

KITCO LTD
NATIONAL GAMES SECRETARIAT
ELECTRIFICATION OF PROPOSED INDOOR COURT AT TENNIS CLUB, THIRUVANATHAPURAM
SPECIFICATION AND SCHEDULE OF QUANTITIES

Sl.No	Description of Items	Unit	Qty	Rate		Amount (Rs)
				in figure	In words	
1.0	PART - A					
	LT PANEL BOARD AND ACCESSORIES					
1.1	LIGHTING SWITCHBOARD					
	Supply, installation, testing and commissioning of totally enclosed free standing floor mounting dust and vermin proof, IP56, cubicle type Lighting Switchboard suitable for 415V, 3phase, 50Hz supply, fabricated of 14SWG CRCA sheet steel Powder coated complete with interconnections with suitable size of copper leads/solid aluminium strips/rod and having following incoming and outgoing MCCBs as per the drawing and specifications(Refer particular specification and Drawing).The cost shall be inclusive of suitable civil foundation.					
	Incomer					
	63A, 25 kA, FP MCCB with thermal release having adjustable over load and adjustable short circuit auxiliary contacts - 2 nos					
	Outgoing					
	32A, TPN, 415 volts “C” curve - 6Nos.					
	32A, four pole, (three phase and neutral), 415V, Residual Current Circuit Breaker (RCBO), having a sensitivity current upto 100mA - 6Nos.					
	AC1, 32A, 4Pole Power Contactor, with 2NO +2NC auxiliary contacts - 3Nos.					
	LED ON / OFF indicator, 240V AC - 6Nos.					
	Flush head Actuator – Red with legend ‘stop’ , (Contact – 1 NC) and Green with legend ‘start’ , (Contact – 1 NO) - 3Nos.					
	10A, DP, 240V, “C” curve, Miniature Circuit Breaker - 24Nos.					
		no	1.00	109300.42	Rupees One Lakh(s) Nine Thousand Three Hundred And Paise Forty Two Only	109300.42
	SUB TOTAL (PART - A)					109300.42

Sl.No	Description of Items	Unit	Qty	Rate		Amount (Rs)
				in figure	In words	
2.0	PART - B LIGHT FIXTURES					
2.1	Supply of 2x400W, Compact, sturdy non integral high performance floodlight luminaire, with all necessary controlgear, 2Nos. 400W MH lamp, prewired mounting cradle, aluminium reflector, toughened complete with all necessary accessories as required (Philips)	no	24.00	14680.00	Rupees Fourteen Thousand Six Hundred Eighty Only	352320.00
2.2	Installation, testing and commissioning of Industrial pendent / Surface mounting Mediumbay - Highbay Metal hallide fittings on Ceiling / Column etc, using suitable MS clamps, nuts, bolts, etc including connections with 2.5mm ² PVC insulated copper conductor three core cable etc, as required complete.	no	24.00	1047.00	Rupees One Thousand Forty Seven Only	25128.00
	SUB TOTAL (PART - B)					377448.00
3.0	PART - C CABLES AND CABLING					
3.1	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium /copper conductor cable conforming to IS 7098 (Part 1) amended upto date.					
3.1.1	3.5C 50 Sq.mm Al	m	150.00	277.00	Rupees Two Hundred Seventy Seven Only	41550.00
3.1.2	3C 2.5Sq.mm Cu	m	2500.00	131.00	Rupees One Hundred Thirty One Only	327500.00
3.2	Supplying and making end termination with brass compression gland and aluminium/Copper lugs for following size of XLPE insulated PVC sheathed aluminium conductor cable of 1.1 kV grade as required.					
3.2.1	3.5C 50 Sq.mm Al	no	1.00	394.68	Rupees Three Hundred Ninety Four And Paise Sixty Eight Only	394.68

