

ADDITIONAL SPECIAL CONDITIONS

A. Purchase Tax : Purchase tax at prevailing rate will be deducted towards purchase tax from every payment.

B. Guarantee period of works (G.O. (P.) 161/2019/Fin Dtd. 25-11-2019

The guarantee periods of various works are as follows:

Sl. No	Type of Work	Defect Liability Period
(I)	Civil Works:-	
1	Original Works – Buildings, Bridges, Fly Overs, Irrigation & Power Structures, Harbour Engineering Structures etc excluding Electrical, Electronics and Mechanical Associated works	60 months
2	New road construction including sub base and base and BM&BC surfacing	36 months
3	New road construction including sub base and base and surfacing with specification other than BM&BC	24 months
4	Surface renewal with BM&BC	24 months
5	Surface renewal with 30mm thick BC / SDBC or specifications of similar standards	18 months
6	Surface renewal with 20mm chipping carpet or specifications of similar standards	12 months
7	Ordinary repairs to roads, buildings and other structures	6 months
8	Special repairs to Roads, Buildings and other structures	18 months
9	Road markings using thermoplastic paint	12 months
10	Retro reflective sign boards & direction boards	36 months
11	Temporary works	Will be fixed based on use period and will be specified in each case by the Agreement Authority
12	Interior Works	18 months

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(II)	Mechanical, Electrical & Electronics Works:-	
1	Mechanical Works related to Building Works	36 months
2	Mechanical Works related to Irrigation Structures	36 months
3	Electrical works related to Building works	36 months
4	Electrical Works related to Irrigation Structures	36 months
5	Fire Protection System Works	36 months
6	ELV (Extra Low Voltage) works	36 months

1. 1% of the bill amount will be deducted towards the Employer's contribution to the Kerala Construction Workers' Welfare Fund
2. All quality tests as per the revised PWD manual/norms have to be conducted by the contractor at his own cost and submit the report to the University.
3. If there is exemption for the security deposit an amount equivalent to 5% of executed amount will be retained as retention money which will be released after the DLP.

CONTRACTOR

Assistant Exe. Engineer

APPROVED MAKE OF MATERIALS

Sl. No	Item	Makes approved
1	Manual call point	AGNI/ CEASEFIRE/ MINIMAX/SAFEX
2	Hooter	AGNI/ CEASEFIRE/ MINIMAX/ SAFEX
3	Smoke detector	Siemens/ System Sensor/ Honeywell/ Schneider
4	Heat detector	Siemens/ System Sensor/ Honeywell/ Schneider
5	Fire alarm panel	Siemens/ Honeywell/ Ravel/ Aswin
6	Armoured copper cable	Finolex/ RR Kabel/ V-Guard/ Havells
7	Fire extinguisher	CEASEFIRE/ MINIMAX/ SAFEX
8	Clean agent fire extinguisher	CEASEFIRE/ MINIMAX/ SAFEX
9	Battery	Exide/ Panasonic/ Amaron/ Bosch
10	Public address system (entire products shall be of the same make)	Ahuja/ Philips/ Pioneer/ Bosch

SPECIFIC DEPARTMENTAL CONDITIONS FOR FIRE DETECTION & PROTECTION SYSTEM

1. This project is a time bound one. The selected contractor shall complete the work in all respects according to the time schedule appended herewith maintaining top quality of work.
2. Penalty as per the current rate will be imposed for belated completion
3. The tenderer shall quote basic rate for the item
4. The contractor shall make their own arrangement for the associated civil/ builder/ electrical and other works for the due fulfilment of the contract and no additional payment will be given for such works
5. The work shall be carried out strictly in conformity with the accepted schedule and in accordance with the relevant IS Standards incorporating the latest amendments
6. Only approved make of materials shall be used. The contractor shall produce samples of all materials along with test certificates from competent authorities and get approval from the competent Departmental officers prior to the commencement of work
7. As far as possible, same brand of approved products shall be used for the entire work. The contractor is allowed to change the brands under unavoidable circumstances and on justifiable grounds. This shall be done after getting prior approval from Department in writing.
8. Drawing for submission to Fire Force Department for approval, if required, shall be prepared by the selected contractor at their own expense. The statutory fees, if any, paid to the Department will be reimbursed on production documentary evidence in original.
9. All the required follow up with the Fire Force Department, if required, shall be done by the selected contractor at their own expense.
10. Two hard copies along with one soft copy of approved drawing or the as fitted drawings of the installation shall be submitted to the Department on completion of project – along with the final bill
11. The selected agency shall also submit 2 sets of test certificates and guaranty certificates for the entire components used. Operation manual for the installation shall also be submitted
12. The defect liability period shall be for 3 years (three years) from the date of completion.
13. The selected agency shall inspect the installation once in 3 (three) months and carry out preventive maintenance including replacement of components, if required, during the defect liability period
14. The security deposit will be released after the defect liability period provided the installation is found fully functional.
15. Manufacturer's test certificate/guarantee certificate

