



NCRA • TIFR

## National Centre for Radio Astrophysics

TATA INSTITUTE OF FUNDAMENTAL RESEARCH

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### CORRIGENDUM -1

January 18, 2022

A) Extension of due date B) Reply to pre-bid queries & C) BOQ Change (Revised BOQ).

Public Tender No. : NCRA:WF092:PUB428:2021 - for Supply, Erection and commissioning of Fire Fighting System and Smoke & Fire Alarm System at Multipurpose building, GMRT Khodad, Tal. Junnar, Dist. Pune 410504.

Please take note of the following and submit your bids accordingly.

A) Extension of Due date for submission of bid is as given below :

Downloading of Tender	Extended upto : 03.02.2022, upto 18.00 hrs.
Due date for Submission of Tender	Extended upto : 09.02.2022, upto 18.00 hrs.
Date for Opening of Techno Commercial Bid (Part I). Through Zoom/Google meet (If sufficient bids are received).	10.02.2022 at 15.00 hrs.

For details visit website: <http://www.ncra.tifr.res.in/ncra/ncra1/public-tenders-1>

B) Reply to Pre-bid- Queries raised during pre-bid meeting held on 11.01.2022 at 2.30 P.M. through zoom meeting in response to our Public Tender No. NCRA:WF092:PUB428:2021

Noteworthy clarifications and replies to the queries raised, are as following: -

Sr. No.	Query raised by the bidder	NCRA-GMRT Reply
1	<b>Civil Work: Excavation Backfilling</b>	<b>In scope of NCRA</b>
2	Single Hydrant Landing Valve / Double Door Hose Box/ Rubber Lined Fabric Reinforced Fire Hose / Branch Pipe with Nozzle / Suction Collecting Head having / Valves.	Manufacturers Test Certificate is Acceptable
3	<b>Item No 22:</b> "Horizontal end suction / high pressure Single stage, centrifugal pump, suitable for 3-Phase A.C supply. The installation shall be complete with all accessories. Fire pump shall have C.I. casing, CS diffusers, bronze impeller (hard finished and dynamically balanced) and C.S. Shaft with mechanical seal, capable for delivering <b>900 LPM @ head of 56 mtrs , 40 HP .....</b> " <b>Prebid Query:</b> In Pre Bid Query Vendor asked for increasing Pump size from 900LPM to 1800LPM.	<b>GMRT Reply:</b> Pump size selected based on Fire Officer Provisional NOC and site visit. Request for Increasing Pump capacity is not accepted. Main and stand by Fire Pump for item no 22 to be as mentioned in the BOQ.
4	<b>Item 22 and 23: Fire Pump and Booster Pump Inspection Clause</b> "The pump should be tested for bench mark at factory and shall be approved by the Local fire Authority prior to supply."	"Pump with Factory Test Certificate and Guarantee Certificate is Acceptable. Other Details remain same except as mentioned in sl no-3
5	<b>Item No 25:</b> Supply , Installation , Testing and Commissioning of <b>Addressable</b> single or multiloop- as per the site	Word "addressable" to be replaced by "conventional".