Sl.No	Description of Items	Unit	Qty	Rate		Amount (Rs)
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3.2.2	3C 2.5Sq.mm Cu	no	24.00	146.00	Rupees One Hundred Forty Six Only	3504.00
3.3	Supplying and making outdoor end termination with cast resin compound including aluminium lugs and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1kV grade as required.					
3.3.1	3.5C 50 Sq.mm Al	no	1.00	873.54	Rupees Eight Hundred Seventy Three And Paise Fifty Four Only	873.54
3.3.2	3C 2.5Sq.mm Cu	no	24.00	364.00	Rupees Three Hundred Sixty Four Only	8736.00
3.4	Laying and fixing of one number PVC insulated and PVC sheathed/ XLPE power cable of 1.1 KV grade of following size on cable tray as required.					
3.4.1	Upto 35 sq. mm (clamped with 1mm thick saddle)	m	2280.00	26.22	Rupees Twenty Six And Paise Twenty Two Only	59781.60
3.5	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1kV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.					
3.5.1	Upto 35 sq. mm	m	110.00	249.78	Rupees Two Hundred Forty Nine And Paise Seventy Eight Only	27475.80
3.5.2	Above 35 sq. mm and upto 95 sq. mm	m	30.00	259.44	Rupees Two Hundred Fifty Nine And Paise Forty Four Only	7783.20
3.6	Laying of one number additional PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground in the same trench in one tier horizontal formation including excavation, sand cushioning, protective covering and refilling the trench etc as required.					
3.6.1	Upto 35 sq. mm	m	520.00	171.12	Rupees One Hundred Seventy One And Paise Twelve Only	88982.40

Sl.No	Description of Items	Unit	Qty	Rate		Amount (Rs)
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3.7	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size in the existing RCC/ HUME/ METAL pipe as required.					
3.7.1	Above 35 sq. mm and upto 95 sq. mm	m	60.00	31.74	Rupees Thirty One And Paise Seventy Four Only	1904.40
3.8	Supplying and installing following size of perforated pre-painted M.S. cable trays with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.					
3.8.1	150 mm width X 50 mm depth X 1.6 mm thickness	m	160.00	721.74	Rupees Seven Hundred Twenty One And Paise Seventy Four Only	115478.40
3.9	Supplying and installing following size of perforated pre-painted M.S. cable trays bends with perforation not more than 17.5%,, joined with connectors, suspended from the ceiling with M.S. suspenders including bolts & nuts, painting suspenders etc as required.					
3.9.1	150 mm width X 50 mm depth X 1.6 mm thickness	no	4.00	1214.40	Rupees One Thousand Two Hundred Fourteen And Paise Forty Only	4857.60
SUB TOTAL (PART - C)						688821.62
4.0	PART - D					
	EARTHING AND SAFETY EQUIPMENTS					
4.1	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	set	2.00	5179.14	Rupees Five Thousand One Hundred Seventy Nine And Paise Fourteen Only	10358.28
4.2	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/ terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	m	30.00	142.14	Rupees One Hundred Forty Two And Paise Fourteen Only	4264.20

Sl.No	Description of Items	Unit	Qty	Rate		Amount (Rs)
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4.3	Providing and fixing 25 mm X 5 mm G.I. strip on surface or in recess for connections etc. as required.	m	30.00	183.54	Rupees One Hundred Eighty Three And Paise Fifty Four Only	5506.20
	SUB TOTAL (PART - D)					20128.68
5.0	PART - E LIGHTNING PROTECTION					
5.1	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For horizontal run)	m	340.00	88.32	Rupees Eighty Eight And Paise Thirty Two Only	30028.80
5.2	Providing and fixing G.I. tape 20 mm X 3 mm thick on parapet or surface of wall for lightning conductor complete as required. (For vertical run)	m	120.00	125.58	Rupees One Hundred Twenty Five And Paise Fifty Eight Only	15069.60
5.3	Providing and fixing testing joint, made of 20 mm X 3 mm thick G.I. strip, 125 mm long, with 4 nos. of G.I. bolts, nuts, chuck nuts and spring washers etc. complete as required.	no	8.00	95.22	Rupees Ninety Five And Paise Twenty Two Only	761.76
5.4	Earthing with G.I. earth pipe 4.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required.	no	8.00	5179.14	Rupees Five Thousand One Hundred Seventy Nine And Paise Fourteen Only	41433.12
5.5	Providing and laying G.I. tape 32 mm X 6 mm from earth electrode directly in ground as required.	m	100.00	186.30	Rupees One Hundred Eighty Six And Paise Thirty Only	18630.00
	SUB TOTAL (PART - D)					105923.28
	GRAND TOTAL					1301622.00