Approximate load	Remarks.
Ferrac work				
Deviations, if any and proportions if surki mortar required for any stages				
Plastering				
Concrete broken stone in lime mortar				
Concrete broken stone in surki mortar				
Concrete broken stone in cement mortar		...				
Broken stone for Road works		...				
Reinforced cement concrete				
Brick work or masonry joint thickness				
Floor surfacing				

* Deviation in plastry thickness if any state with lime mortar, or surki mortar, or cement mortar and proportions.

This agreement contains..... pages including Civil..... items and Electrical Items total..... Main items and all sub items inclusive of tender schedule, site plan and building plan and special conditions of contract.

Contractor

Sd/..
Executive Engineer, PWD.,
Buildings (C&M) Division, Pudukottai