	requirement , Smoke detector and Fire Alarm control Panel system of 12 or required no of Zones with all required standard accessories, power supply battery etc. required for its satisfactory operation and suitable for auditorium, lab rooms, exhibition area in Multipurpose building.	
6	<b>Item No 26</b> : Supply & Installation of conventional Intelligent Manual Call Point designed to operate on loop type intelligent fire detection system, complete with Junction box , base and other required fittings and required connections etc complete. Operating Volt 12-35VDC; IP 44 or higher as per fire regulations.	Word "intelligent" to be replaced by "conventional"
7	<b>Item No 27</b> : Supply & Installation of intelligent open area sounder and visual indicator complete with Junction box , base and other required standard fittings etc and as per fire regulations.	Word "intelligent" to be replaced by "conventional"
8	<b>Item No28</b> : Supply & Installation of Isolator (ISOX) complete with Junction box , base and other required fittings etc complete Requested to Delete in Prebid Query	Item not Deleted.
9	<b>Item No 29</b> : Supply & Installation of Addressable Optical Smoke Detectors complete with Junction box , base and other required fittings etc complete and as per fire regulations. Operating Volt 12- 35VDC	Word "addressable" to be replaced by "conventional"
10	<b>Item No 30</b> : Supply & Installation of Addressable Multisensor Detectors complete with Junction box , base and other required fittings etc complete and as per fire regulations. Operating Volt 12-35VDC	Word "addressable" to be replaced by "conventional"
11	<b>Item No 31</b> : Supply & fixing of 50 mtr range - <u>addressable reflective beam type smoke detector</u> , which comprises of a single unit incorporating an infra-red transmitter/receiver and reflector and complete with Junction box, base and other required fittings etc. Suitable for wall mounting or to a surface back box. Microprocessor controlled.	Word "addressable" to be replaced by "conventional"
12	<b>Item No 37</b> : Automatic Fire Extinguisher for Electrical Panel , of 4 kg capacity ABC Type as per IS15683. Item includes necessary accessories pipes etc including installation in the electrical panel.	Type : "Fire Trace Tube System" - is acceptable. Panel already installed. Automatic Fire Extinguisher to be installed in existing panel. Dimension of panel will be shared during execution.

C) Kindly note the changes in BOQ/ Price Bid for item Sr.No.20(Priming Tank), 22a (Test Certificate), 23a(The pump LPM & Test Certificate) and Sr.No.36 (CO2 type fire extinguisher). Bidders are required to submit the bid with the Revised Chapter-6 BOQ/Price Bid (Part-II) as enclosed with the mentioned changes.

Please take note of the same and submit your bid accordingly.

All other terms & conditions remains unaltered. This corrigendum -1 forms an integral part of the tender document. Hence bidders will have to sign and submit this document along with their technical bid without fail for having taken note of these changes.

  
**PURCHASE OFFICER**

**Chapter 6 (Revised)**  
**Price Bid (Part II of the tender)**

(To be submitted in a separate sealed envelope)

**Schedule of Work and Quantity and Rate (Bill of Quantity – BOQ) for Fire Fighting System and Smoke and Fire Alarm system Multi-Purpose Building (MPB) GMRT-NCRA, Khodad, Near Narayangaon, Tal. Junnar, Dist. Pune 410504**

