Idea1

Fiher Ontic

4.4.3 Cost for Every System Configuration

Table 4.14 and Figure 4.15 show the result of economical estimate for the every system configuration in the previous section. And the calculation tables are shown like Table 4.15. The calculation premises are shown in Table 4.15 and the prime items are as follows.

Section switch number is 2/feeder

Case 1 (Much infrastructure of

fiber optic cable)

- Construction period is 5 years, substation number 96 and feeder number 546
- Calculation premises are same as Table 4.8

From this result, it is clear that the methods, which need no new communication equipment, such as Fiber Optic Cable (Case 1), RF Mobile System and RF MARS are economical and those investment recovery period is estimated to be 9~10 years.

	_		(Million Rs)
Method	Equipment Cost	NPV (20 Year)	Recovery Period(Year)
			<u>,</u>

418

10

598

Table 4.14	Cost for every system configuration	on
		_

Cable Case 2 (A infrastru	X13	145	16
Case 3 (L infrastru		-1,070	Over 20
Metallic Wire	2,911	-2,497	Over 20
RF Mobile System	530	503	9
Idea2 RF MARS	573	450	9
Idea3			
PLC (Vo Carrier)	1,100	-216	Over 20

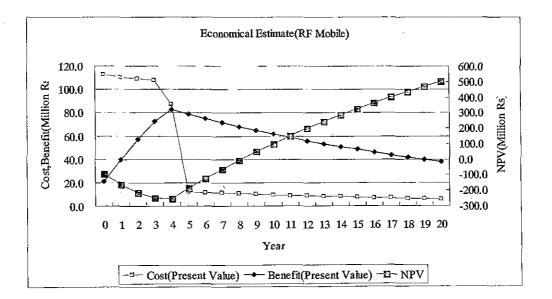


Figure 4.15 Example of economical estimate (RF mobile system)

Idea1:F	iber Ontic (Idea1:Fiber Optic Cable (Case 1) Cash Flow Analysis (Money unit:	Cash Flow A	nalvsis	ισΜ <u>α</u>	nev nn		lable 4.15 " Rs)		OSLO	alcula	Cost calculation for every system	or eve	ry sys	stem										
Relative Year	Year			0	1	2	m				7	8 9	10	Π	11	13	14	15	16	17	18	10	20	_	Total
Calende	Calender Year(n)			2004	2005	2006	2007	2008		2010 2		2	· · ·	8	1 · ·	1	2018	2019	2020	1	10	0	Z	Total Eq	Equip.
Discoun	Discount=1/(1+i) ⁿ	rate	rate i= 0.05	1,000	0.952	0.907	0.864	0.823 0	0.784 0			0.677 0.645	15 0.614	4 0.585	0.557	<u> </u>	1 -	0.481		_			0.377	-]
$Price=(1+i)^{T}$	+i)"	rate r= (r= 0.01	1.000	1.010	1.020	1.030	1.041				1.083 1.094		5 1.116				1.161					1.220	1-	
Amoun	t of Constru	Amount of Construction Facilities																						1	
Substati	Substation Number			20	20	20	20	16	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	96	
Feeder Number	Vumber	6 (Nos/SS)		120	120	120	120	96	0	0	0	0					°	0	0	0	•	0	0 576	- 92	
Feeder 1	Feeder Length(km)	6.5 (km/Feeder)	<u>1</u>)	780	780	780	780	624	0	0	0	0	0	0	0	°	0	0	0	5	0	0	0 3,	3,744	
Cost						•																		1	
Pole	SW RTH etc	0.4351 (10 ⁶ Rs/Unit) Acquisition Cost	it) Acquisition Cost	104.42	105.47	106.52 107.59		86.93	0.00	0.00 0	0.00 0.0	0.00 0.00	0.00	0:00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 5	511	
Monnt		2 (Nos/Feeder) Maintenance	er) Maintenance	3.13	6.30	9.49 12		15.33	_	15.33 15	15.33 15.	15.33 15.33	3 15,33	3 15.33	15.33	15.33	15.33	15.33	15.33 3	15.33 1	15.33 1	15.33 15	15.33 2	292	
WINDOW.	Maintenance Factor			Į					_			_											┝	T	
i	Eiher Ontic	0.6313 (10° Rs/km) Acquisition Cost	m) Acquisition Cost	4.92	4 97	5.02	5.07	4.10	0.00	0.00 0	0.00 0.0	0.00 0.00	0.00	0.00	0.0	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.00 2	24	
Com	Cable	0.01 (km/Feeder k	(km/Feeder km) Acquisition Cost	12.63.	12.75	12.88		10.51	0.00 0	0.00		0.00 0.00	0.00	0.00	0.0	0.00	0,0	0.0	0.0	0.00	0.0	0.00	0.00	62	
Line		(km/	Maintenance	0.53	1.06	1.60	2.14	2.58	2.58 2	2.58 2	2.58 2.	2.58 2.58	8 2.58	3 2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58	2.58 4	49	
	Maintenance Factor	. 3 (%)									-			_				T					$\left \right $	T	
RTU	For Fiber at	9.804 (106 Rs/Unit) Acquisition Cost	it) Acquisition Cost	0.98							-													Г	
etc. at	DCC	_	(Nos/System) Maintenance	0.03	£0'0	0.03	0.03	0.03	0.03 C	0.03 0	0.03 0.	0.03 0.03	3 0.03	3 0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	Г	
SS, DCC	Maintenance Factor	3 (%)							┢					L				Γ		+	+	+		T	
	Total Cost	Loet	Current Value 126.6	126.6	130.6	135.5	140.6	119.5	17.9	17.9 1	17.9 1	17.9 17.9	9 17.9	9 17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9 94	940 5	598
		1900	Present Value 126.6 124.4	126.6	124.4	122.9	121.4	98.3	14.1	13.4 1	12.7 1.	12.1 11.6	6 11.0	0 10.5	10.0		9.1	8.6	8.2	7.8	7.5	7.1	6.8 7.	+]
Benefit																		1						1	
Outage	19,729	(kWh/Feeder/Y)	() Current Value	8.9	17.8	26.6	35.5	42.6	42.6 4	42.6 4	42.6 42	42.6 42.6	6 42.6	5 42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6 4	42.6 813	3	
Loss	97,096	(kWh/SS/Y)	Current Value		19.4	29.1	38.8	46.6	46.6 4	46.6 4	[]	46.6 46.6	6 46.6	5 46.6	46.6		46.6	46.6	46.6	46.6	46.6	46.6 4	46.6 8	889	
Worker	0.12	(10° Rs/SS/Y)	Current Value	2.4	4.8	7.2	9.6	11.5	11.5 1	11.5 1	11.5 11	11.5 11.5	5 11.5	5 11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5 2	220	
Tariff Rate	S	(Rs/kWh)																				┝╸			
Outage F	Outage Reduction Rate 0.75	0.75																							
Total			Current Value	21.0	42.0	63.0	84.0		100.7 10			100.7 100.7	7 100.7	7 100.7	100.7		100.7	100.7	100.7	100.7	100.7 1	100.7 10	100.7 1,5	1,922	
Benefit			Present Vallue	21.0	40.0	57.1	72.5	82.9	78.9	75.2 7	71.6 6	68.2 64.9	9 61.8	8 58.9		53.4	50.9	48.5		44.0			38.0 1,7	1,172	
Return																			ĺ			1]	
	Benefit - Total Cost	otal Cost	Current Value -105.7	-105.7	-88.6		-56.6	-18.7		82.8 8	82.8 8:	82.8 82.8			82.8	£	82.8	82.8	82.8	┢		5	82.8 983	5	
			Present Vallue -105.7	-105.7	-84.4	-65.8	-48.9		64.9			56.0 53	4 50.8	8 48.4	46.1	43.9	41.8	39.8	37.9	36.1	34.4	32.8	31.2 4	418	
keturn	Return Accumulation	ation																				1	1]	
	Renefit - Total Cost	otal Cost	Current Value -105.7 -194.3 -266.8 -323.4 -342.2 -259.4 -176.6 -93.7 -10.9 71.9	-105.7	-194.3	-266.8	-323,4	342.2 -2	59.4 -1	76.6 -9	9.7 -1	17 6.0	9 154.7		237.5 320.3	403.1	485.9	568.7	651.5 734.3	734.3 8			982.8		
	• •		Present Value	-105.7	-190.0	-255.9	304.8	320.2 -2	55.3 -19	3.5 -13	34.6 -7	8.6 -25	2 25.6		120.1	74.0 120.1 164.1 205.9 245.7 283.6 319.8 354.2	205.9	245.7	283.6	319.8		387.0 41	418.2		

Table 4.15 Cost calculation for every sy

(Table 4.15 Idea1:Fiber	4.15 Con Fiber Optic	(Table 4.15 Continue) Idea1:Fiber Optic Cable (Case 2) Cash Flow Analysis (Money unit:1	ash Flow Aı	nalysis	(Mo	ney un		0° Rs)															5		Į
Relative Year	e Year			0			3	4		6	7 8	6	10		. 1	13	14	15	16	17				Tatel	Total
Calende	Calender Year(n)	-		2004	2005	2006	2007	2008	2009 2	2010 2	2011 20	2012 2013	3 2014	4 2015	2016	2017	2018	2019	2020	2021	2022	2023 2	2024		Equip.
Discour	Discount=1/(1+i)"	rate i= 0.05	: 0.05	1.000	0.952	0.907	0.864	0.823 (0.784 0.	0.746 0.	0.711 0.6	0.677 0.645	5 0.614	4 0.585	0.557	0.530	0.505	0.481	0.458	0.436	0.416	0.396 0	0.377		1
Price=(1+i)	1+i)"	rate r= 0.01	= 0.01	1.000	1.010	1.020	1.030	1.041	1.051 1.	1.062 1.(1.072 1.0	1.083 1.094	4 1.105	5 1.116	1.127	1.138	1.149	1.161	1.173	1.184	1.196	1.208 1	1.220	Γ	
Amoun	ut of Constru	Amount of Construction Facilities															Ì			ĺ			ł]	
Substati	Substation Number			20	20	20	20	16	0	0	0	0 0	0 0	0	0	0 .	0	0	0	0	0	0	0	96	
Feeder	Feeder Number	6 (Nos/SS)		120	120			96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 5	576	
Feeder	Feeder Length(km)	6.5 (km/Feeder)		780	780	780	780	624	0	0	0	0	0 0	0		0	Q.	0	0	0	0	0	0 3,	3,744	
Cost																									
Dolo	oto I TT UN2	0.4351	Acquisition Cost		105.47	105.47 106.52 107.59		86.93	0.00 0	0.00 0.0	0.00 0.00	00'0 00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 5	511	
Mount	SW,NU CLC.	2	(Nos/Feeder) Maintenance	3.13	6.30	9.49	12.72	15.33 1	15.33 15	15.33 15.	15.33 15.33	33 15.33	3 15.33	15.33	15.33	15.33	15.33	15.33	15.33 1	15.33 1	15.33 1	15.33 15	15.33 2	292	
TATUUTI	Maintenance Factor																							<u> </u>	
	This Carlie	0.6313 (10 ⁶ Rs/km) Acquisition Cost 49.24	Acquisition Cost		49.73	50.23		40.99	0.00 0	0.00 0.0	0.00 0.0	0.00 0.00	0.00	0.00	0.00		0.0	0.00	0.0	0.00	0.00	0.00	0.00 2	241	
Com.	Fiber Optic	0.1 (km/Feeder km)	(km/Feeder km) Acquisition Cost	12.63	12.75	12.88 13.01		10.51		0.00	0.00 0.0	0.00 0.00	0.00	0.00	0.0	0.00	0.0	0.00	0.00	0.0	0.00	0.00	0.00	62	
Line		1 (km/ss)	Maintenance	1.86	3.73	5.62	7.54	9.08	9.08 9	9.08 9.	9.08 9.0	9.08 9.08	8 9.08	9.08	9.08	9.08	9.08	9.08	9.08	9.08	9.08	9.08	9.08 1	173	
	Maintenance Factor	r 3 (%)																╞─		┢	┢─	-	┟─	[
RTU	For Fiber at	9.804 (10 ⁶ Rs/Unit) Acquisition Cost	Acquisition Cost	96'0															╞	┟─			┝		
etc. at	DCC	[(Nos/System) Maintenance	0.03	0.03	0.03	0.03	0.03	0.03 0	0.03 0.	0.03 0.0	0.03 0.03	3 0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03 0	0.03		
SS, DCC	Maintenance Factor	r 3 (%)																					╞	r	
	Total Cast	, Cost	Current Value 172.3	172.3	178.0	178.0 184.8 191	9	162.9	24.4 2	24.4 24	24.4 24	24.4 24.4	4 24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4 2	24.4 1,	1,281 8	815
			Present Value 172.3 169.5 167.6 165	172.3	169.5	167.6	Ś	134.0		18.2 1	17.4 16	16.5 15.8	8 15.0	14.3		13.0	12.3	11.8	11.2	10.7	10.2	9.7	9.2 1,	1,027]
Benefit																									
Outage		(kWh/Fceder/Y) Current Value	Current Value	8.9	17.8	26.6	35.5	42.6	42.6 4	42.6 42	42.6 42	42.6 42.6	6 42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6 4	42.6 8	813	
Loss	97,096	(kWh/SS/Y)	Current Value		19.4	29.1	38.8	46.6	46.6 4	46.6 46	46.6 46	46.6 46.6	5 46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6 4	46.6 8	889	
Worker	0.12	(10 ⁶ Rs/SS/Y)	Current Value	2.4	4.8	7.2	9.6	11.5	11.5 1	11.5 11	11.5] 11	11.5 11.5	5 11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5 1	11.5 2	220	
Tariff Rate	S	Tariff Rate 5 (Rs/kWh)												-					i		•				
Outage 1	Reduction Rate	• 0.75											_						_						
Total			Current Value	21.0	42.0		0	100.7 1	100.7 10	100.7 100	100.7 100.7	.7 100.7	7 100.7	100.7	100.7	100.7	100.7	100.7	100.7 1	100.7	100.7 1	100.7 10	100.7 1,	1,922	
Benefit			Present Vallue	21.0	40.0	57.1	72.5	82.9	78.9 7	75.2 7	71.6 68	68.2 64.9	9 61.8	58.9	56.1	S3.4	50.9	48.5	46.2	44.0	41.9	39.9 3	38.0 1,	1,172	
Return																									
	Benefit - Total Cost	atal Cost	Current Value -151.3 -136.0 -121.8 -107	-151.3	-136.0	-121.8	5	-62.1	76.3 7	76.3 74	76.3 76	76.3 76.3	3 76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3 7	76.3 6	642	
	T - HTANA	UIAI ~U31	Present Vallue -151.3 -129.6 -110.5	-151.3	-129.6		-93.0	-51.1	59.8 5	56.9 54	54.2 51	51.6 49.2	2 46.8	44.6	42.5	40.5	38.5	36.7	35.0	33.3	31.7	30.2 2	28.8 1	145	
Return	Return Accumulation	ation					1									1 1									
	Renefit - Total Cost	otal Cost	Current Value -151.3 -287.3 -409.1	-151.3	-287.3	-409.1	ŝ	-578.9 -5	-502.6 -42		-350.0 -273.7	.7 -197.4		-44.8	31.5	_							641.9		
			Present Value -151.3 -280.8 -391.3 -484	-151.3	-280.8	-391.3	-484.3	.3 -535.4 -4	-475.7 -418.7		4.5 -312	-364.5 -312.9 -263.7		-216.8 -172.2	-129.7	-89.3	-50.7	-14.0	20.9	54.2	85.9 1	116.1 14	144.9		

Idea1:1	liber Optic (Idea1:Fiber Optic Cable (Case 3) Cash Flow Analysis (Money unit:10 ^b Rs)	ash Flow An	alysis ((Mont	ey uni	t:10° F	(s)																	
Relative Year	Year			0	1	2	3	4	5 6	2 3	80	6	10	11	12	13	14	15	16	17	18	19	20	j	Total
Calende	Calender Year(n)				2005	2006	2007	2008 2	2009 20	2010 2011	11 2012	12 2013	3 2014	1 2015	2016	2017	2018	2019	2020	2021	2022	2023	2024 I	1 otal E	Equip.
Discour	Discount=1/(1+i) ⁿ	rate i= 0.05	= 0.05		0.952	0.907 (0.864 0	0.823 0.	0.784 0.7	0.746 0.711	11 0.677	77 0.645	5 0.614	1 0.585	0.557	0.530	0.505	0.481	0.458	0.436	0.416	0.396 0	0.377	┢─]
Price=(1+i) ¹	[+i)"	rate $r= 0.01$	= 0.01	1,000	1.010	1.020	1.030 1	1.041 1.	1.051 1.0	1.062 1.072	72 1.083	83 1.094	4 1.105	5 1.116	1.127	1.138	1.149	1.161	1.173	1.184	1.196	1.208 1	1.220	ľ	
Amoun	t of Constru	Amount of Construction Facilities																1		1.	1]	
Substati	Substation Number			20	20	20	8	16	0	-	0	0	0	0	0	Ô	0.	0	0	0	0	5	0	96	
Feeder Number	Number	6 (Nos/SS)		120	120	120	120	- 96	0	0	0	0	0 0	0	0	0	0	°	0	0	0	•	0 5	576	
Feeder]	Feeder Length(km)	6.5 (km/Feeder)		780	780	780	780	624	0	0	0	0	0	0	0	0	0	0	•	0	0	6	0	3,744	
Cost																				1]	
Dala	o⊨ IILa MS	0.4351 (10 ⁶ Rs/Unit) Acquisition Cost 104.42) Acquisition Cost	104.42 1	105.47 1	106.52 10	7.59	86.93 0	0.00 0.0	0.00 0.00	00.0	00.0	00.0	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.0	0.00	0.00 5	511	
Phone t	THO OT W'M O	·	(Nos/Feeder) Maintenance	3.13	6.30	9.49 12.72	_	15.33 15	15.33 15.33	33 15.33	33 15.33	33 15.33	3 15.33	15.33	15.33	15.33	15.33	15.33	15.33	15.33	15.33	15.33 1:	15.33 2	292	
TITINOTAT	Maintenance Factor	3 (%)			╞		┢											†-	-		\mathbf{T}	\mathbf{T}		Γ	
	Eihor Ontia	0.6313 (10° Rs/km) Acquisition Cost 246.19 248.65	Acquisition Cost	246.19 2	48.65 2	251.14 25	3.65	204.95 0	0.00 0.0	0.00 0.0	0.00 0.00	00.0 000	0.00	0.00	0.00	0.00	00'0	0.00	0.00	0.00	0.00	0.00	0.00 1,	1,205	
Com.	Cable	0.5 (km/Feeder km)	(km/Feeder km) Acquisition Cost 12.63		12.75	12.88 1	13.01	10.51 0	0.00 0.0	0.00 0.00	00.0 00	00.0 000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	62	
Line	Capito	1 (km/ss)	Maintenance	7.76 1	15.61 2	23.53 3	31.53 3	37.99 37	37.99 37.99	99 37.99	99 37.99	99 37.99	9 37.99	37.99	37.99	37.99	37.99	37.99	37.99	37.99	37.99 3	37.99 3'	37.99 7	724	
	Maintenance Factor	3 (%)				╞												T		ſ			┢╌		
RTU	For Fiber at	9.804 (10° Rs/Unit)	(10° Rs/Unit) Acquisition Cost	0.98															+			┢	\square	Ļ	
etc. at	DCC		(Nos/System) Maintenance	0.03	0.03	0.03	0.03	0.03 0	0.03 0.0	0.03 0.03	03 0.03	0.03	3 0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03		
SS, DCC	Maintenance Factor	3 (%)										_		L					F					Γ	
	Total Cost	Onst	Current Value 375.1	375.1 2	388.8	388.8 403.6 418.5			53.3 53		53.3 53.3			53.3	53.3		53.3	53.3	53.3	53.3	53.3	53.3	53.3 2,	2,795 1,	1,778
		1000	Present Value 375.1	375.1 3	370.3 366.1	366.1 ÷	361.5 2	292.7 4	41.8 39	39.8 37	37.9 36.1	.1 34.4	4 32.8	31.2	29.7	28.3	26.9	25.7	24.4	23.3	22.2	21.1	20.1 2,	2,241	
Benefit	ᅬ														ļ						1			1	
Outage		(kWh/Feeder/Y) Current Value) Current Value	8.9	17.8	26.6	35.5	42.6 4	42.6 42	42.6 42.	42.6 42.6	.6 42.6	6 42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6 8	813	
Loss	97,096	(kWh/SS/Y)	Current Value	9.7	19.4	29.1	38.8	46.6 4	46.6 46	46.6 46.	46.6 46.6	.6 46.6	6.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6 8	889	
Worker	-	(10° Rs/SS/Y)	Current Value	2.4	4.8	7.2	9.6	11.5 1	11.5 11	11.5 11.5	.5 11.5	.5 11.5	5 11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5 2	220	
Tariff Rate	S		 																			-		<u> </u>	
Outage I	Outage Reduction Rate	0.75																							
Total			Current Value	21.0	42.0	63.0	84.0 1	100.7 10	100.7 100	100.7 100.7	1.00.7	100.7	7 100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7	100.7 1,	1,922	
Benefit			Present Vallue	21.0	40.0	57.1	72.5	82.9 7	78.9 75	75.2 71	71.6 68.2	1.2 64.9	9 61.8	58.9	56.1	53.4	50.9	48.5	46.2	44.0	41.9	39.9	38.0 1,	1,172	
Return																								1	
	Benefit - Total Cost	ntal Cost	Current Value -354.2	-354.2	-346.8	-340.6	334.6 -2	-255.0 4	47.4 47	47.4 47	47.4 47	47.4 47.4	4 47.4	474	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4 -8	-873	
	T		Present Vallue -354.2	-354.2	-330.3	-309.0 -2	89.0	-209.8 3	37.1 35	35.4 33	33.7 32	32.1 30.6	6 29.1	27.7	26.4	25.1	23.9	22.8	21.7	20.7	19.7	18.8	17.9 -1	-1,070	
Return	Return Accumulation	ation																						1	
	Renefit - Total Cost	otal Cost	Current Value -354.2 -701.0 -1041.6	-354.2	701.0	1041.6	1376.2 -1	631.2 -15	83.8 -153	16.4 -148	9.0 -144.	376.2 -1631.2 -1583.8 -1536.4 -1489.0 -1441.6 -1394.2 -1346.8 -1299.4 -1252.0 -1204.6 -1157.2 -1109.8 -1062.4 -1015.1 -967.7 -920.3 -872.9	.2 -1346.5	1299.4	-1252.0	-1204.6	-1157.2	-1109.8	-1062.4	1015.1	967.7	920.3 -8	72.9		
			Present Value -354.2 -684.5 -993.4	-354.2 -	684.5 -	993.4	1282.4	492.2 -14	55.1 -141	9.7 -138	6.0 -135	-1282.4 -1492.2 -1455.1 -1419.7 -1386.0 -1354.0 -1323.4 -1294.3 -1266.6 -1240.2 -1215.1 -1191.1 -1168.3 -1146.6 -1126.0 -1106.3 -1087.5 -1069.6	4 -1294.2	3 -1266.6	-1240.2	-1215.1	-1191.1	-1168.3	-1146.6	-1126.0 -	1106.3	1087.5	069.6		

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(Table 4.15 Continue)

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ole 4
Table

Idea1:	Metallic Cabl	Idea1:Metallic Cable Cash Flow Analysis (Money unit:10° Rs)	nalysis (Moi	iey un	it:10 ⁶	Rs)				l															
Relative Year	е Үеаг			0		, 2	3	4	5	6 7	~	6	10	Ξ	12	13	14	15	16	17	18	19	20 1	F	Total
Calend	Calender Year(n)			2004	2005 2006	2006	2007	2008 2	2009 20	2010 20	2011 2012	12 2013	3 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023 2	2024 I	Total Equ	Equip.
Discou	Discount=1/(1+i) ⁿ	rate i= 0.05	= 0.05	1.000	1.000 0.952 0.907	_	0.864 (0.823 0	0.784 0.	0.746 0.711	11 0.677	77 0.645	5 0.614	0.585	0.557	0.530	0.505	0.481	0.458 (0.436 0	0.416 0	0.396 0	0.377	ĺ]
Price=(1+i)	<u>[+i]</u>	rate r= 0.01	= 0.01	1.000	1.000 1.010 1.020		1.030 1	1.041 1	1.051 1.	1.062 1.072	72 1.083	83 1.094	4 1.105	1.116	1.127	1.138	1.149	1.161	1.173	1.184 1	1.196 1.208		1.220	T	
Amoun	it of Construct	Amount of Construction Facilities		1	ļ	1												1	1	1		1		1	
Substat	Substation Number			20	20	20	20	16	0	0	0	0	0 10		0	0	0	0	0	0	0	0	5 0	96	
Feeder	Feeder Number	(SS/SON) 9		120	120	120	120	96	0	•	0	0	0	°	0	0	0	0	0	0	0	0	0.	576	
Feeder	Feeder Length(km)	6.5 (km/Feeder)		780	780	780	- 780	624	0	0	0	0	0 0	0	0	0	0	0	0	0	5	0	0 33	3,744	
Cost				ļ]	
-1-0 -1-0	CW D'TT ato	0.4351 (10 ⁶ Rs/Unit) Acquisition Cost 104.42 105.47 106.52	() Acquisition Cost	104.42	105.47	_	107.59 8	86.93 0	0,00	00'0 00'0	00.0	0 0.00	0.0	0.0	0.00	0.0	0.0	0.00	0.0	0.00	0.00	0.00	0.00 5	511	
L UIC	_	2 (Nos/Feeder) Maintenance) Maintenance	3,13	6.30	9,49	12.72 1	15.33 15	15.33 15.	15.33 15.33	15.33	3 15.33	15.33	15.33	15.33	15,33	15.33	15.33 1	15.33 1	15.33 1	15.33 11	15.33 15	15.33 2	292	
	Maintenance Factor	3 (%)																					$\left \right $	1	
		0.6128 (10 ⁶ Rs/km) Acquisition Cost 478.01 482.79 487.62) Acquisition Cost	478.01	482.79		492.49 39	397.93 0	0.00 0.	0.00 00.0	00 0.00	00.0 0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 2,3	2,339	
Com.	Metallic Cable	1 (km/Feeder km)	(km/Feeder km) Acquisition Cost 12.26 12.38 12.50	12.26	12.38	-	12.63 1	10.20 0	0,00 0.0	0.00 0.00	00.0 000	00.0 0	0.00	0.00	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	99	
Line		1 (km/ss)	Maintenance 14.71 29.56	14.71	29.56	44.57 5	59.72 7	71.96 71	71.96 71.	71.96 71.96	11.96	6 71.96	21.96	71.96	71.96	71.96	71.96	71.96 7	71.96 7	71.96 7	71.96 71	71.96 71	71.96 1.	1,372	
	Maintenance Factor	3 (%)											 				[┢─		┢		╞	Γ	
RTU		For Metallic at 9.804 (10 ⁶ Rs/Unit) Acquisition Cost	() Acquisition Cast	0.98			$\left \right $				Ĺ							╞							
etc. at	DCC	0.1 (Nos/System)	(Nos/System) Maintenance	0.03	0.03	0.03	0.03	0.03 0	0.03 0.	0.03 0.03	3 0.03	3 0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03 (0.03 0	0.03 0	0.03	Ľ	
SS, DCC	SS, DCC Maintenance Factor	3 (%)						_			[Ţ	T		$\left \right $			-		 	
[T _{ete} T		Current Value 613.5 636.5 660.7	613.5	636.5 (582.4 8	87.3 8'	87.3 87.3	3 87.3	3 87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3 8	87.3 8	87.3 4,5	4,576 2,911	E
		1901	Present Value 613.5 606.2	613.5 (606.2	599.3 5	591.9 4	479.1 6	68.4 6.	65.2 62.1	1 59.1	1 56.3	53.6	51.1	48.6	46.3	44.3	42.0	40.0	38.1	36.3 3	34.6 3	32.9 3,6	3,669	1
Benefit																				ł				1	
Outage	19,729	(kWh/Feeder/Y) Current Value	Current Value	8,9	17.8	26.6	35.5 4	42.6 4	42.6 42	42.6 42.6	6 42.6	6 42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6 4	42.6 4	42.6 4	42.6 8	813	
Loss	97,096	(kWh/SS/Y)	Current Value	9.7	19.4	29.1	38.8	46.6 4	46.6 46	46.6 46.6	6 46.6	6 46,6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6 4	46.6 4	46.6 8	889	
Worker	0	(10° Rs/SS/Y)	Current Value	2.4	4.8	7.2	9.6	11.5 1	11.5 11	11.5 11.5	5 11.5	5 11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5 3	11.5 1	11.5 1	11.5 2	220	
Tariff Rate	5	(Rs/kWh)																							
Outage 1	Outage Reduction Rate	0.75		_		_																			
Total			Current Value	21.0	42.0	63.0	84.0 1	100.7 10	100.7 100.7	0.7 100.7		100.7 100.7	100.7	100.7	100.7	100.7	100.7	100.7 1	100.7 1	100.7 11	100.7 10	100.7 10	100.7 1,5	1,922	
Benefit			Present Vallue	21.0	40.0	57.1	72.5	82.9 7	78.9 75	75.2 71.6	6 68.2	2 64.9	61.8	58.9	56.1	53.4	50.9	48.5	46.2	44.0	41.9 3	39.9 3	38.0 1,1	1,172	
Return]	
	Renefit - Total Cost	tal Cret	Current Value -592.6 -594.5 -597.8	-592.6	594.5		-601.2 -4	-481.6 1		,	4 13.4		13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4 1	13.4 [-2,	-2,653	
		1602 101	Present Vallue -592.6 -566.2 -542.2	-592.6	566.2		-519.4 -3	-396.3 1	10.5 10	10.0	9.5 9.1	1 8.7	8.2	7.8	7.5	7.1	6.8	6.5	6.1	5.9	5.6	5.3	5.1 -2,	-2,497	
	A DOUTION A													Í											

Current Value 592.6 11587.1 1784.9 2386.1 2367.7 2854.3 2840.9 2871.5 2814.1 2800.7 2787.2 2773.8 2760.4 2774.0 2733.6 2720.1 2706.7 2693.3 2679.9 2666.5 2653.0 7553.6 7565.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 2653.0 7553.6 7565.6 75

Benefit - Total Cost

Return Accumulation

(Table 4 Idea1:R	(Table 4.15 Continue) Idea1:RF Using Mobile C	(Table 4.15 Continue) Idea1:RF Using Mobile Communication Cash Flow Analysis (Mone.	tion Cash	Flow	Anal	ysis (M	oney 1	y unit:10° Rs)) [°] Rs)																
Relative Year	Year			0	1	2	ę	4	S	6	7	œ	9 1	10	11 11	12 13	14	15	16	17	18	19	20	E	Total
Calender Year(n)	Year(n)			2004	04 2005	35 2006	6 2007	7 2008	2009	2010	2011	2012 2	2013 20	2014 2(2015 20	2016 2017	17 2018	8 2019	9 2020	0 2021	2022	2023	2024	1 OTAL	Equip.
Discount	Discount=1/(1+i) ⁿ	rate i= 0.05	= 0.05	1.00	.0 0.9	1.000 0.952 0.907 0.8	7 0.864	1 0.823	0.784	0.746	0.711	0.677 0.	0.645 0.0	0.614 0.5	0.585 0.5	0.557 0.530	30 0.505	5 0.481	1 0.458	8 0.436	0.416	0.396	0.377		
Price=(1+i)	+i)"	rate r= 0.01	: 0.01	1.000	20 1.0	1.010 1.020 1.0	0 1.030	0 1.041	1.051	1.062	1.072	1.083 1.	1.094 1.	1.105 1.1	1.116 1.1	1.127 1.138	38 1.149	9 1.161	1 1.173	3 1.184	1.196	1.208	1.220		
Amount	of Constru	Amount of Construction Facilities																							
Substatic	Substation Number			Ř	20 2	20 20	1 20	16	0	0	0	ò	0	0	0	0	0	0	0	0 0	•	0	0	96	
Feeder Number	Jumber	(SS/SO) 0		120	0 120	0 120	120	8	0	0	0	0	0	0	0	0		0	0	000	•	0	0	576	
Feeder L	Feeder Length(km)	6.5 (km/Feeder)		780	0 780	0 780	780	624	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	3,744	
Cost																									
olog	SW PTIT at 2) Acquisition Cos	¤ 108.0	12 109.1	110.15	9 111 30	89.93	0.00	0.00	0.00	0.00	0.00 0.0	0.00	0.00 0.0	0.00 0.00	00.0	0.00	0.00	0.00	0.00	0.0	0.00	529	
	איעזה מכי	2	(Nos/Feeder) Maintenance	e 3.24	4 6.51		9.82 13.16	15.86	15.86	15.86	15.86 1	15.86 15	15.86 15.	15.86 15.	15.86 15.	15.86 15.86	6 15.86	6 15.86	5 15.86	15.86	15.86	15.86	15.86	302	
	Maintenance Factor	. 3 (%)												╞	-									Γ	
RTU 1	RCS for RF at	2.976 (10 ⁶ Rs/Unit) Acquisition Cost) Acquisition Cos	si 1.49	6	-	 					╞			┝	-								F	
etc. at	DCC	0.5 (Nos/System)	(Nos/System) Maintenance	e 0.04	4 0.04	14 0.04	1 0.04	0.04	0.04	0.04	0.04	0.04 0	0.04 0.	0.04 0.	0.04 0.	0.04 0.04	4 0.04	4 0.04	4 0.04	1 0.04	0.04	0.0	0.04		
SS,DC	Maintenance Factor	3 (%)										╞			┝	-				 	L				
	Totol Cost	100 L	Current Value 112.8 115.7	e 112.	8 115.	7 120.1	124.5	105.8	15.9	15.9	15.9	15.9 1	15.9 1	15.9 1:	15.9 1:	15.9 15.9	9 15.9	9 15.9	9 15.9	15.9	15.9	15.9	15.9	833	530
		COSt	Present Value 112.8 110.2	e 112.	8 110.	2 108.9 107	9 107.5	87.1	12.5	11.9	11.3	10.8 1	10.2	9.8	9.3 8	8.9 8.	8.4 8.0	0 7.6	5 7.3	6.9	6.6	6.3	6.0	668	
Benefit																									
Outage	19,729	(kWh/Feeder/Y)	Current Value	e 8.9	9 17.8	8 26.6	35.5	42.6	42.6	42.6	42.6	42.6 4	42.6 4	42.6 42	42.6 42	42.6 42.6	6 42.6	6 42.6	5 42.6	42.6	42.6	42.6	42.6	813	
Loss	97,096	(kWh/SS/Y)	Current Value	e 9.7	7 19.4	4 29.1	38.8	46.6	46.6	46.6	46.6	46.6 4	46.6 41	46.6 4(46.6 46	46.6 46.6	6 46.6	6 46.6	5 46.6	6.6	46.6	46.6	46.6	889	
Worker	0.12	(10 ⁶ Rs/SS/Y)	Current Value	e 2.4	4 4.8	8 7.2	9.6	11.5	11.5	11.5	11.5	11.5 1	11.5 1	11.5 11	11.5 11	11.5 11.5	5 11.5	5 11.5	5 11.5	5 11.5	11.5	11.5	11.5	220	
Tariff Rate	5	(Rs/kWh)												╞	╞		 								
Outage R	Outage Reduction Rate	0.75																							
Total			Current Value	te 21.0	.0 42.0	.0 63.0	0.84.0	100.7	100.7	100.7	100.7	100.7 10	100.7 10	100.7 10	100.7 100	100.7 100.7	7 100.7	7 100.7	7 100.7	7 100.7	100.7	100.7	100.7	1,922	
Benefit			Present Vallue	le 21.0	.0 40.0	.0 57.1	1 72.5	82.9	78.9	75.2	71.6	68.2 6	64.9 6	61.8 5	58.9 50	56.1 53.4	4 50.9	9 48.5	5 46.2	2 44.0	41.9	39.9	38.0	1,172	
Return																									
	Benefit - Total Cost	otal Cost	Current Value -91.8	e -91	.8 -73.7	.7 -57.1	1 -40.5	5.1	84.8	84.8	84.8	84.8 8	84.8 8	84.8 8.	84.8 84	84.8 84.8		8 84.8	8 84.8	84.8	84.8	84.8	84.8	1,089	
			Present Vallue -91.8	ie -91.	.8 -70.2	.2 -51.8	8 -35.0	-4.2	66.5	63.3	60.3	57.4 5	54.7 5	52.1 4	49.6 4	47.2 45.0	0 42.8	8 40.8	8 38.9	37.0	35.3	33.6	32.0	503	
Return	Return Accumulation	ation	•																						
-	Renefit - Total Cost	'ntel Cost	Current Value -91.8 -165.5 -222.6 -263.1 -268.2 -183.4	le -91.	.8 -165	.5 -222.(5 -263.1	-268.2	-183.4	-98.5	-13.7	71.1 12	156.0 24	240.8 32	5.6 41	325.6 410.5 495.3		2 665.	0 749.8	580.2 665.0 749.8 834.7	· · · ·	919.5 1004.4 1089.2	1089.2	<u>. </u>	
			Fresent Value -91.8 -162.0 -213.8 -248.8 -253.0 -186.5 -123.2	e -91.	8 -162	.0 -213.8	8 -248.8	1-253.0	-186.5	-123.2	-62.9	-5.5 4	49.2 101.3	1.3 15	150.9 19	198.1 243.1 286.0 326.8 365.6 402.7	1 286.	0 326	8 365.0	5 402.7	437.9	471.S	471.5 503.5		

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Idea3:P	LC Cash Flo	Idea3:PLC Cash Flow Analysis (Money unit:10° Rs)	ney unit:10 ⁽	^b Rs)																				
Relative Year	Үеаг			0		2	ę	4	5 6	6	8	6	10	11	12	13	14	15	16	17 1	18 1	19 20		Tota
Calender Year(n)	Tear(n)			2004	2005	2006	2007	2008 2	2009 20	2010 2011	11 2012	12 2013	3 2014	2015	2016	2017	2018	5	-	╘	10	5	2024 Total	
Discount	Discount=1/(1+i) ⁿ	rate i= 0.05	0.05	1.000	0.952	0.907	0.864 (0.823 0.	0.784 0.7	0.746 0.711	11 0.677	77 0.645	5 0.614	0.585	0.557	0.530	0.505	0.481 (1	77	•
Price=(1+i)	+i)"	rate r= 0.01	0.01	1.000	1.010	1.020	1.030	1.041 1.	1.051 1.0	1.062 1.072	72 1.083	33 1.094	1.105	1.116	1.127	1.138	1.149	1.161		1.184 1.	1.196 1.	1.208 1.220	20	г
Amount	t of Construc	Amount of Construction Facilities								{							1							1
Substatic	Substation Number			20	20	20	20	16	0	0	0	0 0		0	0	0	0	6	0	0	0	-	0 96	r
Feeder Number	Jumber	6 (Nos/SS)		120	120	120	120	96	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 576	1-
Feeder L	Feeder Length(km)	6.5 (km/Feeder)		780	780	780	780	624	0	0	0	00	0	G	0	6	0	0	0	0	0	0	0 3,744	Τ.∓
Cost																		ĺ						7
Prile	ų	0.5512 (10 ⁶ Rs/Unit) Acquisition Cost 132.29 133.61 134.95 136.30 110.13	Acquisition Cost	132.29 1	33.61	134.95	36.30 11		0.00	0.00 0.00	00.0 0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.	0.00 0.0	0.00 647	
· · ·		2 (Nos/Feeder)	(Nos/Feeder) Maintenance	3.97	7.98	12.03 16.11	6.11 1		19.42 19.42	42 19.42	2 19.42	2 19.42	19.42	19.42	19.42	19.42	19.42 1	19.42 1	19.42 19	_	19.42 19.	19.42 19.42		T
	Maintenance Factor	- 1						_			_													
Com	Fiber Ontic Cable	0.631 (10° Rs/km)	(10° Rs/km) Acquisition Cost 12.63	12.63	12.75	12.88	l3.01 1	10.51 0		0.00 0.00	0.00	00.00	00'0	00'0	00'0	0.00	0.00	0.00	0.00	0.00	0.00 0.	0.00 0.00	0 62	r
_		¥)	Maintenance	0.38	0.76	1.15	1.54	1.85 1	1.85 1.	1.85 1.85	5 1.85	5 1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85 1	1.85 1.	1.85 1.85	35 35	1
-	Maintenance Factor	3 (%)									_								╞					-
RTU	Eor PI C at SS	3.9138 (10° Rs/Unit) Acquisition Cost 78.28	Acquisition Cost		79.06	79.85	80.65 6	65.16 0	0.00 0.	0.00 0.00	0.00	0.00	0.0	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	0.00 0.00	0 383	–
	_	1 (Nos/ss)	(Nos/ss) Maintenance	2.35	4.72	7.12	9.53 1	11.49 11	11.49 11.	11.49 11.49	9 11.49	9 11.49	11.49	11.49	11.49	11.49	11.49 1	11.49 1	11.49 11	11.49 11	11.49 11.		9 219	T
20	at	7.866 (10° Rs/Unit) Acquisition Cost	Acquisition Cost	7.87																			∞	T
ŝ	DCC		(Nos/System) Maintenance	0.24	0.24	0.24	0.24	0.24 0	0.24 0.	0.24 0.24	4 0.24	4 0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24 (0.24 0	0.24 0.	0.24 0.24]
	Maintenance Factor	3 (%)								┝					1			1	1			-		1-
	Total Cost	net	Current Value 238.0	238.0	239.1	248.2	257.4 2	218.8 3	33.0 33	33.0 33.0	0 33.0	0 33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0	33.0 3	33.0 3:	33.0 33	33.0 1,729) 1,100
		1001	Present Value 238.0 227.7 225.1	238.0	227.7	225.1	222.3 1	180.0 2	25.9 24	24.6 23.5	5 22.3	3 21.3	20.3	19.3	18.4	17.5	16.7	15.9	15.1	14.4 1	13.7 1	13.1 12.4	4 1,387	
Benefit											ļ					1	1	1	Ł	4		-		7
Outage	19,729	Я	Current Value	8.9	17.8	26.6	35.5	42.6 4	42.6 42	42.6 42.6	6 42.6	6 42.6	42.6	42.6	42.6	42.6	42.6	42.6	42.6 4	42.6 4	42.6 45	42.6 42	42.6 813	r
Loss	97,096	(kWh/SS/Y)	Current Value	9.7	19.4	29.1	38.8	46.6 4	46.6 46	46.6 46.6	6 46.6	6 46.6	46.6	46.6	46.6	46.6	46.6	46.6	46.6 4	46.6 4	46.6 4(46.6 46	46.6 889	т-
Worker	0.12	(10° Rs/SS/Y)	Current Value	2.4	4.8	7.2	9.6	11.5 1	11.5 11	11.5 11.5	5 11.5	5 11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5 1	11.5 1	11.5 11	11.5 11.5	5 220	<u>1</u>
Tariff Rate		(Rs/kWh)													Ì			\vdash	-	┢			┝	г
Outage R	Outage Reduction Rate	0.75		-	_			-		'														
Total			Current Value	21.0	42.0	63.0	84.0 1	100.7 10	100.7 100.7	1.7 100.7	7 100.7		100.7 100.7	100.7	100.7 100.7		100.7	100.7 1	100.7 10	100.7 10	100.7 100	100.7 100.7	7 1,922	10
Benefit			Present Vallue	21.0	40.0	57.1		82.9 7	78.9 72	75.2 71.6	6 68.2	2 64.9	61.8	58.9	56.1	53.4	50.9	48.5	46.2 4	44.0 4	41.9 3	39.9 38	38.0 1,172	
Keturn									:															1
	PLC	PL(C(a+e+h)	Current Value -217.0 -197.1 -185.2 -1	-217.0	1.701	-185.2	73.4	$ \rightarrow $				7 67.7	67.7		67.7	67.7	67.7	E I			67.7 6		67.7 193	
		()	Present Vallue -217.0 -187.8 -168.0 -1	-217.0	187.8	-168.0	49.8	-97.1 5	53.1 5(50.6 48.1	.1 45.9	9 43.7	41.6	39.6	37.7	35.9	34.2	32.6	31.0 2	29.6 2	28.1 2	26.8 25	25.5 -216	<u> </u>
Keturn	Keturn Accumulation	tion		ľ																				1
	DId	PI (C(a+e+h)	Current Value -217.0 -414.1 -599.4 -772.8 -890.9 -823.1 -755.4 -687.6 -619.9 -552.2 -484.4 -416.7 -348.9 -281.2	-217.0 -	414.1	- 599.4	772.8 -8	90.9 -82	3.1 -75	5.4 -687	.6 -619.	9 -552.2	-484.4	-416.7	-348.9	-281.2	-213.4 -145.7	45.7 -	- 6.77-	-10.2 5	57.5 12:	125.3 193.0	0	
		()	Present Value 217.0 404.8 572.8 -722.6 819.7 -766.6 -716.1 -667.9 -622.1 -578.4 -536.8 497.2 459.5 423.6 389.4 -356.8 -325.7 -296.2 268.0 -241.2 -215.7	-217.0	404.8	-572.8 -	722.6 -8	19.7	6.6 -71	5.1 -667	.9 -622.	1 -578.4	-536.8	-497.2	-459.5	423.6	389.4 -:	356.8 -3	25.7 -2	96.2 -26	8.0 -24	1.2 -215	7	

Chapter 4 SCADA System

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(Table 4.15 Continue)

4.4.4 Cost Estimate for Individual Substation

In this section, the possibility of loss recovery and outage energy is studied with respect to their amount. Figure $4.16 \sim 4.19$ show the total of loss recovery and outage energy for every substation. And Table 4.16 shows the substation list with amount of energy that can be recovered, among those substations. Substations of over 100,000 kWh of recovery energy are listed up, and they are arranged on a recovery energy amount basis for Ranga Reddy and Hyderabad.

Here, the study team proposes starting to install the distribution SCADA in the order of more effective substations in Ranga Reddy and Hyderabad.

Cost and benefit estimate was made regarding to 4 substations in Table 4.13 from the viewpoint of recovery energy and 2 substations of which location is in the important area. The 4 substations consist of those of the largest amount and the least amount for Ranga Reddy and Hyderabad in Table 4.13. The 2 substations in the important area are selected from a view point that a long duration of outage should not happen.

System configuration method is the most promising RF Mobile.

The results are summarized as in Table 4.17 and the calculation is shown in Table 4.18.

