Name of Project :-Electrification works of DEOC Center Bill Of Quantities

	Quantities				1
	Description	Unit	Qty	Rate	Amount
A.WIR					
1	Wiring for light, fans, call bell and 2 pin light socket outlet with 1.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe with modular switches and frames including connections, painting, testing and commissioning etc. as required- Short Point	points	9.00		
2	Wiring for light, fans, call bell and 2 pin light socket outlet with 1.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe with modular switches and frames including connections, painting, testing and commissioning etc. as required- Medium Point	points	29		
3	Wiring for light, fans, call bell and 2 pin light socket outlet with 1.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe with modular switches and frames including connections, painting, testing and commissioning etc. as required- Long Point	points	8.00		
4	Wiring for lighting circuit with 2x2.5 sq.mm 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required	m	350.00		
5	Wiring for points in excess length above long points with 2x4 sq.mm 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required	m	150.00		
6	Wiring for power circuit with 1.1kV grade, PVC insulated copper conductor cable in recessed HDPE pipe including connections, painting, testing and commissioning etc. as required-2x4 sq.mm	m	500.00		
7	Provide and draw high density polythene insulated & sheathed copper conductor 0.5mm dia telephone wire in recessed conduit wiring system complete as required-2 pair	each	9.00		
8	Provide & draw co-axial cables, 75 Ohms, Jelly filled Telecommunication cables, aluminiun foil and aluminium wire braided, RG 6 (Foam), 5 signal losses/100 yds at 100Mhz in existing HDPE pipe including necessary connection, testing etc. complete as required.	m	50.00		

9	Wiring for sub-main with 1.1kV grade, PVC insulated copper conductor cable in PVC casing & capping including connections, painting, testing & commissioning etc. as required-4x10 sq.mm	m	10.00	
10	Providing and drawing of 2.5 sq.mm pvc insulated copper wire for loop earthing in existing recessed HDPE pipe and along with other power point wires as required	m	450.00	
D. CLUD				
B. SUP	PLYING OF FITTINGS			
11	Supplying of ceiling mounted LED tube/batten lighting suitable for 20 Watt made of ultra slim co- extruded polycarbonate channel with housing part in white finish & diffuser part in reeded opal finish and white finish ABS end caps with decorative circular colored polycarbonate cap snap fitted on end cap to enhance the aesthetic of the fixture including all accessories complete as required (<i>odering</i> <i>code:LHEXBQP6IN1W020</i>) <i>Havells, Phillip or</i> <i>Anchor.</i>	each	8	
12	Supply of recessed downlight 21Watt LED polycarbonate, UV stabilized diffuser in opal finish for glare-free uniform light distribution Optocs, powered by an independent electronic LED drivers (SMPS based constant current supply) with output short circuit protection, surge & any other safety test, mirror finish anodized with facets for uniform light discussion reflector, fixing into false ceiling by means of 2 nos SS spring/clips and elegantly designed pressure die-cast aluminium heat sink housing, connection, testing complete as required including driver. Ordering code:LHEAAGP6PL4W02, Ceiling cutout Ø 205 mm, height 60 mm Havells, Phillip or Anchor. (for conference hall)		16	
13	Supplying of 12watt LED surface mounted downlight made of aluminium, SS Spring clip mounting arrangement circular housing white painted inside act as reflector including all accessories complete as required. (<i>ordering code: LHEAAVP6IL1W012</i> <i>diameter:140 mm, height:23mm</i>) Havells, Phillip or Anchor. <i>for toilet</i>	each	6	