Sl	Details of the work	Make	Unit	Qty	Unit Rate in Figure Rs.	Unit Rate in Words Rs.	Total Amount (Rs)
<b>A</b>	<b>PIPES AND VALVES FOR INSIDE OUTSIDE HYDRANT AND PUMPHOUSE:</b>						
1	<b><u>Pipes for Inside and Outside Hydrant , Pump room etc</u></b> Supplying, laying ,welding, joining testing of <b>G.I. pipes' C CLASS</b> confirming to <b>IS 1239 Part-1(Up to 150mm dia pipe) / IS 3589 (for dia above 150mm).</b> Item is complete with all necessary bends , Tee joints and other required accessories for completing the hydrant pipeline and pipe lines inside pump house along with necessary flanges , nutbolts and screwed connections for valves, pipe supports and clamps for inside hydrant, hydrant inlet outlet etc including necessary consumables as per requirement. Hydrant connections , Valves will be paid separately as per BOQ. item. Item will be paid in running meter for the pipeline of respective size. Items will be painted as per fire regulation. <b>Excavation and backfilling work for the underground outside hydrant will be done by NCRA/GMRT.</b>	JINDAL/ZENITH/TAT A/BHUSHAN/APPOL O					
a	200 mm Dia		Mtr	6			
b	150 mm Dia		Mtr	250			
c	100 mm Dia		Mtr	70			
d	80 mm Dia		Mtr	20			
2	Supply and Fixing of <b>4mm thick wrapping Coating for Fire hydrant pipes for 150 dia</b> pipe line as mentioned in item 1(b) as per IS-10221-1982 This is to be done for underground hydrant piping against Item-1.Item will be paid in running metre of Pipe.	IWL / RUSTEK	Mtr	250			
3	<b>Single Hydrant Landing Valve</b> - Supply, fixing and testing of single headed hydrant landing valve (SS Body) , Oblique Type with 75NB Flanged inlet and 63NB Female Oblique Instantaneous Outlet with blank cap and chain as per <b>IS-5290 with ISI mark.</b> Complete with matching flanges, Nutbolt, Gasket, etc complete.	FIREQUIT/ARIHANT/ OMEX/OR EQ	Nos	6			
4	<b>Double Door Hose Box-</b> Supply, erection and commissioning of Mild Steel double door fire hose box, Glaze Front Door Painted outside Red Colour and inside white with key . Hose box should be suitable for keeping two nos hose 15 Mtr long, SS branch pipe with Nozzle		Nos	6			
5	63 mm dia x 15 M long Rubber Lined Fabric Reinforced Fire Hose including Gunmetal / SS Male and Female instantinuous type coupling, machicine wound with GI wire suitable for burst pressure of 35.7 Kg/Sq Cm as per IS:636 Type A	ARIHANT/OMEX/NE WAGE/FIRE QUIT	Nos	12			
6	63 mm dia Branch Pipe with Nozzle Gunmetal / Stainless Steel as per IS 2871	ARIHANT/OMEX/NE WAGE/FIRE QUIT	Nos	6			
7	Supply and installation of wall mounted Swinging Type <b>Hose Reel Set ISI Marked</b> including M.S. fabricated drum with rubber hose of 20mm dia & 30 Mtr. Long Hose Reel along with necessary accessories for the same like shutoff nozzle , jolly clips ,etc complete.	ARIHANT/OMEX/NE WAGE/FIRE QUIT	Nos	2			

Date : \_\_\_\_\_ Signature of Bidder : \_\_\_\_\_  
Name & Designation : \_\_\_\_\_  
Place : \_\_\_\_\_ Company Name & Address : \_\_\_\_\_  
Company Seal & Phone No. : \_\_\_\_\_

**Chapter 6**

**Price Bid (Part II of the tender)**

Sl	Details of the work	Make	Unit	Qty	Unit Rate in Figure Rs.	Unit Rate in Words Rs.	Total Amount (Rs)
8	Supply and fixing of SS 1/2 inch Branch Pipe ( 12" Long ) for pressure gauge		Nos	2			
9	Supply and Installation of <b>Pressure Gauge</b> 100 mm dia with required fittings excluding ball valve and pipe stem which will be paid under separate BOQ item.	HITECH/GURU/INDF OSE	Nos	2			
10	Supply & Fixing & commissioning of Gun Metal 3 way Suction Collecting Head having 3 nos. 63mm Male Inst. NRV Inlet & Female Round Thread outlet. As per IS: 904 with Dust Caps.	ARIHANT/OMEX/NE WAGE/FIRE QUIT	Nos	1			
11	Supplying, Fixing and Testing of <b>Butterfly Valve PN-16 conforming to IS</b> of required size. Valve shall be of <b>CI body with SS / Brass Disc</b> . Item is complete with matching flanges, nutbolt, gasket, necessary pad locking arrangement etc complete with all accessories, including Cost Of jointing flanges fixing etc.	NORMAX/KARTAR/Q UINN/CRI					
a	150 MM Dia		Nos	3			
b	100 MM Dia		Nos	3			
c	80 MM Dia		Nos	3			
12	Supplying, Fixing And Testing <b>Sluice Valve (Gate Valve ) PN-16 Pressure Class CI body with SS / bronze</b> internals Item is complete with matching flanges, nutbolt, gasket, etc complete with all accessories, including Cost Of jointing flanges fixing etc. Sluice valves to be as per <b>IS-780-1984</b> .	NORMAX/KARTAR/Q UINN/CRI					
a	150 MM Dia		Nos	5			
b	100 MM Dia		Nos	1			
13	Supply and fixing of <b>CI ball valve with SS / Gun metal / Brass internals</b> ISI marked with flanges / screwed connection as per requirement. Item is complete with all accessories, including Cost Of jointing, fixing etc.	Zoloto					
a	20mm Dia		Nos	1			
b	25mm Dia		Nos	2			
14	Air Release Valve (25mm Dia)		Nos	1			
15	Supplying, Fixing And Testing <b>Dual Plated NRV valve</b> Conforming To <b>IS Standard PN16</b> . Item is complete with matching flanges, nutbolt, gasket etc, complete with all accessories, including Cost Of jointing flanges fixing etc.	CRI / QUINN /NORMAX/KARTAR/ EQ					
a	150 mm Dia		Nos	2			
b	100 mm Dia		Nos	1			
c	80 mm Dia		Nos	1			

