

	BUS DETAILS		
Bus Number	Bus Name	Real Load(KW)	Reactive Load (kVAR)
2	Substation at NIT Kurukshetra	100	60
3	Training and Placement Cell	90	40
4	H4	120	80
5	H5	60	30
6	H6	60	20
7	H3	200	100
8	H2	200	100
9	H1	60	20
10	H11	60	20
11	H8	45	30
12	H7	60	35
13	H9	60	35
14	H10	120	80
15	K. Chawla Hostel	60	10
16	Alaknanda Bhawan	60	20
17	Bhagirathi Bhawan	60	20
18	Residential Area-1	90	40
19	Admin Building	90	40
20	Market	90	40
21	Residential Area-2	90	40
22	Ground	90	40
23	LHC block	60	25
24	MCA Deott	60	25
25	SCOE	60	20
26	Applied mechanics block	120	70
27	Civil Deptt	200	600
28	Electrical Deptt	150	70
29	Road lightning	210	100
30	Senate hall	60	40
31	CSE Deptt	90	50
32	ECE Block	420	200
33	Library	420	200

LINE DETAILS

Line Number	From Bus Number	From Bus Name	To Bus Number	To Bus Name	Resistance(Ω)	Reactance(Ω)
1	1	Substation UNBVN	2	Substation at NIT Kurukshetra	0.0922	0.0477
2	2	Substation at NIT Kurukshetra	3	Training and Placement Cell	0.493	0.2511
3	3	Training and Placement Cell	4	H4	0.366	0.1864
4	4	H4	5	H5	0.3811	0.1941
5	5	H5	6	H6	0.819	0.707
6	6	H6	7	H3	0.1872	0.6188
7	7	H3	8	H2	1.7114	1.2351
8	8	H2	9	H1	1.03	0.74
9	9	H1	10	H11	1.04	0.74
10	10	H11	11	H8	0.1966	0.065
11	11	H8	12	H7	0.3744	0.1238
12	12	H7	13	H9	1.468	1.155
13	13	H9	14	H10	0.5416	0.7129
14	14	H10	15	K. Chawla Hostel	0.591	0.526
15	15	K. Chawla Hostel	16	Alaknanda Bhawan	0.7463	0.545
16	16	Alaknanda Bhawan	17	Bhagirathi Bhawan	1.289	1.721
17	17	Bhagirathi Bhawan	18	Residential Area-1	0.732	0.574
18	2	Substation at NIT Kurukshetra	19	Admin Building	0.164	0.1565
19	19	Admin Building	20	Market	1.5042	1.3554
20	20	Market	21	Residential Area-2	0.4095	0.4784
21	21	Residential Area-2	22	Ground	0.7089	0.9373
22	6	H6	23	LHC block	0.203	0.1034
23	23	LHC block	24	MCA Deptt	0.2842	0.1447
24	24	MCA Deptt	25	SCOE	1.059	0.9337
25	25	SCOE	26	Applied mechanics block	0.8042	0.7006
26	26	Applied mechanics block	27	Civil Deptt	0.5075	0.2585
27	27	Civil Deptt	28	Electrical Deptt	0.9744	0.963
28	28	Electrical Deptt	29	Road lightning	0.3105	0.3619
29	29	Road lightning	30	Senate hall	0.341	0.5302
30	3	Training and Placement Cell	31	CSE Deptt	0.4512	0.3083
31	31	CSE Deptt	32	ECE Block	0.898	0.7091
32	32	ECE Block	33	Library	0.896	0.7011