	•						(Million Rs)
Substation name	Reason for Select	No. of feeders	Length (km/F)	Loss Recovery + Outage Energy (kWh/Y)	Equipment Cost	NPV (20 Years)	Recovery Period (Year)
Vanastalipram (RR)	Most	4	19.8	1,311,352	5	71	1
Asif Nagar (Hydera)	recovery energy	9	8.5	530,505	10	21	4
NGRI (RR)	Around	6	2.2	188,987	7	4	11
Air Port (Hydera)	100,000 kWh of recovery energy	6	2.6	101,096	7	-2	Over 20
Mytrivanam	Important	6	9.7	161,794	7	1	15
Srinagar	area	5	14.4	59,124	6	-3	Over 20

Table 4.17	Result of cost benefit estimate

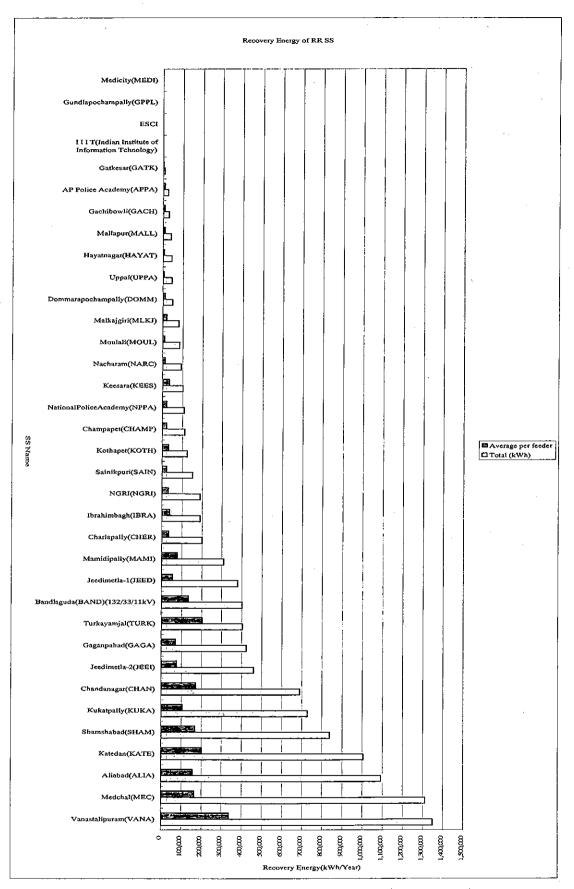


Figure 4.16 Recovery energy for every substation (Ranga Reddy)

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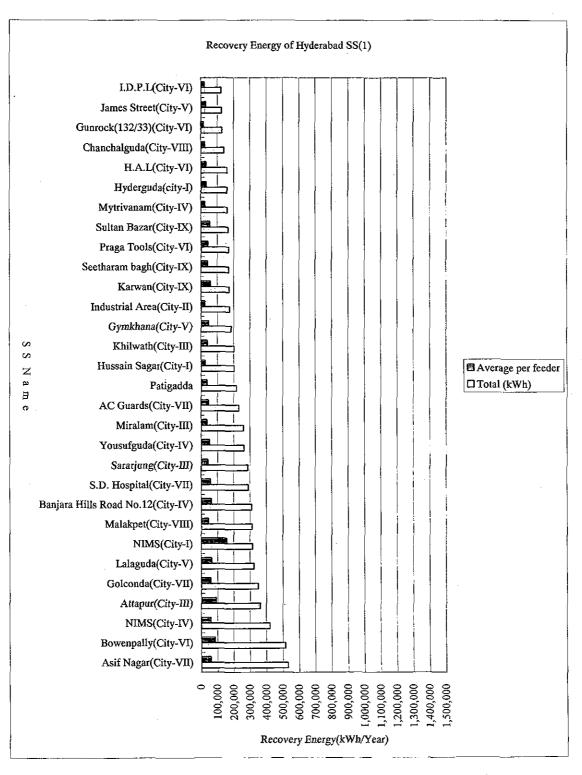


Figure 4.17 Recovery energy for every substation (Hyderabad -1)

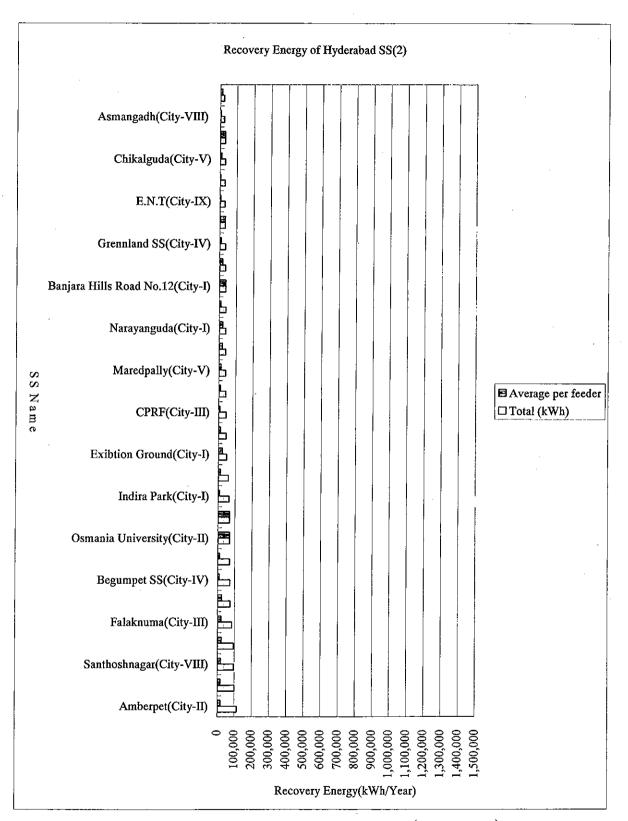


Figure 4.18 Recovery energy for every substation (Hyderabad -2)

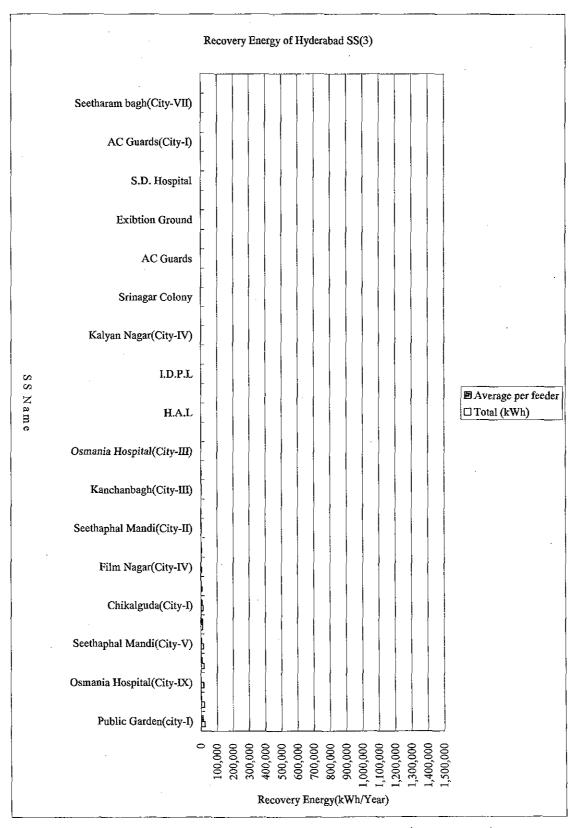


Figure 4.19 Recovery energy for every substation (Hyderabad -3)

Table 4.16 Loss recovery and outage energy of substation (Over 100,000kWh/year/substation)

21,629 163,919 76,513 70,670 156,036 31,498 21,684 31,089 Average 337,204 67,489 103.884 72,259 33.746 54,223 .353 38,200 200.870201,87022,132 33,871 eeder 33,52′ per Total (kWh) 1,311,352 1.092.250689,035 401.239 837,444 459,075 190.999 51,788,612 ,004,352 727,187 424,020 379,563 201,16588,987 24,355 403.741 309.412 [08, 144]110,661 1,348,81 101. (kWh) 828,816 70,736 320,830 125,489 259,253 403,741 74,522 479.148 319,243 83,716 105,878 136,32<u>6</u> 377,373 219,985 51,788 43,428 Energy 189,990 67.562 124.355 110,661 Outage 1035.0 Outage (m) 260.0 248.0 <u>395.0</u> 720.0 376.0 484.0 271.0 635.0 240.0 345.0 556.0 485.0 421.0 359.0 0.0 2452.0 017 80. 761 241 Recovery 12.6 18.58.8 8 22.5 6.4 0.0 11.6 0.0 23.7 Rate (%) 1.2 $\frac{5}{1.3}$ 5.2 0.0 5.2 S.S 0.0 25.1 15.1 5.1 429,782 239,090 189,572 54,673 Recovery 95,287 0 0 64,716 326,716 225,696 0 601,698 101,612 990,522 .021.513 525,205 21,425 104,777520,001 460,071 Loss Data Loss ů ∞ ø 4 4 6 Loss(KWh/Y) L.L. Loss(KWh/Y) 6,900,848 4,131,842 424,719 1,447.8463.755,748 ,246,000 1,181,285 1.757.734 2,585,814 2.650.7194,461,253 4,056,799 3.140,074 1.526.059 050.168 1.729.2891,407,5313.050.3922,956,261 823,955 678,523 1,480,331 79.2 4,651,842 190 7,891,370 4.071.906 52.16 1.630.836 1,637,419 1,859,346 69.2 3,045,884 3,981,444 824.576 4,891,035 3.140.07439.8 3,481,466 424,719 799.946 1,376,885 3,252,417 1.063.045 111,471 480,331 407,531 1kV feeder 4 Length 22 23.2 2.3 30.51 18 35.51 30 82 36 28 4] Ľ Ξ (km) 4 Load(A) 837 880 600 765 620 433 240 265 <u>985</u> 430 360 630 510 590 570 730 500 730 080 Max ς, Data No 8 Š 2 4, 9 তন ŝ 4 9 0 Ś ^oZ NationalPoliceAcademy(NPPA) Bandlaguda(BAND)(132/33/11kV) Vanastalipuram(VANA) Chandanagar(CHAN) Champapet(CHAMP) Shamshabad(SHAM) Gaganpahad(GAGA) Turkayamjal(TURK) Mamidipally(MAMI) Jeedimetla-1(JEED) Charlapally(CHER) Ibrahimbagh(IBRA) Kukatpally(KUKA) Jeedimetla-2(JEEI) Sainikpuri(SAIN) Kothapet(KOTH) Name Katedan(KATE) Medchal(MEC) Keesara(KEES) Aliabad(ALIA) NGRI(NGRI) Ranga Reddy North South Z S S S S \mathbf{z} z S S S Z z z Z S Z Z Z Ω S S ю Хо 18 2 19 \subseteq ŝ 4 15 r 0 20 9 ∞ ٣ 4 I. 6 2

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	Ň		ſ			11kV feeder	eder		Loss	1 000	Doctor d		Outage		Average
No.		Central Name South	No	Data No	Max Load(A)	Length(km)	Length(tem) Loss(kWh/Y) Loss(kWh/Y)	Loss(kWh/Y)	Data No	LUSS Recovery	Rate (%)	Outage (m)	Energy	Total (kWh)	per
	┞	C Asif Nagar(City-VII)	6	6	950	76.15	3,345,931	2,978,210	6	367.721	11.0	742.0	162.784	530.505	58.945
	~	N Bowenpally(City-VI)	9	Ś		43.72	2,275,957	1,826,680	S	449.278	19.7	199.0	65,964	515.241	85.874
	3	N NIMS(City-IV)	7	5	545	11.17	468,194	468,194	5	0	0.0	1100.0	422,286	422.286	60,327
	4	S Attapur(City-III)	4	4	610	23.95	1,596,501	1,335,610	4	260,891	16.3	283.0	102,636	363.526	90,882
Ľ		C Golconda(City-VII)	9	9	510	51.23	1,725,187	1,375,182	S	350,006	20.3	0.0	0	350,006	58,334
Ĺ	6 D	N Lalaguda(City-V)	5	5	540	21.3	994,249	917,276	5	76,973	7.7	675.0	247,169	324,142	64.828
	7 1	N NIMS(City-I)	2	2	160	6.83	109,026	109,026	2	0	0.0	1658.0	316,318	316,318	158,159
	8	S Malakpet(City-VIII)	7	L	810	21.1	1,041,174	991,398	7	49,775	4.8	3542.0	262,654	312,429	44,633
	4 6	N Banjara Hills Road No.12(City-I	5	3	245	9.24	330,434	245,581	3	84,853	25.7	943.0	225,619	310.473	62,095
Ē	10	C S.D. Hospital(City-VII)	5	S	525	35.63	1,267,447	1,267,447	5	0	0.0	1020.0	291,005	291,005	58,201
		S Sararjung(City-III)	7	L	1040	24.59	1,553,475	1,371,589	9	181,886	11.7	332.0	105,968	287,855	41,122
12		N Yousufguda(City-IV)	S	5	385	18.91	530,635	478,936	5	51,699	9.7	773.0	211,959	263,659	52,732
	<u></u>	S Miralam(City-III)	7	7	1020	39.14	2,590,584	2,447,206	7	143,378	5.5	307.0	117,078	260,455	37,208
Ċ	4	C AC Guards(City-VII)	5	5	425	32.63	1,074,212	943,286	4	130,926	12.2	512.0	101,808	232,734	46.547
-1	15 N	N Patigadda	9	9	629					0		558.0	217,002	217,002	36,167
1	16 0	C [Hussam Sagar(City-I)	8	8	820	26.22	1,026,638	920,346	<i>L</i>	106,291	10.4	413.0	97,602	203,894	25,487
1	7	S [Khilwath(City-III)	5	5	770	26.54	1,713,215	1,568,313	5	144,901	8.5	153.0	58,902	203,803	40,761
Ē	18 I	N Gymkhana(City-V)	4	4	620	22.4	1,537,881	1,477,859	4	60,022	3.9	321.0	125,500	185,523	46,381
1	19 (C [Industrial Area(City-II)	7	4	770	42.31	1,412,990	1,331,646	7	81,344	5.8	387.0	92,909	174,253	24,893
20		S Karwan(City-IX)	3	3	500	16.52	1,098,304	1,098,304	3	0	0.0	464.0	173,712	173,712	57,904
21		S Seetharam bagh(City-IX)	4	4	460	11.85	497,976	400,270	4	97,706	19.6	251.0	73,548	171.254	42,813
2		N Praga Tools(City-VI)	4	4	460	23.39	784,844	779,887	4	4,957	0.6	514.0	164,983	169,940	42,485
2		S Sultan Bazar(City-IX)	3	3	545	11.155	895,653	784,908	3	110,746	12.4	136.0	56,498	167,244	55,748
24		N Mytrivanam(City-IV)	6	6	550	9.74	337,478	262,109	9	75,369	22.3	269.0	86,425	161.794	26,966
2		C Hyderguda(city-I)	5	5	780	9.76	619,720	569,552	5	50,168	8.1	308.0	110,820	160,989	32,198
26		N H.A.L(City-VI)	5	5	460	16.5	518,881	420,244	5	98,637	19.0	150.0	61,668	160,305	32,061
5			6	5	600	15.46	571,882	533,834	5	38,048	6.7	365.0	103,792	141,840	23,640
5		N Gunrock(132/33)(City-VI)	7	5	610	65.41	3,190,893	3,190,893	5	0	0.0	445.0	130,159	130,159	18,594
5		N James Street(City-V)	4	4	590	6.44	435,749	335,973	4	99,776	22.9	121.0	25,823	125,599	31,400
30		N I.D.P.L(City-VI)	6	9		57.9	2,279,294	2,207,908	9	71,386	3.1	186.0	52,848	124.234	20,706
3		C Amberpet(City-II)	6	6		27.46	875,745	875,745	6	0	0.0	388.0	114,062	114,062	19,010
ŝ		N Air Port(City-IV)	6	9		15.46	989,350	933,439	6	55,911	5.7	127.0	45,185	101,096	16.849

Mobile Communica Tate i= (uction Facilities uction Facilities (10^6 Rs/Unit) 19.8 (km/Feeder) 19.8 (km/Feeder) $(\%) (10^6 \text{ Rs/Unit})$ $(\%) (10^6 \text{ Rs/Unit})$ $(\%) (10^6 \text{ Rs/Unit})$ $(\%) (10^6 \text{ Rs/SS/Y})$ (10^6 Rs/SS/Y)	vidual estimate	10 11 12 13 14 15 16 17 18 19 20[Total	2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 Total	0.614 0 585 0 557 0 530 0.505 0 481 0 458 0 436 0 416 0 396 0 377	1 105 1 116 1 127 1 138 1 149 1 161 1 173 1.184 1 196 1 208 1 220			0			0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 4	011 011 011 011 011 011 011 011 011 011		0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04	02 02 02 02 02 02 02 02 02 02 02 02 8 5	0.1 01 01 01 01 01 01 01 01 01 01 01 7		31 31 31 31 31 31 31 31 31 31 31 31 31 3	26 26 26 26 26 26 26 26 26 26 26 26 27 <u>26 26 55</u>	01 01 01 01 01 01 01 01 01 01 01 01 3			5.8 58 58 58 5.8 58 58 58 58 58 58 58 58 122	36 34 32 31 29 28 27 25 24 23 22 78	57 57 57 57 57 57 57 57 57 57 57 114	35 33 32 30 29 27 26 25 24 22 21 71		573 630 687 744 800 857 91.4 971 1027 1084 1141			
Table 4.18 Mobile Communication Cash Flow Analysis (Money university) Tate i= 0.05 100 100 100 3 4 Tate i= 0.05 1000 1000 1000 1000 1000 1000 0 3 4 4 0 0 0 1000 1000 1000 0 100 1000 100 1000 0 0 4 4 4 4 4 4 0 100 1001 100 1001 100 1001 0 Total table 4.18 1001 100 1001 100 1000 1000 1000 1001 100 T 2 101 <th 2"2"2"2"2<="" colspan="2" td=""><td>e of substati</td><td>7</td><td>2011</td><td>0 711</td><td>1 072</td><td>1</td><td></td><td></td><td></td><td></td><td>0 00</td><td>0 11</td><td></td><td>0.04</td><td>0.2</td><td>01</td><td></td><td>31</td><td>26</td><td>0.1</td><td></td><td></td><td></td><td></td><td>\square</td><td>40</td><td></td><td>403</td><td></td></th>	<td>e of substati</td> <td>7</td> <td>2011</td> <td>0 711</td> <td>1 072</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td>0 00</td> <td>0 11</td> <td></td> <td>0.04</td> <td>0.2</td> <td>01</td> <td></td> <td>31</td> <td>26</td> <td>0.1</td> <td></td> <td></td> <td></td> <td></td> <td>\square</td> <td>40</td> <td></td> <td>403</td> <td></td>		e of substati	7	2011	0 711	1 072	1					0 00	0 11		0.04	0.2	01		31	26	0.1					\square	40		403	
Table 4.18 RF Using Mobile Communication Cash Flow Analysis (Money u Year Year To Year 1 To Year 1 To Year 1 1 2004 2067 2064 To Yar 1 1000 1000 1000 1000 (H-1) ^T Tate i= 0.01 1000 1000 1000 ON Number 7 79 0 ON Number 4 (No Maintenance factor 3 (%) NRTU etc 2 (No 0 0 Multimer 4 (No 0 0 Number 7 0 0 0 0 <th c<="" td=""><td>Example <u>nit:10° Rs</u>)</td><td>4 5</td><td>2009</td><td>0.784</td><td>1 051</td><td></td><td>L</td><td>L</td><td></td><td></td><td>0.00</td><td>0.11</td><td></td><td>0.04</td><td>2</td><td></td><td></td><td></td><td>L</td><td>_</td><td></td><td></td><td>8 5</td><td>∞</td><td>7</td><td></td><td></td><td>29.0</td><td></td></th>	<td>Example <u>nit:10° Rs</u>)</td> <td>4 5</td> <td>2009</td> <td>0.784</td> <td>1 051</td> <td></td> <td>L</td> <td>L</td> <td></td> <td></td> <td>0.00</td> <td>0.11</td> <td></td> <td>0.04</td> <td>2</td> <td></td> <td></td> <td></td> <td>L</td> <td>_</td> <td></td> <td></td> <td>8 5</td> <td>∞</td> <td>7</td> <td></td> <td></td> <td>29.0</td> <td></td>	Example <u>nit:10° Rs</u>)	4 5	2009	0.784	1 051		L	L			0.00	0.11		0.04	2				L	_			8 5	∞	7			29.0		
Tyrear(1) Tyrear(1) r Year(1) r Year(1) r Year(1) rate i= 0.05 1000 1000 r Year(1) rate i= 0.05 1000 1000 1000 1000 1 r rate i= 0.05 1 0.01 1 0.00 0.05 0 ti=1/(1+1)" rate i= 0.01 1 0.00 0.05 0 ti=1/(1+1)" rate i= 0.01 1 0.00 1 0.00 1 0.00 0.05 0 ti=1/(1+1)" rate i= 0.01 1 0.00 1 0.00 1 0.00 0.00 0.00 0.00 0 0.01 1 0.00 1 0.00 0 0.00 0 0.01 1 0.00 0 0.01 0 0.01 0 0.01 0 <th< td=""><td>able 4.18 (Money ui</td><td></td><td>2007</td><td>0 864</td><td>1 030</td><td></td><td></td><td>L</td><td></td><td></td><td>000</td><td>0.11</td><td> </td><td>0 04</td><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td>S</td><td>L</td><td></td><td></td><td></td><td>17.6</td><td></td></th<>	able 4.18 (Money ui		2007	0 864	1 030			L			000	0.11		0 04									S	L				17.6			
RF Using Mobile Communication Cash Flov Year Year(n) r Year(n)	T ^r Analysis	1	2005	0 952	1 010		0				0 00	0 11		0 04	0.2	0.1		3.1	26	01			5.8	5.6	5.7	54		63			
RF Using Mobile Communic Year r Year r ate i= r'i=1/(1+1) ⁿ rate i= ti=1/(1+1) ⁿ rate i= ti=1/(1-1) ⁿ rate i= ti=1/(1-1) ⁿ 19.8 (wn/receler) Sw,RTU etc 0.4501 (10 ⁵ Rs/Unit) Sw,RTU etc 0.5 (Nos/System) Mantenance Factor 3 (%) Mantenance Factor 3 (%) Colol (10 ⁶ Rs/Wh/Feeder/Y) 520,001 (kWh/Feeder/Y) 520,001 (kWh/SS/Y) 012 (10 ⁵ Rs/SNY) 012 (10 ⁵ Rs/SNY) 50 (Rs/Wh) 6duction Rate 0.75 Benefit - Total Cost I Benefit - Total Cost I	ation Cash Flow	0	200					4	52			E . 1								_								ŀ			
VANA: VANA: Calender Discoun Price=(1 Amount Reder J Cost Total Loss Coutage Benefit Return Return	RF Using Mobile Communica	Relative Year	Calender Year(n)	n u		Amount of Construction Facilities	Substation Number	┝─┤		1			Maintenance Factor	05		I UIAI CUSI	Benefit	207,204	(kWh/SS/Y)	0 12 (10 ⁶ Rs/SS/Y)	5	Outage Reduction Rate 0.75				1907	n Accumulation		•		

Chapter 4 SCADA System

(Table 4.18 Continue) AsifNagar:RF Using Mot	Table 4.18 Continue) AsiRvagar:RF Using Mobile Communication Cash Flow Analysis (M	nication Ca	ash Flo	W An	elevib		ŀ	ŀ			ŀ							ĺ						[]
Relative Year			0	1	2	3	4	5 6	7	-	6	10	11	12	- 1	14	15	16	17				Total L	Lotal
Calender Year(n)			2004	2005	2006	2007	2008 2	2009 20	2010 2011	11 2012	12 2013	3 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	_	Equip
Discount=1/(1+i) ⁿ	rate $i=0.05$	0 05	1 000	0 952	0 907	0 864 (0 823 0	0784 07	0 746 0 711	11 0.677	77 0 645	5 0 614	0 585	0 557	0 530	0 505	0 481	0 458	0 436	0 416 (0 396 0	0 377		
Price=(1+i) ⁿ	rate r= 0 01	0 01	1 000	1 010	1 020 1 0	30	1 041 1	1 051 1 0	1 062 1 072	72 1 083	83 1 094	4 1105	1 116	1 127	1 138	1 149	1 161	1 173	1 184	1 196 1	1 208 1	1 220		
nount of Constru	Amount of Construction Facilities																							
Substation Number			1	0	0	0	0	0	0	0	0 0	0 0	0	0	0	0	0	0	0	0	0	0		
Feeder Number	9 (Nos/SS)		6	0	0	0	0	0	0	0	0 0	0 0	0	0	0	0	0	0	0	0	0	0	9	
Feeder Length(km)	8.46 (km/Feeder)		76	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	76	
Cost																		. 1					[
⊢	0 4501 (10 ⁶ Rs/Unit) Acquisition Cost	Acquisition Cost	810	000	000	0 00	0 00 0	0 00 0	0 00 0.00	00.0	000	000 0	00.0	00 0	000	000	00.0	0 00	0 00	0.00	0 00 0	0 00	8	
Pole SW,KIU etc	2	(Nos/Feeder) Maintenance	024	024	0 24	0 24	0 24 0	0 24 0.	0.24 0.24	1024	4 024	1 0 24	0 24	0 24	0 24	0 24	0 24	0 24	0 24	0 24	0.24 (0 24	S	
MOUNT. Maintenance Factor	ε					-						_					-					_		
RTU RCS for RF at	(t 2.976 (10° Rs/Unit) Acquisition Cost	Acquisition Cost	1.49																					
etc. at DCC	0.5	(Nos/System) Maintenance	0.04	0.04	0 04	0.04	0 04 0	04	0 04 0 04	0 04	14 0 04	1 0 04	0.04	0 04	0.04	0.04	0 04	0.04	0 04	0 04	0.04 (0 04		
SS, DC Maintenance Factor	ar 3 (%)																							
Ē	100	Current Value	66	0.3	03	0.3	0.3	03 0	03 0	3	03 03	3 03	03	03	03	03	03	03	8	03	03	0.3	16	키
	COSI	Present Value	66	63	03	02	02	02 (0.2 0	5	02 02	02	02	02	02	01	01	01	01	01	01	10	<u>5</u>	
Benefit																ľ		ł			ŀ	ŀ	Į	
Outage 18,087	(kWh/Feeder/Y) Current Value	Current Value	0.6	06	0.6	06	0.6	0.6 0	06 0	060	06 06	906		90	6	90	90	90	90	90	06	06	13	
Loss 367,721	(kWh/SS/Y)	Current Value	18	18	18	18	18	18 1	18 1	8				18	18	18	18	18	18	18	18	_	6	
Worker 0 12	(10 ⁶ Rs/SS/Y)	Current Value	5	70	5	01	01	010	010	01 0.1	101	5	5	5	5	5	5	10	5	5	5	-		
Tariff Rate 5	(Rs/kWh)																							
Outage Reduction Rate	e 0.75					-																-	Ţ	
Total		Current Value	2.6	26	26	26	26	26 2	262	6 2	5 9	6 26	26	26	2.6	26	2.6	26	26	26	26	26	24	
tefit		Present Vallue	2.6	2.4	2.3	2.2	21	20	1	8 1	7 17	7 16	15	14	14	13	12	12	11	11	10	10	3	
Return																							Į	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Patal Cast	Current Value	-7.3	23	23	23	23	23 2	23 2	3 2	3 2	3 23	2.3	23	23	23	23	23	23	23	23	23	38	
- IITallad	Belletti - Tulai Cust	Present Vallue	-73	22	21	20	19	18	17 1	16 1	5 15	5 14	13	13	12	12	1	2	2	60	60	60	21	
Return Accumulation	lation												1		1		ľ	ł	ŀ	ŀ	- F	[
Danafit 7	Potol Cost	Current Value	-73	-5.0	-2.7	-0.5	18		_	7	-				_	246	269	292	315	<u></u>	\rightarrow	38.3		
	Belletti - Tutat Cust	Present Value	-73	-5.1	-3.1	-11	0.8	2.6 4	4.3 5	6	74 89	9 103	116	129	141	153	164	17.4	184	194	203	21 1		
					ĺ				ĺ		ł	i												

Chapter 4 SCADA System

Table 4 AirPor	Table 4.18 Continue AirPort:RF Using Mobil	Table 4.18 Continue) AirPort:RF Using Mobile Communication Cash Flow Analysis (Mon	uication Cas	h Flov	v Ana	ılysis (1	Money	iey unit:10° Rs)	0° Rs)																
Relative Year	e Year			0		2	'n	4	5	9	~	8	10		1 12	13	14	15	16	17	18	19	20	Ľ-	Total
Calende	Calender Year(n)			2004	2005	5 2006	2007	2008	2009	2010 2	2011 20	2012 2013	13 2014	4 2015	5 2016	6 2017	2018	2019	2020	2021	2022	2023	2024		Equip
Discour	Discount=1/(1+1) ⁿ	rate i	rate i= 0 05	1 000	0 95	1 000 0 952 0.907 0 864	0 864	0 823	0 784 0	0 746 0	0 711 0	0 677 0 645	45 0.614	4 0 585	5 0 557	7 0 530	0 505	0 481	0 458	0 436	0416	0 396 (0.377	-	1
Price=(1+1)	1+1)"	rate r= 0.01	= 0.01	1 000	1 010	0 1 020	1 020 1 030	1041	1 051 1	1 062 1	1 072 1 (1 083 1 094	94 1 105	5 1116	6 1 127	7 1 138	1 149	1 161	1 173	1 184	1 196	1 208	1 220		
Amour	it of Constru	Amount of Construction Facilities																	1		ĺ]	
Substat	Substation Number			1	0	0	0	0	0	0	0	0	0	0	00	0	0	0	0	0	0	0	0	-	
Feeder	Feeder Number	(SS/so)) 9		9	°	0	L	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
Feeder	Feeder Length(km)	2.58 (km/Feeder)		15	0	0	0	0	0	0	0	0	0	0 0	0	0 0	0	0	0	0	0	0	0	15	
Cost																									
	ew PTT 240	0 4501 (10 ⁶ Rs/Unit) Acquisition Cost	t) Acquisition Cost	4 5 40	000	000	00.0	000	000	0 00 0	0 00 0	0 00 0 00 0	00 0 00	000 0	000	000	0 00	000	0 00	000	000	000	000	S	
Mamo	DID OT N'MO	2 (Nos/Feeder	(Nos/Feeder) Maintenance	e 016	016	0 16	016	016	0.16	016 0	0.16 0	016 016	6 016	5 016	5 016	016	0.16	0.16	0.16	0.16	0 16	0.16	016	e	
·11IDOTAT	Maintenance Factor	, 3 (%)						-	<u> </u>																
RTU	RCS for RF at	2.976 (10 ⁶ Rs/Unit) Acquisition Cost	t) Acquisition Cost	± 149					┝	┢													╞	-	
etc. at	DCC		(Nos/System) Maintenance	004	0.04	0.04	0.04	0 04 -	0.04	0.04 0	0 04 0	004 004	0.04	4 004	1 0 04	1 0 04	0 04	0.04	0.04	0.04	0 04	0.04	0 04	1	
SS,DC	SS,DC Maintenance Factor	, 3 (%)													 										
	Totol	, , , ,	Current Value	e 7.1	0.2	02	02	02	0.2	02	02 (02 0	02 02	2 02	2 0 2	02	02	02	0.2	02	02	02	02		F
		CUSI	Present Value	5.1	02	02	02	0.2	02	02	0.1 0	01 01	1 01	1 01	1 01	01	01	01	01	01	01	0.1	01	10	
Benefit	it																								
Outage	7,531	(kWh/Feeder/Y)) Current Value	s 02	02	02	0.2	02	02	02	02 0	02 02	2 02	20 2	02	02	02	02	02	02	02	02	02	4	
Loss	55,911	(kWh/SS/Y)	Current Value	e 03	03	03	03	03	03	03	03 (03 03	3 03	3 03	03	03	03	03	03	03	03	03	0.3	6	
Worker	0 12	(10° Rs/SS/Y)	Current Value	s 01	0.1	01	01	01	01	01	01 0	01 01	1 01	101	01	01	10	10	01	01	01	01	01	3	
Tanff Rate	е 5	(Rs/kWh)														 				_					
Outage.	Outage Reduction Rate	0.75																							
Total			Current Value	s 06	90	0 6	0.6	90	90	90	06 (0 9 0	6 06	5 0.6	90 9	90	90	90	90	90	06	06	06	12	
Benefit			Present Vallue	s 06	05	i 05	05	0.5	04	0.4	0.4 (040	4 03	3 03	3 03	03	03	03	03	02	02	0.2	0.2	×	
Return																									
	Danafit Total Cost	otal Cost	Current Value	s] -6.5	04	9 04	04	04	04	04	0.4 (0.4 0.	4 04	1 04	1 04	04	04	04	04	04	04	04	04		
			Present Vallue	e¦ -65	03	03	03	03	03	03	03 (02 03	2 02	2 0 2	2 02	: 02	02	02	02	02	02	01	01	-2	
Retur	Return Accumulation	ation																							
	Banefit - Total Cost	had Cost	Current Value					-51	-4 7	-44	-40	-36 -3:	3 -29	9 -25	5 -2.2	-18	-1 S	-11	-0.7	-04	00	04	0.7		
	T - IFTOILOO	0141 0021	Present Value	-65	-62	-59	-55	-52	-50	-47	-44	-42 -40	0 -3.7	7 -35	5 -33	-31	-29	-2.8	-2 6	-24	-2.3	-2.1	-2.0		

Mytrivana	m:RF Usi	Mytrivanam:RF Using Mobile Communication Cash Flow Analysis	ommunicat	tion C	ash Fl	low A	nalysis		(Money unit:10° Rs)	t:10° F	(5)														
Relative Year	ar			\vdash	_	╞	2		4 5	°		00	6	9	F	1	13	14	1		17 1	18 10			$T_{\alpha+\alpha}$
Calender Year(n)	ear(n)				2004 2	2005	2006 2	5	2008 2009	2	0 2011	[[~]	~	2014	2015	2016	2017	~	- -	-	-	5	- 2	너 Total	_
Discount=1/(1+i)	/(1+i) ⁿ	rati	rate 1= 0 05	-	1 000 0.	0.952 0	0 007 0	864 0.	0.823 0 784	34 0 746	6 0 711	Ľ	-	0 614	0 585		_	1-			-		<u> </u>		dimbar
Price=(1+i)	- -	raté	rate r= 0.01	1	1.000 1	1 010 1	1 020 1	030 1	1.041 1 051	51 1.062	2 1 072	1.083		1 105	1 116										_
Amount of	Construc	Amount of Construction Facilities	S				ł	ĺ											_					5	-
Substation Number	Number					0	0	6	0		0	0		0	F	F	F	6	-		╞	6	0		F
Feeder Number	lber	6 (Nos/SS)			9	-	0	0	0	0	0	0		6	P	0	1	-		, -	, e	, c			
Feeder Length(km)	gth(km)	1.62 (km/Feeder)	der)	-	10	0	6	0	0	0	0	0	6	0	6	0	10	0	, -		,	, =	\bot	Ľ.	
Cost														1		1							,		7
Pole SW	SW.RTI etc	Ξ	Unit) Acquisition	1 1	5 40 0	0 00 0	0 00 0	0 00	0 0 0 0 0 0	000 0	000	000	000	0 00	000	000	000	000	0 00 0	0 00 0	0 00 0	0 0 0 0 00 0	00 0 00	5	F
<u> </u>			(Nos/Feeder) Maintenance	L	0.16 0	0.16 (0 16 0	16 0	016 016	6 016	5 0.16	0.16	016	0.16	0 16	910	0.16	0 16	╇	-l		+-	┿-	╇	-1
_	Maintenance Factor	3 (%)						-		ļ		L		ſ	I	t				+				1.	—
RTU RC	RCS for RF at	2.976 (10° Rs/I	(10 ⁶ Rs/Unit), Acquisition Cost		1.49									ſ	T	ŀ	t		$\left \right $	╞	$\left \right $	$\left \right $	+	F	- T
etc. at	DC	0.5 (Nos/Sys	(Nos/System) Maintenance		0.04 0	0.04 0	0 04 0	04 0	0 04 0 04	4 0.04	1 0 04	0.04	0 04	0 04	0 04	0 04	0.04	0 04	0.04	0.04 0	0.04	0.04 0.04	10.04		
SS,DC Mauri	Maintenance Factor	3 (%)												T	T	T	┢	4-	+	4-	+	╇	+		-
	Total Cost	ost	Current Value	'alue	71	0.2	02	02	020	0 2 0.2	2 02	02	02	02	02	02	02	02	02	0.2	02	020	0	2 11	F
-		100	Present Value	alue	71	02	02	02 (020	2 0.2	2 01	01	10	5	3	Ξ	5	5	5	L	L	Ļ	0]
benetit			i											ĺ		1		1					1	_	٦
Outage		(kWh/Feeder/Y	Y) Current Value		03	10	50	03	03 0	3 03	3 03	03	03	03	03	03	031	0.3	0.3	031 (0.31 0	0.3 0.0	03 03	7	г
	75,369	(kWh/SS/Y)) Current Value		0.4 (04	04 (04	040	4 04	4 04	04	04	04	04	0.4	04	04	1	4	⊥	1	1	×	·
Worker	0 12	(10° Rs/SS/Y)	Current Value		010	01	0.1 (01 (01 0	1 01	01	01	1.0	01	5	10	5	-	┟	╞	+	Ļ	1	╇	-1
Tariff Rate	5	(Rs/kWh)			_				-	┞_				†-	ľ	╞	┢	┢	╉	┢		╞	4-	╇	- -
Outage Reduction Rate	ction Rate	0.75					<u> </u>							_											
Total			Current Value		80	08	0.8	08	080	808	80	08	0.8	0.8	08	08	80	0.8	0.8	8.0	80	0 8 0	ď	8 17	- T -
Benefit			Present Vallue	Ĺ	08	08	07	0.7	070.	0.6 0.6	5 06	06	05	0.5	0.5	0.5	04	04	04					_	
Return						ł		1						1					5	-		-	-		-
Be	Benefit - Total Cost	tal Cost	Current Value		-63	06	90	06	06 0	06 06	90 9	90	90	90	0.6	06	06	06	06	0.6	06	0 9 0	0 61 0	616	r-
		1600 111	Present Vallue		-63	06	0.6	05 (0.5 0	5 05	5 04	04	04	0.4	4	03	5	03	0.3	031	0310	03			- - -
Keturn Accumulation	ccumulat	ion												1	1	1	1	1	$\left\{ \right.$				1		7
Be	Benefit - Total Cost	tal Cost	Current Value			\square	\square	-4.4 -3	8 -3	2] -2(6 -20	-14	-07	-01	05	11	17	23	29	36	42 4	48 5	54 60		
			Present Value		-63	-57	-5.1	-46	-41 -3	6 -32	2.7	-23	-1.9	-15	-12	-08	-05	-0.2	01	04	07 0	1 60	1 14	T_	
								ĺ						1	1	1			- 	-					

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(Table 4.18 Continue)

(Table Srinaga	(Table 4.18 Continue) Srinagar:RF Using Mobi	(Table 4.18 Continue) Srinagar:RF Using Mobile Communication Cash Flow Analysis (Money unit:10 ⁶ Rs)	ication Cas	h Flow	' Anal	lysis (N	Aoney	unit:1)° Rs)	ŀ	ŀ				Ŀ		ļ		ŀ	ŀ	⊦	}		Ľ	
Relative Year	Year			0	1	2			5 6	. 7							14	15		17			_	Total	I OTAJ
Calende	Calender Year(n)			2004	2005	2006	2007	2008 2	2009 20	2010 2011	11 2012	12 2013	3 2014	2015	2016	2017								_	Equip.
Discour	$Discount=1/(1+i)^n$	rate $i = 0.05$	0.05	1.000	0.952	0.907	0.864 0	0.823 0.	0.784 0.7	0.746 0.711	11 0.677	77 0.645	5 0.614	0.585	0.557	0.530	0.505	0.481	0.458	0.436	0.416 0	0.396 0.	0.377	_	
Price=(1+i)	[+])"	rate r= 0.01	0.01	1.000 1.010		1.020	1.030 1	1.041 1.	1.051 1.0	1.062 1.072	72 1.083	33 1.094	4 1.105	1.116	1.127	1.138	1.149	1.161	1.173	1.184	1.196 1	1.208 1.	1.220		
Amoun	t of Constru	Amount of Construction Facilities																		ł	ŀ			Į,	
Substat	Substation Number			1	0	0	0	0	0	0	0	00	0	0	0	0	0	0	0	•	0	•	0		
Feeder	Feeder Number	5 (Nos/SS)		S	0	0	0	0	0	0	0	0 0	0. (0	0	0	0	0	0	0	0	0	0	S	
Feeder	Feeder Length(km)	2.88 (km/Feeder)		14	0	0	0	0.	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0	5	14	
Cost														1	1	_ I			ļ	1	- F	- I		Į,	
,		0.4501 (10° Rs/Unit) Acquisition Cost	Acquisition Cost	4.50	0.00	0.00	0.00	0.00 0	0.00 0.0	0.00 0.00	00.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0	_	2	
Pole	SW,RTU etc.	2	(Nos/Feeder) Maintenance	0.14	0.14	0.14	0.14	0.14 0	0.14 0.1	0.14 0.14	4 0.14	4 0.14	1 0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14 0	0.14	m	
Mount.	Maintenance Factor	3		 	├ ─	┢─	┠─	-	-									• •• ••							
RTU	RCS for RF at	RCS for RF at 2.976 (10° Rs/Unit) Acquisition Cost	Acquisition Cost.	1.49	-			-														_			
etc. at	DCC	0.5 (Nos/System)	(Nos/System) Maintenance	0.04	9.0	0.04	0.04	0.04 0	0.04 0.0	0.04 0.04	0.04	4 0.04	1 0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04 0	0.04		
SS.DC	Maintenance Factor	m					\square																	_	F
			Current Value	6.2	0.2	0.2	0.2	0.2	0.2 0	0.2 0.	0.2 0.2	2 0.2	2 0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	_	_		٦
	Total Cost	Cost	Present Value	6.2	0.2	0.2	0.2	0.1	0.1 0	0.1 0.	0.1 0.1	1 0.1	1.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	∞	
Benefit	t																ľ	ľ	ľ	-	-	ł			
Outage	7,574	(kWh/Feeder/Y) Current Value	Current Value	0.1	0.1	0.1	0.1	0.1	0.1.0	0.1 0.	0.1 0.1	_		0.1	3	0.1	0.1	0.1	1.0	1.0	0.1	\downarrow	_	2	
Loss	21,262	(kWh/SS/Y)	Current Value	0.1	0.1	0.1	0.1	0.1	0.1 0		0.1 0.1	1 0.1	_	0.1	3	0.1		0.1	5	0.1	0.1	\downarrow			
Worker	0.12	(10 ⁶ Rs/SS/Y)	Current Value	0.1	0.1	0.1	0.1	0.1	0.1 0	0.1 0.	0.1 0.1	1 0.1	5	0.1	0.1		0.1		5	5	0.1	0.1	5	<u></u>	
Tariff Rate	5	(Rs/kWh)																							
Outage	Outage Reduction Rate	0.75									_									ļ	ļ	_	_		
Total			Current Value	0.4	4.0	0.4	0.4		0.4	0.4							0.4	0.4	0.4	4.0	0.4			× v	
Benefit			Present Vallue	0.4	0.4	0.3	0.3	0.3	0.3]	0.3	0.3 0.	0.2 0.2	2 0.2	0.2	5	0.2	0.2]	0.2	0.2	0.2	0.2	0.1	110	7	
Return								f	,													ļ	L	Į	
			Current Value	-5.8	0.2	0.2	0.2	0.2	0.2	0.2 0	0.2 0.	0.2 0.2	2 0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	_	<u>۲</u>	
	Benefit - 10tal Cost	OTAL COST	Present Vallue	-5.8	0.2	0.2	0.2	0.2	0.1 0	0.1 0	0.1 0.	0.1 0.1	1 0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	ņ	
Retur.	Return Accumulation	ation									_ L			1	L	L						Ļ	ŝ		
	Danofit T	hatal Cast	Current Value	-5.8	-5.6	-5.4	-5.2					_					3.2	<u>9</u> 9	-2.8	-2.6	-2.4	_	0		
	Benelii - 101al Cust		Present Value	-5.8	-5.6	-5.4	-5.3		-5.0	-4.8	-4.7 -4.6	.6 -4.5	-43	42	-41	40	-3.9	-3.8	-3.8	-3.7	-3.6	3.5	.9.4 1		

4.5 Recommendations

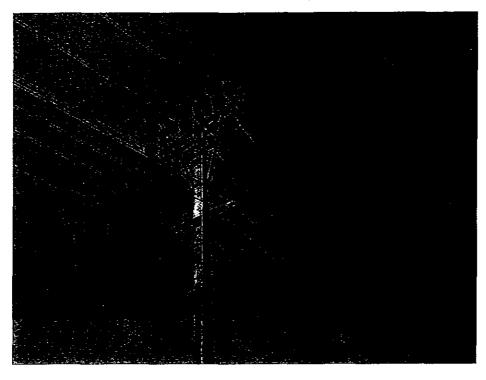
Based on this study, the following is recommended with respect to the introduction of the distribution SCADAsystem.

- Outage period is considerably long, so the fault location function should be introduced. It will result in reduction of outage energy (kWh) and recovery of tariff income.
- Unbalance of feeder load (ampere) is considerable and its improvement will produce many benefits. Hence the load balancing function should be introduced in the first stage of the introduction of the distribution SCADA system.
- The distribution SCADA system may be able to yield many other benefits because the operations on distribution feeder are almost manual.
- The number of isolated sections on feeder should be 2 or 3 from the economical viewpoint.
- As for the communication method, Fiber Optic Cable or Radio Frequency is recommendable. Especially, Fiber Optic Cable has been already laid widely in the study area. RF using mobile telephone line is also recommendable because its infrastructure has been already provided. This RF method should be used in place of Fiber Optic Cable when it is expensive, or this RF might be necessary to be preferred.
- In the introduction of the system to substations on a continuous basis, selection of substations and the order of introduction are very important because the benefits of the introduction vary from substation to substation. Potentially very profitable substations exist in the project area.