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**Chapter 6  
Price Bid (Part II of the tender)**

Sl	Details of the work	Make	Unit	Qty	Unit Rate in Figure Rs.	Unit Rate in Words Rs.	Total Amount (Rs)
16	Supplying, Fixing And Testing <b>Expansion joint ISI marked PN16</b> . Item is complete with matching flanges, nutbolt, gasket etc, complete with all accessories, including Cost Of jointing flanges fixing etc.						
a	150 mm Dia		Nos	2			
b	100 mm Dia		Nos	1			
c	80 mm Dia		Nos	1			
17	Supplying, Fixing And Testing <b>CI BODY BALL TYPE FOOT VALVE As per IS Standard</b> Complete with matching flanges, Nutbolt, Gasket, etc. Including Cost Of Jointing flanges fixing etc.	NORMAX/KARTAR					
a	150 mm Dia		Nos	2			
a	100 mm Dia		Nos	1			
b	80 mm Dia		Nos	1			
18	Supplying, Fixing And Testing <b>Y TYPE STRAINER PN16 As per IS Standard with Bronze / SS perforated sheet</b> Complete with matching flanges, Nutbolt, Gasket, etc. Including Cost Of Jointing flanges fixing etc.	CRI/NORMAX/SRI/EQ					
a	150 mm Dia		Nos	2			
a	100 mm Dia		Nos	1			
b	80 mm Dia		Nos	1			
19	Providing, fixing, testing & commissioning of <b>MS air cushion tank</b> on top of each riser fabricated from 6mm thick MS plate, 300 mm in diameter and 1.2 m in height with dished ends fabricated from 8mm thick MS plate with Air release valve with stop cock, flanged inlet connection and drain arrangement with 25mm dia valve, pressure gauge with gun metal stop cock complete with all accessories as required.		Nos	1			
20	Priming tank with connection Supply and Installation of Priming tank of suitable size including all necessary accessories, connections to pump system, fixing arrangements etc complete. Fire pump (Item no 22) and Jockey pump (Item no 23) will be in negative suction pressure (Pump to be fitted above tank level). Item should be suitable for necessary priming of fire pumps (Item no 22) and jockey pumps (item no 23) suitable for fire hydrant system as mentioned in tender.		Nos	1			
21	Supply and Installation , testing of <b>Pressure Switch KP 36</b> complete with all required fittings like 12/15mm dia isolation valve GI nipple elbow etc & necessary <b> cable</b> .	DANFOSS	Nos	3			
<b>B</b>	<b>FIRE PUMPS AND PANEL:</b>						
22	Supply, installation, testing and commissioning of electrically driven high pressure centrifugal pump for <b>fire hydrant</b> suitable for automatic operation consisting of the following:	Kirloskar	Nos	2			
a	Horizontal <b>end suction / high pressure Singlestage</b> , centrifugal pump, suitable for 3-Phase A.C supply. The installation shall be complete with all accessories. Fire pump shall have C.I. casing, CS diffusers, bronze impeller (hard finished and dynamically balanced) and C.S. Shaft with mechanical seal, capable for delivering <b>900 LPM @ head of 56 mtrs , 40 HP</b> to ensure a minimum pressure of 3.5 Kg/Sqcm at the farthest or topmost hydrant . The installation shall be complete with necessary pressure gauge with gun metal shut off cock on delivery side. <b>(The pump should be tested for bench mark at factory and shall be approved by the Local fire Authority prior to supply or Pump with Factory Test Certificate and Guarantee Certificate is Acceptable with specific waiver for factory inspection from NCRA / Fire Officer).</b>						