	VOLTAGE PROFILE		
Bus Number	Bus Name	Voltage(Magnitude)	Voltage(Angle)
1	Substation UNBVN	1	0
2	Substation at NIT Kurukshetra	0.996	0.0003
3	Training and Placement Cell	0.9766	0.0023
4	H4	0.9663	0.0038
5	H5	0.9558	0.0053
6	H6	0.9298	0.0032
7	H3	0.9254	-0.0018
8	H2	0.9088	-0.0049
9	H1	0.8996	-0.0065
10	H11	0.8909	-0.0079
11	H8	0.8896	-0.0077
12	H7	0.8874	-0.0074
13	H9	0.8782	-0.0096
14	H10	0.8754	-0.0114
15	K. Chawla Hostel	0.8731	-0.0122
16	Alaknanda Bhawan	0.8373	-0.0148
17	Bhagirathi Bhawan	0.8336	-0.0168
18	Residential Area-1	0.8328	-0.0171
19	Admin Building	0.9874	-0.0014
20	Market	0.9832	-0.0028
21	Residential Area-2	0.9824	-0.0032
22	Ground	0.9818	-0.0035
23	LHC block	0.9271	0.0039
24	MCA Deptt	0.9235	0.0052
25	SCOE	0.9073	0.0069
26	Applied mechanics block	0.8964	0.0086
27	Civil Deptt	0.8934	0.0086
28	Electrical Deptt	0.8884	0.0071
29	Road lightning	0.8877	0.0068
30	Senate hall	0.8872	0.0065
31	CSE Deptt	0.9717	0.0016
32	ECE Block	0.9662	0.0004
33	Library	0.9651	0.0003

CURRENT PROFILE						
Line Number	From Bus Number	From Bus Name	To Bus Number	To Bus Name	Current(Magnitude)	Current(Angle)
1	1	Substation UNBVN	2	Substation at NIT Kurukshetra	0.0397	-0.0248
2	2	Substation at NIT Kurukshetra	3	Training and Placement Cell	0.0359	-0.0231
3	3	Training and Placement Cell	4	H4	0.025	-0.0176
4	4	H4	5	H5	0.0244	-0.0173
5	5	H5	6	H6	0.0237	-0.0171
6	6	H6	7	H3	0.0109	-0.0052
7	7	H3	8	H2	0.0087	-0.0041
8	8	H2	9	H1	0.0081	-0.0039
9	9	H1	10	H11	0.0074	-0.0037
10	10	H11	11	H8	0.0069	-0.0033
11	11	H8	12	H7	0.0062	-0.0029
12	12	H7	13	H9	0.0056	-0.0025
13	13	H9	14	H10	0.0042	-0.0016
14	14	H10	15	K. Chawla Hostel	0.0035	-0.0015
15	15	K. Chawla Hostel	16	Alaknanda Bhawan	0.0026	0.0008
16	16	Alaknanda Bhawan	17	Bhagirathi Bhawan	0.0021	-0.0011
17	17	Bhagirathi Bhawan	18	Residential Area-1	0.0011	-0.0005
18	2	Substation at NIT Kurukshetra	19	Admin Building	0.0018	0.0001
19	19	Admin Building	20	Market	0.0024	-0.0011
20	20	Market	21	Residential Area-2	0.0015	-0.0007
21	21	Residential Area-2	22	Ground	0.0006	-0.0003
22	6	H6	23	LHC block	0.0107	-0.0108
23	23	LHC block	24	MCA Deptt	0.0101	-0.0105
24	24	MCA Deptt	25	SCOE	0.0094	-0.0103
25	25	SCOE	26	Applied mechanics block	0.0081	-0.0095
26	26	Applied mechanics block	27	Civil Deptt	0.0058	-0.0029
27	27	Civil Deptt	28	Electrical Deptt	0.0041	-0.0021
28	28	Electrical Deptt	29	Road lightning	0.0017	-0.0011
29	29	Road lightning	30	Senate hall	0.0011	-0.0006
30	3	Training and Placement Cell	31	CSE Deptt	0.0097	-0.0047
31	31	CSE Deptt	32	ECE Block	0.0054	-0.0027
32	32	ECE Block	33	Library	0.0011	-0.0006

