



TAMIL NADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY

Office of the Estate Officer

Madhavaram Milk Colony

Chennai-600 051

Name of work : Supply, testing and erection of
Firefighting equipment for
Convention Centre at Madhavaram
Milk Colony, Chennai-51.

Total Number of pages in this tender : 39 pages
Document

Number of items in schedule " A" : **Items**
a) 1.0 to 14.0(b)
b) 1.0 to 10.
c) 1 to 8
d) 1 to 6
e) 1 to 3
f) 1 to 5
including sub items

Tender should be submitted on or : 12.10.2017 upto 03.00 P.M.
before

Tender Document sold to

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 :

6. (i) Sales Tax Registration Number :

- (ii) Whether Sales Tax clearance certificate is enclosed? If not, when it will be produced? :

7. 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. :

8. Any other details :

TAMILNADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY
Office of the Estate Officer, TAMILNADU VETERINARY AND ANIMAL SCIENCES
UNIVERSITY.,
Madhavaram Milk Colony
CHENNAI-600 051

- Name of work : Supply, testing and erection of Firefighting equipment for Convention Centre at Madhavaram Milk Colony, Chennai-51.
- Last Date for receipt of tender : 12.10.2017 upto 3.00 pm
- Date and time of opening : 12.10.2017 at 3.30 pm
- E.M.D. to be remitted : Rs.31,100/-
- Mode of E.M.D. to remitted : In the shape of Demand Draft of the Nationalised and scheduled banks drawn in favour of Estate Officer, TAMILNADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY (TANUVAS.), Chennai
- Cost of tender schedule : 1) Rs.9,000/- + TAX if purchased at Estate Office, TANUVAS., Madhavaram Milk Colony, Chennai-51.
2) It can also be downloaded at free of cost from the website www.tenders.tn.gov.in and www.tanuvac.ac.in

Note :

1. The tender and E.M.D. should be enclosed in two separate covers, both the covers should then be submitted in a common sealed cover. All the three covers should be 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.

CONTRACTOR

ESTATE OFFICER,
TANUVAS., CHENNAI-51

APPENDIX - 1

TENDER NOTICE

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

1. On behalf of the Vice-Chancellor, Tamilnadu Veterinary and Animal Sciences University, Tenders will be received by the Estate Officer, Tamilnadu Veterinary and Animal Sciences University, Chennai-600 051 at his office upto 3.00 PM on **12.10.2017** for the work **Supply, testing and erection of Firefighting equipment for Convention Centre at Madhavaram Milk Colony, Chennai-51.**

The tenders should be in the prescribed form obtainable from Estate Officer's Office, Tamilnadu Veterinary and Animal Sciences University, Chennai-600 051. The tenders will be opened by the Estate Officer at 3.30 P.M. on the same day at the place aforementioned.

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 Estate Officer, Tamilnadu Veterinary and Animal Sciences University, Chennai-600 051. 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 co-partnership, 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 therefor. The certificate will be valid for one year from the date of issue for all tenders submitted during the period.

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.

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

4. Each tender must pay an Earnest Money, Deposit a sum of **Rs.31,100/-** in the form of Demand Draft pledged in favour of the Estate Officer, TAMILNADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY. 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 authorised by the Estate Officer. The E.M.D. will not be received in cash or currency notes.

The EMD will not carry any interest. It will be dealt with as provided in the tender.

5. 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 Estate Officer'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 hereinafter called "The accepting authority," make security deposit of 2% of the value of contract in the form of Demand Draft / Bank Guarantee 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. The security deposit together with Earnest Money Deposit and the amount withheld according to General conditions of Contract shall be retained as Security for the fulfillment of contract. The period of Bank Guarantee for Security Deposit should be, the period of completion specified for the work plus six months.

- ii) 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 University.

If the contractor fails to carry out 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.

- iii) 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 TAMILNADU VETERINARY AND ANIMAL SCIENCES UNIVERSITY. 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 on execution of any written agreement by the tenderer, if administratively considered necessary or expedient.

6. A copy of the set of contract documents can also be had on payment of **Rs.9,000/- + TAX** for each set if purchased at Estate Office, TANUVAS., Madhavaram Milk Colony, Chennai-51.
7. 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.
8. Every tenderer is expected before quoting his rates, to inspect the site of the proposed work. He should also inspect the site and satisfy himself and shall Quote the tender. The best class of materials shall be used on the work. In every case the materials must comply with the relevant standard specification. The University will not, pay any extra charges 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. The contractor should closely peruse all the specification clauses which govern the rates which he is tendering.