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**Chapter 6**  
**Price Bid (Part II of the tender)**

Sl	Details of the work	Make	Unit	Qty	Unit Rate in Figure Rs.	Unit Rate in Words Rs.	Total Amount (Rs)
b	Squirrel cage induction motor suitable for operation on 415 volts, 3 phase 50 HZ A.C supply, for the above pump with synchronous speed of <b>2900</b> RPM, conforming to IP 55 protection & class F insulation. The motor shall conform to IS 325-1978 (up to date) with flexible coupling and coupling guard, complete as required.						
c	Common base plate for (a) and (b) from M.S. Channel for required size.						
d	Suitable foundation design and drawing to be provided by the Contractor while the foundation will be done by NCRA. Foundation Pad complete with anti-vibration arrangement will be contractors scope.						
23	<b><u>Supply, installation, testing and commissioning of jockey pump comprising of the following:</u></b>	Kirloskar	Nos	1			
a	Centrifugal pump, suitable for operation on 415 volts, 3 phase 50 HZ A.C supply. The installation shall be complete with all necessary accessories, Flexible coupling and coupling guard, etc complete as required. The pump casing shall be CI, shaft shall be SS & impeller / shaft sleeve / casing wearing ring shall be bronze. <b>180 LPM @ head of 56 mts , 7.5 HP</b> The pump shall be provided with mechanical seal The system shall be complete with necessary pressure gauge with gun metal shut off cock on delivery side. <b><u>The pump should be tested for bench mark at factory and shall be approved by the Local fire Authority prior to supply or Pump with Factory Test Certificate and Guarantee Certificate is Acceptable with specific waiver for factory inspection from NCRA / Fire Officer.</u></b>						
b	Squirrel cage induction motor ISI marked as per ISS:325:1978, for operation on 415 V, 3 phase 50 HZ AC supply for the above pump with a synchronous speed of <b>2900 R.P.M.</b> with flexible coupling and coupling guard etc. as required. The motor shall conform to IS 325-1978 (up to date) with flexible coupling and coupling guard, complete as required.						
c	Common base plate for (a) and (b) from M.S. channel as required size.						
d	Suitable <b>cement concrete foundation with plaster</b> , (design and drawing to be provided by the Contractor while the foundation will be done by GMRT/NCRA) complete with Antivibration arrangement of cushy foot mounting.						

Date : \_\_\_\_\_ Signature of Bidder : \_\_\_\_\_  
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**Chapter 6  
Price Bid (Part II of the tender)**

