

<div><div>LEAD</div><div>Eco Friendly Solutions</div></div>		LEAD Consultancy & Engineering Services (India) Pvt Ltd No 40, 1St Floor, 10th A Main, 3rd Cross, Indiranagar II Stage Near CMH Road, Bangalore-560038										Project		NATIONAL LAW SCHOOL OF INDIA UNIVERSITY, BENGALURU												
												Date of Issue		06.03.2025		Prepared By			Checked By		Sheet No					
												Rev. No.		R1		SSK			PD							
Cable Tag	Cable From	Connected To	No of runs per phase	Total number of runs	No. of Cores	Cable size in sqmm or Busduct rating	"C" for Cable or "B" for Busduct	AL for AL or CU for Cu Cables/Busduct	XLPE or PVC for cable insulation	Operating voltage (V)	Cable length in Mtrs	Total Connected load in kW	Total Connected load in KVA	ACB/MCCB/MCB MP CB Rating (In)	Breaker Setting (Ir)	Breaker setting current (Ir)	Resistance (R) of the cable/Busduct	Reactance (X) of the Cable/Busduct	Voltage Drop Allowed (in %)	Max. Voltage Drop allowed (in Volts)	Power factor (cosφ)	Load Current (in Amps)	Act. Voltage Drop (in Volts)	Act. % Voltage Drop (in Volts)	Act. % Cumulative Voltage Drop (in Volts)	
PC 1	500kVA TRANSFORMER	EB & DG CHANGEOVER PANEL	3	3	3.5	300	C	AL	XLPE	415	15	240.72	253.39	800	0.8	640	0.1280	0.0705	0.11	0.46	0.95	352.5	0.44	0.11	0.106	
PC 2	500kVA DG	EB & DG CHANGEOVER PANEL	3	3	3.5	300	C	AL	XLPE	415	15	240.72	300.90	800	0.8	640	0.1280	0.0705	0.13	0.55	0.80	418.6	0.52	0.13	0.126	
PC 3	ACDB	EB & DG CHANGEOVER PANEL	1	1	3.5	240	C	AL	XLPE	415	180	66.00	82.50	160	0.8	128	0.1600	0.0710	1.54	6.41	0.80	114.8	6.10	1.47	1.471	
PC 4	EB & DG CHANGEOVER PANEL	MAIN LT PANEL	3	3	3.5	300	C	AL	XLPE	415	120	401.20	422.32	630	1.0	630	0.1280	0.0705	1.48	6.14	0.95	587.5	5.85	1.41	1.514	
PC 5	EB & DG CHANGEOVER PANEL	EXTERNAL LTG PANEL	1	1	3.5	35	C	AL	XLPE	415	30	10.00	10.53	100	0.7	70	1.1100	0.0783	0.21	0.86	0.95	14.6	0.82	0.20	0.303	
PC 6	EB & DG CHANGEOVER PANEL	HOSTEL MAIN PANEL	1	1	3.5	300	C	AL	XLPE	415	30	126.00	132.63	250	1.0	250	0.1280	0.0705	0.35	1.45	0.95	184.5	1.38	0.33	0.437	
PC 7	EB & DG CHANGEOVER PANEL	STP & FIRE PANEL			3.5		C	AL	XLPE	415		80.00	84.21	400	1.0	400			0.00	0.00	0.95	117.2	FALSE	0.00	0.106	
PC 8	MAIN LT PANEL	APFCR PANEL	2	2	3.5	150	C	AL	XLPE	415	15	200.00	210.53	315	1.0	315	0.2640	0.0716	0.26	1.09	0.95	292.9	1.04	0.25	1.765	