9. 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 Engineer,i/c. 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	Total percentage of work to be completed based on contract lumpsum amount
20 days	100%

10. No part of the contract shall be sub-let without written permission of the Estate Officer nor shall transfer be made by power of attorney, authorising others to receive payment on the contractor's behalf.
11. If further necessary information is required the Estate Officer will furnish such but it must be clearly understood that tenders must be received in order and according to instructions.
12. The Estate Officer or other sanctioning authority reserves the right to reject any tender or all the tenders .
13. The tenderers shall undertake to employ Qualified technical men at their cost to look after the work.
14. A sum equivalent to 2 % of the value of work done will be retained with the University 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 (i.e.) The Guarantee period of One year, to set right all the defects arising out of his faulty execution or substandard work noticed during the above Guarantee period.

ESTATE OFFICER,
TANUVAS.,CHENNAI-51

General Guidelines

1. The firm have to inspect the site before quoting the tender.
2. The manufacture or their authorized agency can only be participate in the tender and agency should enclose the authorization.
3. The decision of the University is the final for selecting the type of unit.

ESTATE OFFICER,
TANUVAS.,CHENNAI-51

Tamil Nadu Veterinary and Animal Sciences University

**Office of the Estate Officer, Tamil Nadu Veterinary and Animal Sciences University,
Chennai-51**

Special condition to Electrical work

Name of work: ***Supply, testing and erection of Firefighting equipment for
Convention Centre at Madhavaram Milk Colony,
Chennai-51***

1. Persons/Firms having experience in supply, erection testing and commissioning/servicing of Fire Safety as per the guidelines issued by the Chief Engineer (Buildings), Public Works Department, Chennai, Tamil Nadu, alone are eligible to participate in the tender.
2. The works should be carried out strictly in accordance with the specifications of Tamil Nadu Building Practice (T.M.B.P), BIS and IER and as per the general conditions of contract.
3. The work should be carried out in co-operation with the occupants of the buildings. Buildings which are occupied may not be made available for carrying out the work uninterrupted throughout the day.
4. The rates quoted in the tender should be inclusive of Tax payable under the General Sales Tax Act as amended from time to time (including amendment to Act 28/84) and that the contractor is responsible to file the Tax return and pay the amount of tax as demanded by the Commercial Taxes Department. No request for payment of Sales Tax separately in addition to tendered rates due to any subsequent levy (or) increase in tax will be entertained vide Clause 38(2) of General conditions of contract.
5. All the materials to be used in the work should be of best quality with I.S.I. mark for which BIS have preceded the specification/code. Approval for use for each type of materials on any work should be obtained from the Estate Officer, Tamil Nadu Veterinary and Animal Sciences University, Chennai-51 before use on work.
6. The contractor shall be liable to set right all defects arising out of the faulty (or) sub-standard work noticed during the Twelve months period from the date of bringing the installation into beneficial use at his cost.

7. For slow progress of works, bad work an ship/leaving the work in incomplete shape, the University will take action to impose fine as per the general conditions of contract and Public Works Department code.
8. Meggar test should be conducted by the tenderer, after completion of the work at his cost without any extra claim.
9. The contractor shall abide the Contractor's Labour Regulations issued by the Tamil Nadu Government from time to time.
10. The contractor engaging the labourers for the work is solely responsible for any accident or death occurring to the labourers while carrying out the work & responsible for such occurrence and also for payment of compensation to such labourers. Further, the University shall not be held responsible for such occurrence and also for payment of compensation.
11. Risk Insurance: The work under this contract shall be maintained at the contractor's risk until the work is taken over by the University. The contractor, shall accordingly arrange his / their own insurance against all natural calamities, rain and other acts of God. During such period, the Government shall not be liable for any loss or damages (vide Clause 47 of General Conditions as amended).
12. Safety Code: The safety measures and all amenities for the labourers shall be made by the contractor at his / their cost as indicated in the Safety Code vide Appendix to General Conditions of Contract and Clause 34, 35 and 42.6 of General Conditions of Contract.
13. Recovery of dues under Revenue Recovery Act: Any amount falling due from the contractor on account of this contractor even after recovering from the bills for this work and any other contract awarded to the contractor, then the amount is liable to be recovered under the provisions of Revenue Recovery Act
14. The tenderers should quote their TNGST registration No. in their covering letter. The final payment will be released only on production of Sales Tax Clearance Certificate from the concerned office.