SI	Details of the work	Make	Unit	Qty	Unit Rate in Figure Rs.	Unit Rate in Words Rs.	Total Amount (Rs)
	<b>MCC FOR FIRE PUMPS</b>						
24	<p><b><u>Supply, Installation, testing &amp; commissioning of panel suitable for 415V, 3 phase, 4 wires, 50Hz power distribution system.</u></b> The panel shall be free standing floor mounting / wall mounting of sheet metal , enclosed dead front with TPN Tinned Copper bus-bars of appropriate rating (Capacity 36KA) , separate earth bus bars to be provided through out the length of the panel. The incoming and outgoing feeder breakers, fuses, indicating lamps etc., shall be accommodated in a modular multi tier arrangements. The painting shall be done as per relevant IS codes/as specified. The outgoing feeders inside the panel shall be connected through solid bus bars. Flexible cable links are not acceptable. Bus bars shall be provided with sleeves or heat resistant insulated paint. The panels shall be suitable for cable entry from top and bottom. The minimum fault rupturing of all incoming and outgoing shall be 35/20/10 KA respectively as specified. The panels shall be fabricated after the approvals of fabrication drawings &amp; will be IP-42 enclosure. The panel shall be fabricated by TAC/Fire authority approved vendor. The panel should be complete with necessary incoming MCCB with CT, Ammeter, Voltmeter, indicating lamps etc. The outgoing feeder shall be with necessary MCCB's, fully automatic star delta starter with over load relay with SPP,ON/OFF &amp; TRIP, phase indication lamps, contactors, auto/manual selector switch etc for following pumps.</p> <p>MCCB should have thermal magnetic release, adjustable overload and short circuit protection, and having ultimate breaking capacity Icu= Ics service breaking capacity 100%, thermal adjustment 0.8 to 1In, magnetic adjustment 10In and shall be as per Ref Standard:60947-2 and other applicable standards.</p> <p>Minimum electrical clearance &gt;=30mm shall be maintained between phases, between phase to Earth, Ph to neutral, Neutral to earth. Enough clearances should be maintained from incoming/ feeder terminals /lowermost busbar to body/gland plate to facilitate for easy cable core bending and termination work. Busbars may be supported on appropriately rated support insulators designed to withstand high dynamic and electromagnetic stresses arising in the event of full load fault level. MCC panel should be in compliance with the ISS-13947:1993 with latest amendments and all other relevant standards , IE rules/National electrical codes etc as applicable.</p> <p><u>MCC panel should be capable of automated and manual operation of all fire pumps (given below) as per requirement of necessary regulations for fire fighting system.</u> Detailed panel SLD shall be submitted to client / electrical consultant before procurement.</p> <p>Panel should have appropriately rated spare fiddlers- a) 63 Amp 4 pole MCCB - 01 no, b)32 Amp- 4 Pole MCB- 01 No; c) 16 Amp 4 Pole MCB -1 No;</p>	L&T / Siemens Materials/ Legrand	Nos	1			
	a) Electric pumps for Hydrant (One main + one standby)						
	b) Jockey Pump						
	<p>Cabling from motors to panel including termination complete with double earthing. Body earthing of the various equipment's/ motors/ switchgears supplied by the bidder with suitable size of earthing strip/ wire etc. as per IS:3043 and as required.</p> <p>B-21.3 (c): Cabling from motors to panel: Cables supplied and used should be 1.1KV class, appropriately rated XLPE insulated armored as per ISS:7098.</p> <p><u>MCC Panel to be inspected by GMRT/NCRA prior to delivery.</u></p>						

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**Chapter 6**  
**Price Bid (Part II of the tender)**