PC 9	MAIN LT PANEL	MAIN LPDB PANEL	1	1	3.5	300	C	AL	XLPE	415	15	131.40	138.32	250	1.0	250	0.1280	0.0705	0.18	0.75	0.95	192.4	0.72	0.17	1.687	
PC 10	MAIN LT PANEL	UTILITY PANEL	1	1	3.5	150	C	AL	XLPE	415	15	25.20	26.53	160	1.0	160	0.2640	0.0716	0.07	0.27	0.95	36.9	0.26	0.06	1.577	
PC 11	MAIN LT PANEL	MAIN HVAC PANEL	2	2	3.5	185	C	AL	XLPE	415	15	187.60	197.47	400	1.0	400	0.2100	0.0718	0.20	0.83	0.95	274.7	0.79	0.19	1.705	
PC 12	MAIN LT PANEL	EXISTING 60 KVA UPS ISOLATOR	1	1	3.5	95	C	AL	XLPE	415	20	57.00	60.00	100	1.0	100	0.4100	0.0724	0.30	1.25	0.95	83.5	1.19	0.29	1.801	
PC 13	MAIN LT PANEL	UPS O/P PANEL BYPASS	1	1	3.5	95	C	AL	XLPE	415	20	57.00	60.00	100	1.0	100	0.4100	0.0724	0.30	1.25	0.95	83.5	1.19	0.29	1.801	
PC 14	MAIN LPDB PANEL	BF-LPDB-1	1	1	4	6	C	CU	PVC	415	75	5.00	5.26	40	0.6	24	3.6900	0.1001	0.85	3.53	0.95	7.3	3.36	0.81	2.498	
PC 15	MAIN LPDB PANEL	GF-LPDB-1 COMMON AREA	1	1	4	6	C	CU	PVC	415	15	5.00	5.26	40	0.6	24	3.6900	0.1001	0.17	0.71	0.95	7.3	0.67	0.16	1.849	
PC 16	MAIN LPDB PANEL	GF-LPDB-2 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	25	5.00	5.26	40	0.6	24	3.6900	0.1001	0.28	1.18	0.95	7.3	1.12	0.27	1.957	
PC 17	MAIN LPDB PANEL	GF-LPDB-3 120 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	45	8.00	8.42	40	0.6	24	3.6900	0.1001	0.82	3.39	0.95	11.7	3.23	0.78	2.465	
PC 18	MAIN LPDB PANEL	GF-LPDB-4 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	65	5.00	5.26	40	0.6	24	3.6900	0.1001	0.74	3.06	0.95	7.3	2.92	0.70	2.390	
PC 19	MAIN LPDB PANEL	GF-LPDB-5 COMMON AREA	1	1	4	6	C	CU	PVC	415	75	5.00	5.26	40	0.6	24	3.6900	0.1001	0.85	3.53	0.95	7.3	3.36	0.81	2.498	
PC 20	MAIN LPDB PANEL	1F-LPDB-1 COMMON AREA	1	1	4	6	C	CU	PVC	415	30	5.00	5.26	40	0.6	24	3.6900	0.1001	0.34	1.41	0.95	7.3	1.35	0.32	2.012	
PC 21	MAIN LPDB PANEL	1F-LPDB-2 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	35	8.00	8.42	40	0.6	24	3.6900	0.1001	0.64	2.64	0.95	11.7	2.51	0.61	2.293	
PC 22	MAIN LPDB PANEL	1F-LPDB-3 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	20	8.00	8.42	40	0.6	24	3.6900	0.1001	0.36	1.51	0.95	11.7	1.44	0.35	2.033	
PC 23	MAIN LPDB PANEL	1F-LPDB-4 120 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	90	8.00	8.42	40	0.6	24	3.6900	0.1001	1.63	6.78	0.95	11.7	6.46	1.56	3.244	