<u>Accepted list of Materials</u>		
	<u>Electrification</u>	
1	FR PVC insulated Copper Wire/Flex Wire (ISI marked)	Finolex/ Traco/ Havells/ RR kabel/ V- Guard
2	U.G. cables (ISI marked)	RR/ Havells/ Finolex/ Gloster
3	U.G. cables (ISI marked)-HT	Finolex/ Poly cab/ Gloster
4	Cable Glands/ Sockets	Seico/ Dowells/ Jainson
5	PVC conduit (ISI marked)	Konseal/ Geo/ Evershine/ Precision/ Balco
6	PVC accessories (ISI marked)	Toms/ Pressfit /Spin- Tech
7	Boxes for Modular Accessories/Front Plates/ Modular type switches, Bell push, Plug sockets, /Stepped Electronic fan regulators, and other modular accessories (RoHS compliant)-All components should be of the same make.	Philips-Elite/ MK- Blenze/ Legrand- Myrius
8	Ceiling Rose (ISI marked with Polycarbonate body)	Vimal/ Ponds/ Kany
9	LED tube light fittings.	Philips/ Crompton/ Bajaj/Wipro
10	Ceiling fan five star	Usha(technix)/ Orient/ Crompton/ Havells/ Khaitan
11	Exhaust fan/ wall fan	Usha/ Orient/ Almonard
12	LED	Philips/ Crompton/ Bajaj
13	Ball & socket	Mepro/ Mars
14	Bulkhead fittings	Mepro/ Bajaj
15	Enclosure for MCB DB	L&T/ Legrand/ Siemens/ Hager/ Schneider/ <i>Indo Asian</i>
16	RCCB / RCBO / Miniature isolator / MCB (10 kA)	Same make as of the DB used
17	CT	Unipower/ Resitech/ Intrans/ Megawin
18	MCCB & Accessories	Legrand/ Siemens/ L&T/ Schneider
19	SDFU/ SDU (AC 23A duty)	L&T/ Schneider/ ABB
20	Fuse base, fuse links	Same make as of the SDFU/ SDU used
21	DWC pipes	Rex Poly Extrusions/ AKG

22	Fire Extingusher (ISI Marked)	Minimax/ Safex/ Bharat/ Ceasefire
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23	Insulating mat	Electromat/ Raichem
24	Meters	L&T/ Elmeasure/ Conserv
25	LED Indication lamp	C&S/ Siemens/ L&T

**LIST OF MATERIALS OF APPROVED BRAND
AND/OR MANUFACTURER AS PER IS SPECIFICATION**

APPENDIX “A” : CIVIL WORKS

Sl. No	Item	Brand
1	Vitrified tiles/Artificial granite/Quartz	Nitco, Johnson, Kajaria, RAK
2	Ceramic Floor tiles	Nitco, Johnson, Kajaria, RAK
3	Ceramic Wall tiles	Nitco, Johnson, Kajaria, RAK, Somani
4	Colour pigmented precast pavement tiles	Ultra, Eurocon, Scorpio
5	Tile jointing pigment/joint filler	Latecrete, Ball Endura, MAPEI
6	Exterior emulsion paint	Asian, ICI, Nerolac, Berger, Jotun
7	Interior plastic emulsion	Berger, ICI, Asian, Nerolac, Jotun
8	Cement	Malabar, Indian cement, Ultra tech, Ambuja, ACC, RAMCO, JK
9	Reinforcing Steel	TATA, SAIL, Vizag
10	Wall Putty	Wipco, Birla, JK, Asian Paints
11	Distemper	Nerolac, Asian Paints, Berger
12	Door Lock & Door Closers	Godrej, Dorset, Dorma, Ebco
13	Anchor Fasteners	Hilti India Pvt Ltd, Fischer or approved
14	Faucets	Jaquar, Toto, Grohe, CERA
15	Sanitary Ware	CERA, Parry Ware, Hind Ware, RAK
16	Centrifugal Pump	V-Guard, Kirloskar, Crompton, Texmo
17	PVC/uPVC/cPVC/PPR	Supreme, Finolex, Prince (with ISI)
18	Laminate	Century, Green Lam, Anchor
19	False ceiling	Armstrong, Guproc
20	Water proofing materials/Tile adhesive	Fosroc, Cerachem, STP, Pidilite
21	Glass	Modi Guard, Saint Gobaian, Asahi

22	Gypsum ceiling	Gypboard, Hilux, Gyproc
23	G.M.F.W.W valves conforming to IS 778-1984	Zolota, Karthal, Leader
24	Sluice valves conforming to IS-14846-2000	Calsens, Upadhyaya, Indian valve Co, Karthal
25	GI pipe conforming to IS-1239	Appolo, Zenith, Tata, Kalinga
26	Water supply fittings	Jaquar, CERA, Banalave (Hindware)
27	Hot water pipes- PPR pipes	Supreme, Prince

Sd/-

Assistant Exe. Engineer