POWER PROFILE

Line Number	From Bus Number	From Bus Name	To Bus Number	To Bus Name	Active Power(kW)	Reactive Power(kVar)
1	1	Substation UNBVN	2	Substation at NIT Kurukshetra	12.571	6.503
2	2	Substation at NIT Kurukshetra	3	Training and Placement Cell	53.366	27.181
3	3	Training and Placement Cell	4	H4	29.436	14.991
4	4	H4	5	H5	28.173	14.349
5	5	H5	6	H6	58.145	50.193
6	6	H6	7	H3	1.981	6.545
7	7	H3	8	H2	12.082	8.719
8	8	H2	9	H1	4.341	3.119
9	9	H1	10	H11	3.698	2.621
10	10	H11	11	H8	0.575	0.193
11	11	H8	12	H7	0.915	0.301
12	12	H7	13	H9	2.769	2.179
13	13	H9	14	H10	0.757	0.997
14	14	H10	15	K. Chawla Hostel	0.371	0.332
15	15	K. Chawla Hostel	16	Alaknanda Bhawan	0.292	0.213
16	16	Alaknanda Bhawan	17	Bhagirathi Bhawan	0.261	0.349
17	17	Bhagirathi Bhawan	18	Residential Area-1	0.055	0.043
18	2	Substation at NIT Kurukshetra	19	Admin Building	0.162	0.153
19	19	Admin Building	20	Market	0.832	0.749
20	20	Market	21	Residential Area-2	0.101	0.117
21	21	Residential Area-2	22	Ground	0.043	0.057
22	6	H6	23	LHC block	5.217	2.657
23	23	LHC block	24	MCA Deptt	6.551	3.335
24	24	MCA Deptt	25	SCOE	13.838	12.201
25	25	SCOE	26	Applied mechanics block	4.907	4.275
26	26	Applied mechanics block	27	Civil Deptt	2.741	1.396
27	27	Civil Deptt	28	Electrical Deptt	4.639	4.585
28	28	Electrical Deptt	29	Road lightning	1.314	1.531
29	29	Road lightning	30	Senate hall	1.047	1.629
30	3	Training and Placement Cell	31	CSE Deptt	0.646	0.442
31	31	CSE Deptt	32	ECE Block	0.541	0.422
32	32	ECE Block	33	Library	0.037	0.023

POWER PROFILE(WITH DG)

Line Number	From Bus Number	From Bus Name	To Bus Number	To Bus Name	Active Power(kW)	Reactive Power(kVar)
1	1	Substation UNBVN	2	Substation at NIT Kurukshetra	5.071	2.623
2	2	Substation at NIT Kurukshetra	3	Training and Placement Cell	19.647	10.007
3	3	Training and Placement Cell	4	H4	6.505	5.071
4	4	H4	5	H5	6.036	3.074
5	5	H5	6	H6	12.425	10.726
6	6	H6	7	H3	1.824	6.029
7	7	H3	8	H2	11.119	8.024
8	8	H2	9	H1	3.992	2.868
9	9	H1	10	H11	3.387	2.41
10	10	H11	11	H8	0.529	0.175
11	11	H8	12	H7	0.841	0.278
12	12	H7	13	H9	2.545	2.002
13	13	H9	14	H10	0.696	0.916
14	14	H10	15	K. Chawla Hostel	0.341	0.303
15	15	K. Chawla Hostel	16	Alaknanda Bhawan	0.269	0.196
16	16	Alaknanda Bhawan	17	Bhagirathi Bhawan	0.24	0.321
17	17	Bhagirathi Bhawan	18	Residential Area-1	0.051	0.04
18	2	Substation at NIT Kurukshetra	19	Admin Building	0.161	0.153
19	19	Admin Building	20	Market	0.83	0.748
20	20	Market	21	Residential Area-2	0.101	0.117
21	21	Residential Area-2	22	Ground	0.044	0.058
22	6	H6	23	LHC block	2.439	1.242
23	23	LHC block	24	MCA Deptt	3.121	1.589
24	24	MCA Deptt	25	SCOE	10.594	9.34
25	25	SCOE	26	Applied mechanics block	7.343	6.397
26	26	Applied mechanics block	27	Civil Deptt	3.651	1.86
27	27	Civil Deptt	28	Electrical Deptt	1.493	1.476
28	28	Electrical Deptt	29	Road lightning	0.2	0.233
29	29	Road lightning	30	Senate hall	0.012	0.019
30	3	Training and Placement Cell	31	CSE Deptt	3.13	2.138
31	31	CSE Deptt	32	ECE Block	5.06	3.995
32	32	ECE Block	33	Library	1.266	0.991

POWER PROFILE(WITH SOLAR PLANT)