PC 23	MAIN LPDB PANEL	1F-LPDB-5 120SEATER CLASS	1	1	4	6	C	CU	PVC	415	110	5.00	5.26	40	0.6	24	3.6900	0.1001	1.25	5.18	0.95	7.3	4.93	1.19	2.876	

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PC 24	MAIN LPDB PANEL	1F-LPDB-6 30SEATER CLASS	1	1	4	6	C	CU	PVC	415	70	5.00	5.26	40	0.6	24	3.6900	0.1001	0.79	3.30	0.95	7.3	3.14	0.76	2.444	
PC 24	MAIN LPDB PANEL	1F-LPDB-7 30SEATER CLASS	1	1	4	6	C	CU	PVC	415	70	5.00	5.26	40	0.6	24	3.6900	0.1001	0.79	3.30	0.95	7.3	3.14	0.76	2.444	
PC 24	MAIN LPDB PANEL	1F-LPDB-8 COMMON AREA	1	1	4	6	C	CU	PVC	415	70	5.00	5.26	40	0.6	24	3.6900	0.1001	0.79	3.30	0.95	7.3	3.14	0.76	2.444	
PC 25	MAIN LPDB PANEL	2F-LPDB-1 COMMON AREA	1	1	4	6	C	CU	PVC	415	30	5.00	5.26	40	0.6	24	3.6900	0.1001	0.34	1.41	0.95	7.3	1.35	0.32	2.012	
PC 26	MAIN LPDB PANEL	2F-LPDB-2 120 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	35	5.00	5.26	40	0.6	24	3.6900	0.1001	0.40	1.65	0.95	7.3	1.57	0.38	2.066	
PC 27	MAIN LPDB PANEL	2F-LPDB-3 30 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	35	5.00	5.26	40	0.6	24	3.6900	0.1001	0.40	1.65	0.95	7.3	1.57	0.38	2.066	
PC 26	MAIN LPDB PANEL	2F-LPDB-4 30 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	95	5.00	5.26	40	0.6	24	3.6900	0.1001	1.08	4.47	0.95	7.3	4.26	1.03	2.714	
PC 27	MAIN LPDB PANEL	2F-LPDB-5 COMMON AREA	1	1	4	6	C	CU	PVC	415	115	5.00	5.26	40	0.6	24	3.6900	0.1001	1.31	5.42	0.95	7.3	5.16	1.24	2.930	
PC 28	MAIN LPDB PANEL	3F-LPDB-1 COMMON AREA	1	1	4	6	C	CU	PVC	415	40	5.00	5.26	40	0.6	24	3.6900	0.1001	0.45	1.88	0.95	7.3	1.79	0.43	2.120	
PC 27	MAIN LPDB PANEL	3F-LPDB-2 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	40	8.00	8.42	40	0.6	24	3.6900	0.1001	0.73	3.01	0.95	11.7	2.87	0.69	2.379	
PC 28	MAIN LPDB PANEL	3F-LPDB-3 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	40	5.00	5.26	40	0.6	24	3.6900	0.1001	0.45	1.88	0.95	7.3	1.79	0.43	2.120	
PC 29	MAIN LPDB PANEL	3F-LPDB-4 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	40	5.00	5.26	40	0.6	24	3.6900	0.1001	0.45	1.88	0.95	7.3	1.79	0.43	2.120	
PC 30	MAIN LPDB PANEL	3F-LPDB-5 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	35	5.00	5.26	40	0.6	24	3.6900	0.1001	0.40	1.65	0.95	7.3	1.57	0.38	2.066	
PC 31	MAIN LPDB PANEL	3F-LPDB-6 120 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	95	8.00	8.42	40	0.6	24	3.6900	0.1001	1.72	7.16	0.95	11.7	6.82	1.64	3.330	
