

No: 1951/2021/NK/TVPM

Office of the Nirmithi Kendra,  
B Block, 4th Floor, Civil Station,  
Kudappanakunnu, Thiruvananthapuram-43.  
Pnmirthi01@gmail.com, 0471-2732929  
06/11/2021

**INVITATION OF TENDER (5)**

District Nirmithi Kendra invites Competitive tender from authorized Firms/Experienced Individual in the form attached herewith for **Fire fighting and fire extinguishing system for TSCCC Building Thiruvananthapuram.**

S/LN o.	PARTICULARS	QTY	UNIT
1	Supplying, installation, testing and commissioning of electrically driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required:(Terrace Pump) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS : 1520 Suitable HP squirrel cage induction motor TEFC type suitable for operation on 415 volts, 3phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS- 325.M.S.fabricated common base plate, coupling, coupling guard, foundation bolts   tc:as required.Suitable cement concrete foundation duly plastered and with anti vibration pads. 450lpm @ 25m head.	1	nos
2	Supply,installation,testing and commissioning of motor starter control panel (Auto/Manual) DOL starter unit & On Off,indication lamps etc.. complete with all accessories including instrumentation as required	1	nos
3	Supply & installation of glycerin filled Pressure Gauge with 0-200 psi range, 3/8" BSP bottom entry 100 MM dial weather proof with SS internals and isolation cock	1	nos
4	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required	1	nos
5	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 I/cftthngs like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement	8	m



	concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as required.100 mm dia		
6	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 100 mm dia	10	m
7	Supplying, fixing, testing and commissioning of butterfly valve of PN 1.6 rating with bronze/gunmetal seat duly ISI marked complete with nuts, bolts, washers, gaskets conforming to IS 13095 of following sizes as required: 100 mm dia	2	nos
8	Providing, installation, testing and commissioning of non-return valve of following sizes confirming to IS: 5312 complete with rubber gasket, GI bolts, nuts, washers etc.as required : 100 MM	2	nos
9	Supply, installation, testing and commissioning of Air Release Valve Gun metal body Horizontal Lift Type Having Screwed ends as per ISO Mark of following size as required. 25mm dia	1	nos
10	Supply, installation, testing and commissioning of stainless steel Ball Valves with necessary fittings confirming ISO 17292 of following sizes as required. 25 mm dia	2	nos
11	Supplying and fixing single headed internal hydrant valve with instantaneous Gunmetal coupling of 63 mm dia with cast iron wheel ISI marked conforming to IS-5290 (Type -A) with blank Gunmetal cap and chain as required	1	nos
12	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect hose pipe coupling as required :	1	nos
13	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS:12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. Connections from riser	1	nos

	with 25 mm dia stop gun metal valve & M.S. Pipe and socket.		
14	Supplying and fixing 63 mm dia 15 mtr long CP hose pipe with 63 mm dia Male and Female Gun metal couplings duly binded with GI wire, rivets etc conforming to IS 636 (type-A) as required	1	nos
15	Supply & installation of Hose Cabinets to accommodate one piece of hose pipe along with one pair of male and female coupling and one branch pipe. The single door cabinet is made up of FRP sheet with glass fronted hinged doors and lock, painted with Post Office red colour.	1	nos
16	Supplying and fixing of fire brigade connection of cast iron body with gun metal male instantaneous inlet couplings complete with cap and chain as reqd. for suitable dia MS pipe connection conforming to IS 904 as required : 2 way	1	nos
17	Supply and installation of dry chemical powder type ABC 5Kg Stored Pressure Fire Extinguisher complete with initial charges, discharge hose, wall mounting brackets etc. and with ISI mark	4	nos
18	Supply and installation of suspended Clean Agent type Fire extinguisher filled with HFC 227ea with approved make. 5Kg capacity	2	nos
19	Supply and fixing in position photo luminescent type signages with indication arrows and letters for Fire hose/Fire Fighting Equipment /Fire Extinguisher.(Make:PROLITE / CEASEFIRE)	1	nos
20	Supply and fixing in position exit signages photoluminscent type with indication arrows and letters EXIT / FIRE EXIT. (Make:PROLITE / CEASEFIRE)	3	nos
21	Supply and installation of LED Exit / Egress Edgelit lights with a rechargeable battery, conform to IS 9457 :2005, 22 SWG CRCA white powder-coated housing having input voltage of 230V 50Hz in the proposed locations and giving connections as required.MAKE :PROLITE / CEASEFIRE	3	nos
22	Supply, installation, testing, commissioning of new automatic main fire alarm control and indicating panel of 2 zones micro processor based complete with charger, rectifier, alarm display connections. etc, provisions for battery boost/trickle, floor to floor announcing facilities, and with all other necessary attachments like 2 x 12 V maintenance free batteries battery leads etc and made functional. Make: GST/RAVEL	1	nos
23	Supply and fixing of response indicator	2	nos



