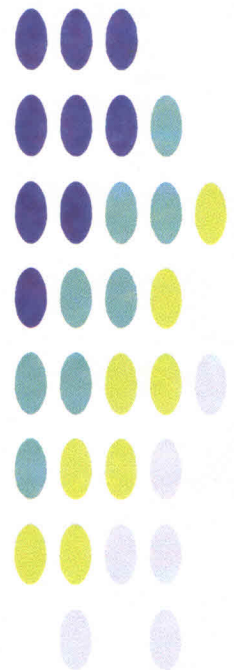


**Power & Electricity Department,
Government of Mizoram**

**ANNUAL REPORT
2004-2005**

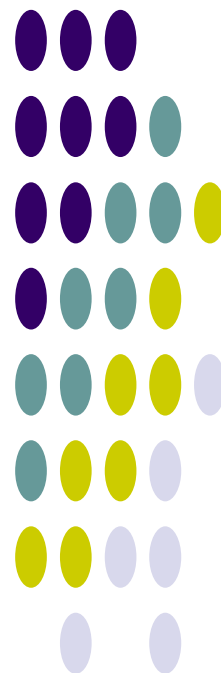


ANNUAL REPORT 2004-05

POWER PROFILE

OF

MIZORAM



SCHEDULED/ACTUAL ENERGY DURING 2004-05

(Based on Regional Energy Accounting of NEREB)

Schedule/ Drawal Energy in MU

Sl.No	Month	NEEPCO							NHPC	TRIPURA	Total		
		Doyang HEP	Ranganadi HEP	Kopili HEP Stage-I	Khandong HEP	Kopili HEP Stage-II	AGBPP	AGTPP	Loktak HEP	Rokhia -II	Scheduled energy	Actual drawal	U.I Energy
1	2	3	5	7	9	11	13	15	17	19	21	25	26
1	Apr'04	0.96	8.39	2.41	1.28		8.48	1.66	2.41	1.64	27.23	12.66	14.57
2	May'04	0.91	11.96	3.78	1.85		6.73	2.91	4.14		32.29	15.12	17.17
3	June'04	0.51	13.93	5.29	1.92		1.05	3.40	3.83		29.93	15.14	14.79
4	July'04	1.30	14.83	5.08	1.87	0.17	1.17	3.14	3.71		31.28	15.96	15.32
5	Aug'04	3.41	15.38	5.82	0.37	1.22	5.89	3.69	4.04		39.82	16.07	23.75
6	Sept'04	2.94	13.8	7.32	0.92	1.28	6.58	3.23	3.75		39.83	15.99	23.84
7	Oct'04	3.28	14.06	6.88	1.01	1.40	3.53	3.88	3.95		37.99	17.36	20.63
8	Nov'04	0.83	6.18	6.02	0.50	0.34	12.35	4.26	4.18		34.57	16.67	17.90
9	Dec'04	0.54	4.36	3.39	0.29	0.42	12.09	4.42	3.39		28.90	20.10	8.80
10	Jan'05	0.30	3.39	2.81	0.18	0.29	12.13	4.55	3.08		26.73	20.01	6.72
11	Feb'05	0.26	4.31	2.19	0.25	0.10	10.57	4.05	2.70		24.43	16.41	8.02
12	Mar'05	0.22	6.51	2.31	0.26	0.21	11.47	4.35	1.64		26.97	17.16	9.81
	TOTAL	15.46	117.10	53.30	10.70	5.43	92.04	43.54	40.82	1.64	379.97	198.66	181.32
	Av.Rate (Rs/Unit)	2.47	1.57	0.72	0.90	0.40	2.59	1.78	0.89	1.29			

