TABLE

Chart Showing the distance upto which different size of U.G. Aluminium conductor cables can be used for different current rating for 8 volts drop when laid in ground (PVC Insulated, PVC Sheated. 3 Core $3^{1/2}$ Core/4Core) when cable grading is 1-1 KV

(Maximum Conductor Temperature - 70 Degree C)

Sr. No.	Current Amp	Distance in Meters for the following Cable sizes in Sq. mm.												
		6	10	16	25	35	50	70	95	120	150	185	240	300
1.	5	165	260	415	725	895	1300	1925	2360	3065	3555	4300	5770	6460
2.	10	80	130	205	360	450	650	960	1180	1530	1775	2150	2885	3230
3.	15	55	85	140	240	300	430	640	785	1020	1185	1430	1920	2155
4.	20	40	65	100	180	225	325	480	590	765	890	1075	1445	1615
5.	25	30	50	80	145	180	260	385	470	610	710	860	1150	1290
6.	30	25	40	70	120	150	215	320	390	570	590	715	960	1075
7.	40	20	30	50	90	110	160	240	295	380	445	535	720	805
8.	50	-	25	40	70	90	130	190	235	305	355	430	575	645
9.	60	-	-	35	60	75	110	160	195	255	295	355	480	535
10.	70	-	-	30	50	65	90	135	165	215	255	305	410	460
11.	80	-	-	-	45	55	80	120	145	190	220	265	360	405
12.	90	-	-	-	40	50	70	105	130	170	195	235	320	360
13.	100	-	-	-	35	45	65	95	115	150	175	215	290	320
14.	110	-	-	-	-	40	60	85	105	140	160	195	260	290
15.	120	-	-	-	-	35	55	80	95	125	145	180	240	270
16.	130	-	-	-	-	-	50	75	90	115	135	165	220	250
17.	140	-	-	-	-	-	45	70	80	110	125	150	205	230
18.	150	-	-	-	-	-	-	65	75	100	115	140	190	215
19.	160	-	-	-	-	-	-	60	70	95	110	130	180	200
20.	170	-	-	-	-	-	-	55	70	90	105	125	170	190
21.	180	-	-	-	-	-	-	50	65	85	100	120	160	180
22.	190	-	-	-	-	-	-	-	60	80	90	110	150	170
23.	200	-	-	-	-	-	-	-	60	75	90	105	145	160
24.	225	-	-	-	-	-	-	-	-	65	80	95	125	145
25.	250	-	-	-	-	-	-	-	-	-	70	85	115	130
26.	275	-	-	-	-	-	-	-	-	-	-	80	105	115
27.	300	-	-	-	-	-	-	-	-	-	-	70	95	105

Note : PVC Insulated electrical cable for voltage grade upto 1.1 KV is

1. This table is based on current and resistance as given in M/s. Incab's cable and table (AST 11 1964. Table No. 17 and 33.)

SELECTION OF LUMINAIRE

Lamp Type	Range	Luminious Flux (Lumens)	Efficacy Lm/W	Life Hours	Colour Rendering
GLS (Incandescent)	25W-1000W	230-18000	9-18	1000	Excellent
Halogen	300W-1000W	5100-22000	17-22	2000	Excellent
CFL	9W-25W	450-1200	59-78	8000	Good
	5W-11W	250-900	50-82	8000	Good
Flourscent	18W-65W	970-4000	49-77	5000	Good to moderate
ML	160W	2900	18	5000	Moderate
HP MV	80W-1000W	3500-58000	44-58	5000	Moderate
HP SV	70W-400W	5800-47500	83-119	12000-15000	Fair
LP SV	18W-35W	1800-4500	100-129	10000	Poor
Metal Halide					
i) a) HPI-T	250W	17000W		10000	Good
b) HPI-T	400W	31500W		10000	Good
c) HPI-T	1000W	81000W		10000	Good
d) HPI-T	2000W	189000W		10000	Good
ii) a) HPI-BU	250W	17500W		10000	Good
c) HPI-BU	400W	27600W		10000	Good
iii) a) MHNTD	70W	5500W		6000	Excellent
b) MHNTD	150W	11250W		6000	Excellent