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essories, testing &	ach 5		
aluminium heat sink light including all d. (ordering xture size in mm Ø	ach 8		
5W (rectofit) LED ich as base, holder, eac lamp, testing etc. as with PVC insulated ip or Anchor	ach 2		
accessories such as 2 Nos., condenser equired including	set 2.00		
nired Se	Set 1.00		
atter on existing metal table module ing all accessories omplete as outlet & base plate	no 28.00		
ed socketSocket stainless steel made etal box in floor le module frame/plate ssories testing & no s required. cutout width:119mm x	no 8.00		
	Exet Light for use with essories, testing & ice mounted ceiling aluminium heat sink light including all ed. (ordering ixture size in mm Ø p or Anchor. lindoor mirror/picture 5W (rectofit) LED uch as base, holder, ling fan 240 volt l accessories such as with PVC insulated lip or Anchor ceiling fan 240 volt l accessories such as y 2 Nos., condenser equired including hillip or Anchor.(for eres for exhaust fan aired 300mm sweep 6/16A universal utter on existing metal itable module ling all accessories outlet & base plate nd/Havells/equivalent. ed socketSocket , stainless steel made etal box in floor le module frame/plate	Exet Light for use with essories, testing & aluminium heat sink light including all ed. (ordering ixture size in mm Ø p or Anchor.each81 indoor mirror/picture t5W (rectofit) LED uch as base, holder, 'lamp, testing etc. as with PVC insulated lip or Anchoreach22 'lamp, testing etc. as with PVC insulated lip or Anchorset22 Nos., condenser equired including hillip or Anchor.set2.006/16A universal utter on existing metal table module ling all accessories outlet & base plate nd/Havells/equivalent.no28.006/16A universal utter on existing metal table module sories stech as outlet & base plate nd/Havells/equivalent.no8.006/16A universal utter on existing metal table module fing all accessories omplete as outlet & base plate nd/Havells/equivalent.no8.00	Exet Light for use with essories, testing &exe mounted ceiling a luminium heat sink light including all ed. (ordering ixture size in mm Ø p or Anchor.each8I indoor mirror/picture tSW (rectofit) LED uch as base, holder, 'lamp, testing etc. as with PVC insulated lip or Anchoreach2I indoor mirror/picture tSW (rectofit) LED uch as base, holder, 'lamp, testing etc. as with PVC insulated lip or Anchoreach2Set2.00eres for exhaust fan uired 300mm sweepset2.006/16A universal utter on existing metal table module ling all accessories outlet & base plate nd/Havells/equivalent.no28.006/16A universal utter on existing metal table module ling all accessories outlet & base plate nd/Havells/equivalent.no8.00888.008.008.00

C. ERF	CCTION AND INSTALLATION OF FITTINGS			
21	Installation, testing and commissioning of prewired LED Tube/batten light fittings of all recessed type complete with all accessories and tubes directly on ceiling & wall as required including connection with PVC insulated copper conductor 1.5 sq.mm single core cable 1.1 KV grade	each	8.00	
22	Erection of all indoor/outdoor surface type wall bracket/ceiling light/mirror lighting single surface ceiling fittings LED lamps all types call bell / pendent type all type picture or mirror lighting luminiaries fittings with all accessories, fixing of lamp, testing etc. as required including connection with PVC insulated copper conductor- 1.5 sq.mm single core cable 1.1 KV grade	each	37.00	
23	Installation, testing and commissioning of all size ceiling fan and regulator including wiring the down rod of standard length upto 300mm with PVC insulated copper conductor-1.5 sq.mm single core cable 1.1 KV grade	each	2.00	
24	Installation, testing and commissioning of exhaust fan upto 450mm sweep the existing opening including making the hole to suit the size of the indicated fan making good the damages, and connection with PVC insulated copper conductor-1.5 sq.mm single core cable 1.1 KV grade	each	1.00	
D. SUP	PLY & INSTALLATION OF CONTROL GEARS			
25	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a dinbar etc. as required-6A	each	6.00	
26	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a dinbar etc. as required-16A	each	28.00	
27	Supply of miniature circuit breaker (MCB) single pole, 230 volt A.C complete with all accessories suitable to fix on a dinbar etc. as required-20A	each	3.00	
28	Supply of miniature circuit breaker (MCB) double pole, 230 volt A.C complete with all accessories suitable to fix on a din-bar etc. as required- 40A	each	1.00	
29	Supply of residual current circuit breaker (RCCB) double pole, sensitivity 30mA, 230 volt A.C complete with all accessories suitable to to fix on a din-bar etc.as required- 40 A	each	1.00	