Period	Area	Total recovery energy	Number of substations
Phase I	Ranga Reddy	>500,000 kWh/Y	7
rilase 1	Hyderabad	>200,000 kWh/Y	17
Phase II	Ranga Reddy	>200,000 kWh/Y	7
	Hyderabad	>100,000 kWh/Y	15
Phase III	Ranga Reddy	>100,000 kWh/Y	6
	Hyderabad	>50,000 kWh/Y	10
Phase IV	Ranga Reddy	Others	10
	Hyderabad	Others	10
Phase V	Ranga Reddy	Others	5
	Hyderabad	Others	9
	Total		96

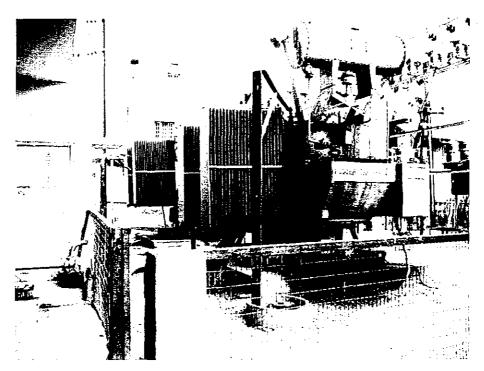
Annextures

- Annex 4.1 Pictures of Some Equipment
- Annex 4.2 Results of Substation and Feeders Survey
- Annex 4.3 Outage Data and Outage Energy
- Annex 4.4 Loss Recovery Energy and Outage Energy

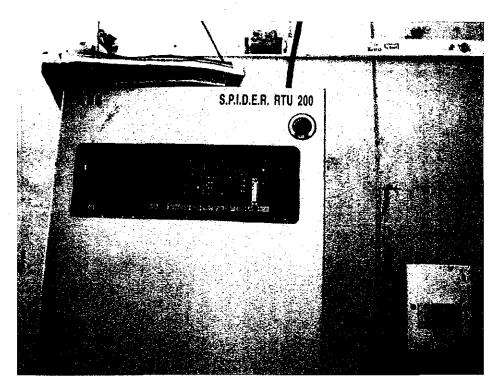


Annex 4.1 Picture of Some Equipment

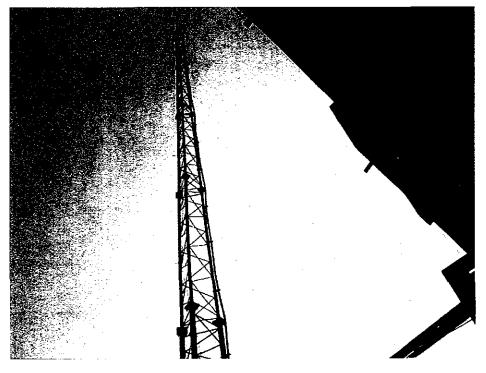
(Feeder AB SW for sectionalizing)



(SS Outlook at Kotapet)



(SS RTU)

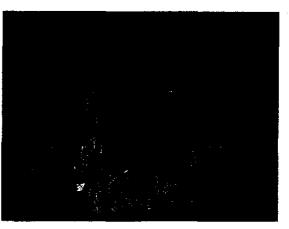


(SS Antenna for SCADA)

ANNEX Photograph



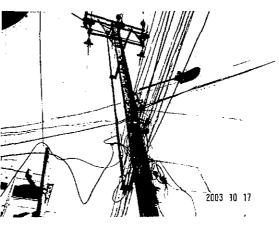
Asif Nagar Cut Point



Asif Nagar Double Feed Point



Asif Nagar Double Feed Point with AB Switch



Asif Nagar AB Switch in Line



Mytrivanam Cable Standing Point

Mytrivanam Double Feed Point



Mytrivanam AB Switch in Line



Mytrivanam Double Feed Point with AB Switch



Vanastlipuram Double Feed Point (Connect)

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Vanastlipuram Fault Point by Tree Falling (22/10/2003)

Annex 4.2 Results of Substation and Feeders Survey

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Annex 4.2 Results of Substation and Feeders Survey

lanj						<u>11kV fe</u>	eder							lt(per n					Nos of	l. <u> </u>
٧о.	Marth, South	Name	No	Data	Max Lossi(A)	1 anath (hm)	Car Cli	spur L	Alter. L	(1)	Interru	ption	(2)	Break	down		(1) + (2	2)	customer	Rema
			140	No			300.34			No	minute	Mieste/No	No	Minute	Minute/No	No	Minute	Minute/No.	customer	I
1	N	Gachibowli(GACH)	4	4	_ 120	36	22	22	4	12	123	10.3	0	0		12	123	10.3		1
	Γ]]] T(Indian lustitute of				-											I			Г
2	N	Information Tcheology)	4	4 3	32	14	6	6	4	1	5	5.0	0	0] 1	5	5.0	1	ļ .
										L		L		L					·	
3	N	Aliabad(ALIA)	7		500	104	15	28	. 0	. 75	260	3.5	0	. 0		75	. 260	3,5		
	I	L		al 2)				<u> </u>	L	L						1	L		<u> </u>	1
4	N	Chandanagar(CHAN)	4		630		16		Q			10.8	2	70		62		11.6		L
5	N	Dommarapochampally(DOMM)	4				0		3	25	180	7,2	0			25		7.2		
6	N	ESCI	3			26	2		0	25	180	7.2	0			25	180	7.2		
7	N	Gundlapochampally(GPPL)	4			52	8		0	47	255	5.4	. 0			47		5.4		
8	Ň	Jeedimetla-1(JEED)	7	7	985	30.5	10	42	10	52	345	6.6	5	290	58.0	57	635	11.1	{	Γ.
9	N	Jeedimetla-2(JEEI)	6			23.2	12		11	43	270	6.3	9	491	54.6	52		14.6		
10	N	Kukatpally(KUKA)	7	6	765	68	18	33	0	38	395	10.4	0	0		38	395	10.4		
11	Ň	Medchal(MEC)	8	8	837	190	33	58	0	157	850	5.4	4	· 185	46.3	161	1,035	6.4		
	[(rur:	al 3)_						· ·	1					1	·	1		
12	N	Medicity(MEDI)	3			40.05	8	12	0	25	135		1	70	70.0	26	205	7.9		
	1	1		13)			_									1 [1
13	N	Charlapally(CHER)	6		770	36	9	22	Ö	4	20	5.0	3	325	108.3	7	345	49.3		
14	N	Gatkesar(GATK)	8		415	113	6		4	10	62	6.2	Ő	0		10		6,2		
15	N	Keesara(KEES)				41	6	14	0				ŏ	ŭ						·
16	N	Malkajgiri(MLKJ)	4			15	6	18	4				2	90		2		45.0	· ·	
17	Ň	Mallapur(MALL)	4			20	2		1			5.0	2	165		ŝ	180	36.0		-
18	N	Moulali(MOUL)	8	. 8		.33	- 8	7	- 0		15	5.0	3	125	41.7	6		23,3		
19	Ň	Nacharam(NARC)	7	7	705	22.5	5	7	5	3	15	5.0	1	65		- 4		20.0		
20	N	NGRI(NGRI)	6			13	11	13	6		176	8.0	1	65	65.0	23		10.5		
21	Ň	Sainikpuri(SAIN)	7		1.080	58	18		0	18	100	5.6	6	385	64.2	24	485	20.2		
22	N	Uppal(UPPA)	7	5	580	34	7		1	15	80	5.3	1	75	75.0	16	155	9.7		
23	S	Kothapet(KOTH)	4				2	50	- 1	25	119	4,8	3	240		28	359	12.8		-
<u></u> 24	S	Katedan(KATE)	5			39.8	- 2		- 5		189	5.3	5		165.6	41		24.8		
25		AP Police Academy(APPA)	3	3	217	43.4	2	12	0		25	5.0	1	50		.41	75	12.5		
26		Champapet(CHAMP)	5		510	41.9	- 2	12	5	65	204	3.1	4	217		69	421	6.1		
				G		l1kV fe	eder					·		t(per m			1 75		Nos of	n
ю.	Norsh, Souch	Name	No	Data	Max Lond(A)	Langth/km)	Sec. SW	spur L	Alter. L		nterrup			Break			1) + (2		customer	Rema
-		0		No				<u> </u>			minute			Minute			Minute			
27	<u>s</u>	Gaganpahad(GAGA)	6	6	620	52.16	. 8	<u>15</u> 74	7	62	739	11.9	4		159.3	66			5,280	
8	S	Hayatnagar(HAYAT)	7		550	72	9	74	1	34	134	3.9	2	85	42,5	36	219	6.1		
9	S	Ibrahimbagh(IBRA)	5	5	500	118	9	26	<u> </u>	41	256	6.2	4	300	75.0	45	556	12.4		
0	S	Mamidipally(MAMI)	4		430	82	1	13	2	20	105	5.3	3	135	45.0	23	240	10.4	6,000	
~	•											1	1) I					10.01	
			(rura									، ا				18	180	10.0	12,344	
	s	NationalPoliceAcademy(NPPA)	5	5	433	35.5	6	32	2	- 13	65	5.0	5	115	23.0	10		1010		
1			5 (rura	5 11)			1							_						
12	S S	NationalPoliceAcademy(NPPA) Shamshabad(SHAM)	5 (rura 5	5 11) 5	433 600	35.5 69.2	6		2	13 29	65 795	5.0	5	115 453	23.0 56.6		1,248	33.7	11,200	
1	S	Shamshabad(SHAM)	5 (rura 5 (rura	5 11) 5	600	69.2	- 9	19	4	29	795	27.4	8	453	56.6	37	1,248	33.7	11,200	
12	S S	Shamshabad(SHAM) Turkayamjal(TURK)	5 (rura 5 (rura 2	5 11) 5	600	69.2 12.3	9	19	4	29	795 1439	27.4	8	453	56.6 45.0	37	1,248 1,484	33.7 70.7	11,200 6,475	
1 2 3 4	S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA)	5 (rura 5 (rura 2 4	5 11) 5	600 240 590	69.2 12.3 79.2	9 	19 7 16	4	29 	795 1439 2052	27.4 72.0 25.3	8	453 451 400	56.6	37 21 87	1,248 1,484 2,452	33.7 70.7 28.2	11,200 6,475 14,025	
1 2 3 4	S S	Shamshabad(SHAM) Turkayamjal(TURK)	5 (rura 5 (rura 2	5 11) 5	600	69.2 12.3	9	19	4	29	795 1439	27.4	8	453	56.6 45.0	37	1,248 1,484	33.7 70.7	11,200 6,475	-
1 2 3 4	S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Bandiaguda(BAND)(132/33/11kV)	5 (rura (rura 2 4 3	5 11) 5 13) 2 4 3	600 240 590 265	69.2 12.3 79.2 30	9 4 19 _3	19 7 <u>16</u> 7	4	29 20 81 53	795 1439 2052 271	27.4 72.0 25.3 5.1	8 1 6 0	453 45 400 0	56.6 45.0 66.7	37 21 87 53	1,248 1,484 2,452 271	33.7 70.7 28.2 5.1	11,200 6,475 14,025	
1 2 3 4	S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Bandiguda(BANDy(132/33/11kV) North Total	5 (rura (rura 2 4 3 121	5 11) 5 13) 2 4 3 105	600 240 590 265 11,548	69.2 12.3 79.2 30	9 4 19 3 228	19 7 16 7 479	4 3 18 2 53	29 20 81 53 638	795 1439 2052 271 4,131	27.4 72.0 25.3 5.1 6.5	8 1 6 0	453 45 400 0 2,401	56.6 45.0 66.7 60.0	37 21 87 53 678	1,248 1,484 2,452 271 6,532	33.7 70.7 28.2 5.1 9.6	11,200 6,475 14,025	
1 2 3 4	S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Bandiaguda(BAND)(132/33/11kV) North Total South Total	5 (rura 2 4 3 121 58	5 11) 5 13) 2 4 3 105 58	600 240 590 265 11,548 6,205	69.2 12.3 79.2 30 1,149 712	9 4 19 3 228 85	19 7 16 7 479 311	4 3 18 2 53 50	29 20 81 53 638 484	795 1439 2052 271 4,131 6,393	27.4 72.0 25.3 5.1 6.5 13.2	8 1 6 0 40 46	453 450 400 0 2,401 3,505	56.6 45.0 66.7 60.0 76.2	37 21 87 53 678 530	1,248 1,484 2,452 271 6,532 9,898	33.7 70.7 28.2 5.1 9.6 18.7	11,200 6,475 14,025	
1 2 3 4	S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Bandiguda(BANDy(132/33/11kV) North Total	5 (rura 2 4 3 121 58	5 11) 5 13) 2 4 3 105 58	600 240 590 265 11,548	69.2 12.3 79.2 30	9 4 19 3 228	19 7 16 7 479	4 3 18 2 53	29 20 81 53 638 484	795 1439 2052 271 4,131	27.4 72.0 25.3 5.1	8 1 6 0 40 46	453 45 400 0 2,401	56.6 45.0 66.7 60.0	37 21 87 53 678 530	1,248 1,484 2,452 271 6,532	33.7 70.7 28.2 5.1 9.6	11,200 6,475 14,025	
1 2 3 4	S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Bandiaguda(BAND)(132/33/11kV) North Total South Total	5 (rura 2 4 3 121 58	5 11) 5 13) 2 4 3 105 58	600 240 590 265 11,548 6,205	69.2 12.3 79.2 30 1,149 712	9 4 19 3 228 85	19 7 16 7 479 311	4 3 18 2 53 50	29 20 81 53 638 484	795 1439 2052 271 4,131 6,393	27.4 72.0 25.3 5.1 6.5 13.2	8 1 6 0 40 46	453 450 400 0 2,401 3,505	56.6 45.0 66.7 60.0 76.2	37 21 87 53 678 530	1,248 1,484 2,452 271 6,532 9,898	33.7 70.7 28.2 5.1 9.6 18.7	11,200 6,475 14,025	
1 2 3 4 5	S S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Bandiaguda(BAND)(132/33/11kV) North Total South Total	5 (rura 2 4 3 121 58	5 11) 5 13) 2 4 3 105 58	600 240 590 265 11,548 6,205 17,753	69.2 12.3 79.2 30 1,149 712 1,861	9 4 19 3 228 85 313	19 7 16 7 479 311	4 3 18 2 53 50	29 20 81 53 638 484	795 1439 2052 271 4,131 6,393	27.4 72.0 25.3 5.1 6.5 13.2	8 1 6 0 40 46	453 450 400 0 2,401 3,505	56.6 45.0 66.7 60.0 76.2	37 21 87 53 678 530	1,248 1,484 2,452 271 6,532 9,898	33.7 70.7 28.2 5.1 9.6 18.7	11,200 6,475 14,025	
1 2 3 4 5	S S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Bandigada(BAND)(132/33/11kV) North Total South Total Gross Total	5 (rura 2 4 3 121 58	5 11) 5 13) 2 4 3 105 58	600 240 590 265 11,548 6,205 17,753	69.2 12.3 79.2 30 1,149 712	9 4 19 3 228 85 313	19 7 16 7 479 311	4 3 18 2 53 50	29 20 81 53 638 484	795 1439 2052 271 4,131 6,393	27.4 72.0 25.3 5.1 6.5 13.2	8 1 6 0 40 46 86	453 450 400 0 2,401 3,505	56.6 45.0 66.7 60.0 76.2 68.7	37 21 87 53 678 530	1,248 1,484 2,452 271 6,532 9,898	33.7 70.7 28.2 5.1 9.6 18.7	11,200 6,475 14,025 5,000	
1 2 3 4 5	S S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Bandigada(BAND)(132/33/11kV) North Total South Total Gross Total	5 (rura 2 4 3 121 58 179	5 11) 5 13) 2 4 3 105 58 163 Data	600 240 590 265 11,548 6,205 17,753	69.2 12.3 79.2 30 1,149 712 1,861 1kV fee	9 4 19 3 228 85 313 xder	19 7 16 7 311 790	4 3 2 53 50 03	29 20 81 53 638 484 1,122	795 1439 2052 271 4,131 6,393	27.4 72.0 25.3 5.1 6.5 13.2 9.4	8 1 6 0 40 46 86 Faul	453 451 400 0 2,401 3,505 5,906	56.6 45.0 66.7 60.0 76.2 68.7	37 21 87 53 678 530 1,208	1,248 1,484 2,452 271 6,532 9,898 16,430	33.7 70.7 28.2 5.1 9.6 18.7 13.6	11,200 6,475 14,025 5,000 Nos of	
1 2 3 4 5	S S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Bandiaguda(BAND)(132/33/11kV) North Total South Total Gross Total feeder	5 (rura 2 4 3 121 58	5 11) 5 13) 2 4 3 105 58 163 163	600 240 590 265 11,548 6,205 17,753	69.2 12.3 79.2 30 1,149 712 1,861 1kV fee	9 4 19 3 228 85 313 xder	19 7 16 7 311 790	4 3 2 53 50 03	29 20 81 53 638 484 1,122	795 1439 2052 271 4,131 6,393 10,524	27.4 72.0 25.3 5.1 6.5 13.2 9.4	8 1 6 0 40 46 86 Faul (2)	453 400 0 2,401 3,505 5,906	56.6 45.0 66.7 66.7 76.2 68.7	37 21 87 53 678 530 1,208	1,248 1,484 2,452 271 6,532 9,898 16,430	33.7 70.7 28.2 5.1 9.6 18.7 13.6	11,200 6,475 14,025 5,000	
1 2 3 4 5	S S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Brndigenda(BAND)(132/23/11kV) North Total South Total Gross Total feeder Area	5 (rura 2 4 3 121 58 179	5 11) 5 13) 2 4 3 105 58 163 Data	600 240 590 265 11,548 6,205 17,753 17,753	69.2 12.3 79.2 30 1,149 712 1,861 1kV fee	9 4 19 3 228 85 313 xder Sec. sw	19 7 16 7 311 790 \$pur L	4 3 18 2 53 50 	29 20 81 53 -638 484 1,122 	795 1439 2052 271 4,131 6,393 10,524	27.4 72.0 25.3 5.1 6.5 13.2 9.4	8 1 6 0 40 46 86 Faul (2) No	453 451 400 0 2,401 3,505 5,906 (per m Break d Minute	56.6 45.0 66.7 66.7 76.2 68.7 0wn 0wn	37 21 87 53 678 530 1,208	1,248 1,484 2,452 271 6,532 9,898 16,430 1) + (2) Minute	33.7 70.7 28.2 5.1 9.6 18.7 13.6	11,200 6,475 14,025 5,000 Nos of	-
1 2 3 4 5	S S S	Shamshabad(SHAM) Turkayamjal(TURK) Vanastalipuram(VANA) Bandiaguda(BAND)(132/33/11kV) North Total South Total Gross Total feeder	5 (rura 2 4 3 121 58 179	5 11) 5 13) 2 4 3 105 58 163 Data	600 240 590 265 11,548 6,205 17,753	69.2 12.3 79.2 30 1,149 712 1,861 1kV fee	9 4 19 3 228 85 313 xder	19 7 16 7 311 790	4 3 2 53 50 03	29 20 81 53 638 484 1,122 (1) Ir No 5.8	795 1439 2052 271 4,131 6,393 10,524	27.4 72.0 25.3 5.1 6.5 13.2 9.4	8 1 6 0 40 46 86 86 (2) No 0.6	453 45(400 0 2,401 3,505 5,906	56.6 45.0 66.7 66.7 76.2 68.7	37 21 87 53 530 1,208 (No 5,7	1,248 1,484 2,452 271 6,532 9,898 16,430	33.7 70.7 28.2 5.1 <u>9.6</u> 18.7 13.6	11,200 6,475 14,025 5,000 Nos of	

List of Substations Covered by SCADA

Hyderabad City

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 | | 110 | | | 1.0 |
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| 1 | N | Gunrock(132/33)(City-V) | 1
 | 1
 | 130 | 7.7
 |
 | 8 | | . 5 | 42
 | | 0 | 0 | | 5 | 42
 | 8.4 | | |
| - 1 | | Gunrock(132/33)(City-VI) | 7
 | 5
 | 610 | 65.41
 | 16
 | 37 | 16 | 41 | 240
 | 5.9 | 6 | 205 | 34.2 | 47 | 445
 | 9.5 | | |
| | | Jubilee Hills(132/33)(City-IV) | 5
 | 5 5
 | 200 | 17.76
 | 3
 | 19 | 5 | 11 | 12
 | 1.1 | 0 | 0 | | 11 | 12
 | 1.1 | | |
| 2 | N | Jubilee Hills (132/33) | 3
 |
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 | | | |
| 3 | N | Air Port(City-JV) | 6
 |
 | 700 | 15.46
 | 6
 | 23 | 1 | 6 | 67
 | 11.2 | 1 | 60 | 60.0 | 7 | 127
 | 18.1 | | |
| 4 | | Allwyn SS(City-IV) | ا
 |
 | 470 |
 | 14
 | | 10 | 10 |
 | | 4 | 207 | 51.8 | 14 | 247
 | 17,6 | | ND(1feed |
| 4 | N | | 8
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 | | - | UD(11000 |
| 5 | N | Banjara Hills Road No.12(City-I) | 1
 | . 1
 | 125 | 4,45
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 | | 3 | 371 | 123.7 | 11 | 421
 | 38.3 | | |
| J | 14 | Banjara Hills Road No.12(City-I | 5
 | 3
 | 245 | 9,24
 | 6
 | 12 | 3 | 17 | 128
 | 7.5 | 8 | 815 | 101.9 | 25 | 943
 | 37.7 | | ND(2feed |
| 6 | N | Banjara Hills Read No.2(City-IV | 6
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| 8 | N | Bowenpally(City-VI) | 6
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 | 7.7 | | *1 |
| 9 | N | Clock Tower(City-V) | 4
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 | 755 | 8.5
 | 10
 | 18 | 5 | 13 | 107
 | 8.2 | I | 37 | 37.0 | | 144
 | 10.3 | | Excepti |
| 10 | N | Film Nagar(City-IV) | 6
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 | 260 | 12.88
 | 5
 | 20 | 10 | 8 | 49
 | 6.1 | 6 | 1 0 | | 8 | 49
 | 6.1 | | |
| 11 | N | Grennland SS(City-IV) | 4
 | 4
 | 780 | 10.62
 | 8
 | 15 | 2 | 15 | 73
 | 4.9 | 0 | Ó | | 15 | 73
 | 4.9 | | |
| | | H.A.L(City-VI) | 5
 | 5 5
 | 460 | 16.5
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| 13 | N | H.M.T(City-VI) | 3
 | _
 | | 8.74
 | 4
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	North,		F	1		11kV fc	eder							ult(per m					Nos of	Ε.
No.	Central, South	Name	No	Data	Max Load(A)	Longib (km)	Sec. SW	spur L	Aiter. L		Interru			Break			(1) + (2)		customer	Remark
		Falaknuma(City-III)	h	No	500	20.8		- 23	12	No 27		Misste/No 8.1	No	Minute	Mingle/No	No 27	Minute 219			<u> </u>
49	s	Falaknuma		1-7	- 04	20.0	<u> </u>	2.5	14	40	<u> 215</u>	- 0.1	- 0	°	<u>+</u>		219			<u> </u>
		Kanchanbagh(City-III)		<u>+</u>	55			- 7	5	· · · ·	19	6.3	0	0	-		19	6.3		
50	S	Kanchanbagh(City-VIII)	5	4	205	7.41		10			29		Ď			5	29			<u> </u>
		Karwan(City-VII)	1	1	140	10.15	1	7					3	177	59.0	7				
51	5	Karwan(City-IX)	3	3	500	16.52	5	22					6			23	464	20.2		
52	S	Khilwath(City-III)	5	5	770	26.54	5	25	12			5.5	0	0		28		5.5	_	14 Tonle argins
53	s	Malakpet(City-II)	1	I	150	4.13	2	7		6	147	24,5	0	0		6	147	24,5		
	3	Malakpet(City-VIII)	7	7	810	21.1	19	25			631	25.2	1	2,911	2,911	26	3,542	136.2		
- 54		Miralam(City-III)	7	7		39.14	6	33					0	0		45		6.8		
_55	S	Moosarambagh(City-VIII)	6	6		20,2	6	34	7	10	55		4	385	96.3	14	448			_
56	s	Osmania Hospital(City-III)	1	1	20	2.49		2			5		0	0		1	5	5.0		
	-	Osmania Hospital(City-IX)	7	5	490	11.93	6	25					2	85		11		10.8		ND(2feeder)
57		Sararjung(City-III)	7	· · ·	1,040	24.59		22					1	5	5.0	35		9.5	-	*2
58		Santhoshnagar(City-III)	2	~		11.59	3	13					0	0		14		11,6		
		Santhoshnagar(City-VIII)	5	5	660	15.72	7	22					0	0		24		9.9		
59		Sectharam bagh(City-VII)	2	2		9.42	2	11		3			Q	0		3	14	4.7		
		Seetharam bagh(City-IX)	4	4	460		7	27		_			1	53		24		10.5		
60		Sultan Bazar(City-II)	1	1	140	2,91	1	.5		. 1			- 0	0		1	8			Except UG
		Sultan Bazar(City-IX)	3	3			18	19	12				0	0		17				
61	S	CPRF(City-III)	6		566	23.75				22	144	6.5	. 1	35	35.0	23	179	7.8		*2
		Total	367	6																
		North Total	178	146	15.494	655.3	219	692	239	522	4.154	8.0	81	6.911	85,3	588	10,925	18.6		1
		Central Total				406.8	116	395	108		3.963		34	1.793	52,7		5.046			
		South Total			11.111	363.4	132	452	160		3.604		25	4.234			7,838			1
		Gross Total				1425	467	1539	507		11.721			12,938			23,809			
Avers	000 000	feeder	507		33,100	1740	-107	1,,,,/		1,200	41,744	<u> </u>	140	12,710	74,4	1,347	23,007			
TYCI1	i <u>re pe</u> i					11kV fe	der					·	Fa	ult(per mo						
		Area	<u> </u>	Data						(1) 1	nterrut	tion (Break c			1) + (2)	1	Nos of	
			No	No	Max Load(A)	Length(kur)	Sec. SW	spur L	Alter. L	No		Minute/No.		Minute		No	Minute		customer	
		North		140	100.3	4.7	1.6	4,9	1.7	3.6		7,6		49.1	91.2	4,2	78.1	18,7		
		Central			100.5	5.0	1.0	4.9	1.7	<u>3.5</u>	42.9	12,1		23.1	60.9	3.7	62.2	17,0		
		South			116.1													17.8		
					104.4	3.9	1.5	5.0	1.8	4.3		8.8		43.5	163.8	4.6	81.5			
		Gross late of 1 feeder is not availa	ليبب		*2:Man	4.5	1.5	4.9	1.6	3.8	34,5	9.2	0.4	40.3	95.6	4,1	74.7	18,0		

*1: Length data of 1 feeder is not available. *2:Map data of feeder is not available.

Ranga Reddy North

		Nos of	Мах	Length	Nos of	Nos of	Nos of										
Substation Name	Name of Feeder		Load (A)		sect-ion	spur	alternate	(1) Iı	nterrup	otion	(2)]	Break d	down	(l) + (2)	Remarks
	•	incue:		(xin)	SW	line	line	No	Minute	Minetz No	No	Minute	Ninase/No	No	Minute	Winste/No	
	University, ALIND		30	1	2	2	1	3	15	5.0				3	15		ł
Gachibowli	LINGGAMPALLY	4	50	10	8	8	1	6	18	3.0				6	18		í _
(5MVA ×2)	KOTTAGUDA		32	20	10	10	1	3	90	30.0				3	90	30.0	
	GACHIBOWLI(KALAGAYTHY)		8	5	2	_2_	1	ពរើ	nìl								ļ
	STADIUM		11	3	. 1.	1.	2							0			<u> </u>
of Information Tchnology) (8MVA	WIZCRAFT	4	Open	2	0	0	0							0	0		
Tchnology) (8MVA New)	SPORT VILLAGE		3	1	0 ·	0	0							0	0		ł
NCW)	SPORTVELLAGE EXTERNAL LIGHTING		18	10	5	5	2	1	5	5.0					5	5.0	
	Ravileela	7	20	4	0	0	0	0	0	2.0				0	0	2.0	May/03
	Thurkapally		160	35	5	7	0	25 15	40	3.0 2.7				25 15	75 40		<u>Maγ/03</u> Maγ/03
Aliabad(ALIA)	Bommarajpet		120	20	4	7	0	15	40				-	15	-40		
8MVAX2	Aliabad		80	20	3		0		70	5.0 3.5							May/03
3.15MVA	Jaganguda		120	25	3	7	0	20		2.2	<u> </u>			20	70	3.3	May/03
	H.B.L		70	5	0	0	0	0	0					0	0		May/03
	Survanshi		150	2	0		0	0	0	0.7				0	0	0.7	May/03
Chandanagar(CH	Taranagar		150	18	5	6	0	15	145	9.7				15	145		•
AN) 8MVA	Chandanagar	4	130	10	3	4	0	20	205	10.3				20		10.3	May/03
3.15MVA	Hifeezpet(S.B)		160	22	5	7	0	15	145	9.7				15	145		May/03
	Miyapur		190	25	3	6	0	10	155	15.5	2	70	35.0	12		18.8	May/03
Dommarapocham	Bowrampet		115	20	0	7	1	2	10	5.0				2	10	_	
- pally (DOMM)	Satyam Computers(S.B)	4	115	50	0	6	0	2	70	35.0				2		35.0	l
5MVAX2	Duridigal IDA	· ·	117	10	0	5	1	12	40	3.3		i .		12	40		ļ
	Gagillapur	Į	117	25	0	8	1	9	60	6.7				9	60		l
	Gachibouli			10	0	4	0	10	80	8.0				10	80	8.0	
ESCI 3MVA	Nanakramguda	3		15	2	5	0	15	100	6.7	<u> </u>	ļ			100	6.7	L
	E.S.C.I	1	L		0	0	0	0	0	L				0	0		L

		Nos of feeder	Max Load(A)	Length (km)	sect-ion		Nos of					(per m					
Substation Name	Name of Feeder					spur	alternate	(1) Iı	iterrup	otion	(2) Break			فسسي	l) + (2)	Remarks
		ICEUCI	Disc(A)	(xiii)	SW	line	line	No	Minute	Minels/No	No	Minute	Minete/No.	No	Minute		
Gundlapocham-	IDA			4	1	3	0	2	15	7.5				2	15	_	
	Gundla Pochampally(S.B)	4		25	3	5	0	10	45	4.5				10			
BMVA	Mysammaguda	1		8	2	7	0	15	75	5.0				15			
	Doollapally			15	2	4	0	20	120	6.0				20			
	Phase V		130	3.2	1	6	2	_ 5	25	5.0				5			
,	Vicchow		180	6.3	2	3	2	_ 12	75	6.3	1	30	30.0	13			May
codimetla-1(JEED)	SudershanDrugs		165	3.1	1	5	1	2	10	5.0				2			
MVAX3	Phase I	7	175	4.9	2	8	1	8	65	8.1				8		Impute Jumark 15 7.5 4.5 4.5 75 5.0 120 6.0 25 5.0 105 8.1 10 5.0 105 8.1 105 8.1 140 10.8 155 15.5 126 18.0 135 22.5 40 8.0 175 14.6 170 17.0 95 15.8 155 12.9 M 155 50 16.7 70 14.0 90 15.0 140 14.0 45 7.5 40 13.3 50 4.5 70 4.7 250 7.1	
	Subhashnagar		120	4.9	1	8	1	12	90	7.5	1	50	50.0	13			
	Shapumagar		140	5.3	1	7	2	8	40	5.0	2	115	57.5	10			May
	Phase II		75	2.8	2	5	1	5	40	8.0	1	95	95.0	6			May
Jeedimetla-2	Gajularamaram	6	130	3.9	2	3	1	5	35	7.0	2	91	45.5	7	126		May
	Kompally		90	2.1	1	3	1	5	40	8.0				5			
	Surgaram		140	6.5	1	8	1	10	75	7.5	2	100	50.0	12			
(JEEI) 8MVAX2	Phase III		80	2.7	3	5	3	8	40	5.0	2	130	65.0	10	170	17.0	May
	Phase V		100	2.8	2	3	2	5	30	6.0	1	65	65.0	6			
	Phase IV]	190	5.2	3	6	3	10	50	5.0	2	105	52.5	12			May
	Travels Feeder		100	3	2	5	0	3	50	16.7				3			
	Hydernagar	1	140	8	3	6	0	5	70	14.0				5			
Kukatpally(KUK	Air Force			4	2	6	0	6	90	15.0				6	90	15,0	
	Venkateshwara	7	180	20	5	8	0	10	140	14.0				10	140	14.0	
A)	Bhagyanagar	1	120	10	3	5	0	6	45	7.5				12 155 12.9 3 50 16.7 5 70 14.0 6 90 15.0 10 140 14.0 6 45 7.5			
	INTUCF	1	130	17	2	4	0	3	40	13.3				3	40	13.3	
	КРНВ	1	95	10	3	5	0	11	50	4.5				11	50	4.5	
	Yellampet	1	83	30	3	7	0	15	70	4.7		[15	70	4.7	
	Ravalkole	1	150	35	7	12	0	35	250	7.1				35	250	7.1	
	IDA Medchal II(S.B)	1	125	15	3	5	0	15	60	4.0	2	95	47.5	17	155	9.1	May
Medchal(MEC)	Rural Medchal	1	70	25	3	7	0	25	75	3.0				25	75	3.0	
5MVAX2	IDA Medchal I	8	125	20	5	7	0	12	60	5.0	2	90	45.0	14	150	10.7	May
	kandlakoya	1	185	45	9	15	0	35	270	7.7				35	270	7.7	
	Medchal Town	1	75	15	3	5	0	20	65	3.3			[]	20	65	3.3	
	Srinath Spinning Mills	1	24	5	0	ō	0	0	0		-			Ö	Ó		

Ranga Reddy Nort								<u> </u>	-		Fault	(per m	(anth)			···· *	Г <u> </u>
0.1	N (Dat	Nos of	Max	Length (km)	Nos of sect-ion		Nos of	01	nterru	ntion		Break		-7	1) + (2	<u></u>	
Substation Name	Name of Feeder	feeder	Load(A)		SW SECT-HOM	spur line	alternate line	No	Minute		No	r	Missie/No	No	Minute	ſ	Remarks
Medicity(MEDI)	Pudur			25	5	7	0	15	75	5.0	1	70	70.0	16	145	9.1	May
5MVA,1.6MVA	Raj Bollaram] 3		15_	3	5	0	10	60	6.0_				10	60	6.0	
JMVA,1.0MVA	Medicity	1		0.05	0	0	0	0	0					0	0		
	ECIL		50	_ 6	2	2	0	0	0		1	115	115.0	1	115	115.0	
	IDA Phase-I	_ :	70	4	1	3	0	0	0_		0	0		0	0		L
Charlapally(CHER)	IDA Phase-II	6	160	5	1	4	0	2	10	5.0	0	0		2	10		
Chanapany(Crick)	Krupp] '	190	7	2	4	0	1	5	5.0	0	0		1	5	5.0	
	Rampally		180	8	2	5	0	0	0		2	210	105.0	2	210	105.0	
	Nagaram	1	120	6	1	4	0	1	5	5.0	0	0		1	5	5.0	
	Ghatkesar		120	15	1	5	0	2	7	3.5	0	0		2	7	3.5	
	Keesara							-									
	Edulabad		80	25	1	8	1	2	10	5.0	0	0		2	10	5.0	
	r(GATK) Edulabad 80 Aushapur 8 Medipally 70	110	30	2	10	1	1	5	5.0	0	0		1	- 5	5.0		
Gatkesar(GATK)	Medipally	1 8	70	25	2	8	1	2	10	5.0	0	0		2	10	5 5.0 7 3.5 5.0 5.0 5.0 10.0 10.0	
	Syndicate	1	20					1	10	10.0	0	0		1	10	10.0	
	HPCL	1	10	10	0	0	0	2	20	10.0	0	0		2	20	10.0	
	NTPC	1	5	8	0	0	1				0	0		0	0		
	Cheral		170	18	2	5	0	0	0		0	0		Û	0		
Keesara(KEES)	Ankireddinally	3	70	8	2	4	0	Ū,	Ō		0	0		Ō			
	Keesara	1	120	15	2	5	0	0	0		0	0		0			_
	Anandbagh		120	3	1	5	1	0	0		1	55	55.0	1	55	55.0	
Malkajgiri(MLKJ		1 . !	220	3	2	4	1	0	0		0	0		0			
	M.K. Nagar	4	110	2		3	1	0	0		1	35	35.0	1	35	35.0	
	Suryanagar	1 1	140	-7	3	6	1	- Õ	0		0	0		- 0	0	9.1 6.0 115.0 5.0 5.0 5.0 5.0 5.0 5.0 10.0 10	- <u> </u>
	Mallapur Village		100	8	2	3	1	3	15	5.0	2	165	82.5	5		36.0	
	IDA Phase-II	1.1	80	-4		0	0	0	0		0	0		0 0 0 1 55 55 0 0 5 5 180 36 0 0 0 0 5 0 0 0 0 0 0 0 0 0 0			
	BEL	4	105	3	0	0	0	0	- Ŭ		ö	0			-		- <u></u>
1	A.P. Food	i i	30	5	0 I	- ŭ	0	0	0		0	0		0	0		

		Nos of	Max	1	Nos of	Nos of	Nos of											
Substation Name	Name of Feeder	feeder	Max Load(A)	Length (km)	sect-ion	spur	alternate	(1) I	nterru	ption	(2)	Break	down	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2)	Remarks		
		[lecuer	LUAU(A)	(****)	sw	line	line	No	Minute	Minut.No	No	Minute	Minute/No	No	Minute	Missic/No		
	FBP		10	2	0	0	0	1	5	5.0	1	45	45.0		50	25.0		
	HCL		180	3	0	0	0	0	0		0	0		0	0			
	HMT]	40	3	0	0	0	0	0		0	0		0	0			
Moulali(MOUL)	Malkajgiri	- 8	180	7	2	3		1	5_	5.0					5	5.0		
	Meerpet] °	130	4	2	0	0	0	0		0	0		0				
1	Mirjalguda		130	7	2	2	0	1	5	5.0	2	80	40.0	3	85	28.3		
	Moula-Ali	1	140	4	2	2	0	0	0		0	0		0	0			
	Spectra	7 1	130	3	0	0	0	0	0		0	0		0	0			
	S.R. Feeder	7	130	3	0	5	2	0	0		0	0		0	0			
	Multisteel		30	4	0	1	1				1	65	65.0	1	65	65.0		
	Tungabhadra		220	4	3	4	1	0	0		0	0		0	0			
Nacharam(NARC	IPM		120	3.5	1	2	1	0	0		0	0		0	0			
l l	Laxmi Starch		150	5	1	4	0	3	15	5.0	0	0		3	15	5.0		
	NILE	7	45	2	0	0	0	0	0		0	0		0	0	25.0 5.0 28.3 65.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 80.0 5.0 10.0	,	
	India Extruction	1	10	1	0	0	0	0	0	—	0	0		0	0			
	Habsiguda		170	3	2	5	1	2	10	5.0	0	0	- 1	2	10	5.0		
	HMT	7	210	4	3	5	1	3	13	4.3	1	65	65.0	4	2 10 5	19.5		
	Kalyanpuri	1 .	130	1	2	1	1	5	30	6.0	0	0		5	30	6.0		
NGRI(NGRI)	NGRI	6	40	1			1	4	23	5.8	0	0		4	23	5.8		
	Penguin	1 1	20	2	1		1	1	65	65.0	0	0		I	65	65.0		
	S.O.I	1 1	160	2	3	2	1	7	35	5.0	0	0		7	35	5.0		
	ASRAO Nagar		200	5	3	4	0	0	0		0	0	_	0	- 0			
	Kamalanagar	1 1	100	3	1	2	0	0	0		1	80	80.0	1	80	80.0		
	Kapra	7 /	110	10	2	4	0	3	15	5.0	-			3	15	5.0		
ainikpuri(SAIN)	Kushaiguda	7	170	5	2	5	0	4	20	5.0	1	30	30.0	5	50	10.0		
	Neredmet	1 1	180	5	3	4	0	6	30	5.0				6	30	5.0		
	Sainikpuri	1	180	5	3	5	0							0	0			
	Yapral	7 ľ	140	25	4	8	0	5	35	7.0	4	275	68.8	- 9	310	34.4		

Ranga Reddy North

											Fault	(per m	onth)				
Substation Name	Name of Feeder	Nos of	Max	Length		Nos of		(1) Is	nterrup	otion	(2)]	Break	down	(1) + (2	2)	D
Substation Name	Name of Feeder	feeder	Load(A)	(km)	sect-ion SW	spur line	alternate line	No	Minute	Mina e /No	No	Minute	MinatelNo	No	Minute	McImate, No.	Remarks
	Boduppal		120	6	2	4	1	7	35	5.0	0	0		_ 7	35	5.0	
	Doordarshan									•				0	0		
	Indi Ghatkesar		130	18	3	4	0	3	15	5.0	1	75	75.0	4	90	22.5	
Uppal(UPPA)	Nav Bharath	7	180	4	1	3	0	2	15	7.5	0	0		2	15	7.5	
	Ramanthapur	1												0	0		
	Uppal]	50	2	1	3	0	2	10	5.0	0	0		2	10	5.0	
l	Gangappa]	100	4	0	3	0	1	5	5.0	0	0		1	5	5.0	

Ranga Reddy South

	· · ·				Nos of	Nos of	Nos of				Faul	(per m	onth)				
Substation Name	Name of Feeder	Nos of	Max	Length(sect-ion	Spur	alternate	(1) I	nterru	otion	(2)	Break	lown	(1) + (2	2)	Remarks
		feeder	Load(A)	km)	SW	line	line	No	Minute	Mines:/No	No	Minute	Manic/No	No	Minute	Minute/He	
	Kamalangar		85	10.54	0	13	0	7	29	4.1				. 7	29	4.1	2ways
Kothapet(Mixed)(Stoornagar	4	170	16.56	1	12	0	16	52	3.3	3	240	80.0	19	292	15,4	
8MVA×2)	Stadium(old Kothapet)	1 *	75	4.35	0	0	0	1	35	35.0]		1	35	35.0	Kothapet to new SS
	Huda Complex		40	4.86	1	25	1	1	3	3.0				1	3	240	2ways
	Katedan 1		170	6.2	0	5	1	5	30	6.0				5	30		
Katedan(Industry)	Katedan 2	. :	160	4.3	1	3	1	7	35	5.0	1	90	90.0	8			too many
(8MVAx2)	Balapur	5	220	17,5	4	4	1	12	62	5.2	4	738	184.5	16	800	50.0	too many
(ONIVAX2)	Katedan 3		160	7,7	1	5	1	6	30	5.0				6	- 30	5.0	
	Katedan 4		170	4.1	0	4	1	6	32	5.3				6	32	5.3	
AP Police	AP Police Academy		15	0,4									1	0	0		
Academy(Himayar	Himayar Sagar	3	22	12	1	3	0	3	15	5.0				3	15		
Sagar)(5MVA×1)	Azz Nagar		180	31	1	9	0	2	10	5.0	1	50	50.0	3	60	20,0	
	Kharmanghat		130	4.8	. 1	.5	1	13	60	4.6	0	0		13	60	_	
Champapet(8MV	Champapet		80	3,6	1	2	1	7	29	4.1	0	0		7	29	4.1	
Ax2)	Sulthanvallua	5	40	3.3	. 0	1	. 1	2	14	7.0	1	67	67.0	3	81	27.0	
MX2)	Meerpat		150	13.7	3	5	1	17	91	5.4	2	105	52.5	19	196	10.3	
	Balapur		110	16.5	2	6	1	26	10	0.4	1	45	45.0	27	55	2.0	
	NPA(55mm2, 172A)		40	4.15	1	1	1	0	0		1	355	355.0	1	355	355.0	April data
Gaganpahad	Gagan Pahad(ditto)		150	12,36	2	3	1	15	515	34,3	0	0		15	515	34.3	April data
(GAGA)	Jai Bhawani(ditto)	6	120	5.2	0	2	1	4	25	6.3	.0	0		4	. 25	6.3	April data
(GAGA) 8MVAX2	Manage(ditto)	0	140	8.35	1	3 '	2	18	90	5.0	1	38	38.0	19	128	6.7	April data
SMVAA2	Ralendra Nagar(ditto)	 ;	80	13.05	2	3	1	24	89	3.7	2	244	122.0	26	333	12.8	April data
	Shiva Shathi(ditto)		90	9.05	2	3	1	1	20	20.0	0	0		1	20	20.0	April data
	L.B. Nagar		45	9	1	10	0	5	21	4.2				5	21	4.2	
	Mansurabad		115	7	3	12	0	6	22	3.7				6	22	3.7	
	MothfrDairy		120	17	1	15	0	5	19	3.8				5	19	3.8	
Hyath Nagar(8MVA×3)	AutoNagar, HighCourtColony	7	120	10	1	12	0	7	27	3.9	1	45	45.0	8	72	9.0	
in a partoin travel	Hyat Nagar		80	12	2	16	1	3	13	4.3				3	13	4.3	
	A.I.R.		10	7	0	1	0	3	11	3.7				3	11	3.7	
	SERIER	1	60	10	1	8	0	5	21	4,2	1	40	40.0	6	61	10,2	

				_	Nos of	Nos of	Nos of				Fault	(per m	onth)				
Substation Name	Name of Feeder	Nos of	Max	Length(sect-ion	Spur	alternate	(1) h	nterruj	ption	(2)]	Break	down	(1) + (2	2)	Remarks
		feeder	Load(A)	km)	SW	line	line	No	Misute	Hinte No.	No	Minute	Minsk/No	No	Minute	Min escitte	
	New Military		40	8	2	2	0	5	40	8.0				5	40	8.0	
lbrahimbagh(8M	Osman Sagar	1	160	28	2	5	0	9	95	10.6	2	75	37.5	11	170	15.5	
VAx2)	Military I	5	130	35	3	8	0	14	46	3.3	1	40	40.0	15	86	5.7	
VAX2)	Military II		70	15	1	2	0	_1	10	10.0	1	185	185.0	2	195	97.5	
	Pedda Mangalaran		100	32	1	9	0	_12	65	5.4	0	0		12	65	5,4	
	Errakunta(34mm2, 150A)		120	23	0	4	1	_6	35	5.8	0	0		6	35	5.8	April data
Mamidipally(MA	Pahachisharey(ditto)	4	125	27	0	4	0	4	20	5.0	1	40	40.0	5	60	12,0	April data
MI) 5MVAX2	Thukkuguda(ditto)	4	180	28	1	5	1	_ 9	45	5.0	2_	95	47.5	11	140	12.7	April data
	Catalytic(ditto)		5	4	0	0	0	1	5	5.0	0	0		1	5	5.0	April data
	Sastri Puram(55m2)		53	10	1	10	0	_5	20	4.0	1	30	30.0	6	50	8.3	April data
NationalPoliceAc	Uppar Pally(ditto)		175	11	2	11	1	4	25	6.3	1	20	20.0	5	45	9.0	April data
demy(NPPA)5M	Shivarampally(ditto)	5	134	8	3	6	1	2	10	5.0	2	45	22.5	4	55	13.8	April data
VAX2	NPA(ditto)		29	0.5	0	0	0	_0	0		0	0		0	0		April data
	Kattadan(ditto)		42	6	0	5	0	2	10	5.0	1	20	20.0	3	30	10,0	April data
	OmJaiBhavani(34mm2)		60	12,5	1	2	1	3	95	31.7	2	90	45.0	5	185	37.0	April data
Shamshabad	Shamshabad(ditto)		120	10	3	4	1	12	335	27.9	1	15	15.0	13	350	26.9	April data
(SHAM)	Narkuda(diito)	5	200	18.5	2	5	0	4	175	43.8	2	213	106.5	6	388	64.7	April data
SMVAX2	Raikunta(ditto)		110	16.2	1	5	1	5	90	18.0	2	115	57.5	7	205	29.3	April data
-	HamcedullaNagar(diitto)		110	12	2	3	1	5	100	20.0	1	20	20.0	6	120	20.0	April data
Furkayamjal(TU	Turka Yanjal(55mm2)	2	120	5.8	2	3	2	8	864	108.0	1	45	45.0	9	909	101.0	April data
RK)(5+3.5)MVA	Manneguda(55mm2)	2	120	6.5	2	4	1	12	575	47.9	0	0		12	575	47.9	April data
Vanant-1	Vanasthalipuram(55mm2)		140	9.7	4	6	4	12	329	27.4	1	20	20.0	13	349	26.8	April data
Vanastalipuram VANA)	NGO's(55mm2)	4	170	15,5	4	2	3	11	203	18.5	0	0		11	203	18.5	April data
MVAX2	Injarpoor(S5mm2)	-	170	38.6	7	3	5	41	945	23.0	3	275	91.7	44	####	27,7	April data
	Bairamlaguda(55mm2)		110	15.4	4	5	6	17	575	33.8	2	105	52.5	19	680	35.8	April data
	Nagole(55mm2)		150	23.5	3	5	1	22	146	6.6	0	0		22	146	66	mini75A,A
Bandlaguda(BAND		ļ						~2	1-10	0.0				- 22	170	0.0	il data
132/33/11kV)	Alkapuri(55mm2)	3	100	4.5	0	2 .	1	21	107	5.1	0	0		21	107	5.1	mini60A,A il data
MVAX1	GS1(55mm2)	.	15	2	0	0	0	10	18	1.8	0	0		. 10	18	1.8	mini15A,A il data

Annex 4.2 Results of Substation and Feeders Survey

			Max	Length	Nos of sectio-	Nos of	Nos of					ult(per :)			
St	obstation Name	Name of Feeder	Load (A)			spur line	alternate	(1)	Interru	ption	(2) E	Break c	lown		(1) + (2)	Remarks
_			.,	ĹĹ	S₩		line	No	Minute	Minute/No	No	Misute	M 1440 (740	No	Minute	Minute/No	
1	ALLWYN (City-	1 Industrial Estate	80	2.1	0	1	1	2	9	4.5	0	0		2	<u> </u>	4.5	May/03
	IV) 8MVAX2	2 Crown Carting	10	3.6	5	3	2	1	2	2	0	0		1	. 2	- 2	May/03
		3 IOL	140	2.38	1	5	3	1	6	6	0	0		1	6	6	May/03
		4 Motinagar	80	2.64	3	4	3	0	0		0	0		0	0		May/03
	[5 ESI	20	2,24	2	2	3	5	18	3.6	3	147	49	8	165	20.625	May/03
	1	6 Sanathnagar	130	3.18	2	6	6	1	5	5	1	60	60	2	65	32.5	May/03
		7 Tele Exchange	10	0.47	1	0	0	0	0		0	0		0	0		May/03
		8 Allwyn Compressor	10					0	0		0	0		0	0		May/03
			-	·												1	-
2	AIRPORT	1 Air port	80	1.4	1	2	0	2	10	5	0	0		2	10	5	May/03
	(City-IV)	2 International Airport	60	0.22	0	0	0	0	0		0	0		0	0		UG,May/03
	8MVAX2	3 Domestic Airport		0.21	0	0	0	0	0		0	0		0	0		May/03
		4 Chikoti Garden	140	3.24	2	8	1	0	0		1	60	60	1	60	60	May/03
		5 Prakash Nagar	190	5.32	2	7	0	3	52	17.3	0	0		3	52		May/03
		6 Motilal Nagar	170	-	1	6	0	1	5	5	0	0		1	5	<u></u>	May/03
3	ROAD NO: 2	1 Sagar society	70	2.17	0	5	0	2	10	5	1	55	55	3	65	21.667	City-IV,May/
	8MVAX2	2 Road No.02	115		1	2	1	5	25		0	0		5	25		City-IV,May/0
		3 Road No.10	85	_	4	9	2	9	+		0	0		9			
		4 Road No.14	145					2	10	_	0	0		2	10		May/03
		5 L.V.Prasad Marg	65		4	7	4	1	5	5	Ū.	0		1			City-IV,May/
		6 LV.Prasad film Lab	40	<u> </u>	· ·	i				-		Ť		-			May/03

			Мах	1	Nos of sectio-	Nos of	Nos of					ult(per r)			
Sυ	bstation Name	Name of Feeder	Max Load (A)	Length (km)			alternate	~ ~	sterru			Break d			(1) + (- A-	Remarks
				• •	sw	<u> </u>	line	No	Minute			Minute		No		Minute/No	
4	BEGUMPET	1 S.R.Nagar	145	4.5	1	7	3	_	19	6.33	2	50	25	5	69	13.8	
	(City-IV)	2 Yellamma Temple		5.22	2	<u> </u>	2	0	0		0	0		0		· · · · · · · · · · · · · · · · · · ·	May/03
	8MVAX2	3 Shantibagh	145	_	2	-	2	4	30	7.5	1	20	20	5	50		May/03
		4 AMP	55		. 2		3	0	0		1	25	25	1	25		May/03
		5 DKR		1.22	1	3	0	1	5	5	1	32	32	2	37	18.5	May/03
		6 Hyderabad Public School	120					8	43	5.38	1	20	20	. 9	63	7	April/03
		7 Maitrivanam	50	2.13		4	0	1	7	_ 7	0	0		1		7	May/03
		8 Vidyut Soudha						0	0		0	0		0	0	1	UG
5	BOWENPLL	1 Bapuji Nagar	195	12.48	3	8	1	9	53	5.89	0	0		9	53	5.8889	May/03
	Y (City-VI)	2 Bowenpally	_ 100	6.6	1	8	3	2	25	12.5	0	0		2	25		May/03
	8MVAX2	3 Tadbund	100	9.97	3	8	4	5	53	10.6	0	0		5	53	10.6	May/03
	[4 IAF	25		0	3		. 1	20	20	0	0		1	20	20	May/03
		5 Gputham Nagar	170	8.88	3	5	2	9	60,	6.67	0	0		9	60	6.6667	May/03
_		6 Ferroj guda	95	5.79	1	3	1	1	8	8	0	0		1	8	8	May/03
6	CLOCKTOWER	1 Sangeeth	180	- 1	4	4	2		17	5.67	0	0			17	5.6667	Mav/03
	(City-V)	2 Minerva	170	- 3	1	4	1	5	45	9	Ŭ	0		5	45		May/03
	8MVAX2	3 Natrai	185	1.5	3	5	1		0		Ū.	0		0	0	·	May/03
	7.5MVA	4 St.Road	220	3	2	5	1	5	45	. 9	1	37	37	6	82	13.667	May/03
	000000																
7	GREENLANDS	1 Ameerpet	195		0		0	_	8	8	0			1	8		UG,May/03
	(City-IV) 8MVAX2	2 Kundan bagh	190		0		0		0		0	_0		0	0		UG,May/03
	0141 47652	3 Rajiv Gandhi	190		3		4	9	44	4.89	0	0		9			May/03
		4 Somajiguda	205	3.04	5	5	3	5	21		0	0		- 5	21	4.2	May/03

