

CENTRE FOR PERFORMING ARTS AT VARKALA					
ELECTRONICS WORKS					
PART - IV					
Item No	Details of items	Quantity	Unit	Rate Rs (in figures & words	Amount in Rs
1	Supply, installation , testing and commissioning of 1/2.9" Megapixel CMOS sensor , 25/30 FPS@720P, 3.6mm fixed lens, IR LEDs length 20 m, High speed, long distance realtime transmission of make Dahua/Honeywell /Geovision or equivalent.	8	Each		
2	Supply, installation , testing and commissioning of Weatherproof Digital Camera with 2.8~12mm Vari-Focal Lens & IR up to 40m. Camera output is 720P 0akes:Secura/Honeywell /Geovision.	4	Each		
3	Supply, installation , testing and commissioning of DVR -16 Channel with H.264 dual-stream video compression, all 16channels @ 720P, HDMI / VGA/BNC simultaneous video output, 4/8 channel synchronous realtime playback, GRID interface & smart search, 3D intelligent positioning for PTZ dome camera, Support 2 SATA HDD up to 8TB, 2 USB2.0. Approved Makes:Dahua/Honeywell /Geovision.	1	Each		
4	Supply, installation , testing and commissioning of transformer based regulated power supply with fuse. Approved Make DEUCN/HRISCH.	3	Each		
5	Supply, installation , testing and commissioning of Management PC with one 20" monitor, one DVD writer, One colour printer. Approved Make : DELL / HP	1	Each		
6	Supply, installation , testing and commissioning of connectors and accessories required for the installation work on surveillance solution of reputed make equivalent as required.	26	Each		
7	Supply, installation , testing and commissioning of Signal cable (RG-6 with 90% sheilding) and 2 x 1.5 Sqmm cable) with conduits and matching OBO quick clip.	500	Metre		

Item No	Details of items	Quantity	Unit	Rate Rs (in figures & words)	Amount in Rs
8	Supply, installation , testing and commissioning of EPBAX with 16 extensions(upgradable to 24) and 4 Incoming Lines + Key Phone + CLI card.	1	Each		
9	Supply, installation , testing and commissioning of Beetle Caller ID phone.	5	Each		
10	Supply, installation , testing and commissioning of Digisol Wifi Access Point with dual antenna	5	Each		
11	Supply, installation , testing and commissioning of Digisol Load Balancing Router for multiple internet connections	1	Each		
12	Supply, installation , testing and commissioning of Digisol 24 port Gigabit web managed distribution Layer Switch + 2 SFP	1	Each		
13	Supply, installation , testing and commissioning of Opterna CAT6 Keystone Jacks	48	Each		
14	Supply, installation , testing and commissioning of Opterna Single Port Face Plate	16	Each		
15	Supply, installation , testing and commissioning of Opterna CAT6 1M Patch Cords	16	Each		

Item No	Details of items	Quantity	Unit	Rate Rs (in figures & words)	Amount in Rs
16	Supply, installation , testing and commissioning of Opterna 19" 1U CAT6 UTP Patch Panel	1	Each		
17	Supply, installation , testing and commissioning of Opterna 9U Double section Rack with two Fans, one single phase OBO V25 B+C and one pdu.	2	Each		
18	Supply, installation , testing and commissioning of 3KVA Socomec double conversion online ups with isolation transformer , one OBO V25 B+C at input and one OBO V25 B+C at output + 16Nos. of batteries.	1	Each		
19	Supply, installation , testing and commissioning of Digital Timer with Sphelsberg IP66 Enclosure (for automation of essential common area and outdoor lights)	4	Each		
20	Supply, installation , testing and commissioning of 180degree Luxa Theben Motion detectors for toilets.	3	Each		
21	Supply, installation , testing and commissioning of TOA BS634T : 6W 5" (12cm) UL Listed wall mount off-white color Box speaker with volume control knob to adjust its sound to 3W and 6W, Frequency Response of (120 – 18,000Hz),Sensitivity-90dB (1W, 1m),Enclosure: HIPS resin, off-white,Grille: Surface-treated steel plate net, off-white, paint for PA system.	18	Each		
22	Supply, installation , testing and commissioning of TOA 2240 Mixer Amplifier for PA system + OBO V20 Class C + NPE /1 at input.	1	Each		

Item No	Details of items	Quantity	Unit	Rate Rs (in figures & words)	Amount in Rs
23	Supply, installation , testing and commissioning of TOA PM-660D PAGING MICROPHONE Moving coil microphone, Unidirectional, Frequency Response: 100 Hz - 10 kHz, Rated Sensitivity: -58 dB , Rated Impedance: 600 , balanced, 5-pin DIN plug, push-to-talk switch, locking lever, Short-off type, Zinc plated steel wire, gray baked paint, 100 (W) × 215 (H) × 150 (D) mm ,440 g.	1	Each		
24	Supply, installation , testing and commissioning of interconnects & cabling of reputed make as required..	500	Metre		
25	Supply, installation , testing and commissioning of SONY DVD Player with audio Out for PA system.	1	Each		
26	Supply, installation , testing and commissioning of SONY DVD Player with audio Out for performance hall.	1	Each		
27	Supply, Installation, testing and commissioning of 8(minimum) Channels mixer (8 mono input minimum) with low and high frequencies leveling/channels, and other sources etc as required. (Make: Samson MDR1064)	1	Each		
28	Supply, Installation, testing and commissioning of Hand held wireless microphone with (Make:Audio Technica ATW-702 ) + its stand.	2	Each		
29	Supply, Installation, testing and commissioning of Wire less collar microphone with its receiver (Make: Audio Technica AT898cW) with its stand	2	Each		

Item No	Details of items	Quantity	Unit	Rate Rs (in figures & words	Amount in Rs
30	Supply, Installation, testing and commissioning of Wired Hand held Micro phone (Make: Audio Technica ATM-410) with its stand.	2	Each		
31	Supply and laying of 2.5Sqmm copper cable for connecting the speaker with the speaker manager / amplifier, with required accessories.	100	Metre		
32	Supply and laying of Shielded Microphone cable with all accessories etc as required.	50	Metre		
33	Supply, Installation, testing and commissioning of F-2000BT SPEAKER SYSTEM High Efficiency 2-Way speaker System, Bass-reflex type, 100 V line: 60W, 92 dB (1 W, 1 m) , Frequency Response: 85 - 20,000 Hz, Directivity: 100 V ertical and 110 Horizontal, HIPS, black Enclosure, Dimensions: 244 (W) × 373 (H) × 235 (D) mm , 7.4kg	6	Each		
34	Supply and Installation of 42U Floor Mountable Rack for above system components with perforated door, glass front door and all accessories including Cable manager, Heavy duty Castor wheel with brakes, 4 numbers of FANS, 2 x 6way PDU, 2x OBO V25 B+C Single Phase SPD, cable ties, earthing and Hard ware units. (Make: Opterna)	1	Each		
35	Supply, Installation, testing and commissioning of TOA P2240H – 240W Booster Amplifier with frequency response of (50 – 20,000Hz),S/N Ratio-Over 60dB,Panel finish: ABS resin, black and Case finish: Steel plate, black	2	Each		
	<b>TOTAL -PART IV- ELECTRONICS WORKS</b>				