Tenderer(s)

**Estate Officer,
TANUVAS.,Chennai-51.**

THE SCHEDULE

Name of work:- Supply, testing and erection of Firefighting equipment for Convention Centre at Madhavaram Milk Colony, Chennai-51.

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
A.	FIRE PUMP ROOM EQUIPMENT				
1.0	Supply, erection, testing & commissioning of electrical motor driven Main Pump of horizontal centrifugal end suction back pull out type with gland packing and capable to deliver 2280LPM at 70MWC.The pump shall be coupled motor of suitable HP with speed of 2900 RPM and complete set shall mounted on common base frame. The quoted rate shall includes providing & fixing of coupling, coupling gaurd, RCC (foundation as recommended by manufacturer) and Foundation bolts etc.	1 No., (One number)	1 No. (Each)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No		Qty	Unit	Rate (In figures and Words)	Amount
2.0	Supply, installation, testing & commissioning of Diesel Engine driven common stand by pump, horizontal centrifugal end suction back pull out type with gland packing and capable to deliver 2280LPM at 70MWC. The pump shall coupled to suitable HP of Diesel engine radiator water cooled type with speed of 1800RPM and complete set shall be mounted on common base frame. Batteries & battery leads with stand, Fuel tank (for 6 Hrs. operation) with stand & gauge glass, Fuel piping with valves. The quoted rate shall includes radiator water cooling piping (if required) coupling gaurd and other standard accessories, RCC foundation (as recommended by manufacturer) and foundation bolts, etc. complete.	1 No. (One number)	1 No. (Each)		
3.0	Supply, erection, testing & commissioning of electrical motor driven Jockey pump of horizontal centrifugal end suction back pull out type with gland packing and capable to deliver 180LPM at 70MWC.The pump shall be coupled to motor of suitable HP with speed of 2900RPM and complete set shall mounted on common base frame. The quoted rate shall includes providing & fixing of coupling, coupling gaurd, RCC foundation(as recommended by manufacturer) and Foundation bolts etc.	1 No. (One number)	1 No. (Each)		

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

Contractor

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
4.0	CONTROL PANEL FOR FIRE PUMPS				
a.	<p><u>Bus bar, Relays, Instruments & Outgoing switch</u> Supplying, installing, testing and commissioning of 315A TP copper bus bar for phase, neutral is half the rating of phase 1 set R,Y,B indication lamps with push button, 1 No. BMR bimetal over load relay (45A to 75A), 2 Nos. 90A TP contactor MNX 300V coil, 1 No. 70A TP contactor MNX 230V coil, 1 No. 25A TP contactor 230V coil, 1 No. 0 to 500V digital voltmeter with selector switch, 1 No. (300 / 5A) digital Ammeter with selector switch, 2 Nos. A/M Auto manul selector switch, 3 Nos. 300 / 5A current transformer (KAPPA), 1 No. 0 to 300V Analog DC voltmeter, 1 No. 0 to 30A Analog DC Ammeter, 1 No. H24V DC hooter, 1 No. 63A TPN FSU (FN) with HRC fuses, 1 No. 14 to 23A over load relay, 1 No. 200A TPN FSU (FN) with HRC fuses, 1 No. 63A TPN FUS(FN) with HRC fuses. (Make: FSU, contactor, Relays L&T and selector switch Salzer) or Equivalent as directed by departmental Engineer.</p>	1 No. (One number)	1 No. (Each)		

Correction in Rates :-

Omission in Rates :-

Overwriting in words :-

Contractor

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
B	Supplying, installing, testing and commissioning of Auto start Panel for the diesel engine complete auto/manual switch, indication lamps, protective fuses with battery charger, suitable of working on 230 V AC Single phase, enclosure being vermin& dust proof, potential free contacts for BMS integration.	1 No. (One number)	1 No. (Each)		
5.0	1100V GRADE POWER / CONTROL CABLES.				
	Supplying, laying, testing & commissioning of FRLS,PVC outer sheathed, steel armoured, aluminium / copper conductor with 12G Double copper earth, 1100v grade power cables with glands etc. The cables between Main pump motor ,jockey pump and diesel engine cable tray if required	70 Mtrs., (Seventy meters)	1 Mtr., (One meter)		
6.0	Supply of Mild Steel Black Pipes, ERW, Heavy grade conforming to IS: 1239 for pipes up to 150mm dia. and IS:3589 for pipes above 150mm dia. Complete with fittings, reducers, Elbow, Tees, structural supports with channel, angles etc. with one coat of metal primer and two coats of fire red enamel paint of approved quantity for PUMP ROOM				