Hyderabad North

						Nos of		Nos of				Fa	ult(per :	month)			
Su	bstation Name		Name of Feeder	Max Load (A)	Length (km)		Nos of spur line	alternate	(1)]	interru	ption	(2) Ì	Break c	lown		(1) + (Remarks
					()	SW		Jine	No	Minute	Miante/No	No	Minute	Se inn an Mic	No	Minute	Minute/No	
8	GYMKHANA	1	Paredgrounds	210	6	3	4	1	10	_135	13.5	1	43	43	11	178	16.182	May/03
	(City-V)	2	Sikh village	85	3.9	0	2	0	4	31	7.75	0	0		4	31		May/03
	8MVAX2	3	Vikram Puri	195	6.5	3	9	2	3	12	4	0	0		3	12	. 4	May/03
		4	Marredpally	130	6	6	6	2	8	100	12.5	0	0		8	100	12.5	May/03
9	HAKIMPET	1	M.Bollaram	110	13.38	3	6	2	10	106	10.6	0	ō		10	106	10.6	May/03
-	(City-VI)	-	Hakimpet Airforce	65		3			- 6	38		0	· · · ·		- 10			May/03
	5MVAX2		Allen by lines		14.42	3		3	6	41	6.83	0			6	41		May/03
_		4	Risak Bazar	75	5.76	1	5	. 3	4	33	8.25	1	20	20	5	53	10.6	May/03
10	HAL 8MVAX2	- 1	Sowbhagya Nagar	60	4.94	2	3		2		5	0	- 0		2	10		City-Vi,May/
10	12100 0100 11200		Sri Rama	50		2	3	- <u>^</u>	- 2	0		ŭ	-			0		City-Vi,May/
			NRSA	100				1	0	0	-	0	0		0	0		City-Vi,May/
		4	SAMRAT	190	4.44	2	5	1	1	10	10	2	130	65	3	·140	46.667	City-Vi,May,
	l f	5	HAL	30					0	0		0	Ö		0	0		May/03
		6	I.A.L	60	2.7	1	2	2	0	0		0	0		0	0		City-Vi,May/
11	HMT 8MVAX2	1	Chintal	150					13		4.62	 1		75	14	135	9.6429	May/03
		-	HMT Road	40					- 0	0		0			0	0		City VI,UG,May
1		3	QBP	110					16	78	4.88	2	125	63	18	203	11,278	May/03
- 1	l l	4	G.N.R	60	2.8	1	4	0	9	60	6.67	4	149	37	13	209	16.077	City-VI,May
- 1														23				

		•		Max	Length	Nos of sectio-	Nos of	Nos of				_	ult(per)			
Su	bstation Name	Name	of Feeder	Max Load (A)		sectio- nalizing		altemate		Interru		<u> </u>	Break o	_		(1) + (1)		Remarks
					` '	sw	· ·	line	No	Minute	Mieste/No	No	Minute	Hánsk 74	No	Minute	Minute/No	
12	IDPL	1 6.6kV		60					0	0		0			0	-	<u> </u>	May/03
	3MVAX2(6.6kV)	2 <u> SIFC</u>		80	5.5	1	10	0	2	8	· · · · · ·	0	-		2			City-VI, May/0.
	5MVA 8MVAX3	3 SVCI	E	130	7.1	1	4	0	4	44		1	40		5	84		City-VI, May/0.
		4 Vijaya	a Electricals	130	13.5	1	2	1	12	41	3.42	0	0		_12	41	3.4167	City-VI,May/0
-	· · [5 Oblur	n	150	13.1	2	6	1	0	0		0	0		0			City-VI,May/0
		6 Balan	agar	100	9.8	1	6	2	4	25	6.25	0	0		4	25	6.25	City-VI,May/0
		7[<u>I.E</u>		140	8.9	2	8	0	4	28	7	0	0		4	28	7	City-VI, May/0.
		8 Moos	apet	170					10	. 47	4.7	0	0		_10	47	4.7	May/03
		9 Bhara	th Nagar	80					3	8	2.67	0	0		3	8	2.6667	May/03
13	FILMNAGAR	1 Ambe	dkar Nagar	20	1.1	0	2	1	1	- 5	5	0	0			5		May/03
	(City-JV)	2 MLA		85	1.86	0	1	1	2	14		0	0	1	2	14	_	May/03
	8MVAX2		alaya Studio	35		2	4	3	2	13	_	0	0		2	13		May/03
	ľ	4 Rama	naidu Studio	25	0.9	1	4	1	0	0		0	0		0	0		May/03
		5 Appol	llo	40	2.49	2	5	2	0	0		0	0		. 0	0		May/03
	·	6 Bharath	hiya Vidya Bhavan	55	<u>3.45</u>	0	4	2	3	17	5.67	0	Ö		3	17	5.6667	May/03
14	JAMES STREET	1 Park I	ane	185	0.69	2	3	2	0	0		0	0		0	0		City-V,May/03
	8MVAX2	2 P.G R	oad	190	3.62	1	10	1	1	5	5	0	0		1	5	5	City-V,May/03
	Ĩ	3 M.G I	Road	125	1.37	0	3	0	0	0		0	0		0	0		City-V,UG+OH,May/0
1	<u>ן</u>	4 Mahar	nkali Temple	90	0.76	0	4	2	3	47	15.7	1	69	69	4	116	29	City-V, May/02
	Ī	5 S.D T	emple					_										
		6 S.P R	oad														-	

Annex 4.2 - 9

Annex 4.2 Results of Substation and Feeders Survey

Hyderabad North

~				Max	Length	Nos ef sectio-	Nos of	Nos of					ult(per :		<u>)</u>	(-)		
Su	bstation Name		Name of Feeder	Load (A)	(km)	nalizing		alternate Jine	~ ~	Interru Minute		<u> </u>	Break c		N. 1	(<u>1</u>) + (2) Minute/No	Remarks
15	KALYANNAGA	1 1	Krishna Nagar	80	5 22	SW	7		No		Minelé/No		Minute	Millionis/14a	NO	мілис	Minute/No	
12	R (City-IV)		Yousuf Guda	200		0	5		4			0	' 0 0					May/03
	8MVAX3		Madhura Nagar	_		1	9	1				0	-					May/03
			V.Road Nagar	160		2			5			1	27					May/03
				40		1	6					_	42				•	May/03
			A.G.Colony	80		2			1			0	0					May/03
			Sri.Ram Nagar	40	2.3	1	2	1	2	12								May/03
			CTI	5						<u> </u>								Aprol/03
		82	SCADA													ļ		
										<u> </u>								
16	MADHAPUR 8MVAX2		Shilparamaam	50					0			0			0			May/03
	OWVANZ		APIIC-II	60		0	_		7		10.7	0			7	75		City-IV,May/
			APIIC I	100		1	0		4	· · · ·	5	0	0		4	20		City-IV,May/
			HUDA	. 60		3		1	4	20	5	2	151	76	6	171	28.5	City-IV,May/
			NAC GROUNDS		4.37	2	<i>.</i>	1										City-IV,May/
17	MAITRIVANAM		Sarathi Studio	80		1	5	3	4		16.5	0			4			May/03
	(City-IV) 8MVAX2		Srinivas Colony	30		0	-	0	2		5	0			2	10		May/03
	OM VAA2	_	Mathrivanam	110		3		1	4		5	0			4	20		May/03
			Amberpet	180	3			2	6		6.33	3	125	42	9			May/03
			Anandbagh	100		0		4	2		5	0			2	10		May/03
-		64	Aditya	50	0.36	0	1	0	0	0		0	0		0	0	ļ	May/03
						ļ						L				<u> </u>	<u> </u>	
18	MARREDPALL		AOC	10		0		2	0			0	0		0	0		City-VI,May/
	Y 8MVAX2		Mahindra Hills	130	6		5	2	5		4.2	1	14	14	6			Cyty-V,May/
			Nehru Nagar	170		1	5	2	3		5.67	0	0		3		-	Cyty-V,May/
			Military Hospital	20		2	3	1	2	9	4.5	0			2	9		City-V1,May/
										4	4	1	41	41	2	45	. 22 5	Cyty-V,May/
			Rly. Colony	135	7.2	1	5		1			_		71				
	erabad North	61	R.K.Puram	85	12.7	3 Nos of	6	1 Nos of	3	11	3.67	0 Fai	0 Llt(per	month	3	11	3.6667	City-Vl,May/
	erabad North bstation Name	61			12.7	Nos of sectio- nalizing	6 Nos of	1	3	11 Interru	3.67 ption	0 Fai (2) I	0 ilt(per Break c	month Iown	3	(1) + (3.6667 2)	
		61	R.K.Puram	85 Max	12.7 Length (km)	Nos of sectio- nalizing SW	6 Nos of spur line	Nos of alternate line	3 (1) No	11 Interru Minute	3.67 ption	0 Fai (2) E No	0 ilt(per Break of Minute	month Iown	3) No	11 (1) + (Minute	3.6667 2) Minute/No	City-Vl,May/ Remarks
Su	bstation Name	61	R.K.Puram Name of Feeder GVK Hotel	Max Load (A) 90	12.7 Length (km)	Nos of sectio- nalizing SW 2	Nos of spur line 5	Nos of alternate line	3 (1) No 0	11 Interru Minute	3.67	0 Fat (2) I No 0	0 ilt(per Break o Minute 0	month Iown	3) No 0	11 (1) + (Minute 0	3.6667 2) Minute/No	City-Vl,May/ Remarks City-IV,April/
Su	bstation Name	6 I 	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills	85 Max Load (A) 90 70	12.7 Length (km) 4.59 3.08	Nos of sectio- nalizing SW	Nos of spur line 5	Nos of alternate line 3	3 (1) No 0 4	Interru Minute 0 75	3.67	0 Fai (2) F No 0	0 ult(per : Break c Minute 0 410	month lown Hanto 410	3 No 0 5	(1) + (Minute 0 485	3.6667 2) Minute/No 97	City-Vl,May/ Remarks City-IV,April/ City-I,April/
Su	bstation Name	6 I 1 (2 I 3 F	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta	Max Load (A) 90 70 80	12.7 Length (km) 4.59 3.08	Nos of sectio- nalizing SW 2 2	Nos of spur line 5	Nos of alternate line	3 (1) No 0 4 1	Interru Minute 0 75 25	3.67 ption Minute/No 18.8 25	0 Fat (2) F No 0 1 2	0 Ilt(per Break c Minute 0 410 162	month Iown	3) No 0 5 3	(1) + (Minute 0 485 187	3.6667 2) Minute/No 97 62.333	City-VI,May/ Remarks City-IV,April/ City-I,April/ City-IV,April/
Su	bstation Name	6 I 1 (2 I 3 H 4 I	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta VIMS	85 Max Load (A) 90 70 80 75	12.7 Length (km) 4.59 3.08 1.64	Nos of sectio- nalizing SW 2 2 0	6 Nos of spur line 5 6 7	Nos of alternate line 3 0	3 (1) No 0 4 1	11 Interru Minute 0 75 25 75	3.67 ption xime/to 18.8 25 18.8	0 Fat (2) F No 0 1 2 0	0 Ilt(per Break c Minute 0 410 162 0	month Iown Hennis 410 81	3 No 0 5 3 4	11 (1) + (Minute 0 485 187 75	3.6667 2) Minute/No 97 62.333 18.75	City-VI,May/ Remarks City-IV,April/ City-I,April/ City-IV,April/ April/03
Su	bstation Name	61 10 21 3 F 4 1 5 7	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta VIMS Cata Rao	85 Max Losd (A) 90 70 80 75 65	12.7 Length (km) 4.59 3.08 1.64	Nos of sectio- nalizing SW 2 2	Nos of spur line 5 6 7 4	Nos of alternate line 3 3 0 0	3 (1) No 0 4 1 4 1	Interru Minute 0 75 25 75 27	3.67 ption *===*********************************	0 Fat (2) F No 0 1 2 0 2	0 Jlt(per : Break c Minute 0 410 162 0 173	month lown 410 81 87	3 No 0 5 3 4 3	11 (1) + (Minute 0 485 187 75 200	2) Minute/No 62.333 18.75 66.667	City-VI,May/ Remarks City-IV,April/ City-I,April/ City-IV,April/ April/03 City-IV,April/
Su	bstation Name	61 10 21 31 41 57 65	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta VIMS Cata Rao Sai baba temple	85 Max Losd (A) 90 70 80 75 65 65	12.7 Length (km) 4.59 3.08 1.64 1.28	Nos of sectio- nalizing SW 2 2 0 0	6 Nos of spur line 5 6 7	Nos of alternate line 3 0	(1) No 0 4 1 4 1 3	11 Interru Minute 0 75 25 75 27 33	3.67 ption ×===** 18.8 25 18.8 27 11	0 Fau (2) F No 0 1 2 0 2 1	0 ult(per : Break c Minute 0 410 162 0 173 72	410 81 87 72	3 No 5 3 4 3 4	11 (1) + (Minute 0 485 187 75 200 105	2) Minute/No 62.333 18.75 66.667 26.25	City-VI,May/ Remarks City-IV,April// City-IV,April// City-IV,April//03 City-IV,April/ City-IV,April/
Su	bstation Name	61 10 21 31 41 57 65 71	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta VIMS Sai baba temple Road No.5	Max Load (A) 90 70 80 75 65 65 60 80	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47	Nos of sectio- nalizing SW 2 2 0 0	6 Nos of spur line 5 6 7 4 7	Nos of alternate line 3 3 0 0	(1) No 0 4 1 4 1 3 3	11 Interru Minute 0 75 25 75 27 33 16	3.67 ption xtracetro 18.8 25 18.8 27 11 5.33	0 Fau (2) F No 0 1 2 0 2 1 2 2	0 ult(per Break c Minute 0 410 162 0 173 72 614	410 81 87 72 307	3 N₀ 0 5 3 4 3 4 5	11 (1) + (Minute 0 485 187 75 200 105 630	2) Minute/No 97 62.333 18.75 66.667 26.25 126	City-VI,May/ Remarks City-IV,April// City-IV,April// City-IV,April/ April/03 City-IV,April/ April/03
Su	bstation Name	61 10 21 31 41 57 65 71 81	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta VIMS Cata Rao Sai baba temple Road No.5 Erramanzil	Max Load (A) 90 70 80 75 65 65 60 80 90	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75	Nos of sectio- nalizing SW 2 2 2 0 0 0 1 1 2 2	6 Nos of spur line 5 6 7 4 7 7 5	1 Nos of alternate line 3 	(1) No 0 4 1 1 3 3 1	11 Interru Minute 0 75 25 75 27 33 16 5	3.67 https://www.wo 18.8 25 18.8 27 11 5.33 5	0 Fat (2) F 0 1 2 0 2 1 1 1	0 Ilt(per : Break c Minute 0 410 162 0 173 72 614 1,168	410 81 87 72 307 1,168	3 No 0 5 3 4 3 4 5 2	11 (1) + (Minute 0 485 187 75 200 105 630 1,173	2) Minute/No 97 62.333 18.75 66.667 26.25 126 586.5	City-VI,May/ Remarks City-IV,April/ City-IV,April/ City-IV,April/ April/03 City-IV,April/ April/03
Su	bstation Name	6 1 1 (2 1 3 H 4 1 5 7 6 S 7 H 8 H 9 4	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi	Max Load (A) 90 70 80 75 65 65 60 80	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75	Nos of sectio- nalizing SW 2 2 0 0	6 Nos of spur line 5 6 7 4 7	1 Nos of alternate line 3 	(1) No 0 4 1 4 1 3 3	11 Interru Minute 0 75 25 75 27 33 16 5	3.67 ption xtracetro 18.8 25 18.8 27 11 5.33	0 Fau (2) F No 0 1 2 0 2 1 2 2	0 ult(per Break c Minute 0 410 162 0 173 72 614	410 81 87 72 307	3 N₀ 0 5 3 4 3 4 5	11 (1) + (Minute 0 485 187 75 200 105 630	2) Minute/No 97 62.333 18.75 66.667 26.25 126	City-VI,May/ Remarks City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/
Su 19	bstation Name	61 10 21 31 41 50 65 71 81 97 101	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta NIMS Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace	85 Max Load (A) 90 70 80 75 65 65 60 80 90 250	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75	Nos of sectio- nalizing SW 2 2 2 0 0 0 1 1 2 2	6 Nos of spur line 5 6 7 4 7 7 5	1 Nos of alternate line 3 	(1)) No 0 4 4 1 3 3 3 1 11	Interru Minute 0 75 25 75 27 33 16 5 71	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45	0 Fau (2) H No 0 1 2 1 1 2 1 3 3	0 Break c Minute 0 410 162 0 173 72 614 1,168 537	410 81 87 72 307 1,168	3 No 0 5 3 4 4 3 4 5 2 2 1 4	11 (1) + (Minute 0 485 187 75 200 105 630 1,173 608	3.6667 2) Minute/No 62.333 18.75 66.667 26.25 126 586.5 43.429	City-VI,May/ Remarks City-IV,April/ City-I,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-I,April/ City-I,April/ City-I,April/ City-IJG Not
Su	bstation Name NIMS 8MVAX3	6 I 1 (2 I 3 I 4 I 5 J 6 S 7 I 8 I 9 J 10 I 1 I	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj	85 Max Load (A) 90 70 80 75 65 60 80 80 90 250 115	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75	Nos of sectio- nalizing SW 2 2 2 0 0 0 1 1 2 2	6 Nos of spur line 5 6 7 4 7 7 5	1 Nos of alternate line 3 	(1)) No 0 4 1 1 4 4 1 1 3 3 3 1 1 11 1 1 4	Interru Minute 0 75 25 75 27 33 16 5 71 100	3.67 >tion 18.8 25 18.8 27 11 5.33 5 6.45 25	0 Faa (2) H No 0 1 2 0 2 1 1 2 1 1 3 3 0 0	0 Jlt(per : Break c Minute 0 410 162 0 173 72 614 1,168 537 0	410 81 87 72 307 1,168	3 No 0 5 3 4 3 4 5 2 1 4 5 2 4 4 4	(1) + (Minute 0 485 187 75 200 105 630 1,173 608	2) Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 43.429	City-VI,May/ Remarks City-IV,April/ City-IV,April/ City-IV,April/ April/03 City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IUG Net 02/03,May/
Su 19	bstation Name NIMS 8MVAX3 PATIGADDA	6 I 1 (2 I 3 I 4 I 5 J 6 S 7 I 8 I 9 J 10 I 1 I 2 I	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta NIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura	85 Max Load (A) 90 70 80 75 65 60 80 90 250 115 130	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75	Nos of sectio- nalizing SW 2 2 2 0 0 0 1 1 2 2	6 Nos of spur line 5 6 7 4 7 7 5	1 Nos of alternate line 3 	(1) No 0 4 1 1 4 1 1 1 1 1 1 1 4 2	Interru Minute 0 75 25 75 27 33 16 5 71 100 15	3.67 ption XeaseNee 18.8 27 11 5.33 5 6.45 25 7.5	0 Fau (2) H 2 0 2 2 1 1 3 3 0 0 0 0 0 0	0 Jill(per 1 Break c 0 410 162 0 173 72 614 1,168 537 0 0 0 0	410 81 87 72 307 1,168	3 No 0 5 3 4 4 3 4 5 2 2 1 4	(1) + (Minute 0 485 187 75 2000 105 630 1,173 608 1,173 608	3.6667 Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5	City-VI,May/ Remarks City-IV,April/ City-IV,April/ City-IV,April/ April/03 City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IU,April/ City-I
Su 19	bstation Name NIMS 8MVAX3 PATIGADDA	6 1 2 1 3 1 4 1 5 5 7 1 8 1 9 4 10 1 1 1 1 4 3 1 3 1 1 3 1 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta VIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rascolpura Budda Bhavan	85 Max Load (A) 90 70 80 75 65 60 80 90 250 115 130 14	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75	Nos of sectio- nalizing SW 2 2 2 0 0 0 1 1 2 2	6 Nos of spur line 5 6 7 4 7 7 5	1 Nos of alternate line 3 	(1) No 0 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Interru Minute 0 75 25 75 27 33 16 5 71 100 15 6	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 25 7.5 6	0 Fau (2) I 2 0 2 2 1 1 2 1 1 3 3 0 0 0 0 0 0 0 0	0 dit(per r Break c Minute 0 410 162 0 173 72 614 1,168 537 0 0 0 0 0 0 0 0 0 0 0 0 0	month own 410 81 87 72 307 1,168 179	3 No 0 5 3 4 3 4 3 4 4 3 4 4 2 1 4 4 2 1	(1) + (Minute 0 485 187 75 200 105 630 1,173 608 100 15 6	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 126 126 126 126 126 126 126 126	City-V1,May/ Remarks City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IU,April/ City-IUG Net O2/03,May/ May/03
Su 19	bstation Name NIMS 8MVAX3 PATIGADDA	6 1 1 0 2 1 0 3 1 1 4 1 5 7 6 5 7 1 1 8 1 1 0 1 1 1 1 1 1 1 1 1 2 1 1 2 1 1 3 1 1 4 7 2 1 4 7 2 1 4 7 2 1 4 7 1 1 4 7 1 4 7 1 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta VIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera	85 Max Load (A) 90 70 80 75 65 60 80 90 250 115 130 14 190	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75 2.19	Nos of sectio- nalizing SW 2 2 2 0 0 0 1 1 2 2	6 Nos of spur line 5 6 7 4 7 7 5	1 Nos of alternate line 3 	3 No 0 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 1 4 2 1 8	Interru Miaute 0 755 255 277 333 166 55 71 000 155 6 6 56	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 7.5 6 6 7 7	0 Fau (2) I (2) I 2 0 0 2 2 1 1 3 3 0 0 0 0 0 0 0 0 1	0 dit(per 1 Break c Minute 0 410 162 0 173 72 614 1,168 537 0 0 0 0 150	410 81 87 72 307 1,168 179) No 0 5 3 4 4 3 4 5 5 2 2 14 14 4 4 2 1 9	(1) + (Minute 0 4855 1877 755 2000 1055 6300 1,1733 608 1000 155 66 2066	3.6667 2) Minute/No 62.333 18.75 66.667 26.25 126 586.5 126 586.5 126 586.5 26.25 7.5 6 6 22.889	City-V1,May/ Remarks City-IV,April/ City-I,April/ City-IV,April/ April/03 City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IUG NG 02/03,May/ May/03 May/03
Su 19	bstation Name NIMS 8MVAX3 PATIGADDA	6 1 1 0 2 1 1 3 1 1 4 1 1 5 7 7 1 1 8 1 1 9 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 1 1 3 1 1 4 2 2 1 3 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta VIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road	85 Max Losd (A) 90 70 80 75 65 60 80 90 250 115 130 115 130 190	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75 2.19	Nos of sectio- nalizing SW 2 2 2 0 0 0 1 1 2 2	6 Nos of spur line 5 6 7 4 7 7 5	1 Nos of alternate line 3 	$ \begin{array}{c} \hline 3 \\ \hline 1 \\ 1 \\ 1 \\ 4 \\ 4 \\ 1 \\ 1 \\ 1 \\ 4 \\ 1 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 8 \\ 1 \\ $	Interru Minute 0 75 25 75 25 27 33 16 5 71 100 100 15 6 6 56 140	3.67 ption 18.8 25 18.8 27 11 5.33 5.5 6.45 7.5 6.45 7.5 6.6 7 17.5	0 Fau (2) F 0 1 2 2 1 1 3 3 0 0 0 0 0 0 1 1 1	0 Break c 0 410 162 0 173 72 61 61 61 537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	410 81 87 72 307 1,168 179 150 86	3 No 0 5 3 4 3 4 5 2 2 14 14 2 14 9 9 9 9	11 (1) + (Minute 0 485 187 75 2000 105 630 1,173 608 100 15 66 206 226	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 126 586.5 126 586.5 7.5 6 6 6 22.889 25.111	City-VI,May/ Remarks City-IV,April// City-IV,April// City-IV,April// City-IV,April// City-IV,April// City-IV,April/ City-IV,April/ City-IUG Net 02/03,May/0 May/03 May/03
Su 19 20	bstation Name NIMS 8MVAX3 PATIGADDA 8MVAX3	611 1(2 21 3 E 41) 57 10 11 8 H 9 J 10 H 11 14 2 H 2 H 2 H 2 H 2 H 2 H 2 H 2 H	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rassolpura Budda Bhavan Zeera Minister Road Sangeevaiah park	85 Max Losd (A) 90 70 80 755 65 60 80 90 250 115 130 140 190 20	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75 2.19	3 Nos of sectio- nalizing SW 2 2 0 0 1 1 2 4	6 Nos of sput line 5 6 7 4 4 7 5 6	Nos of alternate line 0 0 0 0 0	3 (1): No 0 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 8 8 1	Interru Minute 0 75 25 75 25 27 33 16 5 71 100 15 6 6 56 6 140	3.67 ption 18.8 25 18.8 27 11 5.33 5.5 6.45 7.5 6.6 7 17.5 5 5	0 Fau (2) I 2 0 2 2 1 1 2 1 1 3 3 0 0 0 0 0 0 1 1 1 0 0	0 Break c 0 410 162 0 173 72 614 1,168 537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	410 81 410 81 1,168 1,79 1,50 86	3 No 0 5 3 4 3 4 3 4 5 2 14 14 2 14 9 9 9 9	11 (1) + (Minute 0 485 187 75 2000 105 6300 1,173 608 1000 15 6 2066 2266 5	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 1266 586.5 43.429 25 7.5 6 6 6 22.889 25.111 5	City-VI,May/ Remarks City-IV,April/
Su 19	bstation Name NIMS 8MVAX3 PATIGADDA 8MVAX3 R.P.NILAYAM	6 1 1 1 (2 2 1 3 1 4 1) 5 7 7 1 1 1 8 1 9 4 10 1 1 1 1 1 1 1 1 4 2 1 1 4 1 2 1 4 1 2 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta NIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal	85 Max Load (A) 90 70 80 75 65 65 65 60 80 90 250 115 130 140 190 190 200 110	12.7 Length (km) 3.08 1.64 1.28 1.47 2.19	3 Nos of sectio- nalizing SW 2 2 0 0 1 1 2 4	6 Nos of spur line 5 6 7 4 7 5 6	Nos of alternate line 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 (1): No 0 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 1 1 1 4 1 4 1 4 1 1 1 1 <td>Interru Minute 0 75 25 75 27 33 16 5 71 100 15 6 6 6 6 6 6 6 6 6 140 5 100</td> <td>3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 7.5 6.45 7.5 6.45 7.5 7.5 7.5 6.6 7 7 17.5 5 16.7</td> <td>0 Fau (2) I 2 0 2 2 1 1 2 1 1 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 lil(per</td> <td>monthi lown 410 81 87 72 307 1,168 179 150 86</td> <td>3 No 0 5 3 4 3 4 3 4 3 4 3 4 3 4 1 4 2 1 4 9 9 9 9 1 1 6</td> <td>11 (1) + (Minute 0 485 187 75 200 105 630 1,173 608 100 15 6 206 206 5 100</td> <td>3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 1266 586.5 43.429 25.125 66 22.889 25.111 5 16.667</td> <td>City-V1,May/ Remarks City-IV,April/ City-I,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-I,April/ City-I,April/ City-I,April/ City-I,April/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IV,</td>	Interru Minute 0 75 25 75 27 33 16 5 71 100 15 6 6 6 6 6 6 6 6 6 140 5 100	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 7.5 6.45 7.5 6.45 7.5 7.5 7.5 6.6 7 7 17.5 5 16.7	0 Fau (2) I 2 0 2 2 1 1 2 1 1 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 lil(per	monthi lown 410 81 87 72 307 1,168 179 150 86	3 No 0 5 3 4 3 4 3 4 3 4 3 4 3 4 1 4 2 1 4 9 9 9 9 1 1 6	11 (1) + (Minute 0 485 187 75 200 105 630 1,173 608 100 15 6 206 206 5 100	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 1266 586.5 43.429 25.125 66 22.889 25.111 5 16.667	City-V1,May/ Remarks City-IV,April/ City-I,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-I,April/ City-I,April/ City-I,April/ City-I,April/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IV,
Su 19 20	bstation Name NIMS 8MVAX3 PATIGADDA 8MVAX3	6 1 1 1 (2 2 1 3 1 4 1) 5 7) 6 5 7 1 1 4 1 0 1 1 1 1 1 1 1 1 1 4 2 1 1 4 1 2 1 4 1 2 1 4 1 3 1 4 1 4 1 4 1 5 7 1 1 4 1 1 5 7) 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta NIMS Cata Rao Sai baba temple Road No.5 Brramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal SME	85 Max Load (A) 90 70 80 75 655 60 80 90 250 250 115 130 144 190 190 200 110 80	12.7 Length (km) 1.64 1.28 1.47 3.75 2.19 1.21 1.21 1.21 1.21 1.21 1.22 1.21 1.22	3 Nos of sectio- nalizing SW 2 2 0 0 1 1 2 2 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 Nos of spur line 5 6 7 5 6 7 6 6 7 7 7 7 7 7 7 7 7 7 7 7	1 Nos of alternate line 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 (1); No 0 4 1 4 1 4 11 4 11 11 11 11 8 11 6 8	Interru Minute 0 75 25 75 27 33 16 5 5 71 100 15 6 6 140 5 5 100 80	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 7.5 6.45 7.5 6.45 7.5 7.5 7.5 7.5 7.5 7.7 17.5 5 16.7 7	Fat (2) I No 0 1 2 0 0 2 2 1 1 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 greak c Minute 0 4100 162 0 173 72 614 1,168 537 0 0 0 0 0 1500 866 0 0 0 0 0 0 0 0 0 0 0 0 0	month own 410 81 87 72 307 1,168 179 150 86	3 No 0 5 3 4 4 3 4 5 2 1 1 4 4 2 1 1 9 9 9 9 9 1 1 6 8	11 (1) + (Minute 0 485 187 75 200 105 630 1,173 608 0 100 15 66 206 226 5 100 80	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25.111 586.5 622.889 25.111 5 16.667 10	City-V1,May/ Remarks City-IV,April/ May/03 May/03 May/03 May/03
Su 19 20	PATIGADDA 8MVAX3 PATIGADDA 8MVAX3 R.P.NILAYAM (City-VI)	6 1 1 1 (2 2 1 1 3 1 4 1) 5 7) 6 5 7 1 1 4 1 5 7 1 1 4 1 2 1 4 2 1 3 1 4 1 5 7) 6 5 6 5 6 5 6 5 6 5 6 5 6 5 6 5	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta NIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal	85 Max Load (A) 90 70 80 75 655 60 80 90 250 250 115 130 144 190 190 200 110 80	12.7 Length (km) 3.08 1.64 1.28 1.47 2.19	3 Nos of sectio- nalizing SW 2 2 0 0 1 1 2 2 4 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 Nos of spur line 5 6 7 5 6 7 6 6 7 7 7 7 7 7 7 7 7 7 7 7	1 Nos of alternate line 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 (1): No 0 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 1 1 1 4 1 4 1 4 1 4 1 1 <td>Interru Minute 0 75 25 75 27 33 16 5 5 71 100 155 6 6 56 140 155 5 000 800 5</td> <td>3.67 ption 18.8 25 18.8 27 11 5.33 5 5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.10 7.7 10.5 5 10.7 10.5 5 10.7 10.5 5 5 10.7 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5</td> <td>0 Fau (2) I 2 0 2 2 1 1 2 1 1 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>0 greak c Minute 0 4100 162 0 173 72 614 1,168 537 0 0 0 0 0 0 0 0 0 0 0 0 0</td> <td>410 81 87 72 307 1,168 179 150 86</td> <td>3 No 0 5 3 4 3 4 3 4 3 4 3 4 3 4 1 4 2 1 4 9 9 9 9 1 1 6</td> <td>111 (1) + (Minute 485 187 75 200 105 630 1,173 608 100 155 66 206 226 5 100 80 80 5</td> <td>3.6667 Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5 6 22.889 25.111 5 16.667 10 5</td> <td>City-V1,May/ Remarks City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IU,April/ City-IU,April/ City-IU,April/ City-IU,G Net 02/03,May/03 May/03 May/03 May/03 May/03 May/03</td>	Interru Minute 0 75 25 75 27 33 16 5 5 71 100 155 6 6 56 140 155 5 000 800 5	3.67 ption 18.8 25 18.8 27 11 5.33 5 5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.10 7.7 10.5 5 10.7 10.5 5 10.7 10.5 5 5 10.7 10.5 10.5 10.5 10.5 10.5 10.5 10.5 10.5	0 Fau (2) I 2 0 2 2 1 1 2 1 1 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 greak c Minute 0 4100 162 0 173 72 614 1,168 537 0 0 0 0 0 0 0 0 0 0 0 0 0	410 81 87 72 307 1,168 179 150 86	3 No 0 5 3 4 3 4 3 4 3 4 3 4 3 4 1 4 2 1 4 9 9 9 9 1 1 6	111 (1) + (Minute 485 187 75 200 105 630 1,173 608 100 155 66 206 226 5 100 80 80 5	3.6667 Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5 6 22.889 25.111 5 16.667 10 5	City-V1,May/ Remarks City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IU,April/ City-IU,April/ City-IU,April/ City-IU,G Net 02/03,May/03 May/03 May/03 May/03 May/03 May/03
Su 19 20 21	bstation Name NIMS 8MVAX3 PATIGADDA 8MVAX3 R.P.NILAYAM (City-VI) 7.5MVA 8MVA	6 1 1 1 (2 2 1 3 I 4 1 5 7 7 I 8 I 9 / 9 / 10 I 1 I 1 I 1 4 2 I 3 I 4 1 1 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta VIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal EME V.Puram R.P.Nilayam	85 Max Load (A) 90 70 80 75 65 60 90 250 115 130 14 190 190 200 110 800 250 5 5	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75 2.19 	3 Nos of sectio- nalizing SW 2 0 0 1 2 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 Nos of spurime 5 6 7 4 7 5 6 7 6 7 6 7 6 7 8 8	1 Nos of alternate line 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(1)) No 0 4 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Interru Miaute 00 755 255 277 333 166 55 277 333 166 55 277 333 166 55 100 155 100 55 1000 800 800 800 800	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 7.5 6.45 7.5 6.45 7.5 5 16.7 17.5 5 16.7 100 5	Fau (2) I No 0 1 2 1 0	0 3reak c Minute 0 410 162 0 173 72 614 1,168 537 0 0 0 0 0 0 0 0 0 0 0 0 0	month own 410 81 87 72 307 1,168 179 150 86	3 No 0 5 3 4 4 3 4 5 2 4 1 4 2 1 1 9 9 9 9 1 1 6 8 8 1	111 (1) + (Minute 0 485 187 75 200 105 630 1,173 608 100 15 6 206 226 5 100 80 5 0 0	3.6667 Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 43.429 255 7.5 6 6 22.889 25.111 5 16.667 10 5	City-V1,May, Remarks City-IV,April, City-IV,April, City-IV,April, April/03 City-IV,April, City-IV,April, City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IUG Nc City-IUG Nc City-IUG Nc O2/03,May/03 May/03 May/03 May/03 UG,May/03
Su 19 20	bstation Name NIMS 8MVAX3 PATIGADDA 8MVAX3 R.P.NILAYAM (City-VI) 7.5MVA 8MVA SRINAGAR	6 1 1 1 (2 2 1 3 H 4 1) 5 7 7 H 8 H 9 / 4 1) 1 H 1 H 1 H 2 H 3 H 2 H 3 H 4 H 4 H 4 H 4 H 4 H 4 H 4 H 4	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta VIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal EME V.Puram R.P.Nilayam	85 Max Losd (A) 90 70 80 75 65 60 80 90 250 115 130 130 130 130 130 120 5 80 80 80 80 80 80 80 80 80 80	12.7 Length (km) 1.64 1.28 1.47 3.75 2.19 1.21 1.21 1.21 1.21 1.21 1.22 1.21 1.22	3 Nos of sectio- nalizing SW 2 0 0 1 2 4 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	6 Nos of spur line 5 6 7 5 6 7 6 6 7 7 7 7 7 7 7 6 7 7 7 7	1 Nos of alternate line 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 (1)) No 0 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 2 1 4 4 2 1 4 4 2 1 8 8 1 6 8 1 0 3	Interru Miaute 0 75 25 75 25 75 25 75 27 33 3 6 6 5 71 100 155 5 100 80 80 5 100 80 155	3.67 plion 18.8 25 18.8 27 11 5.33 5 6.45 7,5 6.45 7,5 5 6.45 7,5 5 16.7 17.5 5 16.7 10 5 5	Fau (2) I No 0 1 2 0 2 1 2 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1	0 Break c Minute 0 4100 162 0 1733 722 614 1,168 537 0 0 0 0 0 0 0 0 0 0 0 0 0	month own 410 81 87 72 307 1,168 179 150 86 20	3 No 0 5 3 4 3 4 5 2 2 1 4 3 4 4 5 2 2 1 1 4 2 2 1 1 4 9 9 9 9 1 1 6 8 8 1 1 0 0 0 5 5 2 4 1 4 4 4 5 5 2 1 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4	111 (1) + (Minute 0 485 187 75 2000 105 630 1,173 608 1,173 608 100 1,173 608 206 226 226 226 5 100 80 80 5 5 00 80 80 5 5 100 80 80 5 5 100 80 80 80 80 80 80 80 80 80 80 80 80 8	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25.111 5 16.667 100 5 8.75	City-V1,May Remarks City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IUG Ne 02/03,May/ May/03 May/03 May/03 May/03 May/03 May/03 May/03 May/03 City-IV,May/ City-IV,May/
Su 19 20 21	bstation Name NIMS 8MVAX3 PATIGADDA 8MVAX3 R.P.NILAYAM (City-VI) 7.5MVA 8MVA SRINAGAR COLONY	6 1 1 1 (2 2 1 3 E 4 1) 5 7 1 6 5 7 1 8 H 9 J 10 E 1 4 2 H 10 E 1 4 2 H 1 4 2 H 1 4 2 H 2 H 2 H 2 H 2 H 2 H 2 H 2 H	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Cata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal EME V.Puram R.P.Nilayam	Max Josef (A) 90 70 80 75 65 600 800 90 250 115 130 140 190 20 110 80 120 80 120	12.7 Length (km) 3.08 1.64 1.28 1.47 3.75 2.19 11.74 14.85 12.81 12.81 2.08	3 Nos of sectio- nalizing SW 2 2 2 0 0 0 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	6 Nos of spurime 5 6 7 4 7 5 6 7 6 7 6 7 6 7 8 8	1 Nos of alternate line 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 N₀ 0 4 1 4 1 1 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 12 4 2 11 11 12 13 14 15 16 17 18 19 10 11 11 12 13 13	11 Miaute 0 75 25 75 25 75 27 33 166 5 71 100 15 6 140 5 100 80 5 0 15 30	3.67 plion 18.8 25 18.8 27 11 5.33 5 6.45 7.5 5 6.45 7.5 5 5 5 5 5 5 5	Faa (2) I No 0 1 2 1 2 1 3 0 1 2	0 Break c Minute 0 4100 162 0 1732 7 614 1,168 537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1100 1100 1100 1100 1100 1100 1100 110	3 No 0 5 3 4 4 3 4 4 5 5 2 2 14 14 2 14 14 2 14 14 9 9 9 9 1 1 6 8 8 10 0 0 14 8 14 14 14 14 14 14 14 14 14 14 14 14 14	111 (1) + (Minute 0 485 187 75 2000 105 6300 1,173 608 1000 155 608 1000 800 55 1000 800 55 1255 1255	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 1266 586.5 43.429 25.111 5 16.667 100 5 8.75 15.625	City-V1,May Remarks City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IUG Net 02/03,May/03 May/03 May/03 May/03 May/03 May/03 May/03 City-IV,May/ May/03
Su 19 20 21	bstation Name NIMS 8MVAX3 PATIGADDA 8MVAX3 R.P.NILAYAM (City-VI) 7.5MVA 8MVA SRINAGAR	6 1 1 1 (2 2 1 3 F 4 1) 5 7 6 5 7 F 8 F 8 F 8 F 8 F 8 F 8 F 8 F 8	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta VIMS Cata Rao Sai baba temple Road No.5 Gramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal SME V.Puram R.P.Nilayam Jdyog Nagar Kamlapuri colony Srinagar colony	Max Josef (A) 90 70 80 75 65 600 800 90 250 115 130 141 190 200 110 80 120 80 120 180	12.7 Length (km) 3.08 1.64 1.28 1.47 3.75 2.19 1.1.74 14.85 12.81 11.74 14.85 12.81 2.08 3.58	3 Nos of sectio- nalizing SW 2 2 0 0 1 1 2 4 4 1 2 2 2 2 1 1 3 3	6 Nos of spur line 5 6 7 4 4 7 5 6 6 7 6 7 8 5 10	1 Nos of alternate line 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 N₀ 0 4 1 4 1 11 11 4 2 1 12 13 10 11 11 12 13 13 13 13 14 15 16<	Interru Minute 0 75 25 75 27 33 36 5 71 100 15 6 6 6 5 6 6 140 5 100 80 80 5 5 0 0	3.67 plion 18.8 25 18.8 27 11 5.33 5 6.45 25 6.45 25 7.5 5 6.45 7,7 7 7 7 7 7 7 7 7 7 5 5 16.7 10 5 5 5 5 5 5 5 5	0 Faa (2) I1 N₀ 0 1 2 0 0 2 1 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 greak c Minute 0 4100 162 0 173 72 0 162 0 173 72 0 0 1500 0 0 0 0 0 0 0 0 0 0 0 0	410 81 87 72 307 1,168 179 150 86 20 48	3 No 0 5 3 4 4 3 4 3 4 2 1 1 4 4 2 1 1 4 4 2 9 9 9 1 1 6 8 8 1 0 0 0 4 4 8 5 5	111 (1) + (Minute 0 485 187 75 2000 105 6300 1,173 608 1000 155 66 2066 55 1000 800 55 1000 800 55 1255 255	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 1266 586.5 43.429 255 1266 586.5 43.429 255 126 586.5 126 586.5 126 586.5 126 586.5 126 586.5 126 586.5 126 586.5 5 126 5 5 5 5 5 5 5 5 5 5 5 5 5	City-VI,May/ Remarks City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-IV,May/ May/03 May/03 May/03 May/03 May/03 City-IV,May/ May/03 City-IV,May/
Su 19 20 21	bstation Name NIMS 8MVAX3 PATIGADDA 8MVAX3 R.P.NILAYAM (City-VI) 7.5MVA 8MVA SRINAGAR COLONY	6 1 1 1 (2 1 3 F 4 1) 5 7 6 S 7 T 1 H 4 7 3 F 4 1) 1 H 4 7 5 7 1 H 4 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta NIMS Cata Rao Sai baba temple Road No.5 Sai baba temple Road No.5 Sai baba temple Rangunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal SME V.Puram R.P.Nilayam Jdyog Nagar Kamlapuri colony Srinagar colony Yella reddy guda	Max Josed (A) 90 70 80 75 65 60 80 90 250 115 130 14 190 20 110 80 120 80 120 180 170	12.7 Length (km) 4.59 3.08 1.64 1.28 1.47 3.75 2.19 11.74 14.85 12.81 11.74 14.85 12.81 2.08 3.58 3.66	3 Nos of sectio- nalizing SW 2 2 0 0 1 1 2 2 4 1 2 2 2 1 1 3 3 1 1	6 Nos of spur line 5 6 7 4 7 5 6 6 7 6 7 8 6 7 8 10 10 10	1 Nos of alternate line 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 No 0 4 1 4 1	Interru Minute 0 75 25 75 27 33 36 5 71 100 155 66 5 66 140 5 100 80 80 5 0 0 25 20	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 5 7.5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 Faa (2) 1 N₀ 0 1 2 0 2 1 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Break c Minute 0 4100 162 0 173 72 614 537 0 0 0 0 0 0 0 0 0 0 0 0 0	month lown 410 81 87 72 307 1,168 179 150 86 	3 No 0 5 3 4 3 4 3 4 3 4 3 4 3 4 3 4 4 2 14 14 9 9 9 11 6 8 8 11 0 0	111 (1) + (Minute 0 485 187 75 200 105 630 1,173 608 100 155 630 1,173 608 206 226 5 100 80 5 100 80 5 100 80 5 100 80 5 100 80 5 100 80 100 100 100 100 100 100	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 12.6 586.5 43.429 25.111 5 6.667 10.667 10.55 15.665 5 15.625 5 5 5 5 5 5 5 5 5 5 5 5 5	City-VI,May/ Remarks City-IV,April/ City-I,April/ City-I,April/ City-IV,April/ City-IV,April/ City-IV,April/ City-I,April/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IApril/ City-IV,April/ City-IUG Net 02/03,May/03 May/03 May/03 May/03 May/03 May/03 City-IV,May/ City-IV,May/ City-IV,May/ City-IV,May/ City-IV,May/
Su 19 20 21	bstation Name NIMS 8MVAX3 PATIGADDA 8MVAX3 R.P.NILAYAM (City-VI) 7.5MVA 8MVA SRINAGAR COLONY	6 1 1 1 ((2 1 1 3 1 4 1) 5 7 7 1 1 4 1 5 7 6 5 7 1 1 4 1 1 1 4 2 1 1 4 1 5 7 6 5 7 1 1 7 1 7 1 7 1 7 1 7 1 7 1 7	R.K.Puram Name of Feeder 3VK Hotel Banjara Hills Panjagutta VIMS Cata Rao Sai baba temple Road No.5 Gramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal SME V.Puram R.P.Nilayam Jdyog Nagar Kamlapuri colony Srinagar colony	85 Max Load (A) 90 70 80 75 655 60 80 90 250 115 130 144 190 190 120 110 80 120 120 120 120 120 120 150	12.7 Length (km) 3.08 1.64 1.28 1.47 3.75 2.19 1.1.74 14.85 12.81 11.74 14.85 12.81 2.08 3.58	3 Nos of sectio- nalizing SW 2 2 2 0 0 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2	6 Nos of spur line 5 6 7 4 4 7 5 6 6 7 6 6 7 8 0 10 10 3	1 Nos of alternate line 3 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 No 0 4 1 4 1 4 1 4 1 1 1 6 8 1 6 3 6 5 4	Interru Minute Minute 0 75 25 75 27 33 16 5 5 71 100 155 6 6 5 6 140 155 100 800 80 0 5 5 100 800 80 155 25 100 80 80 80 80 80 80 80 80 80 80 80 80 8	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 5 7.5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 Faa (2) I1 N₀ 0 1 2 0 0 2 1 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Jil(per t Minute 0 4100 162 0 173 72 6 0 173 72 6 0 0 0 0 0 0 0 0 0 0 0 0 0	month lown 410 81 87 72 307 1,168 179 150 86 20 20 48	3 No 0 5 3 4 4 3 4 3 4 2 1 1 4 4 2 1 1 4 4 2 9 9 9 1 1 6 8 8 1 0 0 0 4 4 8 5 5	111 (1) + (Minute 485 187 75 200 105 630 1,173 608 100 155 630 1,173 608 0 105 608 0 105 5 105 5 105 206 226 5 100 80 5 125 200 40 225 200 40 225 200 40 225 200 40 225 200 40 225 200 40 226 5 200 40 226 5 206 206 226 5 206 206 226 5 206 206 226 5 206 226 5 206 226 5 206 226 5 206 226 5 206 226 5 206 226 5 206 226 5 206 226 5 206 226 5 200 400 226 5 200 400 226 5 200 400 226 5 200 400 226 5 200 400 226 5 200 400 206 226 5 200 400 400 400 400 400 400 400	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 12.6 586.5 43.429 25.111 5 6.667 10.667 10.55 15.665 5 15.625 5 5 5 5 5 5 5 5 5 5 5 5 5	City-V1,May, Remarks City-IV,April, City-IV,April, April/03 City-IV,April, April/03 City-IV,April, City-IV,Apri

	erabad North			<u> </u>		Nos of	<u> </u>	Nos of	<u> </u>			Fa	ult(per	month)	· · · · · · ·		<u> </u>
St	ubstation Name		Name of Feeder	Max Load (A)	Length (km)	sectio-	Nos of Spur line	alternate	(1)	Interru	ption	(2)	Break (lown	í ····	(1) + ((2)	Remarks
				1020 (A)		SW	shot ture	line	No	Minute	Minnie/No	No	Minute	Ninete/No	No	Minute	Minute/No	
23	YOUSUF GUDA	1	Borabonda	85	6.3	2	7	i	3	25	8.33	0	0		3	25	8.3333	City-IV, May/03
	8MVAX2	2	Vinayak Nagar	110	2.73	2	5	0	8	62	7.75	3	390	130	11	452	41.091	City-IV, May/03
	}	3	Police Lines	150	6.19	3	5	5	10	75	7.5	3	202	67	13	277	21,308	City-IV, May/03
		4	Gayatri Hills	35	2.81	0	2	22	0	0		0	0		0	0		City-IV, May/03
		5	IOA	. 5	0.88	0	1	1	3	19	6.33	0	0		3	19	6.3333	City-IV, May/03
		6	MLA colony	5					1	15	15	0	0		1	15	15	May/03
			L <u></u>	L			L			Ĺ								l
24	LALAGUDA		A.P.Dairy	40	0.8	_1	0	1	2	32	16	00	0		2	32		May/03
	(City-V)	<u> </u>	Shanti Nagar	180	6	1	6	2	10	91	9.1	0	0		10	91		May/03
	5MVAX3		Lalapet	50	<u> </u>	0	<u> </u>	0	2	9	4.5	0	-		2	9		May/03
			Tarnaka	100	5	2	9	1	1	20	_	0	0		1	20		May/03
		5	Vijayapuri	170	5.5	1	3	0	21	227	10.8	3	296	99	24	523	21.792	May/03
25	OSMANIA	1	Osmania University	55	3	1	2	2	2	9	4.5	0	0		2	9	4.5	City-V,May/03
	UNIVERSITY 5MVA.7.5MV	2	Boudhanagar	140	6.5	2	7	3	7	116	16.6	0	0		7	116	16.571	City-II,May/03
	A	3	RTC Hospita;	125	5	1	. 3	2	1	5	5	2	135	68	3	140	46.667	City-V,May/03
		4	Ravindra Nagar	50	3	0	3	0	1	10	10	0	0		1	10	10	City-V,May/03
		· .																<u> </u>
26	PRAGA		Indoswing	120		1	. 6	3	3	30	10	0	0		3	30		May/03
	TOOLS (City-		T.C Balnagar		4.95	3	6	0	5	95	19	3	172	57	8		-	May/03
	VI) 8MVAX2		Asbestos Hills		6.91	1	4	1	3	22	7.33	0	0		3	22		May/03
	· · ·	4	Nagarjuna signode	130	6.91	2	11	2	6	55	9.17	3	140	47	9	195	21.667	May/03