24	Supply, installation, testing and commissioning of Photo electric smoke detectors of imported make with base complete with all accessories MAKE:RAVEL/GST	12	nos
25	Supply and fixing of strobe cum hooters with relay module and giving connections as required.	3	nos
26	Supply and fixing of Manual Call Point and giving connections as required.	1	nos
27	Supply, drawing, testing and commissioning of 2Cx1.5 Sq MM Red coloured PVC sheathed fire-rated, armoured Copper conductor cables are laying Surface/recessed in the wall and ceiling with ISI mark.	50	m
28	Supply and installation of Slave Cylinder assembly Comprising Below Items: Pr. Gauge + Low Pr. Supervisory switch pneumatic actuator flexible discharge hose flexible actuation hose +1 tee+ a elbow 7/16 JIC- 1/8 NPT Make: Honeywell/Siemens/kidde or Equivalent	1	set
29	Supply and installation of Master Cylinder assembly Comprising Below Items:  Pressure Gauge + Low Pressure Supervisory Switch Electromagnetic Actuator Pneumatic Actuator Flexible Discharge Hose Flexible Actuation Hose Manual & Pneumatic Actuator  Union 7/16 JIC 1/8 Make : Honeywell/Siemens/Kidde or Equivalent<	2	set
30	Supply and installation of Discharge Monitoring Pressure Switch having NO/NC contact to monitor Make : Honeywell/Siemens/Kidde or Equivalent	2	nos
31	Supply and installation of Check Valve and which be compatible with cylinder system Make : Honeywell/Siemens/Kidde or Equivalent	4	nos
32	Supply, filling and storage of Novec 1230 extinguishing agent in a seamless cylinder as per NFPA standards . The system shall utilise 42 bar pressure technology. Make : Honeywell/Siemens/Kidde or Equivalent	500	kg
33	Supply and installation of Manual abort Switch with flip cover or shall be protected against unwanted activation Make: Ravel/System sensor/ GST or Equivalent.	2	nos
34	Supply and installation of Manual Release Switch with flip cover or shall be protected against unwanted activation Make: Ravel/System sensor/ GST or Equivalent.	2	nos
35	Supply and installation of Nozzles. Nozzle size and type shall be decided as per manufacturer calculation Make : Honeywell/Siemens/Kidde or Equivalent	20	nos
36	Supply and installation of microprocessor controlled 2 Zone Gas Release Panel. Panel shall have	2	nos

	minimum 1 nos agent release circuit and feature to prevent accidental release. Panel shall have builtin battery charger and shall include 2 nos 12V7AH battery. Panel shall be complied with CE Make: Ravel/System sensor/ GST or Equivalent.		
37	Supply and installation of seamless 120 Ltrs. Cylinder with Valve and all fittings required for the NFPA standard installation	4	nos
38	Supply and installation of seamless 100 Ltrs. Cylinder with Valve and all fittings required for the NFPA standard installation	1	nos
39	Supply and installation of M.S. ASTM A 106 Gr. B. Sch. 40 Seamless pipe network for extinguishing agent flow with all fittings, supports as per OEM design plan and finished with fire red paint followed by one coat of primer, in server room and main operator room  Make : Jindal/TATA/ equivalent	1	nos
	Total		

## 2) Bid Price

- Tender shall be for the full quantity as described above. Corrections if any shall be made by crossing out re-writing with initial and date.
- The rate should be all inclusive of taxes, levies, transports etc. Usual deduction of taxes will be made from the gross amount of bill.
- The rate quoted by the bidder shall be fixed for the duration of the tender and shall not be subject to adjustment on any account.
- The price should be quoted in Indian rupees only.

3) Each bidder shall submit only one tender.

## 4) Validity of tender

Tender shall remain valid for a period not less than 45 days after the dead line date specified for submission

## 5) Evaluation of tender

The tenderer will evaluate and compare the tender determined to be substantially responsive ie which

- Are properly signed
- Confirm to the terms and conditions and specification.

## 6) Award of Tender

- The work will award to the tenderer whose tender has

been determined to be substantially responsive and who has offered the lowest evaluated quotation price

- b) The tenderer whose bid is accepted will be notified of the award of the contract by the purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.

7) The amount will be released after verification of the material in physical, quality and receipt of invoice in this office according to the availability of funds. Individual or authorized dealers/agents are only eligible.

8) Tenderer are requested to provide your offer latest by 12 hours on **25.11.2021** and the quotation will be opened at **25.11.2021**.

9) Cost of Tender form : Nil

10) Earnest Money Deposit: Nil

We look forward to receiving your tender and thank for your interest in this work.