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
a.	200mm nominal dia	12 Rmt., (Twelve running meters)	1 Rmt (One running meter)		
b.	150mm nominal dia	12 Rmt., (Twelve running meters)	1 Rmt (One running meter)		
c	100mm nominal dia	4 Rmt., (Four running meters)	1 Rmt (One running meter)		
d	80mm nominal dia	4 Rmt., (Four running meters)	1 Rmt (One running meter)		
e.	50mm nominal dia	18 Rmt., (Eighteen running meters)	1 Rmt (One running meter)		

Correction in Rates :-

Omission in Rates :-

Overwriting in words :-

Contractor

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
F	40mm nominal dia	1 Rmt., (One running meters)	1 Rmt (One running meter)		
G	25mm nominal dia	24 Rmt., (Twenty four running meters)	1 Rmt (One running meter)		
7.0	Supplying, installing, testing and commissioning of C.I. Non-return valves (PN 1.6) swing check type with required flanges, nuts, bolts and gaskets etc. complete.				
a.	150mm nominal dia	2 Nos., (Two numbers)	1 No. (Each)		
b.	80mm nominal dia	1 No. (One numbers)	1 Nos. (Each)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
8.0	Supplying, Installing, testing and commissioning C.I. butterfly valves (PN 1.6) slim seal standard lever operated type with required flanges, nuts, bolts etc. complete.				
a.	150mm nominal dia	3 Nos., (Three numbers)	1 No. (Each)		
b.	80mm nominal dia	1 No. (One number)	1 No, (Each)		
9.0	Supplying, Installing, testing and commissioning C.I. butterfly valves (PN 1.6) slim seal standard lever operated type with required flanges, nuts, bolts etc. complete.				

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
a.	200mm nominal dia	4 Nos., (Four numbers)	1 No. (Each)		
b.	100mm nominal dia	1 No. (One numbers)	1 Nos. (Each)		
10.0	Supplying, installing, testing and commissioning of Gun metal chrome finished Ball valves with fittings of screwed end type.				
a.	25 mm dia	6 Nos., (Six numbers)	1 No. (Each)		
11.0	Supply and installation of Pressure switches of suitable range for pump sets with Ball valves, Fittings like unions / colors / reducers etc.	4 Set., (Four sets)	1 set, (One set)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
12.0	Supply, erection, testing and commissioning of Air cushion vessel of size 200mm dia and 1000mm long fabricated out of 6mm thick MS plates with necessary valves, fittings, and accessories.	1 No. (One number)	1 No. (Each)		
13.0	Supply and laying control cabling between pressure switch to panel with conduct	1 Lot., (One Lot)	1 Lot (One lot)		
14.0	Supply, erection, testing and commissioning of foot valve				
a.	150mm nominal dia	2 Nos., (Two numbers)	1 No. (Each)		
b.	80mm nominal dia	1 No. (One number)	1 No. (Each)		

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

Contractor

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
B	<u>HYDRANT SYSTEM</u>				
1.0	Supply of Mild Steel Black Pipes, ERW, Heavy grade conforming to IS: 1239 for pipes up to 150mm dia. and IS:3589 for pipes above 150mm dia. Complete with fittings, reducers, Elbow, Tees, structural supports with channel, angles etc. with one coat of metal primer and two coats of fire red enamel paint of approved quantity.				
a.	150mm nominal dia Yard	250 Rmt., (Two hundred and fifty running meters)	1 Rmt., (One running meter)		
b.	100mm nominal dia	1 Rmt., (One running meters)	1 Rmt., (One running meter)		
c.	80mm nominal dia	20 Rmt., (Twenty running meters)	1 Rmt., (One running meter)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
d.	63mm nominal dia	20 Rmt., (Twenty running meters)	1 Rmt., (One running meter)		
e.	25mm nominal dia	20 Rmt., (Twenty running meters)	1 Rmt., (One running meter)		
2.0	Coating and Wrapping material for underground pipe including holiday testing	250 Rmt., (Two hundred and fifty running meters)	1 Rmt., (One running meter)		
3.0	Excavation & Back filling of all kinds of soils depth upto 1.5mts x 500 mm (width). Vendor to check the soil details at site before quoting.	250 Rmt., (Two hundred and fifty running meters)	1 Rmt., (One running meter)		
4.0	Supplying, erecting and commissioning of Yard Hydrants				

