

				ESTIMATE			
Name of work : Providing Electric Installation to new building of Canara Bank.=07-08-2020							
Sr NO	Qnty.	Unit	SOR NO	Item Description	Rate	Per	Amount
1	376	Pt.	(1-2-1) Add 1 % L.C.	Point wiring for Light / Bell with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in/ on surface on wall/ceiling complete with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic box, single mounting base frame covered with textured/metallic front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessoriesCat. III Note:- Maximum up to 10 mtrs length, excess will be considered as Mains for Point.			
RATE IN WORDS							
2	189	Pt.	(1-2-1) Add 1 % L.C.	Point wiring for secondary light point with 2-1.5 sq.mm & earthwire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of pipe to be erected concealed in / flushed on wall/ceiling, complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC box covered with 3 mm thick PC(Polycarbonet) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed.(a) with medium class Rigid PVC pipe and accessories(a) with medium class Rigid PVC pipe and accessoriesCat. III Note : Maximum up to 6 mtrs length, excess will be considered as Mains for Secondary Point.			
RATE IN WORDS							

3	348	Pt.	1-2-3) Add 1 % L.C.	Point wiring for Individual Plug with & earthwire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multistrand copper wires, in following type of to be erected concealed in / on surface of wall / ceiling complete with Modular type switch & 5 pin Plug erected on PVC / Metallic box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.(a) For 16A Plug with 2-4 sq.mm Cu. Wire Note:- Maximum up to 10 mtrs length, excess will be considered as Mains for Secondary Point.			
RATE IN WORDS							
4	683	Pt.	(1-2-4) Add 1 % L.C.	Point wiring for Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic box, single mounting base frame covered with textured / metallic front plate modules erected on / in wall / ceiling with following type accessoriesCat. III			
RATE IN WORDS							
5	180	Nos.	(1-2-6) Add 1 % L.C.	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge3) Two Pin/ RJ-11 Telephone Socket, [B] For Two Gang, Cat.III			
RATE IN WORDS							
6	3	Nos.	(1-2-6) Add 1 % L.C.	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge3)(4) TV Co-axial Socket outlet, Cat.III			
RATE IN WORDS							

7	262	Nos.	(1-2-6) Add 1 % L.C.	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge3)(8) Modem Jack for Computer Open RJ-45, Cat.III			
RATE IN WORDS							
8	5	Nos.	(1-2-6) Add 1 % L.C.	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge3)(9) 16 Amp. SP one way switch, Cat.III			
RATE IN WORDS							
9	5	Nos.	(1-2-6) Add 1 % L.C.	Providing following type of Modular Type Accessories mounted with pvc / metallic box, single mounting base frame covered with textured / metallic front plate , modules erected with necessary connection. As desired by Engineer In charge3)(10) 6/16Amp. Universal socket, Cat.III			
RATE IN WORDS							
10	1216	Mtr.	1-4-1. Add 1 % L.C.	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessoriesb) 2 wire 1.5 sq. mm			
RATE IN WORDS							
11	8200	Mtr.	1-4-1. Add 1 % L.C.	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size (a) with medium class Rigid PVC pipe and accessoriesb) 2 wire 2.5 sq. mm			
RATE IN WORDS							

12	2490	Mtr.	1-4-2. Add 1 % L.C.	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size(a) with medium class Rigid PVC pipe and accessories(a) 2 wire 4 sq. mm			
RATE IN WORDS							
13	600	Mtr.	1-4-2. Add 1 % L.C.	Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size(a) with medium class Rigid PVC pipe and accessories (h) 4 wire 6 sq. mm			
RATE IN WORDS							
14	3600	Mtr.	1-4-7. Add 1 % L.C.	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction[A] CAT - 5			
RATE IN WORDS							
15	4620	Mtr.	1-4-8. Add 1 % L.C.	Supplying & erecting approved make LAN cable of following size in existing pipe as per direction.[C] CAT - 6			
RATE IN WORDS							
16	3600	Mtr.	(1-3-2) Add 1 % L.C.	Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm			
RATE IN WORDS							
17	5	Nos.	1-6-12. Add 1 % L.C.	Providing and erecting Decorative call bell Ting-tong box type 250 volts complete erected			
RATE IN WORDS							