Sl	Details of the work	Make	Unit	Qty	Unit Rate in Figure Rs.	Unit Rate in Words Rs.	Total Amount (Rs)
C	<b>CONVENTIONAL FIRE ALARM SYSTEMS :</b>						
25	Supply , Installation , Testing and Commissioning of <b>conventional single or multiloop-</b> as per the site requirement , Smoke detector and <b>Fire Alarm control Panel system of 12 or required no of Zones</b> with all required standard accessories, power supply battery etc. required for its satisfactory operation and suitable for auditorium, lab rooms, exhibition area in Multipurpose building.	Ravel / Cooper / MORLY/GST/ Honeywell / Apollo	Nos	1			
26	Supply & Installation of conventional <b>conventional Manual Call Point designed to operate on loop type intelligent fire detection system</b> , complete with Junction box , base and other required fittings and required connections etc complete. Operating Volt 12-35VDC; IP 44 or higher as per fire regulations.		Nos	18			
27	Supply & Installation of <b>conventional</b> open area sounder and visual indicator complete with Junction box , base and other required standard fittings etc and as per fire regulations.		Nos	10			
28	Supply & Installation of Isolator (ISOX) complete with Junction box , base and other required fittings etc complete		Nos	4			
29	Supply & Installation of <b>conventional</b> Optical <b>Smoke Detectors</b> complete with Junction box , base and other required fittings etc complete and as per fire regulations. Operating Volt 12-35VDC		Nos	60			
30	Supply & Installation of Addressable Multisensor <b>Detectors</b> complete with Junction box , base and other required fittings etc complete and as per fire regulations. Operating Volt 12-35VDC		Nos	2			
31	Supply & fixing of 50 mtr range - <b>conventional reflective beam type smoke detector</b> , which comprises of a single unit incorporating an infra-red transmitter/receiver and reflector and complete with Junction box, base and other required fittings etc. Suitable for wall mounting or to a surface back box. Microprocessor controlled. Specifications: Flame retardant ABS, IP50 a. : Operating voltage-10 VDC to 30 VDC. And operating range upto to 50mtr b. Relay contacts: 1 amps 30V DC		Nos	2			
32	Supply & fixing of Siren 1-KM range with relay module complete with Junction box , base and other required fittings etc complete		Nos	1			
33	Supply, Laying and installation of <b>2C x 1.5 sq.mm armored Cable ISI Marked</b> with required fittings. Cables should be 1.1KV class copper conductor as per ISS:694, 1554 PVC insulated and sheathed. Cables shall be <b>FR/FRLS/ZHFR grades</b> . Cable		Mtr	900			
34	Supply , Laying and installation of <b>4C x 2.5 sq.mm Cable ISI Marked</b> with conduit piping and required fittings. Cables should be 1.1KV class copper conductor as per ISS:694, 1554 PVC insulated and sheathed. <b>Cables shall be FR/FRLS/ZHFR grades.</b>		Mtr	450			
35	Supply , Laying and installation of PVC Conduit of 25mm dia including necessary cable clamping/saddles etc.		Mtr	200			

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**Chapter 6**  
**Price Bid (Part II of the tender)**

Sl	Details of the work	Make	Unit	Qty	Unit Rate in Figure Rs.	Unit Rate in Words Rs.	Total Amount (Rs)
D	<b>FIRE EXTINGUISHERS</b>						
36	CO2 TYPE 4.5 kg Fire Extinguisher with as per IS15683	SYNERGY/SAFETIME /SAFEALART/OMEX/ FIRE STONE	Nos	2			
37	Automatic Fire Extinguisher for Electrical Panel , of 4 kg capacity ABC Type with Fire Trace Tube System as per IS15683. Item includes necessary accessories pipes etc including installation in the electrical panel.	FiREGUARD / EQ	Nos	1			
38	M S Sand Bucket standard. capacity (4 nos)+M S Stand , painted red, suitable for fire fighting system.		Set	2			
<b>39</b>	<b>MISSALINOUS CHARGES FOR DRAWINGS TESTING AND CERTIFICATION LICENSING</b>		Lump sum	1			
a	Preparing final Drawing for Complete Fire fighting lines including pumphouse and hydrant System. including necessary approval from Statutory authority as may be required. Softcopy and 2 printed copies to be submitted						
b	Preparing final Drawing for Complete diagram for fire alarm system inside the building . including necessary approval from Statutory authority as may be required. Softcopy and 2 printed copies to be submitted						
c	Testing commissioning of fire hydrant system and fire alarm system including final certification and Licensing and final NOC by Fire authority.						

Date : \_\_\_\_\_ Signature of Bidder : \_\_\_\_\_  
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