Correction in Rates :-

Omission in Rates :-

Overwriting in words :-

Contractor

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
i.	GUN METAL Single headed hydrant valve a with 63 mm dia instantaneous outlet of 80 mm dia fanged inlet ,Blank caps , chain and hand wheels etc complete.	8 Nos., (Eight numbers)	1 No. (Each)		
ii.	1no lengths of 15 M long, 63mm dia RRL hose with instantaneous GUN METAL couplings and Hoses shall be stored inside the hose cabinet.	10 Nos., (Ten numbers)	1 No. (Each)		
iii.	1 no. GUN MENTAL branch pipe with nozzle.	10 Nos., (Ten numbers)	1 No. (Each)		
iv.	Hose reel drum of swinging type with 19mm dia Rubber braided hose of 30M. Length with Gate valve (upstream) and Shut off nozzle, complete.	10 Nos., (Ten numbers)	1 No. (Each)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
v.	M.S. Hose cabinet stand mounted type fabricated out of M.S. sheet of 16 SWG. with glass fronted (4mm thick glass with rubber beeding) door and size of the cabinet shall be 900mm x 1200 mm x 600 mm Quoted rate shall be includes suitable stand for mounting, all fasteners etc, and cabinet shall be powder coated of approved colour both inside and outside.	1 No. (One number)	1 No. (Each)		
5.0	Supply of FRP Hose box material of 600mm x 750 mm x 250 mm with glass fronted door, painted in red outside and white in inside fitted at suitable area	10 Nos., (Ten numbers)	1 No. (Each)		
6.0	Supplying, installing and commissioning of fire brigade inlet connection of 4 way with 1 no. 63 mm dia. built - in Gun metal Non- return valves instantaneous coupling type arranged on 150 mm dia. Pipe manifold and connected to wet riser main as well as to Fire water tank. Quoted rate shall be included with C.I. Butterfly valve, C.I. Non-return valve and M.S. cabinet of suitable size with mounting supports etc. complete.	1 No. (One number)	1 No. (Each)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
7.0	Supplying, installing and commissioning of fire brigade inlet connection of 2 way with 1 no. 63 mm dia. built - in Gun metal Non- return valves instantaneous coupling type arranged on 150 mm dia. Pipe manifold and connected to wet riser main as well as to Fire water tank. Quoted rate shall be included with C.I. Butterfly valve, and M.S. cabinet of suitable size with mounting supports etc. complete.	1 No. (One number)	1 No, (Each)		
8.0	Supplying and fixing of 25mm dia. With automatic air release valve with unions etc. complete.	4 Nos., (Four numbers)	1 No. (Each)		
9.0	Supplying, installing, testing and commissioning of Gun metal chrome finished Ball valves with fittings of screwed end type.				
a.	25mm dia	4 Nos., (Four numbers)	1 No. (Each)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
10.0	Supplying, installing, testing and commissioning of M.S support for yard hydrant	450 Kg., (Four hundred and fifty kilograms)	1 Kg., (One kilogram)		
C.	<u>FIRE DETECTION AND ALARM SYSTEM</u>				
	Fire Alarm Control Panel				
1.	Micro - processor controlled 10 - Zone Fire Alarm Control Panel of conventional type with LCD display & required battery back-up etc for Control room	1 No. (One number)	1 No. (Each)		
	Smoke Detectors				
2.	Supply and installation of conventional type smoke & Heat detectors suitable for detecting	50 Nos., (Fifty numbers)	1 No. (Each)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
3	Supply and installation of Response indicator	48 Nos., (Forty eight numbers)	1 No. (Each)		
4	Supply and installation of Beam Detector - 50Mtrs	3 Nos., (Three numbers)	1 Nos. (Each)		
	Heat Detectors				
5	Supply and installation of conventional type heat detectors.	4 Nos., (Four numbers)	1 No. (Each)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
	Manual call station				
6	Supplying, installing, testing and commissioning of break glass type Manual call point	11 Nos., (Eleven numbers)	1 No. (Each)		
	Sounder Cum Strobe				
7.	Supplying, installing, testing and commissioning of Hooter Cum Strobe at 85 dBA @ 3m for Audible annunciation and 75cd flashing at 1 Hz for visual indication.	14 Nos., (Fourteen numbers)	1 Nos. (Each)		
8.	Supply and Surface laying of 2 core x 1.5 sq.mm armoured FRLS cable	1800 Mtrs., (One thousand and eight hundred meters)	1 Mtr., (One meter)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
D	AUTOMATIC SPRINKLER SYSTEM				
1	Supply of Mild Steel Black Pipes, ERW, Heavy grade conforming to IS: 1239 for pipes upto 150mm dia. and IS:3589 for pipes above 150mm dia. Complete with fittings, reducers, Elbow, Tees, structural supports with channel, angles etc. with one coat of metal primer and two coats of fire red enamel paint of approved quantity.				
a.	150 NB, Heavy Class	20 Mtrs., (Twenty meters)	1 Mtr., (One meter)		
b.	100 NB, Heavy Class	50 Mtrs., (Fifty meters)	1 Mtr., (One meter)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
c.	80 NB, Heavy Class	50 Mtrs., (Fifty meters)	1 Mtr., (One meter)		
d.	63 NB, Heavy Class	20 Mtrs., (Twenty meters)	1 Mtr., (One meter)		
a.	50 NB, Heavy Class	40 Mtrs., (Forty meters)	1 Mtr., (One meter)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
b.	40 NB, Heavy Class	40 Mtrs., (Forty meters)	1 Mtr., (One meter)		
c.	32 NB, Heavy Class	1 Mtrs., (One meters)	1 Mtr., (One meter)		
d.	25 NB, Heavy Class	250 Mtrs., (Two hundred and fifty meters)	1 Mtr., (One meter)		
2.	Supplying, Installing, testing and commissioning C.I. butterfly valves (PN 1.6) slim seal standard lever operated type with required flanges, nuts, bolts etc. complete.				