18	200	Rmt	1-3-4. Add 1 % L.C.	Providing & erecting PVC Corrugated Flexible Conduit with required nos. of coupling, PVC bushes, Check-nuts etc. complete of following sizes.(2) 25 mm			
RATE IN WORDS							
19	50	Mtr.	1.3.6	Supplying and laying UPVC cable trunking system comprising unplasticised polyvinyl, chloride rigid material with ignition free & flame proof confirming BS .All necessary accessories and measuring of following sizes.100 mm x 50 mm trunking			
RATE IN WORDS							
20	25	Mtr.	1-4-4 Add 1 % L.C.	Providing and erecting Mains with ISI marked, 1.5KV grade electrolyte multi stranded, annealed copper conductor with heat resistant PVC insulated conforms to IS 694, IEC - 227 erected in existing pipe of following size (Specifically for control panel, relays, power switchgears, motor starters & control wiring) with required size of copper lugs, nuts and bolts if required.(a) One wire 6.00 sq. mm.			
RATE IN WORDS							
21	25	Mtr.	1-4-4 Add 1 % L.C.	(b) One wire 10.00 sq. mm.			
RATE IN WORDS							
22	25	Mtr.	1-4-4 Add 1 % L.C.	(c) One wire 25.00 sq. mm.			
RATE IN WORDS							
23	100	Mtr.	1-4-5 Add 1 % L.C.	Supplying and erecting Flexible PVC insulated multistrand multicore 1.1 kv grade ISI marked copper wires of following size to be erected as directed.e) 1.50 Sq.mm 3 core round PVC sheathed			
RATE IN WORDS							

24	220	Nos.	3-10-1. Add 1 % L.C.	Providing and erecting Miniature circuit breaker single pole 6A to 32A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat.III			
RATE IN WORDS							
25	3	Nos.	3-10-2. Add 1 % L.C.	Providing & erecting 240 V MCB double pole switch for motor & inductive load (C Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity.(A) 40 Amp. Cat.III			
RATE IN WORDS							
26	16	Nos.	3-10-5. Add 1 % L.C.	Providing & erecting 415 V MCB Four Pole for Motor & Inductive Load (C Curve) having 10KA breaking capacity & confirms to IS :8828 in existing box having following capacity (a) 63 Amp. Cat.III			
RATE IN WORDS							
27	14	Nos.	3-11-5. Add 1 % L.C.	Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, confirming to IS 13032 and BS 5486-1986 without MCB to house appropriate nos. of MCBs.(The DBs should be used of same company of MCB to be used) b) Three phase 6 way (8 Way incomer) SS Double door for single phase outgoing horizontal box			
RATE IN WORDS							
28	13	Nos.	3-12-2. Add 1 % L.C.	Providing and erecting Approved make ELCBs / RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 6 KA and suitable for operation on 3 phase and neutral 415V. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component for following Max. rating erected as directed (ii)63 Amps. FP			
RATE IN WORDS							

29	11	Nos.	3-4-1. Add 1 % L.C.	Providing and erecting Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 25 KA. at 415 V, having normal current rating up to 25 A to 100A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III			
RATE IN WORDS							
30	1	Nos.	3-4-2.	Approved make Four pole moulded case circuit breaker having breaking capacity ICU of 35 KA. at 415 V. having normal current rating up to 200A. with Fixed thermal & magnetic release suitable to work on A.C. supply 50 c/s. with all internal connections & complete erected in existing 16 G.M.S. housing. ICS=100% of ICU only Cat III			
RATE IN WORDS							
31	1	Nos.	3-6-8.	Supplying & erecting approved make Four Pole 415V change over switch interior for panel mounting with operating mechanism A.C.23 duty confirming to IS for (A)200A Cat III			
RATE IN WORDS							
32	1	Rn. Mtr	3-8-2. Add 1 % L.C.	Supplying and erecting triple pole & neutral 440V / 500V panel mounting Copper Busbars with four equal Nos. of electrolyte bus having current density not more than 1.6 Amp. / sq.mm (Rated current / cross section area) duly wrapped with colour insulating tape for phase sequence of following current carrying capacity, erected with necessary bus bar supports /insulators, main cable socket to each bar, erected in existing cubical panel with necessary connections.(A) Suitable for 200 Amp. Capacity			
RATE IN WORDS							
33	15	Kg.	3-14-4 Add 1 % L.C.	Providing and erecting Annealed bare Copper wire 8 to 16 SWG.			
RATE IN WORDS							