PC 32	MAIN LPDB PANEL	3F-LPDB-7 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	110	5.00	5.26	40	0.6	24	3.6900	0.1001	1.25	5.18	0.95	7.3	4.93	1.19	2.876	
PC 33	MAIN LPDB PANEL	3F-LPDB-8 30 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	125	5.00	5.26	40	0.6	24	3.6900	0.1001	1.42	5.89	0.95	7.3	5.61	1.35	3.038	
PC 34	MAIN LPDB PANEL	3F-LPDB-9 30 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	85	5.00	5.26	40	0.6	24	3.6900	0.1001	0.96	4.00	0.95	7.3	3.81	0.92	2.606	
PC 34	MAIN LPDB PANEL	3F-LPDB-10 COMMON AREA	1	1	4	6	C	CU	PVC	415	85	5.00	5.26	40	0.6	24	3.6900	0.1001	0.96	4.00	0.95	7.3	3.81	0.92	2.606	
PC 35	MAIN LPDB PANEL	4F-LPDB-1 COMMON AREA	1	1	4	6	C	CU	PVC	415	45	5.00	5.26	40	0.6	24	3.6900	0.1001	0.51	2.12	0.95	7.3	2.02	0.49	2.174	
PC 36	MAIN LPDB PANEL	4F-LPDB-2 120 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	45	8.00	8.42	40	0.6	24	3.6900	0.1001	0.82	3.39	0.95	11.7	3.23	0.78	2.465	
PC 37	MAIN LPDB PANEL	4F-LPDB-3 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	45	5.00	5.26	40	0.6	24	3.6900	0.1001	0.51	2.12	0.95	7.3	2.02	0.49	2.174	
PC 38	MAIN LPDB PANEL	4F-LPDB-4 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	45	5.00	5.26	40	0.6	24	3.6900	0.1001	0.51	2.12	0.95	7.3	2.02	0.49	2.174	
PC 39	MAIN LPDB PANEL	4F-LPDB-5 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	40	5.00	5.26	40	0.6	24	3.6900	0.1001	0.45	1.88	0.95	7.3	1.79	0.43	2.120	
PC 40	MAIN LPDB PANEL	4F-LPDB-6 120 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	100	8.00	8.42	40	0.6	24	3.6900	0.1001	1.82	7.54	0.95	11.7	7.18	1.73	3.417	
PC 41	MAIN LPDB PANEL	4F-LPDB-7 60 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	110	5.00	5.26	40	0.6	24	3.6900	0.1001	1.25	5.18	0.95	7.3	4.93	1.19	2.876	
PC 42	MAIN LPDB PANEL	4F-LPDB-8 30 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	128	5.00	5.26	40	0.6	24	3.6900	0.1001	1.45	6.03	0.95	7.3	5.74	1.38	3.071	
PC 43	MAIN LPDB PANEL	4F-LPDB-9 30 SEATER CLASS ROOM	1	1	4	6	C	CU	PVC	415	85	5.00	5.26	40	0.6	24	3.6900	0.1001	0.96	4.00	0.95	7.3	3.81	0.92	2.606	
PC 44	MAIN LPDB PANEL	4F-LPDB-10 COMMON AREA	1	1	4	6	C	CU	PVC	415	85	5.00	5.26	40	0.6	24	3.6900	0.1001	0.96	4.00	0.95	7.3	3.81	0.92	2.606	
PC 45	UTILITY PANEL	PASSENGER LIFT-1	1	1	4	25	C	AL	XLPE	415	50	10.00	10.53	63	1.0	63	1.5400	0.0805	0.48	1.98	0.95	14.6	1.89	0.45	2.032	