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30	Supply of miniature circuit breaker (MCB) triple pole & neutral, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required- 63A	each	1.00	
31	Supply of residual current circuit breaker (RCCB) 4 pole, sensitivity 30mA, 415 volt A.C complete with all accessories suitable to to fix on a din-bar etc. as required -63A	each	7.00	
32	Installation, testing and commissioning of 6/10/16/20A SPN/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required	each	38.00	
33	Installation, testing and commissioning of SPN/DP miniature circuit breaker DIN type complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required- 40A	each	38.00	
34	Installation, testing and commissioning of TPN/four pole miniature circuit breaker(MCB) (DIN type) complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required- 63A	each	1.00	
35	Installation, testing and commissioning of Four pole RCCB (DIN type) complete with all accessories to accommodate on/in prefabricated MS surface /MS cubical control panel board including drilling holes, connections etc as required- 63A	each	1.00	
36	Supply & Fixing of 8 ways TPN distribution board (DIN type, horizontal)with metal door, 415 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required. (<i>Flushed Type</i>)	each	1.00	
37	Supply & Fixing of SPN of 12 ways distribution board (DIN type) with metal door, 230 volt A.C complete with all accessories without MCB/isolator/RCCB out going or incoming etc. as required	each	1.00	
38	Supplying of pre-fabricated MS busbar chamber with copper busbar complete with all accessories etc. as required-4 strips, 300mm bar, 63A	each	1.00	
39	Installation, testing and commissioning of prefabricated bus bar chamber with copper bus bar complete with all accessories including connections etc. as required-4 strips, 300mm bar, 63A	each	1.00	

	Providing and fixing of Main Distribution wooden			
40	box 600 x450 x 200mm deep internal finished sizes with mesh locking arrangement.(<i>for MDB</i>)	each	1.00	
Е				
41	Supplying of 3.5- Core 25 sq.mm 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables (<i>The length of Main service</i> <i>UG cable depends upon the availability of nearby</i> <i>BPC pole/feeder pillar</i>).	m	100.00	
42	Supplying of 2- Core 4sqmm 1.1KV grade PVC insulated and sheathed Aluminium conductor armoured power cables.	m	10.00	
43	Laying of Above 6sq.mm to 25sq.mm one number PVC insulated and sheathed power cable copper/aluminium,armoured/un-armoured 1.1KV single core to four core direct in the ground including excavation, sand cushing, protective covering and refilling the trenches etc. as required	m	100.00	
-	PE PIPES			
44	recessed(Cable sleeve)	m	20.00	
45	recessed(Cable sleeve)	m	15.00	
G. LIG	HTING PROTECTION AND EARTHING			
45	Providing and fixing lightning conductor including holes etc. complete as required-25mm dia 300mm long copper tube single prong at top with 85mm dia 3mm thick copper base plate including Riveting, sweating and soldering as required. (for tropical regoin)	each	1.00	
46	Providing and fixing metal strip on parapet or surface of wall/roof for lightning conductor as required for vertical run-25x4mm copper strip.(<i>for tropical</i> <i>regoin</i>)	each	3.00	
47	Providing & fixing of earthing with GI earth plate 600X600X6mm including all accessories, machinery enclouser, C.I cover plate having locking arrangement, watering pipe with exavation and refilling work including charcoal of coke and salt complete as per the standard earthing drawing complete as required.	each	1	
48	Providing and laying earth connection from earth electrodes in 15mm dia G.I pipe from earth electrodes as required as per guidence of standard earthing drawing-With 4.06mm dia (8SWG) G.I wire	m	15.00	

49	Supplying and fixing of Three Phase four wire Digital Energy Meter LCD display including earth testing and commissioning complete as required.	each	1.00	
H. TEI	LEVISION NETWORKS			
50	Supplying & fixing of socket on wall including necessary cutting, connection testing etc. as required- RJ 11 telephone socket.	each	9.00	
51	Supplying & fixing of socket on wall including necessary cutting, connection testing etc. as required- TV socket outlet.	each	4.00	
52	Supplying and fixing of HDPE pipe for television point including all accessories such as screws, bends,elbows,tees,corners etc. as required-25mm dia.	m	200.00	
I. AIR C	ONDITIONERS			
53A	Providing & fixing Split Type Air Conditioners-1 tonne 3 Star rating, 230V, 50 Hz including providing and fixing of AC stand clamp to fit the outdoor unit, PVC pipe 25mm dia. Heavy duty for water drainout, etc complete as required as per the site conditions-1 tonne, split type Air Conditioner (both heating & cooling), with all accessories complete as required.(<i>For Template Region</i>)	each	3.00	
53B	Providing & fixing Split Type Air Conditioners 1 ton, 3 Star rating, 230V, 50 Hz including providing and fixing of AC stand clamp to fit the outdoor unit, PVC pipe 25mm dia. Heavy duty for water drainout, etc complete as required as per the site conditions-2 tonne, split type Air Conditioner (for cooling), with all accessories complete.(<i>For Tropical Region</i>)	each	3.00	
54	Providing and fixing of instant water heater of capacity 3 litres with all accessories complete as required for kitchen.	each	2.00	