34	3	Nos.	3-14-9. Add 1 % L.C.	Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications.(b)For Electrical installation up to 11 KV in normal soil. Length of Pipe : .1.0 mtrs Back filling Compound :1 no. Bag of 15 Kg.			
RATE IN WORDS							
35	2	Sq. Mtr	16-03-2001	Providing & erecting weather proof, dust & vermin proof, floor mounted front operated indoor type cubical panel board having IP-64 protection made from 14 SWG thick CRC M.S. sheet for outer body & doors, 16 SWG thick CRC M.S.sheet for internal partitions with necessary supporting angles, flats including cutting, bending, drilling, welding, riveting with internal partitions & cable alley as per requirements & instruction of engineer-in-charge with erection of supplied switch gears, BUSBARS, with suitable size of inter connecting PVC copper wire / copper-aluminium strips, rubber grommets, rib, bakelite control fuses for measuring instruments, earth bus & earth bolts, foundation flange - bolts-base Plates, sufficient nos. of hinged doors, handles with locking arrangement and rubber gasket complete. The Panel shall be painted with epoxy powder coating. (The rates excludes the cost of switchgears, bus bars, inter connecting mains & Copper Aluminium strips, meters, Fuses etc. The dimension shall be measured excluding base beams) The panel shall be supplied with following approved manufacturers with following size(A) The standard companies switch gear shall be used and only manufacturers at CPRI approved factory and shall be certified by that company whose switch gears are used after fabrication for beneficial use (i) with 350mm depth board			
RATE IN WORDS							
36	60	Kg.	3-16-4-A	Providing , erecting , fabricating the M.S. structure as per requirement on site incorporating proper size of M.S. angles, flats, bars, channels, sections complete with cutting, welding, grinding & finishing duly painted with one coat of red oxide with erection on site as per direction of engineer in charge with necessary grouting, cementing, plastering & finishing complete.			

RATE IN WORDS						
37	1	Nos.	9-2-2.	Supplying and erecting approved make panel mounting type Digital Voltmeter having 3 digits LED display, 0 to 750 AC Volts range erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.		
RATE IN WORDS						
38	1	Nos.	9-2-4. .	Supplying and erecting approved make panel mounting type Digital Ammeter having 3 digits LED display, external CT operated, calibrated for 0 to 1000 Amps suitable to operate on 500 Volt AC , erected on existing panel board with all connection, wiring etc .with manufacturers calibration certificate.		
RATE IN WORDS						
39	2	Nos.	9-2-6.	Supplying and erecting Ammeter / Voltmeter selector switch for 3 phase AC Supply 500 V on existing panel board with necessary connections.		
RATE IN WORDS						
40	3	Nos.	9-2-9.	Supplying and erecting approved make set of indicator lamps of LED type lamp, lens cover, Bakelite holder complete erected with necessary connections.		
RATE IN WORDS						
41	50	Mtr.	4-3-3.	Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable multistrand Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables E) 3 1/2 core 120 Sq. mm (70 Sq. mm 1/2 core)		
RATE IN WORDS						

42	4	Nos.	4-6-3. .	Providing and, fixing heavy duty flange type brass cable gland with rubber ring for PVC insulated armoured cable complete with out going tails, insulating tape etc for following size of cables.(C) 3 & 1/2 core 70 Sq. mm			
RATE IN WORDS							
43	12	Nos.	4-7-1.	Solderless crimping type Aluminium lugs conforming to IS suitable for cable of following size evenly crimped with high pressure tool & connected to switchgear terminals with brass/cadmium plated nut bolts in an approved manner. (F) 70 Sq.mm.			
RATE IN WORDS							
44	4	Nos.		(B) 35/50 Sq.mm.			
RATE IN WORDS							
45	50	Mtr.	4-5-8..	Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II)with necessary connecting accessories of same material at required depth for laying of cable. below ground / road surface for enclosing cable and back filling the same to make ground as per original.(a)50 mm dia.			
RATE IN WORDS							
46	335	Nos	MR	Suppling, installing and testing of 15.2 W LED downligher fitting luminaire flux 1214lm classification according to CI 100 THD<10% 140-270v 50 HZ 2 KV 2 years Guarantee Power Factor more than 0.9, THD < 10 %, CCT 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt, LED driver efficiency > 85 % As given make LED used for luminaire. (Each fitting required Certificates) (c) 15.2 Watts, 3 years warranty			
RATE IN WORDS							