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
a.	150 NB	2 Nos., (Two numbers)	1 No. (Each)		
b.	100 NB	2 Nos., (Two numbers)	1 No. (Each)		
c.	50 NB	4 Nos., (Four numbers)	1 No. (Each)		
3.	Supply, Installation of Dial type pressure gauge (100mm Industrial type) with necessary nipple & other fittings	4 Nos., (Four numbers)	1 No. (Each)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
4	Supply ,Installation of UL listed & FM approved standard response Glass bulb sprinkler				
a.	Upright type rated 68 Deg. C. 5.6 K-Factor	60 Nos., (Sixty numbers)	1 No. (Each)		
b.	Pendent type rated 68 Deg. C. 5.6 K-Factor	125 Nos., (One hundred and twenty five numbers)	1 No. (Each)		
5	Supply, Installation, Testing & Commissioning of 25mm Ball valve with necessary nipple & other fittings	5 Nos., (Five numbers)	1 No. (Each)		
6	Supplying, Installing, testing and commissioning UL LISTED FLEXIBLE DROPER OF SUITABLE LENGTH OF 1.0 TO 1.5 M LONG installed on the sprinkler main distribution line connected to the main FALSE CEILING SUPPORTS WITH PROPER ADJUSTABLE BRACKET ASSEMBLY	125 Nos., (One hundred and twenty five numbers)	1 No. (Each)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
E	Supply and Installation of FIRE EXTINGUISHER SYSTEM				
1	Supply of Hand held Fire Extinguisher - CO2 - 4.5 Kg with suitable Metal Floor stand MS fabricated painted in black colour	12 Nos., (Twelve numbers)	1 No. (Each)		
2	Supply of Hand held Fire Extinguisher - ABC Powder - 2 Kg	20 Nos., (Twenty numbers)	1 No. (Each)		
3	Supply of Hand held Fire Extinguisher - CO2 - 2 Kg with suitable Metal Floor stand MS fabricated painted in black colour	1 No. (One number)	1 No (Each)		
F.	Supply and installation of EXIT SIGNAGE SYSTEM				
1.	DOUBLE sided Fire Exit Signage dimension: 11" x 7"	7 Nos., (Seven numbers)	1 No. (Each)		

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

SI No	Description	Qty	Unit	Rate (In figures and Words)	Amount
2	Single side EXIT signage : 11" x 7"	21 Nos., (Twenty one numbers)	1 No. (Each)		
3	Fire Extinguishers photo luminescent signages - wall mounted	42 Nos., (Forty two numbers)	1 No. (Each)		
4.	"Manual Call Point" , "Use stair case in case of fire" photo luminescent signages - wall mounted	11 Nos., (Eleven numbers)	1 No. (Each)		
5.	A2 size color Evacuation Plans with photo luminescent printed with Glass on SS studs (Auto glow EEP2)	1 No. (One number)	1 No. (Each)		

Note:- 1. After completion of work the complete schematic drawing in colour of 5 sets should be handed over to the departmental Engineer.