			Max	í	Nos of sectio-	Nos of	Nos of				Fa	ult(per:	month)			
Su	bstation Name	Name of Feeder	Load (A)	Length (km)	sectio- nalizing		alternate	(1)	Interni	ption	(2) I	Break o	lown		(1) + (2)	Remarks
					sw		line	No	Minute	Mente/Ko	No	Minute	_	No	Minute	Minute/No	
27	ROAD NO :12	1 CRPF	190					6	_	5.5	2	460	230	8		61.625	April/03
	8MVAX2	2 C.Palace	55	4.06	2	5	1	8	57	7.13	2	464	232	10	521	52.1	City-IV,April/0
		3 M.Quarters	10	1.31	1	2	1	3	30	10	0	0		3	30	10	City-IV, April/0
		4 I.T.Colony	10					1	1	1	0	0		1	1	1	March, April/0
		5 Road No.12	125	4.45	1	5	- 1	8	50	6.25	3	371	124	11	421	38.273	City-I, April/0
		6 Road No.10	180	3.87	3	5	1	6	41	6.83	6	351	59	12	392	32.667	City-IV, April/02
28	SEETHA	1 Gandhi Statue	80	4	· · 0	4	2	3	13	4.33	0	0		3	13	4.3333	City-V,April/0
-	PALMANDI	2 Namalagundu	130	5	1	5	0	6	45	7.5	0	0		6	45	7.5	City-V, April/0
	8MVA,5MVA	3 Warasiguda	70	4	0	1	0	1	3	3	0	0		1		3	City-V, April/0
1		4 Medibavi	155	3.51	1	_ 5	2	2	- 9	4.5	0	0		2	9	4.5	City-IJ, April/0.
		5 Seethapahlmandi	80	3	0	3	0	1	3	3	0	0		1	3	3	City-V, April/0
29	132/33/11KV	1 M.Hospital	160	8.31	1	9	4										City-VI,May/0
	GUNROCK	2 MDF	160	13.85	4	7	2	21	106	5.05	3	134	45	24	240	10	City-VI,May/0
	8MVAX2	3 GPH	130	12.45	6	9	4	2	8	4	1	13	13	3	21	7	City-VI,May/0
		4 Medchal	140	28.16	5	. 8	6	13	72	5.54	1	33	33	14	105	7.5	City-VI,May/03
		5 Bowenpally	130	7.7	2	8	2	5	42	8.4	0	0		5	42	8.4	City-V,May/03
		6 Gymkhana	120					2	14	7	0	0		2	14	7	May/03
		7 AWHO	20	2.64	0	4	Ó	5	54	10.8	1	25	25	6	79	13.167	City-VI, April, May/03
		8 SPH US Cable		2.23						_							City-VI, May/03
30	132/33/11KV	1 IOA	80	3.5	0	3	1	7	<u></u>	1	0	0		7	7	1	City-VI, May/02
1	JUBLEE	2 MLA Colony	- 15	4.94	0	3	1	0	0		0	0		0	0		City-VI, May/03
	HILLS	3 Jublihills	80	6.5	3	10	3	4	5	1.25	0	0		4	5	1.25	City-VI,May/03
	8MVAX2	4 PEI (OH)	20	2.06	0	3	0	0	0		0	0		0	_0		City-VI, May/03
	[5 PEI (UG)	5	0.76	0	0	0	0	0		0	- 0		0	0		City-VI, May/03
1	[6 Film nagar	15					٥	Û		0	Q		O	0		May/03
		7 AOU	20					5	5	1	0	0		5	5	1	May/03
	ſ	8 Prasasan Nagar	20					1	1	1	0	0		1	1	1	May/03

iyu	erabad Central				Nos of		Nos of				Fau	ilt(per i	month)			
Sı	ibstation Name	Name of Feeder	Max Load (A)	Length (km)	sectio-	Nos of spur line	altemate	(1)	Interru	ption	(2) I	Break d	łown		(1) + (2)	Remarks
			Liau (A)	(kin)	S₩	spur me	line	No	Minute	Minste/No	No	Minute	Hinnie/Ho	No	Minute	Minute/No	1
1	A C GUARDS	1 Mahaveer Hospital	115	3.94	2	6	1	3	51	17	1	24	24	4	75	18.75	City-I, April/03
	8MVAX2, [2 Bazar ghat	155	10.6	2	5	1	5	41	8.2	0	0		5	41	8.2	City-VII, April/03
	5MVA	3 Shanthi Nagar	120	8.37	1	7	1	1	16	16	2	85	43	3	101	33.667	City-VII, April/02
	[4 N.M.D.C	80	3.9	0	7	Ö	2	53	26.5	0	0		2	53	26.5	City-VII, April/03
		5 Mahaveer Hospital cable	135					0	0		0	0		0	0		City-I,UG,Apri/0
	[6 Mahaveer			2	5	1										City-VII, April/03
		7 Niloper Hospital															
		8 Niloufer	70	9.76	1	8	1	7	55	7.86	3	262	87	10	317	31.7	City-VII, April/0
2	AMBERPET	1 CPL feeder	35	2.14	0	4	0	0	0		0	0		0	0		April/03
	(City-II)	2 Patel Nagar	145	4.8	2	9	1	12	82	6.83	0	0		12	82	6.8333	April/03
	8MVAX2	3 Amberpet Feeder	145	4.72	1	7	2	8	72	9	3	154	51	11	226	20.545	April/03
		4 Zinda thilasmat	145	5.32	3	8	0	1	5	5	0	0		1	5	5	April/03
	[5 Tilaknagar	65	5.98	2	5	3	6	70	11.7	0	0		6	70	11.667	April/03
		6 Golnaka	75	4.5	2	6	1	1	5	5	0	0		1	5	5	April/03
3	ASIF NAGAR	1 Gudimalkapur	210	12,82	2	9	2	16	174	10.9	0	0		16	174	10.875	City-VII.April/0
	8MVAX3,	2 Jyothi Nagar	110	6.05	1	2	0	2	5	2.5	0	0		2	5	2.5	City-VII, April/0
	5MVA	3 Padmanabha Nagar	60	6.83	1	6	1	3	27	9	0	0		3	27	9	City-VII.April/0
		4 Alapatinagar	120	8.73	1	11	2	1	7	7	0	0		1	7	7	City-VII, April/0
	[5 Mehdipatnam	180	8.84	4	11	4	2	53	26.5	0	0		2	53	26.5	City-VII April/0
		6 Military	30	5.69	0	2	1	21	164	7.81	0	0		21	164	7.8095	City-VII, April/0
		7 JCO Quarters	10	3.27	0	0	2	1	70	70	1	105	105	2	175	87.5	City-VII, March, April (0
	. [8 Hakimpet	120	10.95	1	8	1	11	97	8.82	0	0		11	-97	8.8182	City-VII
	· ·	9 Water works	10					1	125	125	0	0		1	125	125	April/03
		10 Kakatiynanagar	110	12.97	2	6	2	4	40	10	0	0		4	40	10	City-VII, April/0
																	l

Hyderabad Central

Hyderabad Central Nos of sectio-Fault(per month) Nos of alternate Max Lengtl Nos of Substation Name Name of Feeder (1) Interruption (2) Break down (1) + (2)Remarks (A)bsoJ (km) nalizing sour line line No Minute Minute Minute/N sw No Minute Mante/N No 13 May/03/03 4 HYDERGUD 1 King kothi 160 1.88 65 13 0 0 5 65 0 4 0 5 A (City-I) 2 Hyderguda 185 3.35 2 7 1 10 10 1 60 60 2 70 35 May/03/03 1 3 Hi May/03/03ath Nagar 8MVAX2 140 2.34 0 6 1 4 40 10 1 30 30 5 70 14 May/03/03 4 Boggukunta 160 1.34 0 5 23 7.67 1 50 50 4 73 18.25 May/03 1 3 135 0.85 0 30 0 0 30 15 May/03/03 5 Abids 0 1 2 15 2 6 MLA Quarters 20 1.47 0 0 0 0 0 0 UG long 0 0 0 6 MLA Quarters 1 Maruthi Nacar 2 BRK Bhavan 3 Lakdi-Ka-Pool 4 AG feeder 5 Gunfoundry Key SS 6 Nampally Key SS 7 Kharitabad 8 J.Block 9 MGV 0 Lanard Nacar 20; 1.47 80; 2,44 100 60 100; 1.92 90 100 170; 5,47 0 15 15 5 HUSSAINSAGAR 0 1 4 8 8 (City-I,VII) Ŏ 5MVAX4 6 6 0 15 0 0 0 6 6 0 15 15 15 Ö 6 7,5MVAX3 Ö Ö 0 15 0 15 May/03 UG. May/03 0 Ō 60 0 0 UG 567 Mav/03 UG, Mav/03 4 UG, Mav/03 UG, Mav/03 3 UG, Mav/03 51 Mav/03 567 UG Mav/03 UG MGV Anand Nagar Inst.of Engineers HACA Tekphone Bhavan-Secretariat Pro 50 68 160 4.98 18 0 50 22.667 20 200 110 Ō 0 0 0 0 8 0 4 Û 0 ŏ 0 110 90 60 40 3.69 30 10 60 130 400 10 10 10 10 10 10 10 10 10 10 100 100 100 100 100 RBI Û Û KBI Secretariat Adarsh Nagar Lumbini Park I.G.Mint Andhra Bank+ECR(Mint Comp 0 129 65 0 153 Õ 0 2 Ö 0 24 24 153 51 May/03 41 13.667 UG, May/03 5 5 UG, May/03 41 n n 0 S SIGG, May/03 UG 14 7 May/03 142 10.923 May/03 0 0 UG, May/03 0 0 Andra Bratt-ECQMart TankBund Basheer Bagh LIC Multi purpose 14 41 0 101 101 13 3.42 12 1 n 0 0 1.9 4 ECR 5 Secretariet Press 6 Multi purpose UG New UG New 5.2 City-VII,April/03 26 130 6.75 26 52 0 0

						Nos of		Nos of				Fa	ult(per	month)			
Su	ubstation Name		Name of Feeder	Max Load (A)	Length (km)	sectio-	Nos of spur line	alternate	(1)	Interru	ption	(2) Ì	Break g	lown		(1) + (2)	Remarks
				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	(6.11)	SW	apar inc	line	No	Minute	Misse/No	No	Minute	Minut/No	No	Minute	Minute/No	
6	CHILKAL-	1	Dandu pentaiah	75	2.8	_ 1	3	1	4	29	7.25	1	32	32	5	61	12.2	City-V,April/03
	GUDA	2	Pragatools	75		2	3	1	2	24	12	0	0		2			City-LApril/03
	8MVAX2		New Boiguda	90		0	1	0	2	27	13.5	1	13	13	3			Cty-V,April/03
		4	P.R.Nagar	85	3	1	5	1	7	58	8.29	0	0		7	58	8.2857	City-V,April/03
		5	Parsigutta	110	6.63	4	6	2	1	4	<u>'4</u>	0	0		1	4		City-II, April/03
			Musheerabad	120	2.29	2	4	1	5	30	6		0		_5	30		City-I,April/03
		7	GolcondaX Road	150	3.15	3	4	2	1	7	7	0	0		1	7	7	City-II, April/03
7	EXHIBITION	1	Jawaharlal Nehru	175	3:25	3	4	2	5	116	23.2	0	0		_ 5	116	23.2	City-I,April/03
	GROUNDS	2	Nampally Hospital	150	5.74	1	5	2	6	93	15.5	0	0		. 6	93	15.5	City-VII,April/3
	8MVAX3	3	Collection Office	110		_		-	3	40	13.3	0	0		3	40	13.333	April/03
		4	Exhibition Gandhi Bhavan														 	
		5	Seetharampet	140		_			8	123	15,4	0	0		8	123	15.375	Aprol/3
		6	Exhibition - Ajantha Gate	2					0	0			0		0	0		Aprol/3
		7	Ware House	70	1.32	0	1	1	2	20	10	0	0		2	20	10	City-I,New,April/03
		8	Exibition	_				-		_								City-I,UG,New
8	GOLCONDA	1	Golconda	100	5.32	0	2	0	7	45		0	0					City-VII, April/03
	8MVAX2	2	Motimahal	180	14.7	0	7	2	9	75		3	90					City-VII, April/03
		3	Adityanagar	100	_	1	4	2	8	60		2	60					City-VII, April/03
		4	Darga	70	13.7	2	10	1	9	155		2	_150					City-VII, April/03
		5	Waterworks	5	0.86	0	0	0	3	20		1	55					City-VII, April/03
1			Q.Q.Tombs	20					4	20		1	37					April/03
		7	Colconda AB Cable	55	6.36	1	3	2										City-VII

				Max	Length	Nos of Sectio-	Nos of	Nos of					ilt(per i		)			
Sı	ibstation Name		Name of Feeder	Load(A)	(km)		spur line	alternate		Interru	_		reak d			(1) + (		Remarks
_		·	<u></u>			_sw	-	line	_	Minute		-	Minute	Mining/No	No	_	Minute/No	
9	INDUSTRIAL		Shankermutt		7.98		5	3		13	_	0	0			13		April/03
	AREA(City-II)		Ram Nagar		4.67	2	4	2	_	29		0	0		4	29		April/03
	8MVAX3	_	R.O.M		3.48	0	· · · · ·	1	2	62	31	.0	0		2	62		April/03
		<u> </u>	11 KV DDH		8.97			2		82		0	0		10			April/03
			11 KV RTC X road	110		5	4	3		69		0	0		5	69		April/03
			Azamabad	100	5.42	5	4	1	6	73		0		_	6			April/03
			Barkatpura	180		3	_	3			8.43	0	0	_	7			April/03
		_	11 KV_VST	80	1.35	0		0	0	<u> </u>		0	0		0			UG,April/03
			11 KV Azamabad Key SS	60		0	3	1	4	51	12.8	1	63	63	5	114	22.8	UG,April/03
		10	11kV DDH UG		1.48	1	1	0										UG
10	NARAYAN-		Lingampally	145		4	7	2	7	61	8.71	0	0		7	_		City-I,II,April/(
	GUDA [	2	Chikkadpally	55	3.48	2	4	2	2	20	10	0	0		2	20	10	City-II, April/0
	8MVAX2	3	Narayanaguda	85	3.58	2	5	1	5	55	11	1	45	45	6		16.667	City-I,II,April/0
		4	Preventive medicine	95	4.77	1	5	1	2	13	6.5	3	144	48	5	157	31.4	City-II,April/0
		5	Preventive medicine(UG)		3.4	0	1	0										City-II,UG
		• 6	Linganpally		4.6	0	2	0			-							City-L,II,UG
11	INDIRA	1	Vivek Nagar	150	2.98	1	4	2	4	38	9.5	0	0		4	38	9.5	May/03
	PARK (City-I)	2	Gandhi Nagar		6.74	3	11	3	2	25	12.5	0	0		2	25	12.5	May/03
	8MVAX3	3	Bakaram->TallaBshi	60	5.11	1	7	1	1	9	9	0	0		1	9	9	May/03
		- 4	Jawahar Nagar	50	2.27	0	6	2	1	2	2	0	0	- 1	1	2	2	May/03
1	' F	5	Ashok Nagar	175	3.85	1	7	1	4	31	7.75	0	0	_	4	31	7.75	May/03
	ſ	6	R.K.Mutt	120	4.47	0	8	2	2	20	10	- 1	60	60	3	80	26.667	May/03
	F T	7	Lower Tank Bund	150	3.34	3	7	2	- 6	44	7.33	0	0		6	- 44	7.3333	May/03
	l f	8	Kawadiguda	150	2.75	0	4	2	-0	0		0	0		0	0		May/03
		_	Indian Express	40														UG
1			Vaartha											-				UG

### Annex 4.2 - 13

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### Annex 4.2 Results of Substation and Feeders Survey

Hyderabad Central

		- · · ·			Nos of		Nos of				Fau	ult(per 1	nonth	)			
Su	bstation Name	Name of Feeder	Max Load(A)	Length (km)		Nos of spur line	alternate	(1)	Interru	ption	(2) I	Break d	0wn		(1) + (	2)	Remarks
			2000(01)	(	SW	apor mie	line	No	Minute	Minut/No	No	Minute	Minate/No	No	Minute	Minute/No	
12	LAKE	1 Vidyut Soudha	60					0	0		0	0		0	0		UG,may/03
	VIEW(City-I)	2{Dilkusha	105	3.46	1	6	1	5	29	5.8	1	49	49	6	78	13	May/03
	8MVAX2	3 Raj Bhavan															UG
•		4 Lake View	25					0	0		0	0		0	0		no data on Cityl map
		5 Medinova	140	2.79	0	5	1	2	17	8.5	. 0	0		2	17	8.5	May/03
		6 Eenadu	100					1	6	6	0	0		1	6		UG,may/03
13	PUBLIC	1 Parshiram Bhavan	160	0.71	1	2	2	1	5	5	1	45	45	2	50	25	May/03
	GARDEN	2 Nampally OH	180	3.87	1	3	1	2	10	5	0	0		2	10	5	May/03
	(City-I)	3 Ravindra Bharathi	120					1	5	5	0	0		1	5	5	UG,May/03
	8MVAX2	4 Assembly	10					0	0		0	0		0	0		UG,May/03
		5 Nampally															UG
		6 LB Stadium															UG
14	S.D.	1 Police Mess	75	5.55	1	4	1	6	174	29	0	0		6	174	29	City-VII, April/03
	HOSPITAL	2 Crsent Hospital	85	6.84	1	7	3	9	209	23.2	0	0		9	209	23.222	City-VII, April/03
	8MVAX2	3 Hu May/03un Nagar	170	8.72	1	5	1	8	392	49	0	0		8	392	49	City-VI, April/03
		4 Ahmednagar	140	9.17	3	8	2	9	205	22.8	0	0		9	205	22.778	City-VII, April/03
		5 Chacha Nehru Nagar	55	5.35	1	3	0	4	40	10	0	0		4	40	10	City-VII, April/03
		6 S.D.Hospital	10					2	61	30.5	0	0		2	61	30.5	April/03

						Nos of		Nos of				Fau	ılt(per r	nonth	)			
Su	obstation Name		Name of Feeder	Max Load (A)	Length (km)	sectio- nalizing	Nos of	alternate	(1)	Interru	ption	(2) I	Break d	lown		(1) + (	2)	Remarks
			-	2000 (11)	((411))	SW		line	No	Minute	Minute/No	No	Minute	M Januar Mo	No	Minute	Minute/No	
1	ASMANGADH	1	SAIBABA	140	4.1	2	9	5	1	2	2	0	0		1	2	2	City-VIII,May/03
	(City-VIII)	2	KODANDARAM NGR	130	4.32	2	7	2	5	17	3.4	1	52	52	6	69	11.5	City-VIII, May/03
	8MVAX2	3	VIDYUTH NGR	55	1.82	1	1	1	3	8	2.67	0	0		3	. 8	2.6667	City-VIII,May/03
		4	SHANKESH BZR	120	5.25	2	8	3	3	7	2.33	0	0		3.	7	2.3333	City-VIII,May/03
		5	ASMANGADH	140	5.45	1	12	5	1	2	2	0	0		1	2	2	City-VIII,May/03
		6	TV STATION	10	0.84	0	0	0	0	0		0.	0		0	0		City-VIII, May/03
_																		
2	ATTAPUR (City-	1	NM GUDA	140	_	1	6		16		7.94	0			16		States and states	May/03
	III) 8MVAX2		DEVIGAUGH	150		2	4	4	7	39	5.57	0	-		7			May/03
		3	BHADURPURA	200	9.8		5	3	14		6.79				14			May/03
-		4	KISHAN BAUGH	120	3.26	0	6	0	4	22	5.5	0	0		4	22	5.5	May/03
3	CHANCHALGU	1	CHANCHALGUDA	90	3.36	1	4	1	1	30	30	0	0		1	30	30	May/03
	DA (City-VIII)	2	ARAYA SAMAJ	150	3.9	2	7	3	6	43	7.17	2	75	38	8	118		May/03
	8MVAX3	3	CHOWNI	180	2.35	0	3	1	9	65	7,22	0	0		9	65		May/03
		4	MADANNAPET	90	2.26	0	4	1	3	20	6.67	1	72	72	4	92	23	May/03
		5	SAIDABAD	90	3.59	5	10	5	3	15	5	1	45	45	4	60	15	May/03
		6	GOVT. PRESS															
4	ENT (City-IX)		TROOP BAZAR		1.56	0	5	0		5	5	0			1	5	5	110 14
4	8MVA 5MVA		CENTRAL BANK OF INDIA		2.55		5		_	 14	2	0	0		1	14	-	UG,May/03
			RANGA MAHAL ROAD			· · · · ·	5	-	2			0	0		- 4	14		May/03
			ENT HOSPITAL	45	1.47 0.07	1	-			U					U	0		May/03 UG
			JAM BAGH	105	0.07	1	0	0	11	89	8.09	1	12	12	12	101	8.4167	00 Mav/03
ĺ		_				1			11			0		12	-12			
		0	GURUDWARA	95	2.54	<u>1</u>	6	2	1	5	5		0		Ţ	5	2	May/03

						Nos of		Nos of				Fa	ult(per	month	)			
S	ubstation Name		Name of Feeder	Max Load (A)	Length (km)		Nos of spur line	alternate	(1)	Interru	ption	(2) 1	Break o	lown		(1) + (	2)	Remarks
				~~~~~~	()	S₩		line	No	Minute	Minste/No	No	Minute	Minute, No	No	Minute	Minute/No	
5	FALAKNUMA	1	CRPF															
	8MVAX3	2	C'GUTTA	140	5.15	4	5	_ 2	7	84	12	0	0		7	84	12	City-III, May/0
		3	BARKAS						_									
					•					-								City-III,
		4	FALAKNAMA	80	3.64	1	7	3	4	50	12.5	0	0		4	50	12.5	03/04pre.mon
	1		PMETT		(1)			l	10				-			57		May/03
		<u>5</u>		100 180	6.41 5.6	1	<u></u>	3	10	57	<u>5.7</u> 4.67	0	0		10	28		
		0	CHAIRINAKA	180	5.0	1	0	3	6	28	4.0/	<u> </u>			6	28	4.6667	City-III, May/03
6	KARWAN	1	ZIAGUDA	160	5.88	2	7		7	79	11.3	3	147	49	10	226	126	City-IX,April/03
v	8MVAX2		KARWAN	170			6	- 1	6	30	5	2	147	70	8			City-JX, April/0
			TALLAGADDA	170		1		- 4	4	28	7	1	40	40	- 5			City-IX,April/03
			LANGER HOUSE		10.15	1	7		4	35	8.75	3	177	59	7			City-VII,April/0
								<u> </u>			0.72							
7	KHILWATH	1	TELEPHONE EXCHANGE	80	5.81	0	4	0	4	21	5.25	0	0		4	21	5.25	UG,May/03
	(City-III)	2	KHILWATH	150	4.31	1	5	2	6	30	5	0	0	1	6	30	5	May/03
	8MVAX2	3	CHARMINAR	140	3.75	0	3	2	2	10	5	0	0		2	10	5	May/03
	! [4	MOGHALPURA	200	6.72	2	6	3	6	30	5	0	0		6	30	5	May/03
		5	LALDARWAZA	200	5.95	2	7	5	10	62	6.2	0	0		10	62	6.2	May/03
			IQ BAL-UD-DOULA			0	1	0										
8	KANCHANBAG		OWASI HOSPITAL			0	0	0	0	0		0	0		0	0		City-VIILUG,May/03
	H 8MVAX2	2		70		2	4	1	2	10	5	0	0		_ 2	10		City-VIII,May/03
	1		IS SDAN	110	2.73	0	4	0	3	19	6.33	0	0		3	19		City-VIII,May/03
		_	DARGA	140					5	90		0	0		5	90		May/03
	ÍÍ	5		55		2	7	5	3	19	6.33	0	0		3		_	City-III,May/03
		6	KANCHAN BAUGH	5	1.57	1	2]	1	0	0		0	0	- 1	0	0		City-VIII,May/03

						Nos of	Nos of	Nos of				Fai	ult(per	month)			
S	ubstation Name		Name of Feeder	Max Load (A)	Length (km)	sectio- nalizing		alternate		Interru	_		Ireak c			(1) + (Remarks
					· · · ·	_sw	-	line	No	Minute			Minute	Hiness No	No		Minute/No	
9	MALAKPET	1	DABEERPURA	160	1.41	2	2	0	3	47	15.7	0	·		3	47	15.667	City-VIII,April/03
	8MVAX3	2	MALAKPET (EM)	150		_	6	0	1	65	65	0	0		1	65	65	City-VIII, April/03
		3	AKBERBAUGH	130	2.63	_ 2	4	_ 2	3	85	28.3	0	0		3	85	28.333	City-VIII,April/03
		4	AIR	10	1.32	5	0	0	1	107	107	1	2,911	2,911	2	3,018	1509	City-VIII,April/03
		5	CHADERGHAT (EM)	170	3.92	3	6	_ 2	7	100	14.3	0	0		7	100	14.286	City-VIII, April/03
] [6	AZAMPURA	180	4,1	4	6	2	9	224	24.9	0	0		9	224	24.889	City-VIII, April/03
ł	} [7	MM HOSPITAL	10	2.96	0	1	3	1	3	3	0	0		1	3	3.	UG,City-VIII,April/03
		8	KACHIGUDA	150	4.13	2	7	1	6	147	24.5	0	0		6	147	24.5	City-II,April/03
10	MIRALAM	1	ZOOPARK	180	8.89	2	5	1	10	99	9.9	0	0		10	99	9.9	May/03
	(City-III)	2	INDUSTRIAL	180	5.99	_ 1	7	1	7	29	4.14	0	0		7	29	4.1429	May/03
	8MVAX3	3	TADBAN	170	6.83	0	7	4	15	109	7.27	0	0		15	109	7.2667	May/03
		4	FATHE DARWAZA	140	3.85	1	5	2	4	23	5.75	0	0		4	23	5.75	May/03
		5	SHAMSHER GUNJ	190	6.44	0	5	3	3	15	5	0	0		3	15	5	May/03
		6	WATER WORKS (ETM) (M.F.B)	20	2.45	1	1	0	1	4	4	0	0		1	. 4	4	May/03
		7	JAHNUMA (EM)	140	4.69	1	3	2	5	28	5.6	0	0		5	28	5.6	May/03
																	•	May/03
11	MOOSARAMBA	1	SBI COLONY	30	2.18	1	4	1	1	5	5	0	0		_1	5	5	May/03
	GH (City-VIII)	2	SRIPURAM CLY	65	3.08	- 1	3	0	2	15	7.5	0	0		2	15	7.5	May/03
	8MVAX2	3	SALEEM NGR	70	3.58	2	6	2	2	10	5	0	0		2	10	5	May/03
	1 1	4	SV NAGAR	70	2.83	0	5	0	5	25	5	4	385	96	9	410	45.556	May/03
	[[5	AB COLONY	130	5.5	1	9	3	0	0		0	0		0	0		May/03
		6	DILSUKH NGR	65	3.03	1	7	1	0	0	_	0	0		0	0		May/03
														_	_			

					Nos of		Nos of		_		Fas	ilt(per :	month)			
Su	bstation Name	Name of Feeder	Max Load (A)	Length (km)	sectio- nalizing	Nos of	alternate	(1)	Internu	ption	(2) E	Break d	lown		(1) + (2)	Remarks
		<u>.</u>		(SW	opos mile)ine	No	Minute	Minute/No	No	Minute	la jangga Mag	No	Minute	Minute/No	
12	OSMANIA.	1 BEGUM BAZAR	140	3.19	3	8	3	0	0		0	0		0	0		City-IX,May/03
	HOSPITAL	2 PURANA PHOOL	130	2.72	0	5	4	3	14	4.67	0	0		3	14	4.6667	City-IX, May/03
	8MVAX3	3 HIGH COURT	20	2.49	0	2	0	1	5	5	0	0		1	5	5	City-III, UG, May/03
		4 PUTHLI BOWLI	80	1.76	1	2	2	4	15	3.75	1	43	43	5	58	11.6	City-IX,May/03
		5 GOWLIGUDA	10	1.18	1	4	1	0	0		1	42	42	1	42	42	City-IX, May/03
		6 OSMAN GUNJ	130	3.08	. 1	6	0	2	5	2.5	0	0		2	5	2.5	City-IX, May/03
		7 OSMANIA HOSPITAL	10					1	2	2	0	0		1	2	2	May/03
		8 GOWLIGUDA TEL EXCHA						7	33	4.71	1	25	25	8	- 58	7.25	May/03
13	SALARJUNG	1 SALARJUNG	60	1.96	0	0	0	3	110	36.7	1	5	5	4	115	28.75	UG,02/03
[[8MVAX3	2 MADINA	180	5.43	2	7	2	9	32	3.56	0	0		- 9	32	3.5556	May/03
		3 HUSSAINILALAM	130	5.67	2	4	3	4	27	6.75	0	0		4	27	6.75	May/03
		4 PATHARGATTI	180	3.68	0	4	0	1	10	10	Ö	0		1	10	10	May/03
		5 YAKUTPURA	190					8	83	10.4	0	0		8	83	10.375	May/03
		6 PURANIHAVELI	200	5.71	1	5	3	9	65	7.22	0	0		9	65	7.2222	May/03
	1	7 DARULSHAFA	100	2.14	0	2	1	0	0		0	0		0	0		May/03
14	SANTOSH	1 SANTOSH NAGAR	50	0.95	0	1	0	0	0		0	0		0	0		City-VIII,April,May/03
	NAGAR	2 REIN BAZAR	140	1.86	0	3	. 2	1	10	10	0	0		1	10	10	City-VIII,May/03
	8MVAX3	3 DRYLAND	90	1.95	0	3	1	3	40	13.3	0	0		3	40	13.333	City-VIII,May/03
		4 BHAVANI NAGAR	170	5.76	2	8	3	6	53	8.83	0	0		6	53	8.8333	City-VIII,May/03
		5 EDI BAZAR	210	5.2	5	7	1	14	135	9.64	0	0		14	135	9.6429	City-VIIJ,May/03
		6 RIYASATH NAGAR	100	4.97	2	6	2	6	53	8.83	0	0		6	53	8.8333	City-111.02/03,May/03
		7 MOINBAGH	110	6.62	1	7	3	8	110	13.8	0	0		8	110	13.75	City-II1.02/03,May/03

Hyderabad South

						Nos of		Nos of				Fa	ult(per 1	month)			
Su	ubstation Name		Name of Feeder	Max Load (A)	Length (km)	sectio- nalizing	Nos of sour line	alternate	(1)	Interru	ption	(2) I	Break d	lown		(1) + (2)	Remarks
					(,	s₩		line	No	Minute	Missic/No	No	Minute	Himmile)	No	Minute	Minute/No	
15	SEETARAMBA	1	SEETHARAMBAGH	90	2.12	2	3	2	4	14	3.5	0	0		4	14	3.5	City-IX,April/03
1	GH	2	DHOOLPET	160	4.13	3	7	0	4	50	12.5	1	53	53	5	103	20.6	City-IX,April/03
	8MVAX2,5MVA	3	ASIFNAGAR	70	2.49	1	5	0	1	4	4	0	0		1	4	4	City-VII, April/03
		4	AGAPURA	70	1.7	1	6	0	4	58	14.5	0	0		4	58	14.5	City-IX,April/03
		5	ZINCHICHOWRAHA	140	3.9	1	11	0	11	76	6.91	0	0		11	76	6.9091	City-IX,April/03
	-	6	DATTATREYA	110	6.93	1	6	1	2	10	5	0	0		2	10	5	City-VII,April/03
16	SULTAN	1	SULTAN BAZAR	165	3.48	3	8	8	7	50	7.14	0	0		7	50	7.1429	City-IX,April/03
	BAZAR	2	KOTI FEEDER	185	3.44	3	4	1	2	10	5	0	0		2	10	5	City-IX,April/03
	8MVAX2	3	KENDRIYA SADAN	140	2.91	1	5	1	1	8	8	0	0		1	8	8	City-II, Apri/03
		4	TARAKARAMA	195	4.24	12	7	3	8	76	9.5	0	0		8	76	9.5	City-IX,April/03
		5	IMA UG		3.24	0	3	1										City-II,UG
17	CRPF (City-III)	1	JAMAL BANDA	80	1.37				0	0		0	0		0	0		May/03
	7.5MVAX2	2	BARKAS	50	1.33	2	5	1	2	15	7.5	0	0		2	15	7.5	May/03
		3	SALAL	130	4.17				6	30	5	0	0		6	30	5	May/03
		4	CRPF BAZAR	36	4.2				3	36	12	0	0		3	36	12	May/03
		5	BALAPUR	125	7.88				- 4	18	4.5	0	0		4	18	4.5	May/03
		6	KESHAVAGIRI	145	4.8				7	45	6.43	1	35	35	8	80	10	May/03

Annex 4.3 Outage Data and Outage Energy

Annex 4.3 Outage Data and Outage Energy

	a Redo																
			1	<u>1kV</u>	feeder		_			lt(per n		·			Interrupt		Int.+B.D.
No.	Nonh, South	Name	NT-	Data		(\mathbf{n})	nterru	ption	(2)	Break	down		(<u>1) + (</u> 2	<u> </u>	Outage	B.D. Outage	Outage
			No	No	Max Load(A)	No	minute	Minute/No	No	Minute	MintelNo	No	Minute	Minste/No	Energy (kWh)	Energy (kWh)	Energy (kWh
1	Ň	Gachibowli(GACH)	4		120	12	123	10.3	1 0	0		12	123	10.3	9,590	0	9,590
									t								<u> </u>
2	N	I I I T(Indian Institute of Information Tchnology)	4	3	32	1	5	5.0	0	0		1	5	5.0	204	0	204
3	Ň	Aliabad(ALIA)	7 (nin	6 al 2)	500	75	260	3.5	0	0		75	260	3.5	70,736	0	70,736
4	N	Chandanagar(CHAN)	4		630	60	650	10.8	2	70	35.0	62	720	11.6	229,099	30,154	259,253
Ś	N	Dommarapochampally(DOMM)	4	4	464	25	180	7,2	0	0		25	180	7.2	47,384	0	47,384
6		ESCI	3	0		25	180	7.2	0			25	180	7.2			
7	N	Gundlapochampally(GPPL)	4	0		47	255	5.4	0	0		47	255	5,4			
8	N	Jeedimetla-1(JEED)	7	7	985	52	345	6.6	5		58.0	57	635	11.1	111,489	78,501	189,990
9		Jeedimetla-2(JEEI)	6			43	270	6.3	9		54.6	52	761	14.6	77,878	142,107	219,985
10	N.	Kukatpally(KUKA)	7			38	395	10.4	Ō			38	395	10:4	125,489	0	125,489
11		Medchal(MEC)	8	8		157	850	5,4	4	185	46.3	161	1035	6.4	268,401	52,429	320,830
				u 3)					· ·							,	,
12	N	Medicity(MEDI)	3			25	135			70	70.0	26	205	7.9			
				ul 3)					1			-*					1
13	N	Charlagally(CHER)_	6		770	4	20	5.0	3	325	108.3	7	345	49,3	7,142	98,736	105,878
13		Gatkesar(GATK)	8	7	415	10	62	6.2	- ŏ			10	62	6.2	7,459	0	7,459
15		Keesara(KEES)	3	3		0			Ō			0	0		Ó	0	0
16		Malkajgiri(MLKJ)	4	4		Ő	0		<u></u> 2	90	45.0	2	90	45.0	0	23,692	23,692
17	N	Mallapur(MALL)	4				15	5.0	$\frac{1}{2}$	165	82.5	5	180	36.0	3,401	37,409	40,809
18	N	Moulali(MOUL)	8			3	15	5.0	- 3	125	41,7	6		23.3	3,628	24,599	28,226
19		Nacharam(NARC)	7	. 7	705	3	15	5.0	1	65	65.0	4	80	20.0	5,101	4,421	9,522
20		NGRI(NGRI)	6		730	22	176	8,0	-	65	65.0	23	241	10.5	36,615	30,947	67,562
21		Sainikpuri(SAIN)	Ť	7	1080	18	100	5.6	6		64.2	24	485	20.2	34,801	116,987	151,788
22		Uppal(UPPA)	7	5	580	15	80	5.3	1	75	75.0	16	155	9.7	22,332	22,105	44,437
22		Kothapet(KOTH)	4		370	25	119	4,8	3	240	80.0	28	359	12.8	31,854	92,501	124,355
23 24		Katedan(KATE)	5	5	880	36	189	5.3	5	828	165.6	41	1017	24.8	78,399	400,748	479,148
25		AP Police Academy(APPA)	3	3		5	25	5.0	1	50		6	75	12.5	4,829	20,405	25,234
26		Champapet(CHAMP)	5	5		65	204	3.1	4		54.3	69	421	6.1	57,655	53,007	110,661
<u>~</u> 0.		Champaper(Crinishi)			510,		204				54.5			0.1	57,055		2201000
		·	1	ikV i	feeder				Faul	li(per m	onth)	_			Interrupt	B.D. Outage	Int.+B.D.
No.	Harth, South	Name		Data		(1) I	nterrup	noit		Break of		(1) + (2))	Outage		Outage
			No	No	Max Load(A)		minute		No	Minute	Minute/No	No	Minute	Missie/No	Energy (kWh)	Energy (kWh)	Energy (kWh)
27	S	Gaganpahad(GAGA)	6	6	620	62	739	11.9	4	637	159.3	66	1376	20.8	230,732	88,511	319,243
28		Hayatnagar(HAYAT)	7	7		34	134	3.9	2	85	42,5	36	219	6.1	25,857	17,684	43,541
29		Ibrahimbagh(IBRA)	5	5		41	256	6.2	4	300	75.0	45	556	12.4	67,970	68,356	136,326
30		Mamidipally(MAMI)	4	4		20	105	5.3	3	135	45,0	23	240	10.4	33,611	50,105	83,716
	-		(rura														
31	S	NationalPoliceAcademy(NPPA)	5		433	13,	65	5.0	- 5	115	23.0	18	180	10.0	16,312	27,116	43,428
			(rura	11)							.						
32	S	Shamshabad(SHAM)	5	5	600	29	795	27.4	8	453	56.6	37	1248	33.7	230,800	146,574	377,373
			(пита	13)				1			1	1		_			
33	S	Turkayamjal(TURK)	2	2	240	20	1439	72.0	1	45	45.0	21	1484	70.7	391,498	12,243	403,741
34		Vanastalipuram(VANA)	4	4	590	81	2052	25,3	6	400	66,7	87	2452	28.2	690,291	138,525	828,816
35		Bandlaguda(BAND)(132/33/11kV)	3	3	265	53	271	5.1	0	0		53	271	5.1	74,522	0	74,522
		North Total	121		11548	638	4131	6.5	40	2401	60.0	678	6532	9.6	1,060,749		1,722,836
		South Total	58	58	6205	484	6393	13.2	46	3505	76.2	530	9898	18.7	1,934,331	1,115,774	3,050,105
		Gross Total	179	163	17753	1122	10524	9.4	86	5906	68.7	1208	16430	13.6	2,995,080	1,777,861	4,772,941
Avera	<i>яе</i> пег	feeder															
Avera	ge per	feeder	1	kV f	eeder				Faul	t(per m	onth			1	laterrupt		Int.+B.D.
Avera	ige per				eeder	(1) h	nterrun	tion		t(per m Break d			1) + (2)		laterrupt Outage	B.D. Outage	
Avera	ige per	feeder	1 No	Data	eeder Max Lond(A)		nterrup		(2)	Break d	lown		1) + (2) Minuteli		Outage	Faerow (LWA)	Outage
Avera	ige per	Area			Max Lond(A)	No	minute	Minute/No	(2) No	Break d Minute	lown Mines/No	No	Minute	Kinets/Ka	Outage Energy (kWh)	Eaergy (kWb)	Outage Eoergy (kWh)
Avera	ige per	Area North		Data	Max Lond(A) 	No 5.8	minute 37.7	Missute/No 6.6	(2) No 0.6	Break d Minute 36.4	lown Minute/No 60.0	No 5.7	Minute 55.6	Hinddo/No 9.7	Outage Energy (kWh) 	Energy (kWb) 5,517	Outage Energy (kWh) 14,357
<u>Avera</u>	ige per	Area		Data	Max Lond(A)	No 5.8 8.5	minute	Missute/No 6.6	(2) No 0.6 1.0	Break d Minute 36.4 79.7	10wn Minwetto 60.0 76,2	No 5.7 9.1	Minute	Kinets/Ka	Outage Energy (kWh)	Eaergy (kWb)	Outage Ecergy (kWh)

List of Substations Covered by SCADA(Outage Energy Study)