PC 46	UTILITY PANEL	PASSENGER LIFT-2	1	1	4	25	C	AL	XLPE	415	145	10.00	10.53	63	1.0	63	1.5400	0.0805	1.38	5.75	0.95	14.6	5.47	1.32	2.896	
PC 47	UTILITY PANEL	SEWAGE COLLECTION LIFT PUMP	1	1	4	6	C	CU	PVC	415	90	2.20	2.32	16	1.0	16	3.6900	0.1001	0.45	1.87	0.95	3.2	1.78	0.43	2.005	
PC 48	UTILITY PANEL	BASEMENT COLLECTION LIFT PUMP	1	1	4	6	C	CU	PVC	415	90	3.00	3.16	16	1.0	16	3.6900	0.1001	0.61	2.54	0.95	4.4	2.42	0.58	2.161	
PC 49	MAIN LT PANEL	LANDSCAPE LIGHTING DB	1	1	4	25	C	AL	XLPE	415	70	10.00	10.53	63	1.0	63	1.5400	0.0805	0.67	2.77	0.95	14.6	2.64	0.64	2.151	
PC 49	MAIN HVAC PANEL	CSU FOR BASEMENT	1	1	4	6	C	CU	PVC	415	90	4.80	5.05	16	1.0	16	3.6900	0.1001	0.98	4.07	0.95	7.0	3.88	0.93	2.639	
PC 50	MAIN HVAC PANEL	TFA IDU STARTER PANEL FOR BASEMENT	1	1	4	6	C	CU	PVC	415	90	2.00	2.11	16	1.0	16	3.6900	0.1001	0.41	1.70	0.95	2.9	1.61	0.39	2.094	
PC 51	MAIN HVAC PANEL	GROUND FLOOR- ARCHIVAL ROOM	1	1	4	6	C	CU	PVC	415	110	2.70	2.84	16	1.0	16	3.6900	0.1001	0.67	2.80	0.95	4.0	2.66	0.64	2.347	
PC 52	MAIN HVAC PANEL	VRF OUTDOOR UNIT-1	1	1	3.5	70	C	AL	XLPE	415	120	48.00	50.53	125	0.8	100	0.5670	0.0740	2.08	8.62	0.95	70.3	8.21	1.98	3.683	
PC 53	MAIN HVAC PANEL	VRF OUTDOOR UNIT-2	1	1	4	25	C	AL	XLPE	415	124	12.00	12.63	63	1.0	63	1.5400	0.0805	1.42	5.90	0.95	17.6	5.62	1.35	3.059	
PC 54	MAIN HVAC PANEL	VRF OUTDOOR UNIT-3	1	1	3.5	50	C	AL	XLPE	415	125	34.00	35.79	100	0.8	80	0.8200	0.0750	2.19	9.08	0.95	49.8	8.65	2.08	3.789	
PC 55	MAIN HVAC PANEL	VRF OUTDOOR UNIT-4	1	1	4	25	C	AL	XLPE	415	125	14.00	14.74	63	1.0	63	1.5400	0.0805	1.67	6.94	0.95	20.5	6.61	1.59	3.297	
PC 56	MAIN HVAC PANEL	VRF OUTDOOR UNIT-5	1	1	4	25	C	AL	XLPE	415	125	26.00	27.37	63	1.0	63	1.5400	0.0805	3.10	12.88	0.95	38.1	12.27	2.96	4.661	
PC 57	MAIN HVAC PANEL	VRF OUTDOOR UNIT-6	1	1	4	25	C	CU	PVC	415	90	28.00	29.47	63	0.8	50	0.8700	0.0854	1.38	5.73	0.95	41.0	5.45	1.31	3.019	

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PC 58	MAIN HVAC PANEL	VRF OUTDOOR UNIT-7	1	1	4	25	C	CU	PVC	415	120	24.00	25.26	63	0.8	50	0.8700	0.0854	1.58	6.54	0.95	35.1	6.23	1.50	3.207		
PC 59	MAIN HVAC PANEL	VRF OUTDOOR UNIT-8	1	1	4	16	C	AL	XLPE	415	120	12.00	12.63	40	0.8	32	2.4400	0.0808	2.17	8.99	0.95	17.6	8.56	2.06	3.767		