2. The rate quoted will be inclusive of Tax.

Contractor

Correction in Rates :-
Omission in Rates :-
Overwriting in words :-

architects
 D. M. M. Floor, A. B. Block, Golden Dotted Apartment
 10th Cross Street, Bangalore - 560001
 Ph. - 91 88 5164379, 9884494400.com

NOTES

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NO.	REVISIONS	DATE
1	ISSUED FOR PERMIT	10.10.2018
2	ISSUED FOR PERMIT AND APPROVAL	10.10.2018
3	ISSUED FOR PERMIT AND APPROVAL	10.10.2018
4	ISSUED FOR PERMIT AND APPROVAL	10.10.2018
5	ISSUED FOR PERMIT AND APPROVAL	10.10.2018

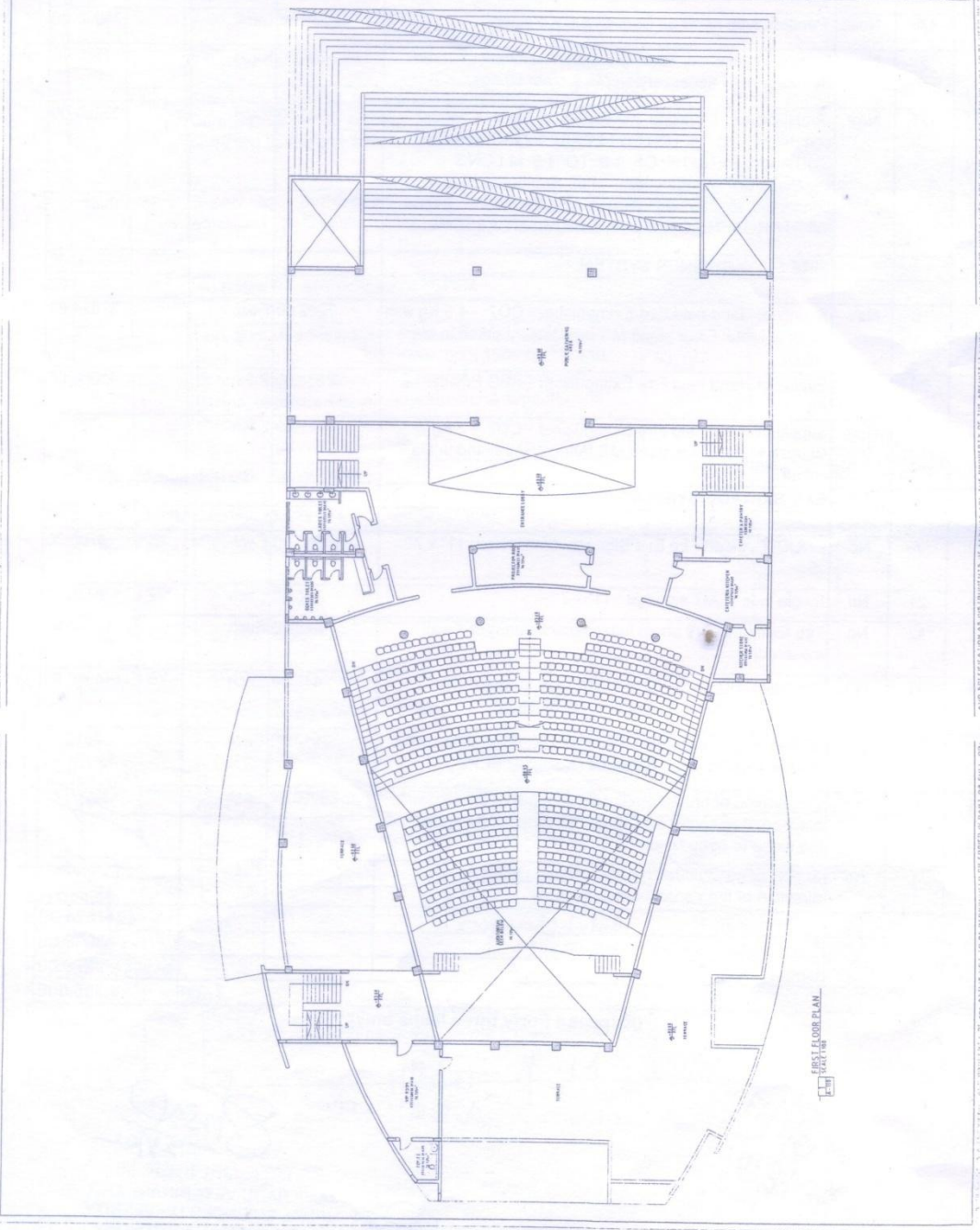
DETAILED DESIGN

CONVENTION CENTER

TAMILNADU VETERINARY AND ANIMAL SCIENCE UNIVERSITY
 MADHAVARAM MILK COLONY, CHENNAI

FIRST FLOOR PLAN

DATE: 10.10.2018
 SCALE: 1:100
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 PROJECT NO: 1018-01-AR-01-120