Line Number	From Bus Number	From Bus Name	To Bus Number	To Bus Name	Active Power(kW)	Reactive Power(kVar)
1	1	Substation UNBVN	2	Substation at NIT Kurukshetra	5.169	2.674
2	2	Substation at NIT Kurukshetra	3	Training and Placement Cell	24.955	12.710
3	3	Training and Placement Cell	4	H4	10.215	5.202
4	4	H4	5	H5	9.295	4.734
5	5	H5	6	H6	18.775	16.207
6	6	H6	7	H3	1.872	6.187
7	7	H3	8	H2	11.413	8.237
8	8	H2	9	H1	4.099	2.945
9	9	H1	10	H11	3.478	2.474
10	10	H11	11	H8	0.543	0.179
11	11	H8	12	H7	0.864	0.286
12	12	H7	13	H9	2.614	2.056
13	13	H9	14	H10	0.715	0.941
14	14	H10	15	K. Chawla Hostel	0.350	0.311
15	15	K. Chawla Hostel	16	Alaknanda Bhawan	0.276	0.201
16	16	Alaknanda Bhawan	17	Bhagirathi Bhawan	0.247	0.329
17	17	Bhagirathi Bhawan	18	Residential Area-1	0.052	0.041
18	2	Substation at NIT Kurukshetra	19	Admin Building	0.161	0.153
19	19	Admin Building	20	Market	0.830	0.748
20	20	Market	21	Residential Area-2	0.101	0.117
21	21	Residential Area-2	22	Ground	0.044	0.058
22	6	H6	23	LHC block	2.503	1.275
23	23	LHC block	24	MCA Deptt	3.203	1.631
24	24	MCA Deptt	25	SCOE	10.872	9.585
25	25	SCOE	26	Applied mechanics block	7.536	6.565
26	26	Applied mechanics block	27	Civil Deptt	3.747	1.909
27	27	Civil Deptt	28	Electrical Deptt	1.533	1.515
28	28	Electrical Deptt	29	Road lightning	0.205	0.239
29	29	Road lightning	30	Senate hall	0.013	0.02
30	3	Training and Placement Cell	31	CSE Deptt	3.14	2.146
31	31	CSE Deptt	32	ECE Block	5.077	4.009
32	32	ECE Block	33	Library	1.277	0.994

POWER PROFILE(WITH DG AND SOLAR PLANT)

Line Number	From Bus Number	From Bus Name	To Bus Number	To Bus Name	Active Power(kW)	Reactive Power(kVar)
1	1	Substation UNBVN	2	Substation at NIT Kurukshetra	3.297	1.706
2	2	Substation at NIT Kurukshetra	3	Training and Placement Cell	14.485	7.378
3	3	Training and Placement Cell	4	H4	7.567	3.854
4	4	H4	5	H5	7.726	3.935
5	5	H5	6	H6	16.682	14.401
6	6	H6	7	H3	1.764	5.83
7	7	H3	8	H2	10.747	7.756
8	8	H2	9	H1	3.857	2.771
9	9	H1	10	H11	3.272	2.328
10	10	H11	11	H8	0.511	0.169
11	11	H8	12	H7	0.813	0.269
12	12	H7	13	H9	2.458	1.934
13	13	H9	14	H10	0.672	0.885
14	14	H10	15	K. Chawla Hostel	0.329	0.293
15	15	K. Chawla Hostel	16	Alaknanda Bhawan	0.259	0.189
16	16	Alaknanda Bhawan	17	Bhagirathi Bhawan	0.232	0.31
17	17	Bhagirathi Bhawan	18	Residential Area-1	0.049	0.038
18	2	Substation at NIT Kurukshetra	19	Admin Building	0.16	0.153
19	19	Admin Building	20	Market	0.828	0.746
20	20	Market	21	Residential Area-2	0.1	0.117
21	21	Residential Area-2	22	Ground	0.043	0.057
22	6	H6	23	LHC block	2.358	1.201
23	23	LHC block	24	MCA Deptt	3.018	1.537
24	24	MCA Deptt	25	SCOE	10.243	9.031
25	25	SCOE	26	Applied mechanics block	7.1	6.185
26	26	Applied mechanics block	27	Civil Deptt	3.535	1.798
27	27	Civil Deptt	28	Electrical Deptt	1.443	1.427
28	28	Electrical Deptt	29	Road lightning	0.193	0.225
29	29	Road lightning	30	Senate hall	0.012	0.019
30	3	Training and Placement Cell	31	CSE Deptt	3.09	2.113
31	31	CSE Deptt	32	ECE Block	5	3.948
32	32	ECE Block	33	Library	1.25	0.979