PC 60	MAIN HVAC PANEL	VRF OUTDOOR UNIT-9	1	1	4	16	C	AL	XLPE	415	120	12.00	12.63	40	0.8	32	2.4400	0.0808	2.17	8.99	0.95	17.6	8.56	2.06	3.767		
PC 61	MAIN HVAC PANEL	VRF OUTDOOR UNIT-10	1	1	4	16	C	AL	XLPE	415	120	15.00	15.79	40	0.8	32	2.4400	0.0808	2.71	11.23	0.95	22.0	10.70	2.58	4.283		
PC 62	MAIN HVAC PANEL	LIFT WELL PRESSU. FAN-1	1	1	4	16	C	AL	XLPE	415	55	7.00	7.37	40	1.0	40	2.4400	0.0808	0.58	2.40	0.95	10.3	2.29	0.55	2.257		
PC 63	MAIN HVAC PANEL	LIFT WELL PRESSU. FAN-2	1	1	4	16	C	AL	XLPE	415	140	7.00	7.37	40	1.0	40	2.4400	0.0808	1.47	6.12	0.95	10.3	5.82	1.40	3.109		
PC 64	EXISTING 60 KVA UPS ISOLATOR	EXISTING 60 KVA UPS	1	1	4	70	C	CU	PVC	415	15	33.00	34.74	100	1.0	100	0.3210	0.0771	0.10	0.43	0.95	48.3	0.41	0.10	1.901		
PC 65	EXISTING 60 KVA UPS	UPS OUTPUT PANEL	1	1	4	70	C	CU	PVC	415	15	33.00	34.74	100	1.0	100	0.3210	0.0771	0.10	0.43	0.95	48.3	0.41	0.10	2.001		
PC 66	UPS OUTPUT PANEL	BF-UPSDB-1	1	1	4	6	C	CU	PVC	415	80	3.00	3.16	32	1.0	32	3.6900	0.1001	0.54	2.26	0.95	4.4	2.15	0.52	2.519		
PC 67	UPS OUTPUT PANEL	GF-UPSDB-1	1	1	4	6	C	CU	PVC	415	25	3.00	3.16	32	1.0	32	3.6900	0.1001	0.17	0.71	0.95	4.4	0.67	0.16	2.163		
PC 68	UPS OUTPUT PANEL	GF-UPSDB-2	1	1	4	6	C	CU	PVC	415	75	3.00	3.16	32	1.0	32	3.6900	0.1001	0.51	2.12	0.95	4.4	2.02	0.49	2.487		
PC 69	UPS OUTPUT PANEL	1F-UPSDB-1	1	1	4	6	C	CU	PVC	415	30	3.00	3.16	32	1.0	32	3.6900	0.1001	0.20	0.85	0.95	4.4	0.81	0.19	2.195		
PC 70	UPS OUTPUT PANEL	1F-UPSDB-2	1	1	4	6	C	CU	PVC	415	70	3.00	3.16	32	1.0	32	3.6900	0.1001	0.48	1.98	0.95	4.4	1.88	0.45	2.454		
PC 71	UPS OUTPUT PANEL	2F-UPSDB-1	1	1	4	6	C	CU	PVC	415	30	3.00	3.16	32	1.0	32	3.6900	0.1001	0.20	0.85	0.95	4.4	0.81	0.19	2.195		
PC 72	UPS OUTPUT PANEL	2F-UPSDB-2	1	1	4	6	C	CU	PVC	415	80	3.00	3.16	32	1.0	32	3.6900	0.1001	0.54	2.26	0.95	4.4	2.15	0.52	2.519		
PC 73	UPS OUTPUT PANEL	3F-UPSDB-1	1	1	4	6	C	CU	PVC	415	40	3.00	3.16	32	1.0	32	3.6900	0.1001	0.27	1.13	0.95	4.4	1.08	0.26	2.260		
PC 74	UPS OUTPUT PANEL	3F-UPSDB-2	1	1	4	6	C	CU	PVC	415	85	3.00	3.16	32	1.0	32	3.6900	0.1001	0.58	2.40	0.95	4.4	2.29	0.55	2.552		
PC 75	UPS OUTPUT PANEL	4F-UPSDB-1	1	1	4	6	C	CU	PVC	415	45	3.00	3.16	32	1.0	32	3.6900	0.1001	0.31	1.27	0.95	4.4	1.21	0.29	2.292		
PC 76	UPS OUTPUT PANEL	4F-UPSDB-2	1	1	4	6	C	CU	PVC	415	85	3.00	3.16	32	1.0	32	3.6900	0.1001	0.58	2.40	0.95	4.4	2.29	0.55	2.552		