- You	rabad C			11kV 1	feeder				Fat	uit(per me	onth)				Interrupt		Int,+B,D,
No.	North, Central,	Name		Data		(1)1	nterru	ntion		Break			1) + (2)		Outage	B.D. Outage	
	South	June	No	No	Max Load(A)	No	minute	Minute/No	No	Minute	Minote/No	No	Minute	Mizak/No	Energy (kWb)	Energy (kWh)	Energy (kWh
		Gunrock(132/33)(City-V)	1	1	130	5	42	8.4	0	0			42	8,4	12,379	- 0	12,379
1	N	Gunrock(132/33)(City-VI)	7	5		41	240	5.9	6	205	34.2	47	445	9.5	66,111	64,048	130,159
2	N	Jubilee Hills(132/33)(City-IV)	5			11	12	1.1	0	0	-	11	. 12	1.1	2,177	0.1	2,17
	м	Jubilee Hills(132/33)	3														
3	N	Air Port(City-IV)	6			б		11.2	1	60	60.0	7	127	18.1	26,141	19,044	45,18
. 4	N	Allwyn SS(City-IV)	8			10		4.0	4	207	51.8	14	247	17.6	5,872	24,350	30,22
5	N	Banjara Hills Road No. 12(City-I)	1			8		6.3	3	371	123.7	13	421	38.3	14,170	105,141	119,31
		Banjara Hills Road No.12(City-	5			17		7.5	8	815	101.9	25	943	37.7	24,520	201,100	225,61
6	N	Banjara Hills Road No.2(City-IV	6			17	. 57	3.4	1	55	55.0	18	112	6.2	12,118	8,729	20,84
_7	N	Begumpet SS(City-IV)	8			9	61	6.8	5	127	25.4	14	188	13.4	20,813	51,159 0	71,97
8	N N	Bowenpally(City-VI)	6			26		7.7	- 0	0 37	#DIV/01 37.0	26 14	199 144	7.7	65,964 46,727	18,455	<u>65,96</u> 65,18
10	N	Clock Tower(City-V) Film Nagar(City-IV)	6			8		6.1	0	3/	- 57.0	8	49	6,1	6,076	10,400	6,0
11	N	Grennland SS(City-IV)	4			15		4.9	Ő	0		15	73	4.9	32,251	Ő	32,2
		H.A.L(City-VI)	5		460	3		6.7	2	130	65.0	5	150	30,0	5,668	56,000	61,60
12	N	H.A.L	1						-							,	
10		H.M.T(City-VI)	3			19	143	7.5	7	219	31.3	26	362	13.9	32,625	40,900	73,52
13	N	H.M.T	2	0													
14	N	Hakimpet(City-VI)	4			20		9.0	1	20	20.0	21	200	9.5	37,624	3,401	41,02
15	N	I.D.P.L(City-VI)	6			26	146	5,6	1	40	40.0	27	186	6.9	41,059	11,789	52,84
		I.D.P.L	3				I		L								
16	N	James Street(City-V)	4			4	52	13.0	1	69	69,0	5	121	24.2	11,744	14,079	25,8
		James Street	2										,				
17	N	Kalyan Nagar(City-IV)	8			13		5.5	2	69	34.5	0	0 675	17.3	17,865	13,603 114,085	247.16
18	Ņ	Lalaguda(City-V)	5			36		10.5	3	296 151	98.7 75.5	<u>39</u> 17	266	17.3	133,084	20,541	247,10
19	N	Madhhapur(City-IV) Madhhapur	4			15	115	1.1	- 2	151	د.د،		200	13'0	17,437	20,341	57,9
		Maredpally(City-V)	3			9	42	4.7	2	55	27.5		97	8.8	13,966	16,675	30,6
20	N	Maredpally(City-VI)	3			5		4.0	Õ	0		5	20	4,0	2,528	0	2,5
21	N	Mytrivanam(City-IV)				18		8.0	3	125	41.7	21	269	12,8	35,413	51,012	86,42
-		NIMS(City-I)	2			5		16.0	2	1578	789.0	7	1658	236.9	12,923	303,395	316,31
22	N	NIMS(City-IV)	7		545	16	156	9.8	8	944	118.0	24	1100	45.8	53,245	369,042	422,2
23	N	Osmania University(City-II)	1			7		16.6	0	0		7	116	16,6	36,819	0	36,8
- 20		Osmania University(City-V)	3			4		6.0	2	135	67.5	· 6	159	26.5	3,673	38,259	41,9
	_														115,341		
24	N	Patigadda	6			24		13.4	2	236		26	558	21.5		101,661	
24		Patigadda Praga Tools(City-VI)	4			24		13.4	2	236 312	118.0 52.0	20	514	22.3	61,327	103,656	217,00
	<u>N</u>		4	4	460				6	312	52.0				61,327		164,98
_25	North,	Praga Tools(City-VI)	4	4 11kV	460 feeder	17	202	11.9	6 Fa	<u>3</u> 12 ult(per m	52.0 onth)	23	514	22.3	61,327 Interrupt	103,656 B.D. Outage	164,98
_25	North, Central,		4	4 11kV Data	460	17 (1))	202	11.9	6 Fa (2)	312 ult(per m Break	52.0 onth) down	23	514 1) + (2	22.3	61,327 Interrupt Outage	103,656	164,91 Int.+B.D Outage
_25 No.	North, Central, South	Praga Tools(City-VI) Name	4 No	11kV Data No	460 feeder Max Load(A)	17 (1)) No	202 Interruj minute	11.9 otion Minute/No	6 Fa (2) No	312 ult(per m Break Minute	52.0 onth) down Misste/No	23	514 1) + (2 Minute	22.3	61,327 Interrupt Outage Energy (kWh)	103,656 B.D. Outage	164,9 Int.+B.D Outage Energy (kV
_25 No. 26	North, Central, South N	Praga Tools(City-VI) Name R.P. Nilayam(City-VI)	4	11kV Data No 3	460 feeder	17 (1))	202 Interruj minute 185	11.9	6 Fa (2)	312 alt(per m Break Minute 0	52.0 onth) down Misste/No	23	514 1) + (2 Minute 185	22.3	61,327 Interrupt Outage	103,656 B.D. Outage Energy (kWh)	164,91 Int.+B.D Outage Energy (kW 40,80
_25 No.	North, Central, South	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethaphal Mandi(City-II)	4 No 4	4 11kV Data No 3 1	460 feeder Max Load(A) 310 155	17 (1)) No 15	202 Interruj minute 185 9	11.9 otion Minute/No 12.3	6 Fa (2) No	312 ult(per m Break Minute 0 0	52.0 onth) down Nisste/No	23 No 15	514 1) + (2 Minute 185	22.3	61,327 Interrupt Outage Energy (kWh) 40,809	103,656 B.D. Outage Energy (kWh) 0	164,91 Int.+B.D Outage Energy (kW 40,80 3,10
_25 No. _26 _27	North, Central, South N N	Praga Tools(City-VI) Name R.P. Nilayam(City-VI)	4 No 4 1 4	4 11kV Data No 3 1 4 4	460 feeder Max Load(A) 310 155	17 (1)) No 15 2	202 Interruj minute 185 9 64	11.9 tion Minute/No 12.3 4.5	6 Fa (2) No 0	312 ult(per m Break Minute 0 0	52.0 onth) down Nisste/No	23 No 15 2	514 1) + (2 Minute 185 9 64	22.3	61,327 Interrupt Outage Energy (kWh) 40,809 3,163	103,656 B.D. Outage Energy (kWh) 0 0	164,9 Int.+B.D Outage Energy (kV 40,8 3,1 16,6
_25 No. 26	North, Central, South N	Praga Tools(Citv-VI) Name R.P. Nilayam(City-VI) Seethaphal Mandi(City-VI) Seethaphal Mandi(City-V)	4 No 4 1 4 5	4 Data No 3 1 4 5 0	460 feeder Max Load(A) 310 155 360 720	17 (1)) No 15 2 11 18	202 Interruj minute 185 9 64 100	11.9 Minute/No 12.3 4.5 5.8 5.6	6 Fa (2) No 0 0	312 Break Minute 0 0 0 20	52.0 onth) down NissterNo 20.0	23 No 15 2 11 19	514 1) + (2 Minute 185 9 64 120	22.3 Minute/No 12.3 4.5 5.8 6.3	61,327 Interrupi Outage Energy (kWh) 40,809 3,163 16,641 34,235	103,656 B.D. Outage Energy (kWh) 0 0 0 0 3,628	164,91 Int.+B.D Outage Energy (kW 40,80 3,10 16,6- 37,80
_25 No. 27 28	North, Central, South N N N	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethaphal Mandi(City-II) Seethaphal Mandi(City-V) Srinagar Colony(City-IV)	4 No 4 1 4 5 1 5	4 11kV Data No 3 1 1 4 4 5 0 0 5	460 feeder Max Load(A) 155 360 720 385	17 (1)) No 15 2 11	202 Interruj minute 185 9 64 100	11.9 tion Minute/No 12.3 4.5 5.8	6 Fa (2) No 0	312 alt(per m Break Minute 0 0	52.0 onth) down Nissie/No	23 No 15 2 11	514 1) + (2 Minute 185 9 64 120	22.3 Mistute/No 12.3 4.5 5.8	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641	103,656 B.D. Outage Energy (kWh) 0 0 0	164,9 Int.+B.D Outage Energy (kV 40,8 3,1 16,6 37,8
_25 No. 27 28 29	North, Central, South N N N N	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethapbal Mandi(City-II) Seethapbal Mandi(City-V) Srinagar Colony(City-IV) Srinagar Colony Yousufguda(City-IV) Yousufguda	4 No 4 1 5 1 1 5 1 1	4 Data No 3 1 4 4 5 0 0 5 5 0	460 feeder Max Load(A) 155 360 720 385	17 (1)) No 15 2 11 18 24	202 Interruj 185 9 64 100	11.9 htion Minute/No 12.3 4.5 5.8 5.6 7.5	6 Fa (2) No 0 0	312 ult(per m Break Minute 0 0 0 0 0 0 0 0 0 0 0 0 0	52.0 onth) down Nisste/No 20.0 98.7	23 No 15 2 11 19 30	514 1) + (2 Minute 185 9 64 120 773	22.3 Mistale/No 12.3 4.5 5.8 6.3 25.8	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001	103,656 B.D. Outage Energy (kWh) 0 0 0 3,628 165,958	164,91 Int.+B.D Outage Energy (kW 40,80 3,10 16,66 37,80 211,92
_25 No. 27 28	North, Central, South N N N	Praga Tools(Citv-VI) Name R.P. Nilayam(City-VI) Secihaphal Mandi(City-VI) Serinagar Colony(City-V) Srinagar Colony Yousufguda(City-IV) Yonsufguda Gymkhand(City-V)	4 No 4 4 5 1 1 1 4	4 Data No 3 1 1 4 4 5 5 5 5 0 0 0 0 4	460 feeder Max Load(A) 310 155 360 720 	17 (1)) No 15 2 11 18 24 24 25	202 Interrup 185 9 64 100 181	11.9 tion Minute/No 12.3 4.5 5.8 5.6 7.5 11.1	6 Fa (2) No 0 0 0 0	312 ult(per m Break Minute 0 0 0 0 20 592 43	52.0 onth) down Nissee/No 20.0 98.7 43.0	23 No 15 2 11 19 30 26	514 1) + (2 Minute 185 9 64 120 773 321	22.3 MinuteAvo 12.3 4.5 5.8 6.3 25.8 12.3	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001	103,656 B.D. Outage Energy (kWh) 0 0 0 3,628 165,958 20,473	164,98 Int.+B.D. Outage Energy (kW 40,88 3,16 16,66 37,86 211,99 211,99
25 No. 27 28 29 30	North, Central, South N N N N	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethapbal Mandi(City-II) Seethapbal Mandi(City-IV) Srinagar Colony(City-IV) Srinagar Colony Yousufgada City-IV) Yousufgada City-IV) Yousufgada City-V) AC Guards(City-I)	4 No 4 5 1 1 5 1 1 4 4 1	4 Data No 3 1 1 4 4 5 0 0 0 0 0 0 4 1	460 feeder Mix Load(A) 310 155 360 720 385 620 115	17 (1)) No 15 2 11 18 24 24 25 3	202 Interrup 185 9 64 100 181 278 51	11.9 bition Minute/No 12.3 4.5 5.8 5.6 7.5 11.1 17.0	6 Fa (2) No 0 0 0 0 1 5 6	312 ult(per m Break 0 0 0 0 0 0 0 0 0 0 0 0 0	52.0 onth) down Nisste/No 20.0 98.7 43.0 24.0	23 No 15 2 11 19 30 26 4	514 1) + (2 Minute 185 9 64 120 773 321 75	22.3 Minute/No 12.3 4.5 5.8 6.3 25.8 25.8 12.3 18.8	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297	103,656 B.D. Outage Energy (kWh) 0 0 3,628 165,958 20,473 6,257	164,9 Int.+B.D Outage Energy (kV 40,8 3,1 16,6 37,8 211,9 125,5 19,5
_25 No. 27 28 29	North, Central, South N N N N	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethapbal Mandi(City-II) Seethapbal Mandi(City-V) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Yousufguda(City-IV) Yousufguda Gymkhaaa(City-V) AC Guards(City-V) AC Guards(City-VI)	4 No 4 1 5 5 1 1 1 1 1 1 1 5 5 5 5 5 1 1 1 1	4 Data No 3 1 4 4 5 5 0 0 0 0 0 0 0 0 1 1 5 5 0 0 0 0 0 0	460 feeder Max Load(A) 310 155 360 720 385 385 620 115 425	17 (1)) No 15 2 11 18 24 24 25	202 Interrup 185 9 64 100 181 278 51	11.9 tion Minute/No 12.3 4.5 5.8 5.6 7.5 11.1	6 Fa (2) No 0 0 0 0	312 ult(per m Break Minute 0 0 0 0 20 592 43	52.0 onth) down Nissee/No 20.0 98.7 43.0	23 No 15 2 11 19 30 26	514 1) + (2 Minute 185 9 64 120 773 321	22.3 MinuteAvo 12.3 4.5 5.8 6.3 25.8 12.3	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001	103,656 B.D. Outage Energy (kWh) 0 0 0 3,628 165,958 20,473	164,9 Int.+B.D Outage Energy (kV 40,8 3,1 16,6 37,8 211,9 125,5 19,5
25 No. 26 27 28 29 30 31	North, Central, South N N N N N N C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Secitapbal Mandi(City-II) Secitapbal Mandi(City-V) Srinagar Colony(City-V) Yousufgada(City-IV) Yousufgada(City-IV) Gymkbana(City-V) AC Guards(City-VI) AC Gaards(City-VII)	No 4 1 4 5 1 1 4 4 1 1 5 1 1 1 1 1 1 1 1 1	4 Data No 3 1 4 4 5 0 0 5 0 0 4 1 1 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	460 feeder 310 155 360 720 385 620 115 425	17 (1)) No 15 2 2 11 18 24 25 3 3 15	202 Interrup 185 9 64 100 181 278 51 165	11.9 Minute/No 12.3 4.5 5.8 5.6 7.5 11.1 17.0 17.0	6 Fa (2) No 0 0 0 0 1 5 6	312 Jlt(per m Break Minute 0 0 0 0 0 0 0 20 592 43 24 347	52.0 onth) down Nisste/No 20.0 98.7 43.0 24.0 69.4	23 No 15 2 11 19 30 26 4 20	514 1) + (2 Minute 185 9 64 120 773 321 75 512	22.3 MinuteAto 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6	61,327 Interrupt Outage Energy (KWA) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103	103,656 B.D. Outage Energy (kWh) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	164,9: Int.+B.D Outage Energy (kV 40,8: 3,1: 16,6: 37,8: 211,9 211,9 125,5: 19,5: 101,8
25 No. 27 28 29 30 31 31	North, Ccairal, South N N N N N N C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethaphai Mandi(City-II) Seethaphai Mandi(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Yousufguda Gymkhana(City-V) AC Guards(City-V) AC Guards(City-VI) AC Guards(City-VI) AC Guards(City-VII) AC Guards(City-VII) AC Guards(City-VII)	4 No 4 4 5 5 1 1 4 4 1 5 5 1 1 6	4 Data No 3 1 1 4 4 5 5 0 0 5 5 0 0 4 4 1 1 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	460 feeder Mits Losd(A) 310 155 3600 7200 385 620 115 425 610	17 (1)) No 15 2 11 18 24 25 3 3 15 28	202 mterruj 185 9 64 100 181 278 51 165 234	11.9 Minute/No 123 4.5 5.8 5.6 7.5 11.1 17.0 11.0 11.0 8.4	6 (2) No 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	312 Break Minute 0 0 0 20 592 43 24 347 154	52.0 ontb) down Nimstelve 20.0 98.7 98.7 43.0 69.4 51.3	23 No 15 2 11 19 30 26 4 20 31	514 1) + (2 Minute 185 9 64 120 773 321 75 512 388	22.3 MinuteAto 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6 12.5	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436	103,656 B.D. Outage Energy (kWh) 0 0 3,628 165,958 20,473 6,257 64,706 50,626	164.9 Int.+B.D Outage Energy (kV 40.8 3,1 16.6 37.8 211.9 125.5 19.5 101.8 114.0
25 No. 26 27 28 29 30 31	North, Central, South N N N N N N C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethapbal Mandi(City-II) Seethapbal Mandi(City-V) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Yousufguda Gynkhoan(City-V) AC Guards(City-VI) AC Guards(City-VI) AC Guards(City-VII) Asif Nagar(City-VII) Asif Nagar(City-VII)	No 4 1 4 5 1 1 4 4 1 1 5 1 1 1 1 1 1 1 1 1	4 Data No 3 1 1 4 4 5 5 0 0 5 5 0 0 4 4 1 1 5 5 0 0 0 6 6 9 9	460 feeder Mis Loa(A) 155 360 720 385 620 115 425 	17 (1)) No 15 2 2 11 18 24 25 3 3 15	202 mterruj 185 9 64 100 181 278 51 165 234	11.9 Minute/No 12.3 4.5 5.8 5.6 7.5 11.1 17.0 17.0	6 Fa (2) No 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	312 Jlt(per m Break Minute 0 0 0 0 0 0 0 20 592 43 24 347	52.0 onth) down Nisste/No 20.0 98.7 43.0 24.0 69.4	23 No 15 2 11 19 30 26 4 20	514 1) + (2 Minute 185 9 64 120 773 321 75 512	22.3 MinuteAto 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6	61,327 Interrupt Outage Energy (KWA) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103	103,656 B.D. Outage Energy (kWh) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	164,9: Int.+B.D Outage Energy (kV 40,8 3,1: 16,6 37,8: 211,9 125,5: 19,5 101,8 114,0
25 No. 27 28 29 30 31 31	North, Ccairal, South N N N N N N C C	Prsga Tools(City-VI) Name R.P. Nilayam(City-VI) Secilaphal Mandi(City-II) Secilaphal Mandi(City-II) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Srinagar Colony Yonsufgada (City-V) AC Guards(City-V) AC Guards(City-I) AC Guards(City-I) AC Guards(City-II) Ac Guards(City-VII) Ac Guards(City-VII) Asif Nagar(City-VII) Asif Nagar(City-VII)	4 No 4 4 5 5 1 1 4 4 1 5 5 1 1 6 6 9 9	4 Data No 3 1 4 4 5 0 0 4 4 1 1 5 0 0 4 4 1 1 5 0 0 0 4 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	460 feeder Mis Lozd(A) 3100 155 3600 7200 	17 (1)) No 15 2 11 18 24 25 3 3 15 28	202 minute 185 9 64 100 181 278 51 165 	11.9 Minute/No 123 4.5 5.8 5.6 7.5 11.1 17.0 11.0 11.0 8.4	6 Fa (2) No 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	312 Break Minute 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	52.0 onth) down Nimute/No 20.0 20.0 98.7 98.7 43.0 24.0 69.4 51.3 105.0	23 No 15 2 11 19 30 26 4 20 31	<u>514</u> <u>Minute</u> 185 9 64 120 773 <u>321</u> 75 512 <u>388</u> 742	22.3 MinuteAto 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6 12.5	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436	103,656 B.D. Outage Energy (kWh) 0 0 3,628 165,958 20,473 6,257 64,706 50,626	164,91 Int.+B.D Outage Energy (kW 40,80 3,10 16,66 37,80 211,92
25 No. 27 28 29 30 31 32 33	North, Ccairal, South N N N N N N C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethaphal Mandi(City-II) Seethaphal Mandi(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Yonsufgada Gymkhaad(City-V) AC Guards(City-II) AC Guards(City-II) Araberpei(City-III) Asif Nagar(City-III) Asif Nagar(City-I)	4 No 4 1 3 5 1 1 1 1 1 1 0 6 9 9	4 11kV Data No 3 1 1 4 4 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	460 feeder Mis Load(A) 3100 1555 3600 7200 	17 (1) 1 No 15 2 2 17 18 24 24 25 3 3 15 28 61	202 minute 185 99 64 100 181 278 51 165 	11.9 Minute/No 12.3 4.5 5.8 5.6 7.5 11.1 17.0 17.0 17.0 17.0 17.0 7.7	6 Fa (2) No 0 0 0 0 0 1 1 1 5 5 3 3 1	312 Minute 0 0 0 0 0 0 0 0 0 0 0 0 0	52.0 ontb) down NissterNo 20.0 98.7 98.7 43.0 69.4 51.3 105.0	23 No 15 22 11 19 26 4 20 31 62	<u>514</u> <u>Minute</u> 185 9 64 120 773 <u>321</u> 75 512 <u>388</u> 742	22.3 MisrateAllo 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6 12.5 12.0	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404	103,656 B.D. Outage Energy (kWh) 0 0 3,628 165,958 20,473 6,257 64,706 50,626 2,381	164.9 Int.+B.D Outage Energy (kV 40,8 3,11 16,6 37,8 211,9 125,5 19,5 101,8 011,8 011,8 011,6 0,7 0,7 0,10,8 0,10,100000000
25 No. 27 28 29 30 31 32	North, Central, South N N N N N C C C	Prsga Tools(City-VI) Name R.P. Nilayam(City-VI) Secilaphal Mandi(City-II) Secilaphal Mandi(City-II) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Srinagar Colony Yonsufgada (City-V) AC Guards(City-V) AC Guards(City-I) AC Guards(City-I) AC Guards(City-II) Ac Guards(City-VII) Ac Guards(City-VII) Asif Nagar(City-VII) Asif Nagar(City-VII)	4 No 4 1 3 5 1 1 4 4 4 1 5 5 1 1 5 5 1 1 2 2 2 2 2 2 3	4 11kV 1 Data No 3 1 1 4 4 5 0 0 0 5 5 0 0 0 4 4 1 1 5 5 0 0 0 0 2 2 2 2 2 2 2 3	460 fceder Miss Lozd(A) 310 1555 360 720 385 	17 No 15 2 11 18 24 25 3 15 28 61 7	202 Interrup minute 185 9 64 100 181 278 51 165 234 637 54 11	11.9 tion Minute/No 12.3 4.5 5.8 5.6 7.5 11.1 17.0 11.0 11.0 11.0 11.0	6 Fa (2) No 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	312 Minute 0 0 0 0 0 0 0 0 0 0 0 0 0	52.0 ontb) down NissterNo 20.0 98.7 98.7 43.0 69.4 51.3 105.0	23 No 15 22 111 19 26 4 20 311 62 7	514 1) + (2 Minute 185 9 64 120 773 775 512 388 742 54	22.3 MistateANO 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6 12.5 12.0 7.7	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404 12,243	103,656 B.D. Outage Energy (kWh) 0 0 3,628 165,958 20,473 6,257 64,706 50,626 2,381 0	164,9: Int.+B.D Outage Energy (kV 40,8: 3,11 16,6: 37,8: 211,9 125,5: 19,5: 101,8: 114,0: 162,7: 114,0: 162,7: 12,2: 3,3:
25 No. 27 28 29 30 31 32 33 34	North, Central, South N N N N N C C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethaphal Mandi(City-II) Seethaphal Mandi(City-II) Serinagar Colony(City-IV) Srinagar Colony(City-IV) Yousufgoda(City-IV) Yousufgoda(City-IV) AC Guards(City-IV) AC Guards(City-II) AC Guards(City-VII) Ac Guards(City-III) Asif Nagar(City-VII) Asif Nagar(City-I) Chikalguda(City-I) Chikalguda(City-I) Chikalguda(City-I) Chikalguda(City-I) Chikalguda(City-I)	4 No 4 1 3 5 1 1 1 5 5 1 1 1 5 9 9 1 1 2 2 2	4 11kV 1 Data No 3 1 1 4 4 5 0 0 0 5 5 0 0 0 4 4 1 1 5 5 0 0 0 0 2 2 2 2 2 2 2 3	460 fccdcr Mis Loa(A) 155 360 720 385 	17 (1) J No 15 2 18 24 24 25 3 15 28 61 7 2 28 61 13 7 7 7	202 Interrup 185 9 64 100 181 181 278 51 165 234 637 54 111 114 136	11.9 MinuteNo 12.3 4.5 5.8 5.6 7.5 7.5 11.1 17.0 11.0 8.4 10.4 7.7 5.5 8.8 8.8 8.9,4	Fa (2) No 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	312 alt(per m Break a 0 0 0 0 0 0 0 20 592 43 24 347 154 105 0 0 0 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0	52.0 onth) down Nime2% 20.0 98.7 98.7 43.0 24.0 51.3 105.0 22.5	23 No 15 2 11 19 30 26 4 20 30 26 4 20 31 622 7 7 25 7 7	514 1) + (2 Minute 185 9 9 64 120 773 321 775 512 388 742 541 111 159 136	22.3 Minute Alto 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.8 12.3 18.8 25.6 12.5 12.0 12.5 12.0 12.5 12.0 12.5 12	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404 12,243 3,378 21,618 49,198	103,656 B.D. Outage Energy (kWh) 0 0 0 0 0 0 0 0 0 3,628 20,473 6,257 64,706 50,626 2,381 0 0 0,0 8,094 0 0 0	164,9: Int.+B.D Outage Energy (kV 40,8 3,1) 16,6 37,8 211,9 2215,5 101,8 101,8 114,0 162,7, 12,2 3,3 29,7 49,1 49,1
25 No. 26 27 28 29 30 31 32 33	North, Central, South N N N N N C C C	Prsga Tools(City-VI) Name R.P. Nilayam(City-VI) Sectiapbal Mandi(City-II) Sectiapbal Mandi(City-V) Sinagar Colony(City-IV) Synawar Colony(City-IV) Synawar Colony(City-IV) Synawar Colony(City-IV) Ac Guards(City-V) Ac Guards(City-V) Ac Guards(City-VII) Asif Nagar(City-VII) Asif Nagar(City-VII) Chikalgueds(City-II)	4 No 4 1 1 5 1 1 5 1 1 5 1 1 5 1 1 5 1 1 6 6 9 9 9 1 1 2 2 2 2 2 1	4 11kV Data No 3 3 1 1 4 4 5 5 5 5 0 0 4 4 1 1 1 5 5 0 0 0 0 0 0 0 2 2 2 2 2 2 2 2 2 1 1	460 feeder Mis Load(A) 310 155 360 720 720 155 620 610 950 950 260 250 250 250 245	17 (1)) No 15 2 18 24 25 3 15 28 61 7 2 13	202 Interrup 185 9 64 100 181 181 278 51 165 234 637 54 111 114 136	11.9 Minute/No 12.3 4.5 5.8 7.5 111.1 17.0 11.0 11.0 11.0 12.0 12.3 7.5 8.4 10.4	Fa (2) No 0 0 0 0 0 0 0 0 0 1 1 1 5 5 5 3 3 1 1 0 0 0 0 2	312 alt(per m Break a 0 0 0 0 0 0 0 20 592 43 24 347 154 105 0 0 0 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0	52.0 onth) down Nime2% 20.0 98.7 98.7 43.0 24.0 51.3 105.0 22.5	23 No 15 2 11 19 266 4 20 31 62 7 2 15	514 1) + (2 Minute 185 9 9 64 120 773 321 775 512 388 742 541 111 159 136	22.3 MinuteAvio 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6 12.5 12.0 7.7 5.5 10.6	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404 12,243 3,378 21,618	103,656 B.D. Outage Energy (kWh) 0 0 0 3,628 105,958 20,473 6,257 64,706 50,626 2,381 0 0 0 0 0	164,9: Int.+B.D Outage Energy (kV 40,8 3,1) 16,6 37,8 211,9 2215,5 101,8 101,8 114,0 162,7, 12,2 3,3 29,7 49,1 49,1
25 No. 27 28 29 30 31 32 33 34	North, Central, South N N N N N C C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Secthapbal Mandi(City-II) Secthapbal Mandi(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Srinagar Colony Yousufguda (City-IV) Gymkhana(City-V) AC Guards(City-IV) AC Guards(City-IV) AC Guards(City-II) Asif Nagar Chikalgeeds(City-II) Chikalgeeds(City-I) Chikalgeeds(City-I) Chikalgeeds(City-I) Chikalgeeds(City-I) Exibition Ground(City-VII) Exibition Ground(City-VII)	4 No 4 1 1 5 5 1 1 1 5 5 1 1 1 5 5 1 1 1 2 2 2 2	4 11kV Data No 3 3 1 1 4 4 5 5 5 5 5 5 5 5 0 0 4 4 1 1 5 5 0 0 0 0 0 2 2 2 2 2 2 2 2 2 2 1 1 0 0 0 0	460 fceder Mis Loa(A) 155 3600 720 385 385 620 115 425 610 950 950 2500 2500 2500 2500	17 (1)) No 15 2 2 2 11 11 18 2 2 2 3 3 15 - - - - - - - - - - - - -	202 minute 185 99 64 100 181 278 51 165 	11.9 Minute/No 12.3 4.5 5.8 5.6 7.5 11.1 17.0 11.0 17.0 11.0 17.0 13.0 14.5 5.5 8.8 19.4 15.5	Fa (2) No 0 0 0 1 1 1 1 1 0 0 0 2 0 0 0 0 0 0	312 alt(per m Break and a second seco	52.0 ontb) down NinuteAve 20.0 98.7 43.0 69.4 51.3 105.0 22.5	23 No 15 22 111 19 26 4 4 20 31 31 62 	514 1) + (2 Minute 185 9 64 120 773 321 755 512 388 388 742 544 111 159 136 93	22.3 MirateAto 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6 12.5 12.5 12.5 12.5 12.0 12.5	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404 12,243 3,378 21,618 49,198 31,627	103,656 B.D. Outage Energy (kWh) 0 0 3,628 20,473 6,257 64,706 50,626 2,381 0 0 0 0 0 0 0 0 0 0 0	164,9: Int.+B.D Outage Energy (kV 40,8 3,1) 16,6 37,8 211,9 2215,5 101,8 101,8 114,0 162,7, 12,2 3,3 29,7 49,1 49,1
25 No. 26 27 28 29 30 31 32 33 34 34 35	North, Central, South N N N N C C C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethaphal Mandi(City-II) Seethaphal Mandi(City-II) Seethaphal Mandi(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Yonsufgoda Gymkhaaf(City-VI) Ac Guards(City-IV) Ac Guards(City-III) Ac Guards(City-VII) Ac Guards(City-III) Asif Nagar(City-VII) Asif Nagar(City-VI) Chikalguda(City-I) Chikalguda(City-I) Chikalguda(City-V) Exibition Ground(City-VII) Exibition Ground(City-VII) Exibition Ground(City-VII)	4 No 4 1 1 5 5 1 1 4 4 1 1 5 5 1 1 4 4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 11kV Data No Data No Data S Comparison Data S	460 fccdcr Miss Load(A) 310 155 360 720 385 	17 (1) J No 15 2 18 24 24 25 3 15 28 61 7 2 28 61 13 7 7 7	202 minute 185 99 64 100 181 278 51 165 	11.9 MinuteNo 12.3 4.5 5.8 5.6 7.5 7.5 11.1 17.0 11.0 8.4 10.4 7.7 5.5 8.8 8.8 19.4	Fa (2) No 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	312 alt(per m Break a 0 0 0 0 0 0 0 20 592 43 24 347 154 105 0 0 0 0 0 45 0 0 0 0 0 0 0 0 0 0 0 0 0	52.0 onth) down Nime2% 20.0 98.7 98.7 43.0 24.0 51.3 105.0 22.5	23 No 15 2 11 19 30 26 4 20 30 26 4 20 31 622 7 7 25 7 7	514 1) + (2 Minute 185 9 64 120 773 321 755 512 388 388 742 544 111 159 136 93	22.3 MirateAto 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6 12.5 12.5 12.5 12.5 12.0 12.5	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404 12,243 3,378 21,618 49,198	103,656 B.D. Outage Energy (kWh) 0 0 0 0 0 0 0 0 0 3,628 20,473 6,257 64,706 50,626 2,381 0 0 0,0 8,094 0 0 0	164.9 Int.+B.D Outrage Energy (kV 40.8 37.8 211.9 2215.5 101.8 211.9 125.5 101.8 114.0 162.7 12.2 3.3 29.7 4.9,1
25 No. 26 27 28 29 30 31 32 33 34	N North, Central, South N N N N N N C C C C C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Secilapbal Mandi(City-II) Secilapbal Mandi(City-V) Sinagar Colony(City-IV) Srinagar Colony(City-IV) Sinagar Colony(City-IV) Sinagar Colony(City-IV) Ac Guards(City-V) AC Guards(City-V) AC Guards(City-VI) Ac Guards(City-VII) Ac Guards(City-VII) Asif Nagar Chikalguda(City-II) Chika	4 No 4 1 1 5 5 1 1 1 5 5 1 1 1 5 5 1 1 1 5 5 1 1 1 1 5 5 1 1 1 1 5 5 1 1 1 1 5 5 1 1 1 1 5 5 1	4 11kV Data No 3 3 1 1 4 4 5 5 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0	460 feeder Mis Load(A) 310 155 3600 720 	17 17 17 10 15 2 2 25 25 25 25 11 18 24 25 25 25 25 25 25 25 25 27 27 27 27 27 27 27 27 27 27	202 Interrup 202 I	11.9 Manutz/No Manutz/No 12.3 4.5 5.8 7.5 11.1 17.0 11.0 10.0	Fa (2) No 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	312 Break Minute 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	52.0 ontb) down Nuutenvo 20.0 98.7 43.0 24.0 69.4 51.3 105.0 22.5 22.5	23 No 15 2 11 19 30 266 4 4 20 31 62 - 7 2 15 7 7 0 0	514 Minute 185 9 64 -120 	22.3 MarateNic 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6 12.5 12.0 7.7 5.5 12.0 7.7 5.5 10.6 19.4 15.5	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404 12,243 3,378 21,618 49,198 31,627 79,238	103,656 B.D. Outage Energy (kWh) 0 0 3,628 165,958 20,473 6,257 64,706 50,626 2,381 0 0 8,094 0 0 0 0 0	164.9 Int.+B.D Outrage Energy (t-W 40,8 3,1 16,6 37,8 211,9 125,5 19,5 101,8 0 114,0 162,7 12,2 3,3 29,7 49,1 31,6
25 No. 27 28 29 30 31 32 33 33 34 35 36	N North, Central, South N N N N N N C C C C C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethaphai Mandi(City-II) Seethaphai Mandi(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Yousufguda Gynkhana(City-V) AC Guards(City-II) AC Guards(City-VI) AC Guards(City-VII) Asif Nagar Chikalguda(City-II) Chikalguda(City-I) Chikalguda(City-I) Exibition Ground(City-VI) Exibition Ground(City-VII) Exibition Ground(City-VII) Golconda(City-VII) Hussain Sagar(City-I)	4 No 4 1 3 5 1 1 1 5 5 1 1 1 5 5 1 1 1 5 5 1 1 1 5 5 1 1 1 5 5 5 1 1 1 5 5 5 1 1 1 5 5 5 5 1 1 1 1 5 5 5 1	4 11kV Data No 3 3 1 1 5 5 0 0 0 5 5 0 0 0 5 5 0 0 0 5 5 0 0 0 0 5 5 0 0 0 0 0 2 2 2 2	460 fccdcr Mist Loa(A) 155 3600 720 385 3850 425 610 950 250 250 250 250 250 250 250 250 250 2	17 (1)) No 15 2 2 2 11 11 18 2 2 2 3 3 15 - - - - - - - - - - - - -	202 nterruj minute second second nterruj minute second nterruj minute second nterruj second nterruj nterruj second nterruj second second second nterruj second seco	11.9 MinutzNo 12.3 12.5 12	Fa (2) No 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	312 312 312 312 312 312 312 312 312 312	52.0 ontb) down Newtexe 20.0 98.7 43.0 24.0 69.4 51.3 105.0 22.5 22.5 44.4 44.4 70.0	23 No 15 2 2 11 19 30 266 4 20 31 62 7 7 2 2 5 7 6 - 0 0 24	514 Minute 185 9 64 420 7773 3211 75 5122 3388 7422 544 111 1599 1366 93 0 0 413	22.3 Marute/No 12.3 4.5 5.8 6.3 25.8 12.3 18.8 25.6 12.5 12.0 7.7 7.7 5.5 10.6 19.4 15.5 10.5 10.4 15.5 10.6 19.4 15.5 10.5 10.3 10.4 10.3 10.5 10.6 10.5 10.5 10.6 10.5 10.5 10.6 10.5 1	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404 12,243 3,378 21,618 49,198 31,627 	103,656 B.D. Outage Energy (kWh) 0 0 0 0 3,628 1055,958 20,473 6,257 64,706 50,626 2,381 0 0 0 0 0 74,761 61,894	164.9 Int.+B.D. Outage Energy (FV 40.8 3,1, 16,6,6 37,8 211,9 125,5 101,8 114,0 162,7 12,2 3,3 217,9 12,5 101,8 114,0 162,7 12,2 3,3 29,7,7 49,1 31,6 97,6
25 No. 27 28 29 30 31 32 33 34 35 36 37	N North, Central, South N N N N N C C C C C C C C C C C C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethaphal Mandi(City-II) Seethaphal Mandi(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Yousufgoda(City-IV) Yousufgoda(City-IV) AC Guards(City-VI) AC Guards(City-VI) AC Guards(City-VII) Ac Guards(City-VII) Asif Nagar(City-VII) Asif Nagar(City-VII) Chikalguda(City-I) Exibbion Ground(City-I) Exibbion Ground(City-II) Golconda(City-VII) Hussain Sagar(City-I) Hussin Sagar(City-VII)	No 4 4 5 11 4 4 4 1 1 1 1 1 6 6 9 9 9 11 2 2 2 2 2 2 2 1 1 4 4 6 6 1 1 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1	4 11kV 1 Data No 3 3 1 1 4 4 5 5 0 0 0 0 0 0 0 4 4 1 1 5 5 6 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	460 fccdcr Miss Lozd(A) 310 155 360 720 385 	17 17 10 10 10 10 10 10 10 10 10 10	202 Interrup minute minute set file interrup minute set interrup i	11.9 NimiteNo 12.3 4.5 5.8 8.6 7.5 7.5 7.5 7.5 7.5 7.5 8.8 8.8 9.9 9.9 9.9 9.9 9.9 9.9 9.9	Fa Fa (2) No 0	312 stiffer m Break Minute 0 0 0 0 0 200 200 200 200 20	52.0 ontb) down NamAne 20.0 98.7 43.0 24.0 69.4 51.3 105.0 22.5 22.5 44.4 70.0	23 No 15 22 11 19 26 4 4 20 30 26 4 4 20 31 5 7 7 6 0 0 0 24 4 5 5 7 6 2 2 11 15 15 15 15 15 15 15 15 15	514 Minute 185 9 64 120 7773 321 755 512 388 742 388 742 93 0 0 0 0 0 413 26	22.3 Marate/Nec 12.3 4.5 5.8 6.3 12.3 18.8 12.5 12.	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404 12,243 3,378 21,618 49,198 31,627 79,238 79,238 7,663	103,656 B.D. Outage Energy (kWh) 0 0 0 0 0 0 3,628 20,473 6,257 64,706 2,381 0 0 8,094 0 0 0 74,761 61,894 0	164.9 Int+B.L Outage Energy (8: V40.8 3.1, 16.6, 37.8 211.9 125,5 19.5 101,8 114,0 162,7 12,2 3.3 29,7 49,1 3.1,6 9,7,6 9,7,6
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25 No. 27 28 29 30 31 32 33 34 35 33 34 35 33 34 35 33 34 35 33 34 34 34 34 34 34 34 34 34 34 34 34	North, Cestral, South N N N N N N N N N C C C C C C C C C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Secilapabal Mandi(City-II) Secilapabal Mandi(City-VI) Sinagar Colony(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Agama Colony Yousufguida (City-V) AC Guards (City-V) AC Guards (City-VI) AC Guards (City-VII) Ad Guards (City-VII) Asif Nagar Chikalguda(City-VI) Chikalguda(City-VI) Exibition Ground(City-VII) Exibition Ground(City-VII) Exibition Ground(City-VII) Hussain Sagar(City-I) Industrial Area(City-I) Industrial Area(City-I) Industrial Area(City-I) Naryagugad(City-I) Public Gardenc(city-I) S.D. Hospital	4 No 1 1 4 4 5 5 1 1 1 5 5 1 1 1 5 5 1 1 1 6 6 6 9 9 1 1 1 5 5 1 1 1 1 5 5 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 11kV ? Data No No 11 12 0	460 feeder Mis Load(A) 310 155 3600 720 600 720 610 950 115 425 610 950 260 250 260 250 130 780 820 130 255 260 250 250 250 250 250 250 250 25	17 (1)) No 15 2 2 3 3 15 2 2 8 6 11 18 2 2 2 2 3 3 15 2 2 8 6 11 1 18 2 4 4 2 5 5 3 3 15 5 5 5 5 5 5 5 5 5 5 5 5 5	202 interrup minutes m	11.9 11.9 12.3 4.5 5.8 5.6 11.1 17.0 17.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1	Faa (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	312 312 312 312 312 312 312 312	52.0 onth) down Nawense 20.0 98.7 43.0 69.4 51.3 105.0 69.4 51.3 105.0 69.4 44.4 70.0 44.4 70.0 44.4 70.0 44.0 45.0 45.0	23 No 15 22 30 10 11 11 19 	514 Minute 185 9 64 120 773 321 775 512 3388 742 54 742 54 111 159 1366 9 308 209 303 20 0 0 115 159 159 159 159 10 10 10 10 10 10 10 10 10 10	22.3 MirateRic 12.3 4.5 5.8 6.3 12.5	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404 12,243 3,378 31,627 79,238 31,627 79,238 31,627 79,238 31,627 79,238 31,627 79,238 33,709 5,709 92,909 912,229 30,652 5,294 5,895 29,1005	103,656 B.D. Outage Energy (kWh) 0 0 3,628 165,958 20,473 6,257 64,706 50,626 2,381 0 0 0 0 8,094 0 0 0 51,894 163,2825 163,284 163,2825 163,284 0 11,665 8,677 31,015 16,324 0 0 0 0 0 0 0 0 0 0 0 0 0	164,93 Inst.+B.D Outrage Energy (KW 40,84 3,14 16,6-6 37,84 211,9: 125,54 125,5
25 No. 26 27 28 29 30 31 32 33 34 35 36 36 37 38 39 40 41 42 43 44 45	North, Cestral, Sauth N N N N N N N C C C C C C C C C C C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Seethapbal Mandi(City-VI) Seethapbal Mandi(City-VI) Seethapbal Mandi(City-VI) Senthapbal Mandi(City-VI) Sringaz Colony(City-IV) Sringaz Colony Yousufgada Gymkhana(City-VI) AC Guards(City-IV) AC Guards(City-VII) AC Guards(City-VII) ASi Nagar Chikalguda(City-II) Chikalguda(City-VII) Asif Nagar Chikalguda(City-VII) Sati Nagar Chikalguda(City-VII) Exibition Ground(City-VII) Exibition Ground(City-VII) Hussain Sagar(City-VII) Hussain Sagar(City-I) Industrial Area(City-I) Indira Park(City-I) Narayanguda(City-I) Narayanguda(City-I) Narayanguda(City-VII) S.D. Hospital Armanagadh(City-VIII)	4 No 4 4 5 5 1 1 1 4 4 5 1 1 1 5 1 1 1 5 5 1 1 1 1	4 11kV: Data No Jata No 11 4 5 0 4 11 4 5 0 0 0 6 6 0 0 0 0 0 0 0 6 0	460 fccdcr Mix Loa(A) 310 155 3600 720 	17 17 17 10 10 15 15 25 25 28 28 61 15 28 61 15 28 61 15 28 61 15 20 20 20 20 20 20 20 20 20 20	202 interrup minute interrup minute itss 9 interrup 278 644 100 278 51 165 234 637 54 111 14 136 93 355 1333 266 168 168 168 168 168 168 169 337 26 355 1022 36	11.9 NinoutzNo 12.3 4.5 5.8 5.6 11.1 17.0 11.0 1.0 1.0 1.0 1.0 1.0 1.0	Faa (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)	312 312 312 312 312 312 312 312	52.0 onib) down NimeXec 20.0 98.7 43.0 98.7 43.0 69.4 51.3 105.0 51.3 105.0 22.5 22.5 22.5 44.4 46.7 60.0 46.7 60.0 45.0 45.0 45.0 45.0 52.0	23 No 15 25 26 26 4 20 26 4 20 30 30 30 30 30 30 30 30 30 3	514 Minute Minute 185 9 644 120 773 3211 775 512 3388 742 3388 742 341 356 348 742 341 346 346 346 346 346 346 346 346	22.3 Miraubho 12.3 4.5 5.8 6.3 25.8 25.6 12.5 12.3 18.8 25.6 12.5 12.0 12.3 18.8 25.6 12.5 12.0 12.5 12.0 12.3 18.8 25.6 12.3 18.8 25.6 12.5 12.0 12.3 18.8 25.6 12.3 18.8 25.6 12.5 12.0 12.3 18.8 25.6 12.5 12.0 12.3 18.8 25.6 12.5 18.8 25.6 12.5 12.0 12.5 18.8 25.6 12.5 12.0 12.5 12.5 12.0 12.5 12.5 12.0 12.5 12.0 12.5 12.0 12.5 12.0 12.5 12.0 12.5 12.0 12.5 12.0 10.4 15.5 10.6 10.4 15.5 10.6 10.4 15.5 10.6 10.4 15.5 10.6 10.4 15.5 10.0 10.4 15.5 10.0 10.4 10.4 15.5 10.0 10.4 10.4 10.4 10.5 10.0 10.4 10.2 10.0 10.4 10.2 10.0 10.4 10.2 10.0 10.4 10.2 10.0 25.3 10.0 10.0 25.3 10.0 10.0 25.3 10.0 10.0 25.3 10.0 10.0 25.3 10.0 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0 25.3 10.0	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 63,436 160,404 12,243 3,378 21,618 49,198 31,627 79,238 7,663 57,995 47,078 92,909 12,299 30,652 5,294 5,895 291,005 9,182	103,656 B.D. Outage Energy (kWh) 0 0 0 3,628 20,473 6,257 64,706 50,626 2,381 0 0 0 0 74,761 61,894 0 0 52,825 16,324	164.9: Int.+B.D Outrage Energy (kW 40.88 3.1: 16.66. 37.8: 211.9 211.9 125.5: 101.8 114.0 162.7 12.2 3.3 29.7,7 49.1: 31.6 7.66 110.8 63.4 49.2 97.66 7.66 110.8 63.4 92.9 93.9.3 36.3 22.2 291.0 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 24.5 25.5 26.5 27.8 27.9 27.6 27.6 27.6 27.9 27.6 27.9 27.6 27.6 27.9 27.6 27.6 27.6 27.9 27.6 27.8 27
25 No. 27 28 29 30 31 32 33 34 35 36 37 38 36 37 38 39 9 40 41 42 43 44	North, Cestral, South N N N N N N N N N C C C C C C C C C C	Praga Tools(City-VI) Name R.P. Nilayam(City-VI) Secilapabal Mandi(City-II) Secilapabal Mandi(City-VI) Sinagar Colony(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Srinagar Colony(City-IV) Agama Colony Yousufguida (City-V) AC Guards (City-V) AC Guards (City-VI) AC Guards (City-VII) Ad Guards (City-VII) Asif Nagar Chikalguda(City-VI) Chikalguda(City-VI) Exibition Ground(City-VII) Exibition Ground(City-VII) Exibition Ground(City-VII) Hussain Sagar(City-I) Industrial Area(City-I) Industrial Area(City-I) Industrial Area(City-I) Naryagugad(City-I) Public Gardenc(city-I) S.D. Hospital	4 No 1 1 4 4 5 5 1 1 1 5 5 1 1 1 5 5 1 1 1 6 6 6 9 9 1 1 1 5 5 1 1 1 1 5 5 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4 11kV Data No 111 <	460 feeder Mis Load(A) 310 155 3600 7200 7200 155 425 425 425 150 2600 2500 245 1500 7700 245 1500 7700 245 1500 2555 7700 1300 7800 245 150 1300 7800 1300 7800 1300 7800 1300 7800 1300 7800 1300 7800 1300 7800 1300 7800 1300 7800 1300 7800 1300 7800 1300 7800 1300 780	17 (1)) No 15 2 2 3 3 15 2 2 8 6 11 18 2 2 2 2 3 3 15 2 2 8 6 11 1 18 2 4 4 2 5 5 3 3 15 5 5 5 5 5 5 5 5 5 5 5 5 5	202 interrup minutes interrup	11.9 11.9 12.3 12.3 12.3 13.3 12.3 13.3 12.3 13.3 12.3 13.3 12.3 13.3 12.3 13.3 12.3 13.5 13.5 1	6 Fa (2) No 0 0 0 0 0 0 0 0 0 0 0 0 0	312 312 312 312 312 312 312 312	52.0 onth) down NewerNe 20.0 98.7 43.0 24.0 69.4 51.3 105.0 69.4 22.5 22.5 2 44.4 44.4 70.0 46.7 60.0 45.0 45.0 45.0 45.0	23 No 15 22 30 10 11 11 19 	514 Minute Minute 185 9 64 120 773 3211 755 512 388 742 755 512 388 742 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 3211 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 321 755 512 325 755 755 755 755 755 755 755 7	22.3 MirateRic 12.3 4.5 5.8 6.3 12.5	61,327 Interrupt Outage Energy (kWh) 40,809 3,163 16,641 34,235 46,001 105,027 13,297 37,103 	103,656 B.D. Outage Energy (kWh) 0 0 0 0 3,628 20,473 6,257 64,706 50,626 2,381 0 0 0 0 74,761 61,894 0 0 52,825 16,324 0 11,665 8,672 31,015 8,674 0 11,655 8,672 31,015 8,674 0 0 11,655 8,672 31,015 8,674 0 0 11,655 8,672 31,015 8,674 0 0 11,655 8,677 1,015 8,674 0 0 1,055 8,675 1,055 8,677 1,055 1,055 8,677 1,055 1,055 8,057 1,055 8,057 0 0 1,055 1,0	164,9: Int.+B.D Outrage Energy (kW 40,8: 3,11 16,66 37,8: 2211,9 125,5 101,8 114,0 162,7 12,2 3,3 29,7,7 49,1 31,6 - - - - - - - - - - - - -

	North,			11kV	leeder					ult(per m					Interrupt	B.D. Outage	lnt.+B.D.
No.	Central,	Name	No	Data	Max Long(A)	(1)	nterrup	otion	(2)	Break	down		(1) + (2))	Outage	D.D. Outage	Outage
	South		NO	No	Max Long(A)	No	minute	Minute/No	No	Minute	Minute/No	No	Minute	Minute/No	Energy (kWh)	Energy (X WB)	Outage Energy (kWb)
49	s	Falaknuma(City-111)	4	4	500	27	219	8.1	0	0		27	219	8.1	60,080	0	60,080
49	3	Falaknuma	2	0													_
50	s	Kanchanbagh(City-Ill)	1	ĺĺĺ	55	3	19	6.3	0			3	19	6.3	2,369	0	2,369
	3	Kanchanbagh(City-VIII)	5	. 4	205	5	27	5.8_	0			5	29	5.8	6,325	0	6,325
51	S	Karwan(City-VII)	1	1	140	4		8,8	3			7	212	30.3	11,109	56,181	67,290
-	_	Karwan(City-1X)	3		500	17		8,1	6		54.5	23	464	20.2	51,012	122,700	173,712
	S	Khilwath(City-III)	5	5	770	28	153	5.5	· 0			28	153	5.5	58,902	0	58,902
53	s	Malakpet(City-II)	_1	3	150	6	147	24,5	0			6	147	24.5	49,991	0	49,991
_	-	Malakpet(City-VIII)	7	ين م	810	25	631	25.2	1		2911.0	26	3542	136.2	196,656	65,998	262,654
	S	Miralam(City-III)	7	2	1020	45	307	6.8	0			45	307	6.8	117,078	0	117,078
55		Moosarambagh(City-Vill)	6	6		10	55	5.5	4	385	96.3	14		31.4	8,105	61,101	69,206
56	s	Osmania Hospital(City-III)	1	1	20	1	5	5.0	.0			1	5	5.0	227	0	227
0		Osmania Hospital(City-IX)	7	5	490	9	34	3.8	2	85	42.5	. 11	119	10.8	8,321	8,751	17,072
57		Sararjung(City-111)	7	-	1040	34	327	9.6	1	5	5.0	35	332	9,5	_105,288	680	105,968
58	s	Santhoshnagar(City-III)	2	2	210	14	163	11.6	6			14	163	11.6		0	39,449
	3	Santhoshnagar(City-VIII)	5	<u> </u>	660	24	238	9.9	0			24	238	9.9	_96,038	0	96,038
59	s	Seetharam bagh(City-VII)	2	2	180	3	14	4,7	0			3	14	4.7	3,129	0	3,129
	3	Seetharam pagh(City-JX)	4	4	460	23	198	8.6	1	53		24	251	10.5	54,322	19,226	73,548
60	s	Sultan Bazar(City-II)	·)	1	140	1	8	8,9	0			ر	8	8.0	2,539	0	2,539
	3	Sultan Bazar(City-IX)	3	3	545	17	136	8.0	0			17	136	8.0	56,498	0	56,498
61	Ş	CPRF(City-III)	6	6	566	22	144	6.5	1	35	35.0	23	179	7.8	33,375	11,506	44,881
		Total	367				_										
											_						
		North Total	178	146	15494	522	4154	8.0	81	6911	85.3	588	10925	18,6	1,213,555	1,940,180	3,122,267
		Central Total	87	79	8555	335	3963	11.8	34	1793	52,7	325	5046	15.5	1,058,040	405,543	1,309,584
_		South Total	102	95	11111	409	3604	8.8	25	4234	169,4	434	7838	18.1	1,153,582	413,705	1,567,287
		Gross Total	367	320	35160	1266	11721	9,3	140	12938	92.4	1347	23809	17.7	3,425,177	2,759,429	5,999,138
Aver	age ner	feeder															
			1	1kV f	eeder				Fai	nlt(per m	onth				Interrupt		Int.+B.D.
		Arca		Data		(1)1	nterrup	tion		Break		(1) + (2)	_		B.D. Outage	Outage
		Alla	No	No	Max Load(A)		mispie			Minute			Minute	Minute/No.	Energy (kWh)	Energy (kWh)	Energy (kWh)
		North	{	350	100.3	3.6	27.3		0.5	49.1	91.2	4.2	78.1	18.7	7,511	13.133	20,467
_		Central			100.4	3.5	42.9		0.4	23.1	61.5	3.7	62.2	17.0	9,279	4,350	12.346
		South	-		116.1	4.3	38.1		0.3	43.5	163.8	4.6	81.5	17.8	11,590	4,056	15.646
		Gross			104.4	3.8	34.5		0.4	40.3	95.9	4.1	74.7	18.0	9.083	8,164	16,779
		Gross late of 1 feeder is not availed			104.4 *2.Man (73.9	4.1	1701	10.0	2,005	0,104	10,775

*1: Length data of 1 feeder is not available.

*2:Map data of feeder is not available.