  
Project Manager

Copy to : Website & notice board





### Tender Format

S.No.	PARTICULARS	QTY	UN IT	Rate	Amount
1	Supplying, installation, testing and commissioning of electrically driven terrace pump suitable for automatic operation and consisting of following, complete in all respects, as required:(Terrace Pump) Horizontal type, multistage, centrifugal, split casing pump of cast iron body & bronze impeller with stainless steel shaft, mechanical confirming to IS : 1520 Suitable HP squirell cage induction motor TEFC type suitable for operation on 415 volts, 3phase, 50 Hz, AC supply with IP55 class of protection for enclosure, horizontal foot mounted type with Class-'F' insulation, conforming to IS-325.M.S.fabricated common base plate, coupling, coupling guard, foundation bolts  tc.as required.Suitable cement concrete foundation duly plastered and with anti vibration pads. 450lpm @ 25m head.	1	nos		
2	Supply,installation,testing and commissioning of motor starter control panel (Auto/Manual) DOL starter unit & On Off,indication lamps etc. complete with all accessories including instrumentation as required	1	nos		
3	Supply & installation of Glycerin filled Pressure Gauge with 0-200 psi range, 3/8' BSP bottom entry 100 MM dial weather proof with SS internals and isolation cock	1	nos		
4	Providing & fixing of pressure switch in M.S. pipe line including connection etc. as required	1	nos		
5	Providing laying, testing & commissioning of 'C' class heavy duty MS Pipe conforming to IS 1239/3589 i/cfittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. in ground including welding, excavation & providing cement concrete blocks as supports, anticorrosive treatment with coaltar/asphalt tape as per IS 10221, refilling the trench etc. of following sizes complete as	8	m		

	required. 100 mm dia				
6	Providing, laying, testing & commissioning of 'C' class heavy duty MS pipe conforming to IS 3589/IS 1239 including Welding, fittings like elbows, tees, flanges, tapers, nuts bolts, gaskets etc. and fixing the pipe on the wall/ceiling with suitable clamp/support frame and painting with two or more coats of synthetic enamel paint of required shade complete as required : 100 mm dia	10	m		
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12	Supplying & fixing 63 mm dia gun metal short branch pipe with 20 mm nominal internal diameter size nozzle conforming to IS 903 suitable for instantaneous connection to interconnect	1	nos		



	hose pipe coupling as required :				
13	Supplying and fixing first-aid Hose Reel with MS construction spray painted in post office red, conforming to IS 884 complete with the following as required. 20 mm nominal internal dia water hose thermoplastic (Textile reinforced) type -2 as per IS:12585 20 mm nominal internal dia gun metal globe valve & nozzle. Drum and brackets for fixing the equipments on wall. Connections from riser with 25 mm dia stop gun metal valve & M.S. Pipe and socket.	1	nos		
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18	Supply and installation of suspended Clean Agent type Fire extinguisher filled with HFC 227ea with approved make. 5Kg capacity	2	nos		
19	Supply and fixing in position photo luminescent type signages with indication	1	nos		

	arrows and letters for Fire hose/Fire Fighting Equipment /Fire Extinguisher.(Make:PROLITE / CEASEFIRE)				
20	Supply and fixing in position exit signages photoluminscent type with indication arrows and letters EXIT / FIRE EXIT. (Make:PROLITE / CEASEFIRE)	3	nos		
21	Supply and installation of LED Exit / Egress Edgelit lights with a rechargeable battery, conform to IS 9457 :2005, 22 SWG CRCA white powder-coated housing having input voltage of 230V 50Hz in the proposed locations and giving connections as required.MAKE :PROLITE / CEASEFIRE	3	nos		
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24	Supply, installation, testing and commissioning of Photo electric smoke detectors of imported make with base complete with all accessories MAKE:RAVEL/GST	12	nos		
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28	Supply and installation of Slave Cylinder assembly Comprising Below Items: Pr.	1	set		

	Gauge + Low Pr. Supervisory switch pneumatic actuator flexible discharge hose flexible actuation hose +1 tee+ a elbow 7/16 JIC- 1/8 NPT Make: Honeywell/Siemens/kidde or Equivalent				
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38	Supply and installation of seamless 100 Ltrs. Cylinder with Valve and all fittings required for the NFPA standard installation	1	nos		
39	Supply and installation of M.S. ASTM A 106 Gr. B. Sch. 40 Seamless pipe network for extinguishing agent flow with all fittings, supports as per OEM design plan and finished with fire red paint followed by one coat of primer, in server room and main operator room Make : Jindal/TATA/ equivalent	1	nos		
	<b>Total</b>				

Gross Total Cost: - Rs.....

(In words) We agree to supply the above goods in accordance with the technical Specification for a total price of Rs.....(amount in figure).....(amount in words) with in the period specified in the invitation for quotation.

**Signature of Tenderer**