1018-01-AR-01-120

ARTICLES OF AGREEMENT

ARTICLES OF AGREEMENT made on this _____ day of _____ between the Tamilnadu Veterinary and Animal Sciences University, Chennai represented by the _____ which expression shall where the context so admits his successors-in-office and assigns on the one part and _____

_____ (hereinafter called the contractor which expression shall where the context so admits include his heirs, executors, administrators and legal representatives of the other part.

WHEREAS the Tamilnadu Veterinary and Animal Sciences University desires of _____

_____ and have caused an estimate of probable quantities contained in Schedule A, drawings and specifications describing the work done to be prepared.

AND WHEREAS the said Schedule A, drawings numbered 1 to _____ inclusive of (Schedule B and the specifications – (Schedule C) have been signed by are on behalf of the parties hereto.

AND WHEREAS the contractor has agreed to the retention by the Tamilnadu Veterinary and Animal Sciences University of the earnest money of Rupees

_____ paid by him when the submitted his tender as security for the due fulfilment of the contract to the satisfaction of the Estate Officer or in the alternative as the Estate Officer may direct, to deposit as security for the aforesaid purpose.

AND WHEREAS the contractor has deposited with the Estate Officer the sum of
Rs. _____ (Rupees _____)

_____ vide _____
_____ as additional security for the due fulfillment of the contract to the
satisfaction of the Estate Officer.

AND WHEREAS the contractor has also signed the copy of the Tamil Nadu Building Practice and addenda volume thereto maintained in the Estate Office in acknowledgement of being bound by all the conditions of the clauses of the standard preliminary specification and all the standard specifications for items of works described by a standard specification in Schedule A.

AND WHEREAS the contractor has agreed to execute upon and subject to the condition set forth in the preliminary specification of the Madras detailed Standard specifications and such other conditions as are contained in all the specifications forming part of this contract (hereinafter referred to as “the said conditions”) the works shown upon the drawings and described in the said specifications and set forth in schedule A as the probable quantities and comply with the rate of progress noted at the end of this Articles of Agreement for a sum of Rs. _____ (Rupees _____)

_____) or such other sum as may be arrived at under the clause of the standard preliminary specification relating to “Payment on lumpsum basis or by final measurement at unit prices”.

Now it is hereby agreed as follows:

1. In consideration of the payment of the said sum of Rs. _____ (Rupees _____)
_____) or such other sum as may be arrived at under the clause of the standard preliminary specifications relating to “payment of lumpsum basis or by final measurement at unit prices,”.

The contractor will upon and subject to the said conditions execute and complete the works shown upon the said drawings and described in the said specifications and to the extent of the probable quantities shown in Schedule A with such variations by way of alterations or additions or deductions from, the said works and method of payment therefor as are provided form the said conditions.

2. The Estate Officer shall be competent to exercise all the powers and privileges reserved herein in favour of the Tamilnadu Veterinary and Animal Sciences University with previous sanction of or subject to the ratification of the competent authority in cases where such sanction or ratification may be necessary.
3. Time shall be considered as the essence of the agreement and contractor hereby agrees to commence the works as soon as this agreement is accepted by competent authority the site (or premises) agreement is accepted by competent authority the site (or premises) is handed over to him as provided for the said conditions and agrees to complete the work within _____ months from the date of such handing over of the site or premises and to show progress of as defined in the tabular statement “rate of progress” nevertheless to the provision of the extension of time contained in clause 57 of the standard preliminary specifications.
4. The said conditions shall be read and construed as forming part of this agreement and the parties hereto will respectively abide by and submit themselves to the conditions and stipulations and perform the agreements of their parts, respectively.
5. Upon the terms and conditions of this agreement being fulfilled, performed to the satisfaction of the satisfaction of the Estate Officer, the security deposit of the contractor as herein before recited or such portion thereof as he may entitled to under the said conditions shall be returned to the contractor.

In witness whereof of contractor Thiru / M/s. _____

_____ has hereunto set his hand and The
_____ Officer, Tamilnadu Veterinary and Animal Sciences
University has hereunto set his hand the day and year first above written.

Signed by the contractor

Address:

In the presence of witness

Signed by _____ on behalf of Tamilnadu Veterinary and
Animal Sciences University

Designation

In the presence of witness