Ranga Reddy Nort	h ·													0.85	LF
		Nos of	Max				Fault	(per m	onth)				Interrupt Outage	B,D. Outage	lni.+B,D, Outage
Substation Name	Name of Feeder		Load (A)	(1) I	nternu	otion	(2)	Break	down	(1) + (2)	Energy	Energy	Energy
		leeder	2010 (71)	No	Minute	N'imiz/Na	No	Minute	Minute/No	No	Мілите	- 	(kWh)	(kWh)	(kWh)
	University, ALIND		30	3	15	5.0				3	15	5.0	1,020	0	1,020
Gachibowli	LINGGAMPALLY	4	50	6	18	3.0				6	18	3.0	2,040	0	2,040
(5MVA ×2)	KOTTAGUDA	-	32	3	90	30.0				3	90	30.0	6,530	0	6,530
	GACHIBOWLI(KALAGAYTHY)		8	0	0								Ó	0	(
I I T(Indian Institute	STADIUM		11							0	0		0	0	
of Information	WIZCRAFT	4	Орел		[0	0				
Tchnology) (8MVA	SPORT VILLAGE	7	3							0	0		0	0	
New)	SPORTVILLAGE EXTERNAL LIGHTING		18	1	5	5.0				1	5	5.0	204	0	204
	Ravileela		20	0	0					0	0		0	0	(
	Thurkapally		160	25	75	3.0				25	75	3.0	27,206	0	27,206
Aliabad(ALIA)	Bommarajpet		120	15	40	2.7				15	40	2.7	10,883	0	10,883
8MVAX2	Aliabad	7	80	15	75	5.0				15	75	5.0	13,603	0	13,603
3.15MVA	Jaganguda		120	20	70	3.5				20	70	3.5	19,044	0	19,044
	H.B.L		70	0.	0	•				0	0		0	0 \	(
	Survanshi			0	0					0	0		0	0	
OL	Taranagar		150	15	145	9.7				15	145	9.7	49,311	0	49,311
Chandanagar(CH	Chandanagar		130	20	205	10.3				20	205	10.3	60,421	0	60,421
AN) 8MVA	Hifeezpet(S.B)	4	160	15	145	9.7				15	145	9.7	52,599	0	52,599
	Miyapur		190	10	155	15.5	2	70	35.0	12	225	18.8	66.769		96,922
	Bowrampet		115	2	10	5.0	-	· -		2	10	5.0	2,607	0	2,607
Dommarapocham	Satyam Computers(S.B)		115	2	70	35.0				2		35.0	18.251	Ö	18,251
- pally (DOMM)	Duridigal IDA	4	117	12	40	3.3				12	40		10.610		10,610
5MVAX2	Gagillapur		117	9	60	6.7				9	60	6.7	15,916		15,910
	Gachibouli		<u> </u>	10	80	8.0				10	80	8.0	12,710		(
ESCI 3MVA	Nanakramguda	3		15	100	6.7				15	100		0		
	E.S.C.I				0	0.7	<u> </u>			0	100	0.7	0		

		Nos of	Max				Fault	(per m	onth)				Interrupt	B.D. Outage	Dutage
Substation Name	Name of Feeder	feeder	Max Load(A)	(1) I	nterrup	otion	(2) H	Break	down	(1) + (2)	Outage Energy	Energy	Energy
		reques	LOad(A)	No	Minute	Minste/No	No	Minute	Minne/No	No	Minute		(kWh)	(kWh)	
Gundlapocham-	IDA]		2	15	7.5				2	15	7.5	0		
pally(GPPL)	Gundla Pochampally(S.B)	4		10	45	4.5				10	45	4.5	0		
8MVA	Mysammaguda			15	75	5.0				15	75	5.0	0		
01v1 v 24	Doollapally			20	120	6.0				20	120	6.0	0		
	Phase V		130	. 5	25	5.0				5	25	5.0	7,368		7,3
	Vicchow]	180	12	75	6.3	1	30	30.0	13	105	8.1	30,607	12,243	42,8
Jeedimetla-1(JEED)	SudershanDrugs		165	2	10	5.0				2	10	5.0	3,741	0	3,7
8MVAX3	Phase I	7	175	8	65	8.1				8	65	8.1	25,789	0	25,7
	Subhashnagar		120	12	90	7.5	1	50	50.0	13	140	10.8	24,486	13,603	38,0
	Shapumagar		140	8	40	5.0	2	115	57,5	10	155	15.5	12,696	36,502	49,1
	Phase II		75	5	40	8.0	1	95	95.0	6	135	22,5	6,802	16,154	22,9
	Gajularamaram		130	_5	35	7.0	2	91	45.5	7	126	18.0	10,316	26,821	37,1
	Kompally		90	5	40	8.0				5	40	8.0	8,162	0	8,1
Jeedimetla-2	Surqaram		140	10	75	7.5	2	100	50.0	12	175	14.6	23,805	31,741	55,5
(JEEI) 8MVAX2	Phase III	6	80	8	40	5.0	2	130	65.0	10	170	17.0	7,255	23,579	30,8
. ,	Phase V	1	100	5	30	6.0	1	65	65.0	6	95	15.8	6,802	14,737	21,5
	Phase IV	1	190	10	50	5.0	2	105	52.5	12	155	12.9	21,538	45,230	66,7
	Travels Feeder		100	3	50	16.7				3	50	16.7	11,336	0	11,3
	Hydemagar	1	140	5	70	14.0				5	70	14.0	22,218	0	22,2
75.1	Air Force	1		6	90	15.0				6	90	15.0	0	0	
Kukatpally(KUK	Venkateshwara	17	180	10	140	14.0				10	140	14.0	57,133	0	57,1
A)	Bhagyanagar	1	120	6	45	7.5				6	45	7,5	12,243	0	12,2
	JNTUCF		130	3	40	13,3				3	40	13.3	11,789	0	11,7
	KPHB		95	11	50	4.5				11	50	4,5	10,769	0	10,7
	Yellampet		83	15	70	4.7				15	70	4.7	13,172	0	13,1
	Ravalkole	1	150	35	250	7.1				35	250	7.1	85,020	0	85,0
	IDA Medchal II(S.B)	1	125	15	60	4.0	2	95	47.5	17	155	9.1	17,004	26,923	43,9
Medchal(MEC)	Rural Medchal	1	70	25	75	3.0				25	75	3.0	11,903	0	11,9
5MVAX2	IDA Medchal I	8	125	12	60	5.0	2	90	45.0	14	150	10,7	17,004		42,5
	kandlakoya	1	185	35	270	7.7				35	270	7.7	113,246	- <u> </u>	113,2
	Medchal Town	1	75	20	65	3.3			<u> </u>	20	65	3.3	11,053		11,0
	Srinath Spinning Mills	1	24	0	0	#DIV/01					0	40TV/01	0		

							Fault	(per m	onth)				Interrupt	B.D. Outage	lnt.+B.D.
Substation Name	Name of Feeder	Nos of		(1) li	nterrup	otion	(2)]	Break	down	(1) + (2)	Outage	Energy	Outage
		feeder	Load(A)	No	Minute	hi instr/Na	No	Minute	Miaste/No	No	Minute	o%,ونيستغا	Energy (kWh)	(kWh)	Energy (kWh)
Medicity(MEDI)	Pudur			15	75	5.0	1	70	70.0	16			0		ļ
5MVA,1,6MVA	Raj Bollaram	3		10	60	6.0			I	10			0		
	Medicity			0	0			[0	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		0		
	ECIL		50	0	0		1	115	115.0	1		115.0	0		13,03
	IDA Phase-I		70	_0_	0		0	0		0		#DIV/0	00	0	
Charlapally(CHER)	IDA Phase-II	6	160	2	10	5.0	0	0		2	10	5.0	3,628	0	3,62
chanapany(Chick)	Krupp	, u	190	1	5	5.0	0	0		1	5	5.0	2,154	0	2,15
	Rampally		180	0	0		2	210	105.0	2	210	105.0	0	85,700	85,70
	Nagaram]	120	_1	5	5.0	Ó	0		1	5	5.0	1,360	0	1,36
	Ghatkesar		120	2	7	3.5	0	0		2	7	3.5	1,904	0	1, <u>90</u>
	Keesara]											0	0	
	Edulabad		80	2	10	5.0	0	0		2	10	5.0	1,814	0	1,81
0.0 (0.070)	Aushapur	8	110	1	5	5.0	0	0		1	5	5.0	1,247	0	1,24
Gatkesar(GATK)	Medipally	7 °	70	2	10	5.0	0	0		2	10	5.0	1,587	0	1,58
	Syndicate		20	1	10	10.0	0	0		1	10	10.0	453	0	45
	HPCL		10	2	20	10.0	0	0		2	20	10.0	453	0	45
	NTPC		5				0	0		0	0		0	0	
	Cheral		170	0	0		0	0		0	0		0	0	
Keesara(KEES)	Ankireddipally	3	70	0	0		0	0		0	0		0	0	(
	Keesara	1	120	0	0		0	0		0	0		0	0	
	Anandbagh		120	0	0		1	55	55.0	1	55	55.0	0	14,963	14,96
Malkajgiri(MLKJ	Durga Nagar	1 .	220	0	0		0	0		Ö	0		0	0	
1	M.K. Nagar	- 4	110	0	0		1	35	35.0	1	35	35.0	0	8,729	8,72
	Suryanagar	1 1	140	0	0		0	0		0	Ó		0	0	· ź
	Mallapur Village		100	3	15	5.0	2	165	82.5	5	180	36.0	3,401	37,409	40,80
	IDA Phase-II	1 .	80	0	0		0	0		0	0		0	0	
Mallapur(MALL)	BEL	4	105	0	0		0	0		0	0		0	0	
ĺ	A.P. Food	7 Í	30	0	0	-1	0	0	í	0	0		0	- 0	

Ranga Reddy North

¥		Nos of	Max					(per m					Interrupt Outage	B.D. Outage	Int.+B.D. Outage
Substation Name	Name of Feeder	feeder	Load(A)	(1) 1 No	nterru Minute	HILLEN	(2) No	Break (Minute		No	1) + (2 Minute	r	Energy (kWh)	Energy (kWh)	Energy (kWh)
	FBP		10	1	5	5.0	1	45	45.0	2	50	25,0	113	1,020	1,134
	HCL	-1 ·	180	0	0		0	0	<u> </u>	Ö	Ö		0	0	(
	HMT	1	40	0	0	_	0	0		0	0		0	0	0
Moulali(MOUL)	Malkajgiri	8	180	1	5	5.0				1	5	5.0	2,040	0	2,040
monan(moor)	Meerpet] °	130	0	0		0	0		0	0		<u> </u>	0	0
	Mirjalguda]	130	1	5	5.0	2	80	40.0	3	85	28.3	1,474	23,579	25,052
	Moula-Ali	1	140	0	0		0	0		0			0	0	0
	Spectra	1	130	0	0		0	0		0	0		0	0	0
	S.R. Feeder		130	0	0		Ō	0		0	_		0	0	0
	Multisteel]	30				1	65	65.0	1	65	65.0	0	4,421	4,421
Nacharam(NARC	Tungabhadra]	220	0	0		0	0		0	0		0	0	0
	IPM	7	120	0	0		0	0		0	0		0	0	0
,	Laxmi Starch		150	3	15	5.0	0	0		3	_15	5.0	5,101	0	5,101
	NILE		45	0	0		0	0		0	0		0	0	0
	India Extruction		10	0	0		0	0		0	0		0	0	0
	Habsiguda		170	2	10	5.0	0	0_		2	10	5.0	3,854	Û	3,854
	HMT		210	3	13	4.3	1	65	65.0	4	78	19.5	6,189	30,947	37,137
NGRI(NGRI)	Kalyanpuri	6	130	_5	30	6.0	0	0		5	30	6.0	8,842	0	8,842
(NOKI)	NGRI] "	40	4	23	5.8	0	0		4	23	5.8	2,086	0	2,086
	Penguin		20	1	65	65.0	0	0		1	65	65.0	2,947	0	<u>2,947</u>
•	S.O.I	[]	160	_7	35	5.0	0	0		7	35	5.0	12,696	0	12,696
	ASRAO Nagar		200	0	0		0	0		0	0		0	0	0
	Kamalanagar		100	0	0		1	80	80.0	1	80	80.0	0	18,138	18,138
	Kapra		110	3	15	5.0				3	15	5.0	3,741	0	3,741
Sainikpuri(SAIN)	Kushaiguda	7	170	4	20	5.0	1	30	30.0	5	50	10.0	7,708	11,563	19,271
	Neredmet		180	6	30	5.0				6	30	5.0	12,243]0	12,243
	Sainikpuri		180							0	0		_ 0	0	0
	Yapral		140	5	35	7.0	4	275	68.8	9	310	34.4	11,109	87,287	98,396

Ranga Reddy North

							Fault	(per me	onth)				Interrupt		Int.+B.D.
Substation Name	Name of Feeder	Nos of	Max	(1) Iı	nterrup	otion	(2)]	Break	down	(1) + (2	!)	Outage	B.D. Outage Energy	Outage
	Name of Feeder	feeder	Load(A)	No	Minute	Mina 12/Ma	No	Minute	MissicNo	No	Minute	Minate, No.	Energy (kWh)	(kWh)	Energy (kWh)
	Boduppal		120	7	35	5.0	0	0		7	35	5.0	9,522	0	9,522
	Doordarshan									0	0		0	0	0
	Indi Ghatkesar		130	3	15	5.0	1	75	75.0	4	90	22,5	4,421	22,105	26,526
Uppal(UPPA)	Nav Bharath	7	180	2	15	7.5	0	0		2	15	7.5	6,121	0	6,121
	Ramanthapur									0	0		0	0	0
	Uppal		50	2	10	5.0	0	0		2	10	5.0	1,134	0	1,134
	Gangappa		100	1	5	5.0	0	0		1	5	5.0	1,134	0	1,134

								(рег та					Interrupt	B.D. Outage	Int,+B,D,
Substation Name	Name of Feeder	Nos of feeder	Max Load(A)	(1) I No	Minute	ntion N=1/16	(2) J No	Break (Minute	down Mana/No		1) + (2 Minute	ŕ	Outage Energy (kWh)	Energy (kWh)	Outage Energy (kWh)
	Kamalangar		85	7	29	4.1				7	29	4.1	5,589	Ö	5,589
Kothapet(Mixed)(Sroornagar	4	170	16	52	3.3	3	240	80.0	19	292	15.4	20,042	92,501	112,543
8MVA×2)	Stadium(old Kothapet)	4	75	1	35	35.0				1	35	35.0	5,951	0	5,953
	Huda Complex		40	1	3	3.0				1	3	3.0	272	0	272
	Katedan 1		170	5	30	6.0				5	30	6.0	11,563	0	11,563
Katedan(Industry)	Katedan 2		160	7	35	5.0	1	90	90.0	8	125	15.6	12,696	32,648	45,344
(8MVA×2)	Balapur	5	220	12	62	5,2	4	738	184.5	16	800	50.0	30,924	368,101	399,025
(OWLY MAZ)	Katedan 3		160	6	30	5.0				6	30	5.0	10,883	0	10,883
	Katedan 4		170	6	32	5.3				6	32	5.3	12,334	0	12,334
AP Police	AP Police Academy		15							0	0		0	0	0
	Himayar Sagar	3	22	3	15	5.0				3	15	5.0	748	Ö	748
Sagar)(5MVA×1)	Azz Nagar		180	2	10	5.0	1	50	50.0	3	60	20.0	4,081	20,405	24,486
	Kharmanghat		130	13	60	4.6	0	0		13	60	4.6	17,684	0	17,684
Champapet(8MV	Champapet		80	7	29	4.1	0	0		7	29	4.1	5,260	0	5,260
Ax2)	Sulthanvallua	5	40	2	14	7.0	1	67	67.0	3	81	27.0	1,270	6,076	7,346
n^4)	Meerpat		150	17	91	5.4	2	105	52.5	19	196	10.3	30,947	35,708	66,655
	Balapur		110	26	10	0.4	1	45	45.0	27	_ 55	2.0	2,494	11,223	13,716
	NPA(55mm2, 172A)		40	0	0		1	355	355.0	1	355	355.0	0	32,194	32,194
Gaganpahad	Gagan Pahad(ditto)		150	15	515	34.3	0	0		15	515	34.3	175,140	0	175,140
(GAGA)	Jai Bhawani(ditto)	6	120	4	25	6.3	0	0		4	25	6.3	6,802	0	6,802
8MVAX2	Manage(ditto)		140	18	90	5.0	1	38	38.0	19	128	6.7	28,567	12,061	40,628
OIVI V A.A.Z	Ralendra Nagar(ditto)		80	24	89	3.7	2	244	122.0	26	333	12.8	16,142	44,256	60,398
	Shiva Shathi(ditto)		90	1	20	20.0	0	0		1	20	20,0	4,081	0	4,081
	L.B. Nagar		45	5	21	4,2				5	21	4,2	2,142	0	2,142
	Mansurabad	1	115	6	22	3.7				6	22	3.7	5,736	0	5,736
	MothfrDairy	1	120	5	19	3.8				5	19	3.8	5,169	0	5,169
Hyath Nagar(8MVA×3)	AutoNagar, HighCourtColony	7	120	7	27	3.9	1	45	45.0	8	72	9.0	7,346	12,243	19,589
	Hyat Nagar		80	3	13	4.3				3	13	4.3	2,358	0	2,358
	A.J.R.		10	3	11	3.7				3	11	3.7	249	0	249
	SERIER	1	60	5	21	4.2	1	40	40.0	6	_	10.2	2,857	5,441	8,298

		N						(per m					Interrupt	B.D. Outage	Int.+B.D.
Substation Name	Name of Feeder	Nos of feeder	Max	(1) li	nterrai	otion	(2)]	Break	down		1) + (<u>2)</u>	Outage Energy	Energy	Outage Energy
·	· · · · · · · · · · · · · · · · · · ·	lecuel	Load(A)	No	Minute	bi inn in /N 4	No	Minute	Misenc/No	No	Minute	Minete/No	(k₩h)	(kWh)	(kWb)
	New Military		40	5	40	8.0	_		Γ.	5		8.0	3,628	0	3,628
Ibrahimbagh(8M	Osman Sagar		160	9	95	10.6	2	75	37.5	11	170		34,461	27,206	61,668
VAx2)	Military I	5	130	14	46	3.3	1	40	40.0	15	86	5.7	13,558		25,347
VAAL)	Military II		70	1	10	10.0	1	185	185.0	2	195	97.5	1,587	29,360	30,947
	Pedda Mangalaran		100	12	65	5.4	0	0		12	65	5.4	14,737	0	<u>14,737</u>
	Errakunta(34mm2, 150A)		120	6	35	5.8	0	0		6	35	5.8	9,522	0	9,522
Mamidipally(MA	Pahachisharey(ditto)	4	125	4	20	5.0	1	40	40.0	5	60	12.0	5,668		17,004
MI) 5MVAX2	Thukkuguda(ditto)	7	180	9	45	5.0	2	95	47.5	11	140	12,7	18,364	38,769	57,133
	Catalytic(ditto)		5	1	5	5.0	0	0		1	5	5.0	57	0	57
	Sastri Puram(55m2)		53	5	20	4.0	1	30	30.0	6	50	8.3	2,403	3,605	6,008
NationalPoliceAc	Uppar Pally(ditto)		175	4	25	6.3	1	20	20.0	5	-	9.0	9,919	7,935	17,854
ademy(NPPA)5M	Shivarampally(ditto)	5	134	2	10	5.0	2	45	22,5	4	55	13.8	3,038	13,671	16,709
VAX2	NPA(ditto)		29	0	0		0	0		0	0		0	0	C
	Kattadan(ditto)		42	2	10	5.0	1	20	20.0	3	30	10.0	952	1,904	2,857
	OmJaiBhavani(34mm2)		60	3	95	31.7	2	90	45.0	5	185	37.0	12,923	12,243	25,166
Shamshabad	Shamshabad(ditto)		120	12	335	27.9	1	15	15.0	13	350	26,9	91,141	4,081	95,222
(SHAM)	Narkuda(diito)	5	200	4	175	43.8	2	213	106.5	6	388	64.7	79,352	96,582	175,934
8MVAX2	Raikunta(ditto)		110	5	90	18.0	2	115	57.5	7		29.3	22,445	28,680	51,125
	HamcedullaNagar(diitto)		110	5	100	20.0	1	20	20.0	6	120	20.0	24,939	4,988	29,927
Turkayamjal(TU	Turka Yanjal(55mm2)	2	120	8	864	108.0	1	45	45.0	9	909	101.0	235,062	12,243	247,305
RK)(5+3.5)MVA	Manneguda(55mm2)	2	120	12	575	47.9	0	0		12	575	47.9	156,436	0	156,436
Vanastalipuram	Vanasthalipuram(55mm2)		140	12	329	27,4	1	20	20.0	13	349	26.8	104,427	6,348	110,775
Vanasianputain (VANA)	NGO's(55mm2)	4	170	11	203	18.5	0	0		11	203	18.5	78,241	0	78,241
• •	Injarpoor(55mm2)	-	170	41	945	23.0	3	275	91.7	44	1220	27.7	364,224	105,991	470,215
8MVAx2	Bairamlaguda(55mm2)		110	17	575	33.8	2	105	52.5	19	680	35,8	143,400	26,186	169,586
Bandlaguda(BAN	Nagole(55mm2)	3	150	22	146	6.6	0	0		22	146		49,651	D	49,651
D)(132/33/11kV) 5MVAx1	Alkapuri(55mm2)	، ا	100	21	107	5.1	0	0		21	107	5.1	24,259	0	24,259
JIVI V AXI	GSI(55mm2)		15	10	18	1.8	0	0		10	18	1.8	612	0	612

								Far	ult(per 1	month)			Interrupt	20.0	Int.+B.D.
Sı	ubstation Name		Name of Feeder	Max Load (A)	(1)]	Interru	otion	(2) I	Break c	lown		(1) + (2)		B.D. Outage	Outage
					No	Minute	Minste/No	No	Minute	Nimiz/No	No	Minute	Minute/No	Energy (kWh)	Energy (kWh)	Energy (kWb
1	ALLWYN (City-	1	Industrial Estate	80	2	9	4.5	0	0		2	9	4,5	1,632.4	0.0	1,632.4
	IV) 8MVAX2 [2	Crown Carting	10	1	2	2	0	0		1	2	2	45.3	0.0	45.3
		3	IOL	140	1	6	6	0	. 0		1	6	6	1,904.4	0.0	1,904.4
	[4	Motinagar	80	0	0		0	0		0	0		0,0	0.0	0.0
		5	ESI	20	5	18	3.6	3	147	49	8	165	20.625	816.2	6,665.5	7,481.7
		6	Sanathnagar	130	1	5	5	1	60	60	2	65	32.5	1,473.7	17,684.1	19,157.7
		7	Tele Exchange	10	0	0		0	0		0	0		0.0	0,0	0.0
	[[Allwyn Compressor	10	0	0		0	0		0	0		0.0	0.0	0.0
														,		
2	AIRPORT	1	Air port	80	i	10	5	0	0		2	10	5	1,813.8	0.0	1,813.8
	(City-IV)	2	International Airport	60	0	0		0	0		0	0		0.0	0.0	0.0
	8MVAX2	3	Domestic Airport	60	0	0		0	0		0	0		0.0	0.0	0.0
		4	Chikoti Garden	140	0	0		1	60	60	1	60	60	0.0	19,044.4	19,044.4
		5	Prakash Nagar	190	3	52	17.3	0	0		3	52	17,333	22,399,8	0,0	22,399.8
	[[6	Motilal Nagar	170	1	5	5	Ó	0		1	5	5	1,927.1	0.0	1,927.1
3			0			10								1 505 0	0.000.0	20 03 6 6
د	ROAD NO: 2		Sagar society	70		10	5		. 55				21.667	1,587.0		10,315.7
	8MVAX2		Road No.02	115		25	5	0	-		5			6,518.2	0.0	6,518.2
	😳		Road No.10	85	9	<u> </u>	1.89				9			,	0.0	3,276.1
			Road No.14	145		10	5	0			2	10		3,287.4	0.0	3,287.4
			L.V.Prasad Marg	65		5	5	0	0		1	5	5	736.8	0.0	736.8
		6	LV.Prasad film Lab	40												

				Мах					ult(per n)			Interrupt	B.D. Outage	Int.+B.D.
Su	bstation Name		Name of Feeder	Lozd (A)	1/	Interru Minute	-	(2) I No	Break d	_	No	(1) + (Outage Energy (kWb)	Energy (LAURA)	Outage
4	BEGUMPET	1	S.R.Nagar	145	3			2	Minute 50	25	№ 5	Minute 69		6,246.1	16,437.1	22,683
-	(City-IV)	- 1	Yellamma Temple	65	0			0		-23	0	09		0,240,1	0.0	
	8MVAX2		Shantibagh	145	4			1	20	20		50	L	9.862.3	6,574,8	
	ONIVANZ		AMP	55	0			1	25	25		25	25	0.0	3,117.4	
		5	DKR	345	1	. 5		1	32	32	2	37	18.5	3.910.9	25.029.8	<u> </u>
		6	Hyderabad Public School	120	8	43	5.38	1	20	20	9	63	7	11,698.7	5,441.3	
		7	Maitrivanam	50	1	7	7	0	0		1	7	7	793.5	0.0	793
	[[8	Vidyut Soudha		0	Ó		0	0	-	0	0		0.0	0.0	C
5	BOWENPLL	1	Bapuji Nagar	195	9	53	5.89	. 0	0		9	53	5.8889	23,431.4	0.0	23,431
	Y (City-VI)	2	Bowenpally	100	2	25	12.5	0	0		2	25	12,5	5,668.0	0.0	5,668
	8MVAX2	3	Tadbund	100	5	53	10.6	0	0		5	53	10.6	12,016.1	0.0	12,016
		4	IAF	25	1	20	20	0	0		1	20	20	1,133.6	0.0	1,133
			Gputham Nagar	170	9			<u> </u>	0		9	60	6,6667	23,125.3	0.0	23,125
		6	Ferroj guda	95	1		8	0	0		. 1	8	8	1,723.1	0.0	1,723
6	CLOCKTOWER	1	Sangeeth	180	3	17	5.67	0	0		3	17	5.6667	6,937.6	0.0	6,937
	(City-V)	2	Minerva	170	5	45	9	0	0		5	45	9	17,344.0	0.0	17,344
	8MVAX2	3	Natraj	185	0	0		0	0		0	0		0.0	0.0	
	7.5MVA	4	St.Road	220	5	45	9	1	37	37	6	82	13.667	22,445.2	18,454.9	40,900
7	GREENLANDS	1	Ameerpet	195	1	8	8	0	0		1	8	8	3,536,8	0.0	3,53
	(City-IV)		Kundan bagh	190	0		-	0			0	0	-	0.0	0.0	
	8MVAX2		Rajiv Gandhi	190	9	44	4.89	0	0		9	44	4.8889	18,953.7	0.0	18,95
		_	Somajiguda	205	5	21	·	0	0		5	21	4.2	9,760.2	0.0	9,76

								Fac	ult(per u	month)			Interrupt	B.D. Outage	Int.+B.D.
Sı	ubstation Name		Name of Feeder	Max Load (A)	(1)	Interru	ption	(2) I	Break d	lown		(1) + (Outage	Green (AMA)	Outage
					No	Minute	h(base/No	No	Minute	Minne/No	No	Minute	Miaute/No	Energy (kWh)	2	Energy (kW
8	GYMKHANA	1	Paredgrounds	210	10	135	13.5	1	43	43	11	178	16.182	64,274,8	20,472.7	84,747
	(City-V)	2	Sikh village	85	4	31	7.75	0	0		4	31	7.75	5,974.0	0.0	5,974
	8MVAX2	3	Vikram Puri	195	3	12	4	0	0	-	3	12	4	5,305.2	0.0	5,305
		4	Marredpally	130	8	100	12.5	0	0		8	100	12,5	29,473.4	0.0	29,47
9	HAKIMPET	1	M.Bollaram	110	10	106	10.6	0	0		10	106	10.6	26,435.4	0.0	26,435
<i>.</i>	(City-VI)		Hakimpet Airforce	65	. 10			0			6		6.3333	5,600,0	0.0	5,600
	5MVAX2		Allen by lines	60	6	41	6.83	0	0	-	6	41	6.8333	5,577.3	0.0	5,57
_	[- 4	Risak Bazar	75	4	33	8.25	1	20	20	5	_53	10.6	5,611.3	3,400.8	9,012
10	HAL 8MVAX2		Sowbhagya Nagar	60	2	10	- 5	0	0		-2		5	1.360.3	0.0	1,360
			Sri Rama	50				Ŭ	0			0		0.0	0.0	
		3	NRSA	100	0	0	_	0	0		0	0		0.0	0.0	(
		4	SAMRAT	190	1	10	10	2	130	65	3	140	46.667	4,307.7	55,999.5	60,307
		5	HAL	30	0	0		0	0		0	0		0.0	0.0	_ (
		6	I.A.L	60	0	0		0	0	_	0	0		0.0	0.0	<u>`</u>
11	HMT 8MVAX2	1	Chintal	150	13	60	4.62		75	75	14	135	9.6429	20,404.7	25,505,9	45,910
		2	HMT Road	40	0	0		- 0	0		0	0	_	0.0	0.0	(
		3	QBP	110	16	78	4.88	2	125	63	18	203	11.278	19,452.5	31,173.8	50,626
		4	G.N.R	60	9	60	6.67	4	149	37	13	209	16.077	8,161.9	20,268.7	28,430
		5	A.O.L	130	10	83	8.3	3	70	23	13	153	11,769	24,463.0	20,631.4	45,094

				Мах					ult(per)			Interrupt	B.D. Outage	int,+B.D.
Sub	station Name		Name of Feeder	Load (A)	(1)	Interru	ption	(2) I	Break o	iown		(1) + (Outage	Energy (kWh)	Outage
					No	Minute	N inste/No	No	Minute	lainne,Ho	No	Minute	Minute/No	Energy (kWh)	Energy (kWb)	Energy (kW
12	IDPL		6.6kV IDPL	60	0	0		0	0		0	0		0.0	0.0	
	MVAX2(6.6kV)	2	SIFCO	80	2	8	4	0	0		2	8	4	1,451.0	0.0	1,451
1	5MVA 8MVAX3	3	SVCIE	130	4	44	11	1	40	40	5	84		12,968.3	11,789.4	24,75
		4	Vijaya Electricals	130	12	41	3.42	0	0		12	41	3.4167	12,084,1	0.0	12,084
- 1	[5	Oblum	150	0	0		0	0	[Ō	0		0.0	0.0	(
		6	Balanagar	100	4	_25	6.25	0	0		4	25	6.25	5,668.0	0.0	5,668
	ſ	7	I.E	140	4	28	7	0	0		_4	28	7	8,887.4	0.0	8,88
		8	Moosapet	170	10	47	4.7	0	0		10	47	4.7	18,114.8	0.0	18,11
$ \perp$	{	9	Bharath Nagar	80	3	8	2.67	0	0		3	8	2.6667	1,451.0	0.0	1,45
13	FILMNAGAR	1	Ambedless No.com	20	<u> </u>	5	5	ō	0			5	5	226.7	0.0	22
1.5	(City-IV)	_	Ambedkar Nagar MLA colony	. 20		14		0		_	1-2	14		2.698.0	0.0	2,69
	8MVAX2			35	2	_		0	<u> </u>		2	14	6.5	1,031.6	0.0	1.03
Í	- F		Padmalaya Studio Ramanaidu Studio	25	- 2		0.2	0		_	2	0		1,051.0	0.0	1,05
	ŀ	_		40	0	_		0	0		0	0		0.0	0.0	
	}		Appollo Bharathiya Vidya Bhavan	- 40	3	_	5,67	0	0	-	3	-	5.6667	2.119.8	0.0	2,11
-+		0	Dialainiya viciya Dilavan				3.07					1	5.0001	2,1,17.0	0.0	4,11
14 J	AMES STREET	1	Park Lane	185	0	0		0	0		0	0		0.0	0.0	
	8MVAX2	2	P.G Road	190	1	5	5	0	0		1	5	5	2,153.8	0.0	2,15
		3	M.G Road	125	0	0		0	0		0	0		0.0	0.0	
	Į	4	Mahankali Temple	90	3	47	15.7	1	69	69	4	116	29	9,590.2	14,079.2	23,66
	[5	S.D Temple											0.0	0.0	(
		6	S.P Road											0.0	0.0	i i

ι,

Annex 4.3 - 9

				Max					ult(per)			Interrupt	B.D. Outage	I
Subst	tation Name		Name of Feeder	Load (A)		Interru		~~	Break o			(1) + (Outage	Enterny (Paulla)	_ (
16 10		- 1	17		No	Minute	Minute/No	No	Minute		No	Minute	Misule/No	Energy (kWh)		Ene
15 16	ALYANNAGA R (City-JV)		Krishna Nagar	80	4	_		0	0					3,990.3	0.0	
	8MVAX3		Yousuf Guda	200	1			0	. 0					2,267.2	0.0	
	OM TAAD		Madhura Nagar	160	5			1	27					9,431.5	9,794.3	
			V.Road Nagar	40	0			1	42	_				0,0	3,808.9	
			A.G.Colony	80	1			0	0					1,088,3	0.0	
			Sri.Ram Nagar	40	2	12								1,088.3	0.0	
			CTI	5										0.0	0.0	
		8	SCADA											0.0	0.0	
16 1	MADHAPUR	_	Shilparamaam	50	0		_	Û	0		0	0		0.0	0.0	
	8MVAX2	2	АРПС-Н	60	7	75	10.7	0	Ó		7	75	10.714	10,202.3	0.0	
		3	APIIC I	100	4	20	5	0	0		4	20	5	4,534.4	0.0	
		4	HUDA	60	4	20	5	2	151	76	6	171	28.5	2,720.6	20,540.7	
:		5	NAC GROUNDS											0.0	0.0	
17 M/	AITRIVANAM		Sarathi Studio	80	4	66	16.5	0	0		4	66	16.5	11,970.8	0.0	
	(City-JV)	-	Srinivas Colony	30	2		5	0	0		2	10	5	680.2	0.0	
	8MVAX2		Mathrivanam	110	. 4		5	Ő	Ő		4	20	5	4,987,8	0.0	
	ł		Amberpet	180	6			3	125	_	9		18.111	15,507.6	51,011.7	
	ł		Anandbagh	100	2		5	0	· 0		2	10	5	2.267.2	0.0	
	ł		Aditya	50	0			ŏ	Ö		0	_		0.0	0.0	
			Ziditya	1	Ť	<u> </u>					-			0.0		
18 M	ARREDPALL	1	AOC	10	0	0		0	0		0	0		0.0	0.0	
	Y 8MVAX2		Mahindra Hills	130	5		4.2	1	14		6			6,189.4	4.126.3	· .
	1 011171712			170				1			03					
	-		Nehru Nagar		3				0				5.6667	6,552.2	0.0	
			Military Hospital	20	2		4.5	0	0	_	2	9	4.5	408.1	0.0	
			Rly. Colony R.K.Puram	135 85	1		4 3.67	1 . 0	41	41	2	45	22.5 3.6667	1,224.3 2,119.8	12,548.9 0.0	
Hyderal	bad North			85				. 0			3			2,119.8	0.0	
	bad North tation Name			85 Max	3		3.67	0 Fat	0	month	3	(1) + (3.6667 2)	2,119.8 Interrupt Outage	0.0 B.D. Outage	 In (
Subst	tation Name		R.K.Puram	85	3	11	3.67 ption	0 Fat	0 alt(per	month lown	3	(1) + (3.6667 2)	2,119.8 Interrupt	B.D. Outage	În
Subst		. 6	R.K.Puram	85 Max	3	11 Interru Minute	3.67 ption	0 Fai (2) I	0 alt(per Break c	month lown	3	(1) + (3.6667 2)	2,119.8 Interrupt Outage	B.D. Outage	În
Subst	tation Name	1	R.K.Puram	85 Max Load (A) 90 70	3 (1) No	11 Interru Minute 0	3.67	0 Fat (2) E No	0 alt(per Break of Minute	month Iown)	11 (1) + (1)	3.6667 2)	2,119.8 Interrupt Oulage Energy (kWb)	0.0 B.D. Outage Energy (kWh)	In (Êne
Subst	tation Name	<u> </u>	R.K.Puram Name of Feeder GVK Hotel	Max Load (A) 90	3 (1) No 0	11 Interru Minute 0 75	3.67 ption	0 Fat (2) E No 0	0 alt(per Break o Minute 0	month Iown)) No 0	11 (1) + (Minute 0	3.6667 2) Minute/No	2,119.8 Interrupt Outage Energy (kWb) 0.0	0.0 B.D. Outage Energy (kWh) 0.0	Ĩr
Subst	tation Name	<u> </u>	R.K.Puram Name of Feeder GVK Hotel Banjara Hills	85 Max Load (A) 90 70	3 (1) No 4	11 Interru Minute 0 75 25	3.67 ption Manager	0 Fat (2) E No 0 1	0 alt(per : Break o Minute 0 410	month iown 410 81) No 0	11 (1) + (Minute 0 485	3.6667 2) Minute/No 97	2,119.8 Interrupt Oulage Energy (kWb) 0.0 11,902.7	0.0 B.D. Outage Energy (kWh) 0.0 65,068.3	Îr Êne
Subst	tation Name	6 1 2 3 4	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta	85 Max Load (A) 90 70 80	3 (1) No 0 4	11 Interru Minute 0 75 25	3.67	0 Fat (2) F No 0 1 2	0 alt(per Break o Minute 0 410 162	month lown 410 81) No 0 3	11 (1) + (1) Minute 0 485 187	3.6667 2) Minute/No 97 62.333	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4	0.0 B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8	In (Ene
Subst	tation Name	1 2 3 4 5	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS	Max Load (A) 90 70 80 75	3 (1) No 0 4 1 4	11 Interru Minute 0 75 25 75 25 25 27	3.67 ption Historic 18.8 25 18.8	0 Fat (2) H № 0 1 2 0	0 Break of Minute 0 410 162 0	month lown 410 81	3 No 0 5 3 4	11 (1) + (1) Minute 0 485 187 75	3.6667 2) Minute/No 97 62.333 18.75	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4 12,752.9	0.0 B.D. Outage Energy (XWh) 0.0 65,068.3 29,382.8 0.0	În Êne
Subst	tation Name	1 2 3 4 5 6	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao	85 Max Load (A) 90 70 80 75 65	3 (1) No 0 4 1 4 1	11 Interru Minute 0 75 25 75 27 33	3.67 ption 18.8 25 18.8 27 11	0 Fat (2) F No 0 1 2 0 2	0 alt(per Break o Minute 0 410 162 0 173	month lown 410 81 87 72	3 No 0 5 3 4 3	11 (1) + (Minute 0 485 187 75 200	3.6667 2) Minute/No 62.333 18.75 66.667	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9	0.0 B.D. Outage Energy (XWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3	In (Ene
Subst	tation Name	- 6 	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple	Max Load (A) 90 70 80 75 65 65 60	3 (1) No 4 1 4 1 3	11 Interru Minute 0 75 25 75 27 33	3.67 ption 18.8 25 18.8 27 11	0 Fat (2) I No 0 1 2 0 2 1	0 alt(per Break o 410 162 0 173 72	month iown 410 81 87 72 307). No 0 5 3 4 3 4	11 (1) + (Minute 0 485 187 75 200 105	3.6667 2) Minute/No 62.333 18.75 66.667 26.25	2,119.8 Interrupt Oulage Energy (KWh) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0	0.0 B.D. Outage Energy (XWh) 0.0 65,068.3 29,382.8 0.0 25,494.5	In (Ene
Subst	tation Name	1 2 3 4 5 6 7 8	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil	Max Load (A) 900 700 800 755 655 600 800	3 (1) No 0 4 1 4 1 3 3 3	11 Interru Minute 0 75 25 75 25 75 27 33 16 5	3.67 ption 18.8 25 18.8 27 11 5.33 5	0 Fat (2) E 0 1 2 0 2 1 2	0 alt(per Break of 410 162 0 173 72 614 1168	month iown 410 81 87 72 307) No 0 5 3 4 3 4 5	11 (1) + (Minute 0 485 187 75 200 105 630	3.6667 2) Minute/No 62.333 18.75 66.667 26.25 126 586.5	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2	0.0 B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8	In Ene
Subst	tation Name	1 1 2 3 4 5 6 7 7 8 8 9	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi	Max Load (A) 90 70 80 75 65 65 60 80 80 90	3 (1) No 0 4 1 1 3 3 3 1	11 Interru Minute 0 75 25 75 25 75 27 33 16 5	3.67 ption 18.8 25 18.8 27 11 5.33	0 Fat (2) F 0 1 2 0 2 1 1 2 1	0 alt(per Break of 410 162 0 173 72 614	month lown 410 81 87 72 307 1168) No 0 5 3 4 4 3 4 5 2	11 (1) + (Minute 485 187 75 200 105 630 1173	3.6667 2) Minute/No 62.333 18.75 66.667 26.25 126 586.5	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6	0.0 B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0	
Subst	tation Name	1 1 2 3 3 4 4 5 6 6 7 7 8 8 9 9 10	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace	85 Max Load (A) 90 70 80 75 65 65 60 80 90 250	(1) No 0 4 4 1 1 3 3 3 1 1 11	11 Interru Minute 0 75 25 75 27 33 16 5 71	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45	0 Fair (2) I No 0 1 2 0 0 1 1 2 1 3	0 Break o Minute 0 410 162 0 173 72 614 1168 537	month iown 410 81 87 72 307 1168 179) No 0 55 33 4 4 3 4 4 5 2 2 14	11 (1) + (1) Minute 0 485 187 75 200 105 630 1173 608	3.6667 2) 97 62.333 18.75 66.67 26.25 126 586.5 43.429	2,119.8 Interrupt Outage Energy (kWt) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0	0.0 B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0	In Ene 11 22 34
Subst	tation Name	6 1 2 3 3 4 4 5 6 7 7 8 9 9 9 10 1	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj	85 Max Load (A) 90 70 80 75 65 60 80 90 250 115	3 (1) No 0 4 4 1 1 3 3 3 3 1 1 11 4	11 Minote 0 75 25 75 27 33 16 5 71 100	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 25	0 Fau (2) I No 0 1 1 2 2 0 0 2 1 1 3 3 0	0 alt(per Break of 0 410 162 0 173 72 614 1168 537 0	month Jown 410 81 87 72 307 1168 179	3 No 0 55 33 4 3 4 3 4 5 2 2 14 14 4	(1) + (Minute 0 485 75 200 105 630 1173 608 1100	3.6667 2) Minute/ve 62.333 18.75 66.657 66.655 126 586.5 43.429 25	2,119.8 Interrupt Outage Energy (kWh) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7	0.0 B,D, Outage Energy (XWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0	In Ene
Subst	tation Name IMS 8MVAX3 PATIGADDA	6 1 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9 9 9 10 1 2	R.K.Puram Name of Feeder GVK Hote! Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura	85 Max Load (A) 90 70 80 75 65 60 80 90 250 115 130	3 (1) No 0 4 1 1 4 1 1 3 3 3 1 1 1 1 1 1 1 1 1 1 1	11 Minote 0 75 25 75 27 33 16 5 71 100 15	3.67 ption Hamming 18.8 25 18.8 27 11 5.33 5 6.45 25 7.5	0 (2) I No 0 1 2 2 1 2 1 3 3 0 0 0 0	0 silt(per 3reak of 0 4100 162 0 173 72 614 1168 537 0 0 0 0 0 0 0 0 0 0 0 0 0	month jown 410 81 87 72 307 1168 179	3 No 0 5 3 4 3 4 4 5 2 1 4 4 4 2 1 4	(1) + (Minute 0 485 75 200 105 630 1173 608 1173 608	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0	0.0 B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0	In Ene 11 22 34
Subst	tation Name IMS 8MVAX3 PATIGADDA	6 1 2 3 3 4 4 5 6 7 7 7 8 8 9 9 10 1 1 2 3	R.K.Puram Name of Feeder GVK Hote! Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan	85 Max Load (A) 90 70 80 75 65 65 60 80 90 250 115 130 14	3 (1) No 0 4 1 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	111 Minute 0 755 255 755 275 275 275 275 275 275 275	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 25 7.5 6.45	0 Fan (2) I No 0 1 2 1 2 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Break c 0 410 162 0 173 72 614 1168 537 0 0 0 0 0	month lown 410 81 87 72 307 1168 179	3 No 0 5 3 4 3 4 5 2 14 14 2 1 1	(1) + (Minute 0 485 187 75 200 105 630 1173 608 1173 608 100 15 6	3.6667 2) Minute/No 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5 6 6 6	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 0.0 26,072.7 4,421.0 190.4	0.0 B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0	Ene
Subst	tation Name IMS 8MVAX3 PATIGADDA	6 1 2 3 3 4 4 5 5 6 7 7 7 8 8 9 9 10 1 1 2 2 3 3 4	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera	Max Joad (A) 90 70 80 75 655 600 80 90 130 14 190	3 (1) No 0 4 4 1 1 3 3 3 1 1 11 11 11 11 8	11 Interru Minute 0 75 25 75 27 33 36 6 71 100 15 6 56	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 7.5 6.45 7.5 6.45	0 Faint (2) II No 0 1 1 2 2 1 1 2 1 3 3 0 0 0 0 0 0 0 0 1	0 Break c 0 410 162 0 173 72 614 1168 537 0 0 0 0 0 150	month lown 410 81 72 307 1168 179 150) No 0 5 5 3 4 4 5 5 2 2 14 4 4 2 1 4 4 2 9	11 (1) + (Minute 0 485 187 75 200 105 630 1173 608 1173 608 1173 608 1173 608	3.6667 2) Minute/No 62.333 18.75 66.65 26.25 126 586.5 43.429 25 7.5 6 6 22.889	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9	0.0 B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	In Ene 1 2 3
Subst	tation Name IMS 8MVAX3 PATIGADDA	1 1 2 3 3 4 4 5 5 6 6 7 7 7 8 8 9 9 9 9 10 1 1 2 3 3 4 4 5 5	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road	85 Max Load (A) 90 70 80 75 65 60 80 80 90 250 115 130 134 14 190 190	3 (1) N₀ 0 4 4 1 1 3 3 3 1 1 11 11 11 11 11 11 8 8 8	11 Minute 0 75 25 75 27 33 16 5 71 100 15 6 56 140	3.67 ption 18.8 255 18.8 27 11 5.33 5 6.45 7.5 6 7.5 6 7 7 7 7,75	0 Faint (2) If No 0 1 1 2 2 1 3 3 0 0 0 0 0 0 1 1 1	0 state of the second	month Jown 410 81 87 72 307 1168 179 150 86) No 0 5 3 3 4 4 3 4 5 2 14 4 2 14 4 2 9 9 9	11 (1) + (Minute 0 485 187 75 2000 105 630 1173 608 1173 608 1100 105 6 6 206 226	3.6667 2) Minute/No 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.55 6 6 22.889 25.111	2,119.8 Interrupt Outage Energy (KWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9 60,307.2	0.0 B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Ene
Subst 19 Ni 20 F	tation Name IMS 8MVAX3 PATIGADDA 8MVAX3	6 1 2 3 3 4 5 6 6 7 7 7 8 8 9 9 9 9 9 9 9 10 1 1 2 3 3 4 4 5 6	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park	85 Max Load (A) 90 70 80 75 65 65 65 60 80 90 250 115 130 - 14 190 190 190 20	3 (1) N₀ 0 4 4 1 1 3 3 3 1 1 11 11 11 11 11 11 11 11 1	11 Minute 0 0 75 25 75 27 33 16 5 71 100 15 6 6 5 6 140 5	3.67 ption 18.8 25 18.8 27 1 1 5.33 5 6.45 7,5 6 6 7 7,5 6 6 7 7 17,5 5	0 Fata (2) I No 0 1 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 state of the state of the st	month iown 410 81 87 72 307 1168 179 150 86	3 No 0 55 33 4 4 3 3 4 4 5 2 14 14 2 14 1 9 9 9 9 1	(1) + (Minute 0 485 187 75 200 105 630 1173 608 100 15 6 6 206 206 5	3.6667 2) Minute/No 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.55 6 6 22.889 25.111 5	2,119.8 Interrupt Outage Energy (kWh) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9 60,307.2 226.7	0.0 B.D. Outage Energy (XWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	In () Ene
Subst 19 Ni 20 F	tation Name IMS 8MVAX3 PATIGADDA 8MVAX3	6 1 2 3 3 4 4 4 5 5 6 6 7 7 7 8 8 9 9 10 1 1 2 3 3 4 4 5 5 6 6 1 1	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal	85 Max Load (A) 90 70 80 755 655 60 80 90 250 115 130 14 190 190 20 110	3 (1) No 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1	111 Minute 0 0 75 25 75 25 75 27 33 36 16 5 71 100 15 6 6 140 5 100	3.67 ption 18.87 25 18.8 27 11 5.33 5 6.45 25 7.5 6 6 6 7 7 17.5 5 16.7	0 Fat (2) I No 0 2 2 1 1 2 1 1 2 1 1 3 3 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0	0 Break ct 0 162 0 173 72 614 1168 537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	month down 410 81 87 72 307 1168 179 150 86	3 No 0 55 33 4 4 3 4 4 5 5 2 14 1 4 2 14 1 9 9 9 9 1 6	(1) + (Minute 0 485 187 755 200 105 630 1173 608 100 155 6 206 206 226 5 100	3.6667 2) Minute/Ne 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5 6 22.819 25.819 25.819 5 16.667	2,119.8 Interrupt Outage Energy (kWh) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9 60,307.2 226.7 24,939.1	0.0 B,D, Outage Energy (&Wh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
Subst 19 Ni 20 F 21 R	tation Name IMS 8MVAX3 PATIGADDA 8MVAX3 .P.NILAYAM (City-VI)	6 1 2 3 3 4 4 4 5 5 6 6 7 7 7 8 8 9 9 10 1 1 2 3 3 4 4 5 5 6 6 1 1 2 2 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10	R.K.Puram Name of Feeder GVK Hote! Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal	85 Max Load (A) 90 70 80 75 65 665 60 80 90 250 250 115 130 14 190 190 200 110 80	3 (1) No 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1	111 Minute 0 75 25 75 27 33 16 5 71 100 15 6 6 6 6 140 5 100 80	3.67 xiamono xiamon	O Fat (2) I No 0 1 2 0 21 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Break c 0 0 162 0 173 72 614 1168 537 0 0 0 150 0 866 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	month down 410 81 72 307 1168 179 150 86	3 No 0 5 3 3 4 4 5 5 2 1 4 4 2 1 1 9 9 9 9 1 6 6 8	(1) + (Minute 0 485 187 75 200 105 630 1173 608 0 100 15 6 6 206 226 5 5 100 80	3.6667 2) Minute/Ne 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5 6 6 22.889 25.111 5 16.667 10	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9 60,307.2 2226.7 24,939.1 14,510.0	B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	In () Ene
Subst 19 Ni 20 F 21 R	tation Name IMS 8MVAX3 PATIGADDA 8MVAX3	6 1 2 3 4 4 5 6 6 7 7 8 9 9 9 10 1 1 2 2 3 3 4 4 5 6 6 1 1 2 3	R.K.Puram Name of Feeder GVK Hote! Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal EME	85 Max Load (A) 90 70 80 75 65 665 60 80 90 250 250 115 130 14 190 190 190 120	(1) No 0 4 4 1 1 1 1 1 1 1 1 1 1	Interru Minute 0 75 25 75 75 75 75 75 77 33 16 5 71 100 15 6 6 140 15 5 6 140 5 5 1000 5 5	3.67 18.8 25 18.8 27 111 5.33 5 6.45 25 7.5 6 6 7 17.5 5 16.7 10 5	0 Fait (2) I No 0 1 2 0 21 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 sil((per Break c 0 4100 162 0 4100 162 0 173 72 614 4106 537 0 0 0 0 0 0 0 0 0 0 0 0 0	month lown 4100 81 87 72 307 1168 179 150 86	3 No 0 5 3 4 4 5 2 1 4 4 2 1 9 9 9 1 6 8 1	11 (1) + (Minute 0 485 187 75 200 105 630 1173 608 1173 608 206 226 5 100 0 0 0 5 5 100 5 5 100 5 5 100 5 5 100 5 5 100 5 5 100 105 105	3.6667 2) Minute7Ne 62.333 18.75 66.667 26.25 126 586.5 43.429 25 125 7.55 6 22.889 25.111 5 16.667 0 5 5 16.667 0 5	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9 60,307.2 226.7 24,939.1 14,510.0 1,360.3	0.0 B,D, Outage Energy (kWh) 0.0 65,068.3 29,382.8 29,382.8 30,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	In Ene 1 2 3
Subst 19 Ni 20 F 21 R	tation Name IMS 8MVAX3 PATIGADDA 8MVAX3 .P.NILAYAM (City-VI)	6 1 2 3 4 4 5 6 6 7 7 8 9 9 9 10 1 1 2 2 3 3 4 4 5 6 6 1 1 2 3	R.K.Puram Name of Feeder GVK Hote! Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal	85 Max Load (A) 90 70 80 75 65 665 60 80 90 250 250 115 130 14 190 190 20 110 80	3 (1) No 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Interru Minute 0 75 25 75 75 75 75 75 77 33 16 5 71 100 15 6 6 140 15 5 6 140 5 5 1000 5 5	3.67 18.8 25 18.8 27 111 5.33 5 6.45 25 7.5 6 6 7 17.5 5 16.7 10 5	O Fat (2) I No 0 1 2 0 21 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 Break c 0 0 162 0 173 72 614 1168 537 0 0 0 150 0 866 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	month lown 4100 81 87 72 307 1168 179 150 86	3 No 0 5 3 3 4 4 5 5 2 1 4 4 2 1 1 9 9 9 9 1 6 6 8	11 (1) + (Minute 0 485 187 75 200 105 630 1173 608 1173 608 206 226 5 100 0 0 0 5 5 100 5 5 100 5 5 100 5 5 100 5 5 100 5 5 100 105 105	3.6667 2) Minute7Ne 62.333 18.75 66.667 26.25 126 586.5 43.429 25 125 7.55 6 22.889 25.111 5 16.667 0 5 5 16.667 0 5	2,119.8 Interrupt Outage Energy (kWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9 60,307.2 2226.7 24,939.1 14,510.0	B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
Subst 19 Ni 20 F 21 R 7.	tation Name IMS 8MVAX3 PATIGADDA 8MVAX3 (City-VI) .5MVA 8MVA	6 1 2 3 3 4 5 6 6 7 7 7 8 8 9 9 9 10 1 1 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal EME V.Puram R.P.Nilayam	85 Max Load (A) 90 75 65 65 60 80 90 250 115 130 120 190 190 120 5	3 (1) No 4 4 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Interru Minute 0 75 25 75 27 33 16 5 5 71 100 15 5 6 6 140 5 5 6 0 100 80 0 0	3.67 18.8 25 18.8 25 18.8 25 18.8 25 5 6.45 25 7.5 6 7 10 5 5 16.7 10 5 5	0 Fau (2) I No 0 2 1 2 1 2 1 2 1 2 1 3 0	0 all(per Break c 0 0 410 162 0 0 173 72 614 1168 537 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	monthh lown 4100 81 87 72 307 1168 179 150 86	3 No 0 5 5 3 4 3 4 3 4 3 4 3 4 4 3 4 4 3 4 4 4 2 1 4 4 4 2 1 4 6 6 8 8 1 0 0 0 0 0 0 0 0 0 0 0 0 0	(1) + (Minute 0 485 187 75 200 105 630 1173 608 0 100 15 6 206 226 5 100 80 5 0 0	3.6667 2) Minute/No 62.333 18.75 66.667 26.25 126 586.5 43.429 25.7.5 6 22.889 22.811 5 16.667 10 5	2,119.8 Interrupt Outage Energy (kWt) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9 60,307.2 226.7 24,939.1 14,510.0 1,360.3 0,0	0.0 B.D. Outage Energy (XWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	In Ene 1 2 3
Subst 19 Ni 20 F 21 R 7.	tation Name IMS 8MVAX3 PATIGADDA 8MVAX3 C.P.NILAYAM (City-VI) .5MVA 8MVA SRINAGAR	6 1 2 3 3 4 4 5 6 6 7 7 8 8 9 9 9 10 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 4 5 5 6 6 7 7 7 8 8 9 9 0 11 1 1 2 2 3 3 3 4 4 4 4 5 5 6 6 6 6 6 1 1 1 1 1 1 1 1 1 1 1 1 1	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal EME V.Puram R.P.Nilayam Udyog Nagar	85 Max Load (A) 90 70 80 80 90 250 115 130 14 190 20 110 80 120 5 5 80	3 (1) N₀ 0 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	111 Minute 0 75 255 27 75 27 33 16 5 5 71 100 15 6 6 5 5 100 80 5 5 100 80 15	3.67 ption 18.82 25 7.5 6.45 7.5 6.45 7.5 6.45 7.5 7.5 16.7 10 5 5 16.7 10 5 5 5 5 5 5 5 5 5 5 5 5 5	0 Fata (2) I I No 0 2 2 1 2 1 2 1 3 3 0 0 0 0 0 0 0 0 0 0 0 0 0	0 lil(per Break c 0 162 0 173 72 614 1168 537 0 0 0 0 0 0 0 0 0 0 0 0 0	month lown 410 81 87 72 307 1168 179 150 86	3 No 0 5 3 4 4 3 4 4 5 1 4 1 4 2 1 4 1 9 9 9 9 1 1 6 8 8 1 0 0	(1) + (Minute 0 485 187 75 200 105 630 1173 608 608 100 1173 608 608 100 15 6 206 5 100 80 5 0 0	3.6667 2) Minute/No 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5 6 22.819 25 7.5 6 22.819 25.15 16.667 10 5 16.667 10 5	2,119.8 Interrupt Outage Energy (kWh) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,024.2 6 0.0 26,072.7 24,939.1 14,510.0 1,360.3 0.0 2,720.6	0.0 B,D, Outage Energy (XWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
Subst 19 Ni 20 F 21 R 7.	tation Name IMS 8MVAX3 PATIGADDA 8MVAX3 .P.NILAYAM (City-VI) .SMVA 8MVA SRINAGAR COLONY	6 1 2 3 3 4 4 5 6 6 7 7 8 8 9 9 0 1 1 2 2 3 3 4 4 5 6 6 1 1 2 2 3 3 4 4 4 5 5 6 6 7 7 7 8 9 9 0 11 1 2 2 3 3 3 4 4 4 5 5 6 6 6 6 6 1 1 2 2 5 5 6 6 6 6 6 1 1 2 2 5 7 7 7 7 7 7 8 9 9 1 1 1 2 2 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal EME V.Puram R.P.Nilayam Udyog Nagar Kamlapuri colony	85 Max Load (A) 90 70 80 755 655 60 80 90 250 115 130 14 190 20 110 80 120 80 120	3 (1) N₀ 0 0 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Interra Minute 0 75 255 27 33 16 5 71 100 15 6 6 5 6 100 80 5 5 100 80 15 30	3.67 ption 18.88 255 18.88 27 11 5.33 5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 6.45 7.5 5 16.7 10 5 5 5 5 5 5 5 5 5 5 5 5 5	Fata (2) II No 0 1 2 1 2 1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 2	0 slit(per Break c Minute 0 173 72 614 1168 537 0 0 0 0 0 0 0 0 0 0 0 0 0	month lown 410 81 87 72 307 1168 179 150 86 	3 No 0 5 3 4 4 5 2 14 4 4 2 14 4 2 14 6 8 10 0 1 4 8 10 10 10 10 10 10 10 10 10 10	11 (1) + (Minute 0 485 187 75 5 200 105 630 1173 608 0 1173 608 0 100 15 6 6 206 226 5 100 80 5 5 100 80 5 5 100	3.6667 2) Minute/Ne 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5 6 22.819 25.819 25.819 25.819 5 16.667 10 5 8.75 15.625	2,119.8 Interrupt Outage Energy (kWh) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9 60,307.2 226.7 24,939.1 14,510.0 1,360.3 0.0 2,720.6 8,161.9	0.0 B,D, Outage Energy (&Wh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
Subst 19 Ni 20 F 21 R 7.	tation Name IMS 8MVAX3 PATIGADDA 8MVAX3 C.P.NILAYAM (City-VI) .5MVA 8MVA SRINAGAR	6 1 2 3 4 4 5 6 7 7 7 8 8 9 9 10 1 2 2 3 3 4 4 5 6 6 1 2 2 3 3 4 4 5 6 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal EME V.Puram R.P.Nilayam Udyog Nagar Kamlapuri colony	85 Max Load (A) 90 70 80 755 655 600 80 90 115 130 14 190 200 110 80 120 80 120 180	3 (1) N₀ 0 4 1 1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Interru Minute 0 75 255 77 33 16 5 71 100 155 6 6 56 140 0 80 80 80 80 80 9 5 100 80 80 9 25 5 0 0 9 25 100 100 100 100 100 100 100 100 100 10	3.67 ption 18.8 255 18.8 27 11 5.33 5 6.45 7.5 6.45 7.5 6.45 7.5 16.7 10 5 5 5 5 5 5 5 5 5 5 5 5 5	O (2) II No 0 1 2 1 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 sli(per Break c 0 410 162 0 173 72 614 1168 537 0 0 0 0 0 0 0 0 0 0 0 0 0	month fown 410 81 87 72 307 1168 179 150 86 	3 No 0 5 3 4 4 4 2 14 4 2 14 4 2 14 6 8 1 0 0 4 8 5 5 2 2 14 4 2 5 5 2 2 14 4 2 5 5 5 5 5 5 5 5 5 5 5 5 5	(1) + (Minute 0 4855 1877 7575 2000 1005 6300 1173 608 0 1000 155 66 2066 2266 2266 2266 55 5 000 800 55 000 800 55 1000 800 800 800 800 800 800 800 800 80	3.6667 2) Minute/Ne 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5 6 6 22.889 25.111 5 16.667 10 5 8.75 15.625 5	2,119.8 Interrupt Outage Energy (tWb) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9 60,307.2 226.7 24,939.1 14,510.0 1,360.3 0,0 2,720.6 8,161.9 10,202.3	0.0 B.D. Outage Energy (kWh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	
Subst 19 Ni 20 F 21 R 7.	tation Name IMS 8MVAX3 PATIGADDA 8MVAX3 .P.NILAYAM (City-VI) .SMVA 8MVA SRINAGAR COLONY	6 1 2 3 4 4 5 6 7 7 7 8 8 9 9 10 1 2 3 3 4 4 1 2 3 4 4 5 5 6 6 1 1 2 3 4 4 5 5 7 7 7 7 7 8 8 9 9 9 9 10 10 10 10 10 10 10 10 10 10	R.K.Puram Name of Feeder GVK Hotel Banjara Hills Panjagutta NIMS Tata Rao Sai baba temple Road No.5 Erramanzil Andhra Jyothi BhaskaraPalace Ranigunj Rasoolpura Budda Bhavan Zeera Minister Road Sangeevaiah park Alwal EME V.Puram R.P.Nilayam Udyog Nagar Kamlapuri colony	85 Max Load (A) 90 70 80 755 655 60 80 90 250 115 130 14 190 20 110 80 120 80 120	3 (1) N₀ 0 0 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1	Interru Miaute 0 75 25 75 75 77 33 16 5 77 77 33 16 5 77 100 15 6 6 140 15 6 6 140 0 5 5 0 0 0 0 5 5 200 25 200 25 200 25 200 25 200 25 200 200	3.67 ption 18.8 25 18.8 27 11 5.33 5 6.45 7,5 5 6.45 7,5 16.7 10 5 5 5 5 5 5 5 5 5 5 5 5 5	Fata (2) II No 0 1 2 1 2 1 2 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 2	0 sil(per Greak c Minute 0 0 162 173 72 614 1168 537 0 0 0 0 0 0 0 0 0 0 0 0 0	month down 410 81 87 72 307 1168 179 150 86 	3 No 0 5 3 4 4 5 2 14 4 4 2 14 4 2 14 6 8 10 0 1 4 8 10 10 10 10 10 10 10 10 10 10	(1) + (Minute 0 4855 1877 755 2000 1005 6300 1173 608 6300 1173 608 2066 2266 2266 2266 2266 2266 2266	3.6667 2) Minute/Ne 97 62.333 18.75 66.667 26.25 126 586.5 43.429 25 7.5 6 6 22.889 25.111 5 16.667 10 5 8.75 15.625 5	2,119.8 Interrupt Outage Energy (kWh) 0.0 11,902.7 4,534.4 12,752.9 3,978.9 4,489.0 2,902.0 1,020.2 40,242.6 0.0 26,072.7 4,421.0 190.4 24,122.9 60,307.2 226.7 24,939.1 14,510.0 1,360.3 0.0 2,720.6 8,161.9	0.0 B,D, Outage Energy (&Wh) 0.0 65,068.3 29,382.8 0.0 25,494.5 9,794.3 111,364.3 238,326.8 304,370.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	