47	40	Nos	MR	<p>Suppling, installing and testing of 12.5 W LED downlighter fitting luminaire flux 1067IM classification according to CIE 100 , Light weight plastic housing used as a heat sink shall be made of thick and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name White Body</p> <p>100 Lumen/w 1800 lumen output 0.95 pf THD<10% 140-270v 50 HZ 2 KV 2 years Guarantee</p> <p>Power Factor more than 0.9, THD < 10 %, CCT 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt, LED driver efficiency > 85 %</p> <p>As given make LED used for luminaire. (Each fitting required Certificates) (c) 12.5 Watts, 3 years warranty</p>			
RATE IN WORDS							
48	125	Nos	MR	<p>Suppling, installing and testing of 36.1 W LED downlighter fitting luminaire flux 3209IM luminaireclassification according to CIE 100 having features of Housing:-CRCA White Powdercoated , Diffuser:-High Translucent frosted,Internal Wiring:- PVC insulated Copper wire,Main Terminal = 3way 10 amps. optically efficient difuser , Light weight plastic housing used as a heat sink shall be made of thick and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name White Body</p> <p>100 Lumen/w 1800 lumen output 0.95 pf THD<10% 140-270v 50 HZ 2 KV 2 years Guarantee</p> <p>Power Factor more than 0.9, THD < 10 %, CCT 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt, LED driver efficiency > 85 %</p> <p>As given make LED used for luminaire. (Each fitting required Certificates) 36.1 W LED 3 years warranty</p>			
RATE IN WORDS							

49	45	Nos	MR	<p>Supplying and erecting LED indoor fittings with LEDs of wattage 6 Watt assembled on single MCPCB, having features of optically efficient difuser , Light weight plastic housing used as a heat sink shall be made of thick and high U.V. & corrosion resistance with diffuser and/or Polycarbonate optics with company mark/name White Body 100 Lumen/w 1800 lumen output 0.95 pf THD<10% 140-270v 50 HZ 2 KV 2 years Guarantee Power Factor more than 0.9, THD < 10 %, CCT 6500K, Uniformity ratio >0.7, Luminaire efficiency> 85 lumens/watt, LED driver efficiency > 85 % As given make LED used for luminaire. (Each fitting required Certificates) (c) 6 Watts, 3 years warranty</p>			
RATE IN WORDS							
50	550	Mtr.	14-01	<p>E) LED Strip Light (a) Minimum 4.8W per meter (2 wire, IP-65) with Driver complete Cat-III 1 year warranty</p>			
RATE IN WORDS							
51	150	Mtr.	1-4-7	<p>Supplying & erecting Delton or approved make Telephone Cable electrolytic copper conductor PE insulation twisted in two pairs, & wrapped with FRLS PVC tape & sheathed with FRLS PVC or HFFR outer Jacket suitable for telephone wiring & confirming to C-DOT erected in existing pipe. of following size of conductors & nos.of pairs. With necessary connections.[A] Conductor Size 0.5 mm (b) Armoured [Jelly Filled]2) Twenty Pairs</p>			
RATE IN WORDS							

52	415	Mtr.	.1-3-7.	Supplying & laying under floor pregalvanised corrosion proof rectangular sheet steel cable trunking of 1.6 mm thick having with stand point load up to 1.33 Ton & free from seepage of concrete of screed water having following size of dimensions and No of compartments (W x D x T) [6] 300mm x 25mm x 1.6 mm with Three Compartments			
RATE IN WORDS							
53	90	Nos	.1-3-10.	[C] G.I. Junction cross over box for metal / Al. trunking with duct entry 25mm x 38mm size having epoxy powder coated trap lead with corrosion & rust free having load bearing capacity of 3.6 TONS with adjustable levelling screw of following size.[4] 350mm x 350mm x 60/75 mm depth			
RATE IN WORDS							
54	18	Nos	.5-3-4.	Supplying & erecting single phase approved make industrial exhaust fan suitable for medium duty ring mounted low noise operation suitable for medium duty having following dia size and maximum speed in RPM [A] 305 mm dia 900 RPM Cat.II			
RATE IN WORDS							

55	18	rmt	.4-11-1	Providing and fixing approved make Perforated C type cable tray . Made from CR sheet steel. The cable tray should be single or double bended as per required and as per IS 2062/1079 and shall be coated with hot dip galvanizing as per IS 2629/4759. with coupler plate / Fish plate and GI hardware like nut - bolt and washers etc. erected on existing support as per Specification and as per instruction of engineer in charge..(5) 300 X 50 X 1.5 mm Thick			
RATE IN WORDS							
56	200	No	MR	Supply Of D Link Patch Cords 1Mtr/2Mtr patch cord for computers			
RATE IN WORDS							
57	6	No	MR	Installing testing and commissioning of 9U/16U or as indicatad metal racks for computer clamping switch etc. complete with tray mounting fan, Including Switch.			
RATE IN WORDS							
58	5	EA	1-4-9	Providing & erecting main Distribution (MDF) indoor type, back mounted frame.(b) Suitable for 20 pair			
RATE IN WORDS							

59	1	NOS	MR	Supply, Testing & Commissioning of 500W Voice Alarm & Evacuation System Controller With 8 programmable control inputs and 8 programmable control outputs for voice evacuation system. It should have 80Hz~20kHz Frequency Response and built-in 500W 6 zone class-D amplifier, built-in two separate players for EVAC and alert voice message by SD card, built-in 6 zone AB speaker line low impedance supervision. Priority level : fireman mic, EVAC, input 1, remote microphone, timer & BGM. Power Consumption should be 600W and Power Supply should be AC230V or 115V & DC24V battery inputs, 50-60HZ. Fireman Microphone : 5Mv, 600Ω, Line 1-2 Inputs : 385mV, 10kΩbalanced Combo, Line 3-6 Inputs : 350mV, 10kΩ, RCA, S/N Ratio : >70dB, Speaker Output : 100V AB 8 zone speaker outputs. It should have Two combo inputs for mic/line, 4 line inputs and one REC output and Two RJ45 ports for router, two RJ45 for remote microphone input and two RJ45 for LAN/WAN/Internet network. Capacity of connection 32 units remote microphones With external amplifier input to expansion the power.			
RATE IN WORDS							
60	1	NOS	MR	Supply, Testing & Commissioning of 12 Zone Keypad with 80Hz~16kHz Frequency Response. Each zone expansion keypad supports 12 zone selections. Keypad internal line will be monitored, fault will be indicated by LED and buzzer. It should have 11 units of keypads System Capacity, Power Supply : DC5V, ±20%, THD : < 1% at RMS, 1KHz, S/N Ratio : >70dB, Operating Temp : -20°C to +70°C, Power Consumption : 3W. The keypad is used to expand the capacity of remote microphone for multiple-zones. Up to 11 keypads can be added to an EVAC-500RM Remote Microphone.			
RATE IN WORDS							

61	1	NOS	MR	Supply, Testing & Commissioning of Fireman Microphone should have Four Programmable keys & EVAC/Alert, highest priority announcement, signal path real-time monitoring With AC, DC, fault, MIC and indication test four indicators. System should be able to communicate up to 600 meters with controller through CAT6 cable, support maximum 32 units of fireman microphone. It should have Frequency Response from 80Hz~16kHz, less than 3W Power Consumption, >70dB S/N Ratio, 30mV SPL, < 1% THD at RMS,1KHz.			
RATE IN WORDS							
62	1	NOS	MR	Supply, Testing & Commissioning of Voice Alarm Remote Microphone should have 12 Zone Selection buttons and all zone button, with three-colored indicators, support 32 remote microphones of loop connection. It should have 350mV, 10k Ω Line Inputs and 5mV, 600 Ω Mic Input, >70dB S/N Ratio, < 1% at RMS,1KHz THD. System should have Frequency Response from 80Hz~16kHz. It Support PPT and normal paging two modes.			
RATE IN WORDS							

63	80	NOS	MR	Supply, Testing and Commissioning of 6W Ceiling Speaker having 1.5W-3W-6W rated power output, 100-13KHz Frequency Response. It should have 70v line input and 91db SPL.			
RATE IN WORDS							
64	1	NOS	MR	Supply, Testing and Commissioning of system rack should be with 600 x 800 mm size height 32U with 2 cooling fan, 2 power strip, multi print, front glass door, 2 side ventilation with appropriate hardware for mounting, one tray, two L Bracket set.			
RATE IN WORDS							
65	300	Mtr.	MR	Supply, Testing and Commissioning of Speaker Cable 1.5 Sq.mm 2 Core twin Twisted cable with tin copper PVC Sheathed or better.			
RATE IN WORDS							
66	100	Mtr.	MR	Supply, Cabling and Commissioning of Shielded Cat 6 cable.			
RATE IN WORDS							
67	1	NO	MR	Installation Charges			
RATE IN WORDS							

				Electrical Work			
AMOUNT IN WORDS							
				PA System			
AMOUNT IN WORDS							

AMOUNT IN WORDS							
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