,				Max					ilt(per i)			interrupt	B.D. Outage	Int.+B,D,
Su	bstation Name		Name of Feeder	Load (A)	~~	Interru	· · · · ·	<u> </u>	break d			(1) + (Outage	France (111/h)	Outage
				04	No	Minute	Minste/No	No	Minute	34 1000.000	No	Minute		Energy (kWh)	2	Energy (kW
23	YOUSUF GUDA	1	Borabonda	85	3	25	8.33	0	0		3	25	8.3333	4,817.8	0.0	4,817
	8MVAX2	2	Vinayak Nagar	110	8	62	7.75	3	390	130	_ 11	452	41.091	15,462.2	97,262.4	112,724
		3	Police Lines	150	10	75	7.5	3	202	67	13	277	21.308	25,505.9	68,695.8	94,201
		4	Gayatri Hills	35	0	0		0	0		0	0		0.0	0.0	(
		5	IOA	5	3	19	6.33	0	0		3	19	6.3333	215,4	0.0	215
_		6	MLA colony	5	1	15	15	0	0		1	15	15	170.0	0.0	170
_																
24	LALAGUDA	_	A.P.Dairy	40		<u> </u>		0	0		2	32		2,902.0	0.0	2,902
	(City-V)	2	Shanti Nagar	180	10	91	9.1	0	0		10	91	9,1	37,136.5	0.0	37,136
	5MVAX3	3	Lalapet	50	2	9	4.5	0	0		2	9	4,5	1,020,2	0.0	1,020
		4	Tarnaka	100	1	20	20	0	0		1	20	20	4,534,4	0.0	4,534
		5	Vijayapuri	170	21	227	10.8	3	296	99	24	523	21.792	87,490.8	114,084.9	201,575
25	OSMANIA	1	Osmania University	55	2	9	4.5	- 0	0		2	- 9	4.5	1,122,3	0.0	1,122
	UNIVERSITY	2	Boudhanagar	140	7	116		0	0		7	116	16.571	36,819,1	0.0	36.819
	SMVA,7.5MV		RTC Hospita;	125	1	5	5	2	135	68	3		46.667	1,417,0		39,67
	. <u>A</u>		Ravindra Nagar	50	1	10	10	0	0		1	10	10	1,133.6	0.0	1,13
									- 1							·
26	PRAGA		Indoswing	120	3	30	10	0	0		3	30	10	8,161.9	0.0	8,161
	TOOLS (City-	2	T.C Balnagar	160	5	95	19	3	172	57	8	267	33,375	34,461.3	62,393.0	96,854
	VI) 8MVAX2		Asbestos Hills	50	3	22	7.33	0	0		3	22	7.3333	2,493.9	0.0	2,493

				Max					ilt(per s		<u>}</u>			Interrupt	B.D. Outage	Int.+B.D.
Su	ubstation Name		Name of Feeder	Load (A)	<u> </u>	Interru Minute		<u> </u>	freak d		No	(1) + (Minute	2) Minute/No	Outage Energy (kWh)	Ensem (WWh)	Outage Energy (kWh
27	ROAD NO :12	1	CRPF	190	6		h	2	460	230	8	493	61.625	14,215,3	198,152.2	212,367.
	8MVAX2	2	C.Palace	55	8	57	7.13	2	464	232	10	521	52.1	7,107.6	57,858.6	64,966.
		3	M.Quarters	10	3	30	10	0	0	_	3	30	10	680.2	0.0	680.
		4	I.T.Colony	10	1	1	1	0	0		1	1	1	22,7	0.0	22,
:	·	5	Road No.12	125	- 8	50	6.25	3	371	124	11	421	38,273	14,169.9	105,140.8	119,310
		- 6	Road No.10	180	6	41	6.83	6	351	59	12	392	32.667	16,731,8	143,240.9	159,972
28	SEETHA	1	Gandhi Statue	80	3	13	4.33	0	0		3	13	4.3333	2,357,9	0.0	2,357.
	PALMANDI	2	Namalagundu	130	6	45	7.5	0	0		6	45	7.5	13,263,0	0.0	13,263
	8MVA,5MVA	3	Warasiguda	70	1	3	3	0	0	_	1	3	3	476.1	0.0	476
		4	Medibavi	155	2	9	4.5	0	0		2	9	4.5	3,162,7	0.0	3,162
_		5	Seethapahlmandi	80	1	3	3	0	0		1	3	3	544.1	0.0	544
29	132/33/11KV	1	M.Hospital	160										0.0	0.0	0
	GUNROCK	2	MDF	160	21	106	5.05	3	134	45	24	240	10	38,451.5	48,608.5	87,060
	8MVAX2	3	GPH	130	2	8	4	1	13	13	3	21	7	2,357,9	3,831.5	6,189
		4	Medchal	140	13	72	5.54	1	33	33	14	105	7.5	22,853.3	10,474.4	33,327
		5	Bowenpally	130	5	42	8.4	0	0		5	42	8.4	12,378,8	0.0	12,378
		6	Gymkhana	120	2	14	7	0	0		2	14	7	3,808.9	0.0	3,808
		7	AWHO	20	5	54	10.8	_1	25	25	6	79	13.167	2,448,6	1,133.6	3,582
			SPH US Cable											0.0	0.0	0
30	132/33/11KV	1	IOA	80	7	7	1	0	0		7	7	1	1,269,6	0.0	1,269
	JUBLEE	2	MLA Colony	15	0	0		6	0		0	0		0.0	0.0	0.
1	HILLS	3	Jub <u>li</u> hills	80	4	5	1.25	_0	0		4	5	1.25	906,9	0.0	906
1	8MVAX2	4	PEI (OH)	20	0	0		_0	0		0	0		0,0	0.0	0
			PEI (UG)	5	0	0		0	0	_	0	0		0.0	0.0	0.
			Film nagar	15	0	0		0	Ö			0		0.0	0.0	. 0.
Í		7	AOU	20	5	5	1	0	0		5	5	1	226.7	0.0	226.
		8	Prasasan Nagar	20	1	1	1	0	0		1	1	1	45.3	0.0	45

Hyd	erabad Central														1	r
			Name of Feeder	Max	(1)	Interru			ilt(per i Ireak d)	(1) + (7)	Interrupt Outage	B.D. Outage	Int.+B.D. Outage
51	ubstation Name		Name of Feeder	Load (A)	<u> </u>	Minute		~~			No			Energy (kWh)	Energy (kWh)	Energy (kWh
1	A C GUARDS	1	Mahaveer Hospital	115	3	1		1	24	24	4	75	18.75	13,297,1		19,554.5
•	8MVAX2.		Bazar ghat	155	5		8.2	0	0		5	41	8.2	14,408.0	<u> </u>	
	5MVA		Shanthi Nagar	120	1	<u> </u>		2	85	43	3	101	33.667	4,353.0		27,478.3
	21117	_	N.M.D.C	80	2	53	26.5	0	0		2	53	26.5	9,612.9	0.0	9,612.9
		5	Mahaveer Hospital cable	135	0	0		0	0		0	0		0.0	0.0	0.0
	ļ	б	Mahaveer											0.0	0.0	0.0
		7	Niloper Hospital											0,0	0.0	0.0
		8	Niloufer	70	7	55	7.86	3	262	87	10	317	31.7	8,728.7	41,580.2	50,308.9
2	AMBERPET	1	CPL feeder	35	0	0		0	0		0	0		0.0	0.0	0.0
	(City-II)	2	Patel Nagar	145	_12	82	6.83	0	0		12	82	6.8333	26,956.9	0.0	26,956.9
	8MVAX2	3	Amberpet Feeder	145	8	72	9	3	154	51	- 11	226	20,545	23,669.4	50,626.3	74,295.8
		4	Zinda thilasmat	145	1	5	5	0	0		1	5	5	1,643.7	0.0	1,643.1
		5	Tilaknagar	65	6	70	11.7	0	0		6	70	11.667	10,315.7	0.0	10,315.7
		6	Golnaka	75	1	5	5	0	0		1	5	5	850.2	0.0	850.2
						L										
3	ASIF NAGAR		Gudimalkapur	210	16			0	0		16	174	10.875	82,843.0		
	8MVAX3,		Jyothi Nagar	110	2		2.5	0	0		2	5	2.5	1,247.0	-	1,247.0
	5MVA	3	Padmanabha Nagar	60	3	27	9	0	0		3	27	9	3,672.8	0.0	3,672.8
		4	Alapatinagar	120	1	<u> </u>	<u> </u>	0	0		1	7	7	1,904.4	0.0	
	1	5	Mehdipatnam	180	2	53	26.5	0	0		2	53	26.5	21,629.0	0.0	21,629.0
	1 1	6	Military	30	21	164	7.81	0	0		21	164	7.8095	11,154.6	0.0	11,154.6
] [7	JCO Quarters	10	1	70		1	105	105	2	175	87.5	1,587.0	2,380.5	3,967.0
	[8	Hakimpet	120	11	97	8.82	0	0		11	97	8.8182	26,390.1	0.0	26,390.1
		9	Water works	10	1	125	125	0	0		1	125	125	2,834.0	0.0	2,834.0
		10	Kakatiynanagar	110	4	40	10	0	0		4	40	10	9,975.6	0.0	9,975.6

Hyderabad	Central

				Max		_			uli(per 1)			laterrupt	B.D. Outage	Int.+B.D.
Si	ibstation Name		Name of Feeder	Load(A)	(1)	Interru	ption	<u>(2) I</u>	Ireak d	own		<u>(1) + (</u>		Outage	Farm (1)1/h)	Outage
				~~~~~~	No	Minute	Minate/No	No	Minute	Mileeta.%o	No	Minute	Minute/No	Energy (kWb)	Latergy (KTTL)	Energy (kWb)
4	HYDERGUD	1	King kothi	160	5	65	13	0	. 0		5	65	13	23578.8	0.0	23,578.8
	A (City-I)	2	Hyderguda	185	1	10	10	1	60	60	2	70	35	4194.3	25,165.8	29,360.1
	8MVAX2	3	Hi May/03/03ath Nagar	140	4	40	10	1	30	30	5	70	14	12696.3	9,522.2	22,218.4
		4	Boggukunta	160	3	23	7.67	1	50	50	4	73	18,25	8343,3	18,137.5	26,480.8
· ·		5	Abids	135	2	30	15	0	0		2	30	15	9182.1	0.0	9,182.1
			MLA Quarters	20	0	0		0	0		0	0		0.0	0.0	0.0
5	HUSSAINSAGAR		Maruthi Nagar		1	_15		0	0		. 1	15	15		0.0	
1		2	BRK Bhayan	100	1	8		3		169	4	515	128,75	1813,8	114,946.4	
	(City-I,VII)	3	Lakdi-Ka-Pool	60	0			0	0		0	0		0.0	0.0	
	5MVAX4,	4	AG feeder	100	1	6			0		1	6		1360.3	0.0	
ļ.	7.5MVAX3	5	Gunfoundry Key SS	90	1	6		0	0		1	6	6	1224,3	0.0	1,224,3
ł	7.0111 7 1 1 1 0		Nampally Key SS	100	0			Ü	0		0	0				
		7	Kharirtabad	170	1	15		0	0		1	15	15	5781,3	0.0	
I			J.Block	60	0	0		0	Û		0	0		0,0	0.0	0.0
			MGV													
			Anand Nagar	160	2	18			50	- 50	3		22.667	6529,5	18,137,5	
				. 20	0			0	0		0	0		0.0	0.0	
ļ			HACA	200	2			0	0		2	8	4	3627.5	0.0	
1			Telephone Bhavan+Secretariat Press	110	0			0	0		0	0		0.0	0,0	
i i			RBI	90	. 1			0	0		1	3	3	612,1	0,0	
			Secretariat		0			0	0		0	0		0,0	0.0	
			Adarsh Nagar	40	1	24	24	2	129	65	3	153	51	2176.5	11,698,7	13,875,2
			Lumbini Park		_ 3			0	_ 0		3		13,667	2788.6	0.0	
!			I.G.Mint	10	1	5	5	0	0	_	1	. 5	5	113.4	0,0	
			Andhra Bank+ECR(Mint Compound)	60										0,0	0.0	
			TankBund	130	2			0	0		2	14		4126,3	0.0	
1			Basheer Bagh	140	12		3.42	1		101	13		10.923	13013.7	32,058,0	
				160	0	0		0	0		0	0		0.0	0.0	
			Multi purpose			L	L							. 0,0	0.0	
1			ECR				L							0.0	0.0	
	1		Secretariet Press			L.,								0.0	0.0	
	1	26	Multi purpose	130	5	26	5,2	0	0		5	26	5,2	7663.1	0.0	7,663,1

Hyd	erabad Central							Fa	alt(per i	month	<u>.</u>			Interrupt		Int.+B.D.
Su	bstation Name		Name of Feeder	Max Load (A)		Interru		(2) I	ireak d	own		(1) + (			B.D. Outage Energy (kWh)	,
			D			Minute			Minute	_						
6	CHILKAL-		Dandu pentaiah	75	4	29	-		32	32		61		4,931.1		10,372.4
	GUDA		Pragatools	75	2	24		0	0		2	24		4,080.9		4,080.9
	8MVAX2	_	New Boiguda	90	2			1	13	13	3		13.333		<u> </u>	8,161.9
			P.R.Nagar	85	7	58	8.29	0	0		7	58	8.2857	11,177.2		11,177.2
		5	Parsigutta	110	1	4	4	0	0		1	4	4	997.6		997.6
		6	Musheerabad	120	5	30	6	0	0		5	30	6	8,161.9	0.0	8,161.9
		7	GolcondaX Road	150	1	7	7	_ 0	0		1	7	7	2,380,5	0.0	2,380.5
7	EXHIBITION	1	Jawaharlal Nehru	175	5	116	23.2	0	0		5	116	23.2	46,023,9	0.0	46,023.9
	GROUNDS	2	Nampally Hospital	150	6	93	15.5	0	0		6	93	15.5	31,627,3	0.0	31,627.3
	8MVAX3	3	Collection Office	110	3	40	13,3	0	0		3	40	13,333	9,975.6	0.0	9,975.6
		4	Exhibition Gandhi Bhavan											0.0	0.0	0.0
		5	Seetharampet	140	8	123	15.4	0	0	_	8	123	15.375	39,041.0	0.0	39,041.0
	l f	6	Exhibition - Ajantha Gate	2	0	0		0,	0		0	0	_	0.0	0.0	0,0
	ſ	7	Ware House	70	Ź	20	10	0	0		2	20	10	3,174.1	0.0	3,174.1
	· [	8	Exibition											0.0	0.0	0.0
8	GOLCONDA	1	Golconda	100	7	45		0	0			-		10,202.3	0.0	0.0
	8MVAX2	2	Motimahal	180	9	75		3	90				_	30,607.0	36,728.4	0.0
	· ·	3	Adityanagar	100	8	60		2	60					13,603,1	13,603.1	0.0
	F T		Darga	70	9	155		2	150					24,599.0	23,805.5	0.0
			Waterworks	5	3	20		1	55					226.7	623.5	0.0
	Γ Γ	6	Q.Q.Tombs	20	4	20		1	37					906.9	1,677.7	0.0
	r f	7	Colconda AB Cable	55							- 1			0.0	0.0	0.0

				Max					ilt(per i		)			Interrupt	B.D. Outage	Int.+B.D.
Si	ubstation Name		Name of Feeder	Load(A)		Interru			Ireak c			<u>(1)+(</u>	2)	Outage	Energy (kWh)	Outage
	<del></del>				No		Minute/Ho		Minute	Minete/He	No	Minute	Misule/No	Energy (kWb)	Energy (kWh)	Energy (kW
9	INDUSTRIAL		Shankermutt	90	1	13		Ø	0		1	13			0.0	2,652
	AREA(City-II)		Ram Nagar	160	4	29	7.25	0	0		4	29	7.25	10,519,8	0.0	10,519
	8MVAX3		R.O.M	50	2	62	31	0	0		2	62	31	7,028.3	0.0	7,028
			11 KV DDH	80	10		8.2	0	0		10	82	8.2	14,872.8	0.0	14,872
		_	11 KV RTC X road	110	5	69		0	0		5	69	13.8	17,208.0	0.0	17,208
	1 [	-	Azamabad	100	6	73	12.2	0	0		6	73	_	16,550.5	0.0	16,550
			Barkatpura	18 <u>0</u>	7	59	8.43	0	0		7	59	<u>8.4286</u>	24,077.5	0.0	24,077
	· [	8	11 KV VST	80	0	0		0	0		0	0		0.0	0.0	0
		9	11 KV Azamabad Key SS	60	4	51	12.8	1	63	63	5	114	22.8	6,937.6	8,570.0	15,507
		10	11kV DDH UG											0.0	0.0	0
10	NARAYAN-	1	Lingampally	145	7	61	8.71	0	0		7	61	8,7143	20,053,3	0.0	20, <u>053</u>
	GUDA	2	Chikkadpally	55	2	20	10	0	0		2	20	10	2,493.9	0.0	2,493
	8MVAX2	3	Narayanaguda	85	5	55	11	1	45	45	6	100	16.667	10,599,1	8,672.0	19,271
		4	Preventive medicine	95	2	13	6.5	3	144	48	5	157	31.4	2,800.0	31,015.1	33,815
	) j	5	Preventive medicine(UG)					]						0.0	0.0	0
	l l	6	Linganpally											0.0	0.0	0
1	INDIRA		Vivek Nagar	150	4	- 38	9.5	0	.0		4	38	9.5	12,923.0	0.0	12,923
	PARK (City-I)	2	Gandhi Nagar		2	25	12.5	0	0		2	25	12.5	0,0	0.0	0
	8MVAX3		Bakaram->TallaBshi	60	ĩ	9	9	0	0		1	9	- 9	1,224,3	0.0	1,224
		4	Jawahar Nagar	50	1	2	2	0	0		1	2	2	226.7	0.0	226
			Ashok Nagar	175	4	31	7.75	0	0	- 1	4	31	7,75	12,299.5	0.0	12,299
			R.K.Mutt	120	2	20	10	1	60	60	3	80	26,667	5,441.3	16,323.8	21,765
			Lower Tank Bund	150	6	44	7.33	0	0		6	44	7.3333	14,963.4	0.0	14,963
		_	Kawadiguda	150	0	0		0	0		0	0		0.0	0.0	0
			Indian Express	40					- 1		1			0.0	0.0	0
	F		Vaartha						1		-	_		0.0	0.0	0

				Max					ilt(per :		) .			Interrupt	B,D, Qutage	Int.+B.D.
Su	bstation Name		Name of Feeder	Losd(A)	(1)	Interru	ption	(2) E	Break o	lown		(1) + (1		Outage	Enermy (kWh)	Outage
					No	Minute	Minute/No	No	Minute	hi izana/Ho	No	Minute	Minute/No	Energy (kWh)	Energy (kWh)	Energy (kWi
12	LAKE	1	Vidyut Soudha	60	0	0		0	0		0	0		0.0		
	VIEW(City-I)	2	Dilkusha	105	5	29	5.8	1	49	49	6	78	13	6,903.6	11,664.7	18,568
	8MVAX2	3	Raj Bhavan											0.0	0.0	0.
ļ		4	Lake View	25	0	0		0	0		0	0		0.0	0.0	0.
į		5	Medinova	140	2	17	8.5	0	0		2	17	8.5	5,395.9	0.0	5,395.
		6	Eenadu	100	1	6	6	0	0		1	6	6	1,360.3	0.0	1,360
13	PUBLIC	1	Parshiram Bhavan	160	1	5		1	45	45	2	50	25	1,813.8	16,323,8	18,137
	GARDEN	2	Nampally OH	180	2	10	5	0	0		2	10	5	4,080.9	0.0	4,080
	(City-I)	3	Ravindra Bharathi	120	1	5	5	0	0		1	5	5	1,360.3	0.0	1,360.
	8MVAX2	4	Assembly	10	0	0		0	0		0	0		0.0	0.0	0.
		5	Nampally											0.0	0.0	0.
		6	LB Stadium											0.0	0.0	0.
14	S.D.	1	Police Mess	75	6	174	29	0	0		6	174	29	29,586.8	0.0	29,586.
	HOSPITAL	2	Crsent Hospital	85	. 9	209	23.2	0	0		9	209	23,222	40,276.6	0.0	40,276
	8MVAX2	3	Hu May/03un Nagar	170	8	392	49	0	0		8	392	49	151,085.4	0.0	151,085
		4	Ahmednagar	140	9	205	22.8	0	0		9	205	22,778	65,068.3	0,0	65,068
		5	Chacha Nehru Nagar	55	4	40	10	0	0		4	40	10	4,987.8	0.0	4,987
		6	S.D.Hospital	10	2	61	30.5	0	0		2	61	30.5	1,383.0	0.0	1,383

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								Fat	ilt(per r	nonth	)			Interrupt	B.D. Outage	lat.+
Sι	bstation Name		Name of Feeder	Max Load (A)	(1)	Interru	· · · · ·	(2) E	Break d	own		(1) + (		Outage	E	Out
				•••	No	Minute	Missie/No	No	Minute	Milest, No	No	Minute	Minute/No			
1	ASMANGADH	1	SAIBABA	140		2	2	0	0		1	2	. 2	634.8	0.0	
	(City-VIII)	2	KODANDARAM NGR	130			3.4	1	52	52	_	69	11.5	5,010.5	15,326.2	20,
	8MVAX2	3	VIDYUTH NGR	55	3	8	2.67	0	0		3	8	2.6667	997.6	0.0	
		4	SHANKESH BZR	120	3	7	2.33	0	0		3	7	2.3333	1,904.4	0.0	1,
	i (	5	ASMANGADH	140	1	2	2	0	0		1	2	2	634.8	0.0	
		6	TV STATION	10	0	0		0	0		• 0	0		0,0	0.0	
2	ATTAPUR (City-	1	NM GUDA	140	16		7.94	0	0		16		7.9375			,
	III) 8MVAX2	2	DEVIGAUGH	150	7		5.57	0	0		7		5.5714			
		3	BHADURPURA	200	14		6.79	0	0		14		6.7857	43,076.6	-	
		4	KISHAN BAUGH	120	4	22	5.5	0	0		4	22	5.5	5,985.4	0.0	5,
3	CHANCHALGU	1	CHANCHALGUDA	90	-	30		0	0		1				0.0	- 1
	DA (City-VIII)	2	ARAYA SAMAJ	150	6	43	7.17	2	75	38	8	118		14,623.4	25,505.9	_ 40,
	8MVAX3	3	CHOWNI	180			7.22	0	0		9	65		26,526.1	0.0	,
		4	MADANNAPET	90	3		6.67	1	72	72	4	92	23	4,080.9	14,691.4	18,
		5	SAIDABAD	90	3	15	5	1	45	45	4	60	15	3,060.7	9,182.1	12,
		6	GOVT. PRESS										1	0,0	0.0	
						İ										
4	ENT (City-IX)	1	TROOP BAZAR	55	1	5	5	0	0		1	5	5		0.0	
	8MVA 5MVA	2	CENTRAL BANK OF INDIA	115	2	14	7	0	0		2	14	7	3,650.2	0.0	3,
	[	3	RANGA MAHAL ROAD	45	0	0		0	0		0	0		0.0		
		4	ENT HOSPITAL											0.0	0.0	
	[	5	JAM BAGH	105	11	89	8.09	1	12	12	12	101	8.4167	21,186.9	2,856.7	24.
	F F		GURUDWARA	95	•	5	5	0	0		1	5	5	1.076.9	0.0	1.

-		· · · ·		[ ]				Fa	lt(per )	month	)			Interrupt	B.D. Outage	Int.+B.D.
S	ubstation Name		Name of Feeder	Max Load (A)	(1)	Interru	ption	(2) H	Break C	own		(1) + (	2)	Outage		Outage
					No	Minute	Minaie/No	No	Minute	Kient/%	No	Minute	Minute/No	Energy (kWb)		Energy (kW)
5	FALAKNUMA	1	CRPF											0.0	0.0	0.
	8MVAX3	2	CGUTTA	140	7	84	12	0	0		7	84	12	26,662.1	0.0	26,662
		3	BARKAS											0.0	0.0	0
		4	FALAKNAMA	80	. 4	50	12.5	0	0		4	50	12.5	9,068.8	0.0	9,068
		5	J'METT	100	10	57	5.7	0	0		10	57	5.7	12,923.0	0.0	12,923
		6	CHATRINAKA	180	6	28	4.67	0	0		. 6	28	4.6667	11,426.6	0.0	11,426
		_										_				
6	KARWAN	1	ZIAGUDA	160	7	79	11.3	3	147	49	10	226	22.6	28,657.3	53,324.3	81,981
	8MVAX2	2	KARWAN	170	6	30	5	2	140	70	- 8	170	21.25	11,562.7	53,959.1	65,521
	1 1	3	TALLAGADDA	_170	4	28	7	1	40	40	5	68	13.6	10,791.8	15,416.9	26,208
		4	LANGER HOUSE	140	4	35	8.75	3	177	59	7	212	30,286	11,109.2	56,180.9	67,290
		_						_	_							
7	KHILWATH	1	TELEPHONE EXCHANGE	80	4	21	5.25	0	0		4	21	5.25	3,808.9	0.0	3,808
	(City-III)	2	KHILWATH	150	6	30	5	0	0		6		5	10,202.3	0.0	10,202
	8MVAX2	3	CHARMINAR	140	2	10	- 5	0	0		2	10	5	3,174.1	0.0	3,174
		4	MOGHALPURA	200	6	30	5	0	0		6	30	5	13,603.1	0.0	13,603
	( (	5	LALDARWAZA	200	10	62	6.2	0	0		10	62	6.2	28,113.1	0.0	
		6	IQ BAL-UD-DOULA													
8	KANCHANBAG	1	OWASI HOSPITAL	20	0	0		0	0		0	0		0.0	0.0	0
	H 8MVAX2	2	VINAY NGR	70	2	10	5	0	0		2	10	5	1,587.0	0.0	1,587
		3	IS SDAN	110	. 3	19	6.33	0	0		3	19	6.3333	4,738.4	0.0	4,738
	[	4	DARGA	140	5	90	18	0	0		5	90	18	28,566.6	0.0	28,566
		5	RAKSHAPURAM	55	3	19	6.33	0	0		3	19	6.3333	2,369.2	0.0	2,369
	([	6	KANCHAN BAUGH	5	Ũ	0	. 7	0	0	- T	Û	0		0.0	0.0	0

.

				Max					lt(per_	<u> </u>	)			Interrupt	B.D. Outage	Int,+B.D.
Sı	ubstation Name		Name of Feeder	Max Load (A)	<u></u>	Interru		~~~	Ireak c			(1) + (		Outage	FRATON (WWW)	Outage
	<u> </u>				No	<u> </u>	Minste/No	No	Minute	Xian/No	No		Minute/No			
9	MALAKPET	1	DABEERPURA	160	3	47	15.7	0	0		3		15.667	<u>17,049.3</u>		
	8MVAX3	2	MALAKPET (EM)	150	1	65	65	0	0		1	65	65	22,105.1	0.0	22,105.1
		3	AKBERBAUGH	130	3	85	28.3	0	0		3	85	28,333	25,052.4	0.0	25,052.4
		4	AIR	10	1	_107	107	1	2911	2911	2	3018	1509	2,425.9	65,997.8	
		5	CHADERGHAT (EM)	170	7	100	14.3	0	0		7	100	14,286	38,542.2	0.0	38,542.2
		6	AZAMPURA	180	9	_224	24.9	0	0		9	224	24.889	91,413.0	0.0	91,413.0
		7	MM HOSPITAL	10	1	3	3	0	0		1	3	3	68.0	0.0	68.0
		8	KACHIGUDA	150	6	147	24.5	0	0		6	147	24.5	49,991.5	0.0	49,991.5
								_						_		
10	MIRALAM	1	ZOOPARK	180	10	99	9.9	0	0		10	99	9.9	<u>40,</u> 401.3	0.0	40,401.3
	(City-III)	2	INDUSTRIAL	180	7	29	4.14	0	0		7	29	4.1429	<u>11,</u> 834.7	0.0	11,834.7
	8MVAX3	3	TADBAN	170	15	109	7,27	0	0		15	109	7.2667	42,011.0	0.0	42,011.0
		4	FATHE DARWAZA	140	4	23	5.75	0	0	_	4	23	5.75	7,300.3	0.0	7,300.3
		5	SHAMSHER GUNJ	190	3	15	5	0	0		3	15	5	6,461.5	0.0	6,461.5
į		6	WATER WORKS (ETM) (M.F.B)	20	-1	- 4	4	0	Û		1	4	4	_181.4	0.0	
		7	JAHNUMA (EM)	140	5	28	5.6	0	0		5	28	5.6	8,887.4	0.0	8,887.4
11	MOOSARAMBA	1	SBI COLONY	30	1	5	5	0	0		1	5	5	340.1	0.0	340.1
	GH (City-VIII)	2	SRIPURAM CLY	65	2	15	7.5	0	0		2	15	75	2,210.5	0.0	2,210.5
	8MVAX2	3	SALEEM NGR	70	2	10	5	0	0		2	10	5	1,587.0	0.0	1,587.0
2		4	SV NAGAR	70	5	25	5	4	385	96	9	410	45,556	3,967.6	61,100.7	65,068.3
		5	AB COLONY	130	0	0	- 1	0	0	-1	0	- 6		0.0	0.0	0.0
		6	DILSUKH NGR	65	0	0	-	0	0		0	0		0.0	0.0	0.0

			1					Fat	ult(per r	nonth	)			Interrupt		Int,+B,D,
Տո	bstation Name		Name of Feeder	Max Load (A)	(1)	Interru	ption	(2) H	Break d	own		(1) + (	2)	Outage	B.D. Outage	Outage
					No	Minute	Minete/No	No	Minute	Line/A	No	Minute	Minute/No	Energy (kWh)	Energy (kWb)	Energy (kWh
12	OSMANIA	1	BEGUM BAZAR	140	0	0		0	0		0	0		0.0	0.0	0,
	HOSPITAL	2	PURANA PHOOL	130	3	14	4.67	0	. 0		3	14	4.6667	4,126.3	0.0	4,126.
	8MVAX3	3	HIGH COURT	20	1	5	5	0	0		1	5	5	226.7	0.0	226.
		4	PUTHLI BOWLI	80	4	15	3.75	1	43	43	5	58	11.6	2,720.6	7,799.1	10,519.
		5	GOWLIGUDA	10	0	0		1	42	42	1	42	42	0.0	952,2	952.
		6	OSMAN GUNJ	130	2	5	2,5	0	0		2	5	2.5	1,473.7	0.0	1,473.
		7	OSMANIA HOSPITAL	10	1	2	2	0	0		1	2	2	45.3	0.0	45.
		8	GOWLIGUDA TEL EXCHA		7	33	4.71	1	25	25	8	58	7.25	0.0	0.0	0.
13	SALARJUNG	1	SALARJUNG	60	3	110	36.7	1	5	5	4	115	28.75	14,963.4	680.2	15,643.
	8MVAX3	2	MADINA	180	9	32	3.56	0	0		9	32	3.5556	13,059.0	0.0	13,059.
		3	HUSSAINILALAM	130	4	27	6.75	0	0		4	27	6,75	7,957.8	0.0	7,957.
		4	PATHARGATTI	180	1	10	10	0	0		1	10	10	4,080.9	0.0	4,080
		5	YAKUTPURA	190	8	83	10.4	0	0		8	83	10,375	35,753.6	0.0	35,753
		6	PURANIHAVELI	200	ġ	65	7.22	0	0		9	65	7.2222	29,473.4	0.0	29,473
		7	DARULSHAFA	100	0	0		0	0		0	0		0.0	0.0	0.
											-					
14	SANTOSH	1	SANTOSH NAGAR	50	0	0		0	0		0	0		0.0	0.0	0
	NAGAR	2	REIN BAZAR	140	1	10	10	0	- 0		1	10	10	3,174.1	0.0	3,174
	8MVAX3	3	DRYLAND	90	3	40	13.3	0	0		3	40	13,333	8,161.9	0.0	8,161
		4	BHAVANI NAGAR	170	6	53	8.83	0	. 0		6	53	8.8333	20,427.4	0.0	20,427
		5	EDI BAZAR	210	14	135	9.64	0	0		14	135	9.6429	64,274.8	0.0	64,274
		6	RIYASATH NAGAR	100	6	53	8.83	0	0		6	53	8.8333	12,016.1	0.0	12,016
		7	MOINBAGH	110	8	110	13.8	0	0		8	110	13.75	27,433.0	0.0	27,433.

				Max				Fai	lt(per 1	nonth	)			Interrupt	B.D. Outage	Int.+B.D.
Su	ubstation Name		Name of Feeder	Load (A)	(1)	Interru	ption	(2) E	Break d	own		(1) + (		Outage	E.D. Outage	Outage
					No	Minute	Minute/No	No	Minute	34 inne/Ho	No	Minute	Minute/No	Energy (kWh)	Energy (kWh)	Energy (kWh)
15	SEETARAMBA	1	SEETHARAMBAGH	90	4	14	3.5	0	0		4	14	3.5	2,856.7	0.0	2,856.7
	GH	2	DHOOLPET	160	4	50	12,5	1	53	53	5	103	20.6	18,137.5	19,225.8	37,363.3
	8MVAX2,5MVA	3	ASIFNAGAR	70	1	4	4	0	0		1	4	4	634.8	0.0	634.8
		4	AGAPURA	70	4	58	14.5	0	0		4	58	14.5	9,204.8	0.0	9,204.8
		5	ZINCHICHOWRAHA	140	11	76	6.91	0	0		11	76	6.9091	24,122.9	0.0	24,122.9
		6	DATTATREYA	110	2	10	5	0	0		2	10	5	2,493.9	0.0	2,493.9
				_												
16	SULTAN	1	SULTAN BAZAR	165	7	50	7,14	0	0		7	50	7.1429	18,704.3	0.0	18,704.3
	BAZAR	2	KOTI FEEDER	185	2	10	5	0	0		2	10	5	4,194.3	0.0	4,194.3
	8MVAX2	3	KENDRIYA SADAN	140	1	8	8	0	0		1	8	8	2,539.3	0.0	2,539.3
		4	TARAKARAMA	195	8	76	9.5	0	0		8	76	9.5	33,599.7	0.0	33,599.7
		5	IMA UG													
17	CRPF (City-III)	1	JAMAL BANDA	80	0	0		0	0		0	0		0.0	0,0	0.0
	7.5MVAX2	2	BARKAS	50	2	15	7.5	0	0		2	15	7.5	1,700.4	0.0	1,700.4
		3	SALAL	130	6	30	5	0	0		6	30	· 5	8,842.0	0.0	8,842.0
		4	CRPF BAZAR	36	3	36	12	0	0		3	36	12	2,938.3	0.0	2,938.3
	[	5	BALAPUR	125	4	18	4.5	0	0		4	18	4.5	5,101.2	0.0	5,101.2
		6	KESHAVAGIRI	145	7	45	6.43	1	35	35	8	80	10	14,793.4	11,506.0	26,299.4