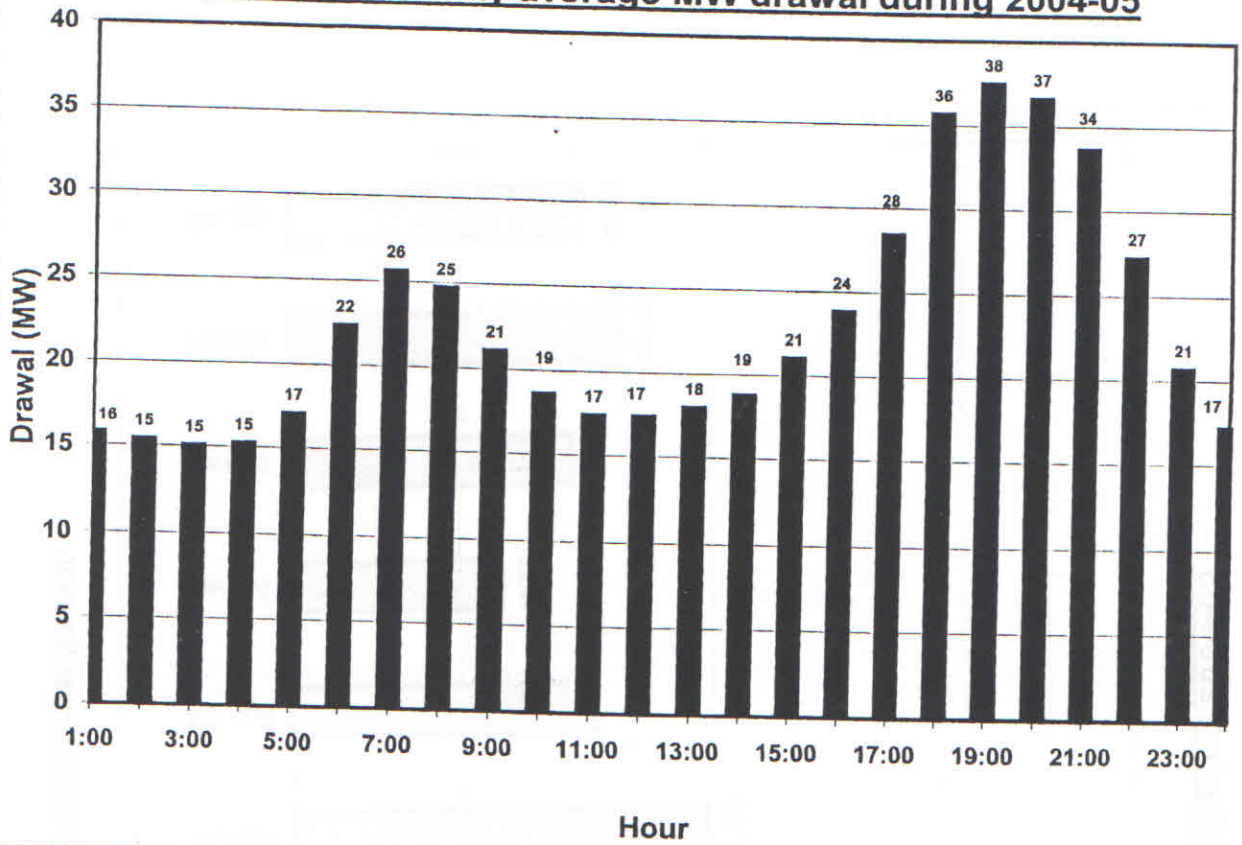
Average Monthly Drawal during 2004-05

Figure in MW

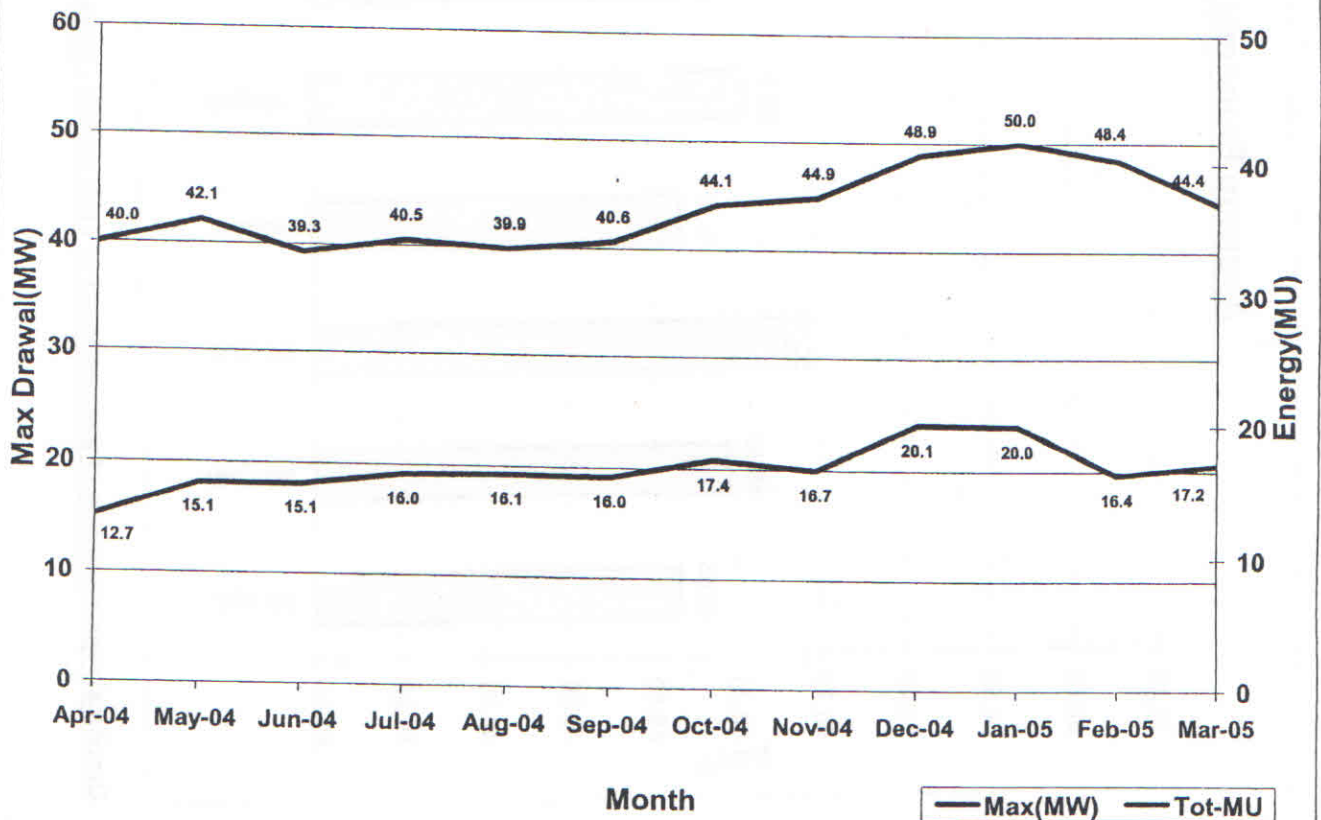
Hour	Apr, 04	May, 04	Jun, 04	Jul, 04	Aug, 04	Sep, 04	Oct, 04	Nov, 04	Dec, 04	Jan, 05	Feb, 05	Mar, 05
0:00	14	16	18	16	16	16	18	17	20	19	19	17
1:00	12	15	16	15	15	15	16	15	18	18	17	16
2:00	13	14	16	14	14	15	16	15	18	18	17	15
3:00	12	14	14	13	14	14	16	15	18	18	17	15
4:00	12	14	14	13	14	15	16	16	18	18	17	15
5:00	13	17	16	15	17	16	18	18	20	20	18	17
6:00	18	20	20	21	22	23	25	24	27	24	24	21
7:00	19	22	23	24	26	27	28	25	31	31	26	24
8:00	18	21	23	25	24	27	27	24	30	30	24	23
9:00	16	18	19	21	20	22	21	21	25	27	22	21
10:00	14	17	17	19	18	19	19	18	22	23	20	18
11:00	14	15	17	17	16	18	18	16	21	21	19	18
12:00	14	16	17	17	17	17	18	15	21	21	18	19
13:00	14	16	17	17	18	18	18	16	21	22	19	19
14:00	15	16	17	18	19	19	19	17	22	22	20	20
15:00	16	18	19	20	21	22	23	19	25	25	22	23
16:00	18	20	22	24	24	24	25	22	29	28	25	25
17:00	20	21	24	26	26	28	28	35	40	36	28	28
18:00	28	27	27	30	32	34	38	41	44	46	42	38
19:00	29	36	34	36	35	33	38	41	43	44	43	39
20:00	29	35	34	36	34	33	36	40	41	42	42	39
21:00	26	32	31	33	32	31	33	36	38	39	38	35
22:00	23	26	27	27	25	26	26	28	32	30	29	28
23:00	17	20	21	20	20	20	20	21	24	23	22	20
Tot-MU	12.7	15.1	15.1	16.0	16.1	16.0	17.4	16.7	20.1	20.0	16.4	17.2
Max (MW)	40	42	39	41	40	41	44	45	49	50	48	44

Total drawal for the period of April 04 to March 05: 198.662 MU

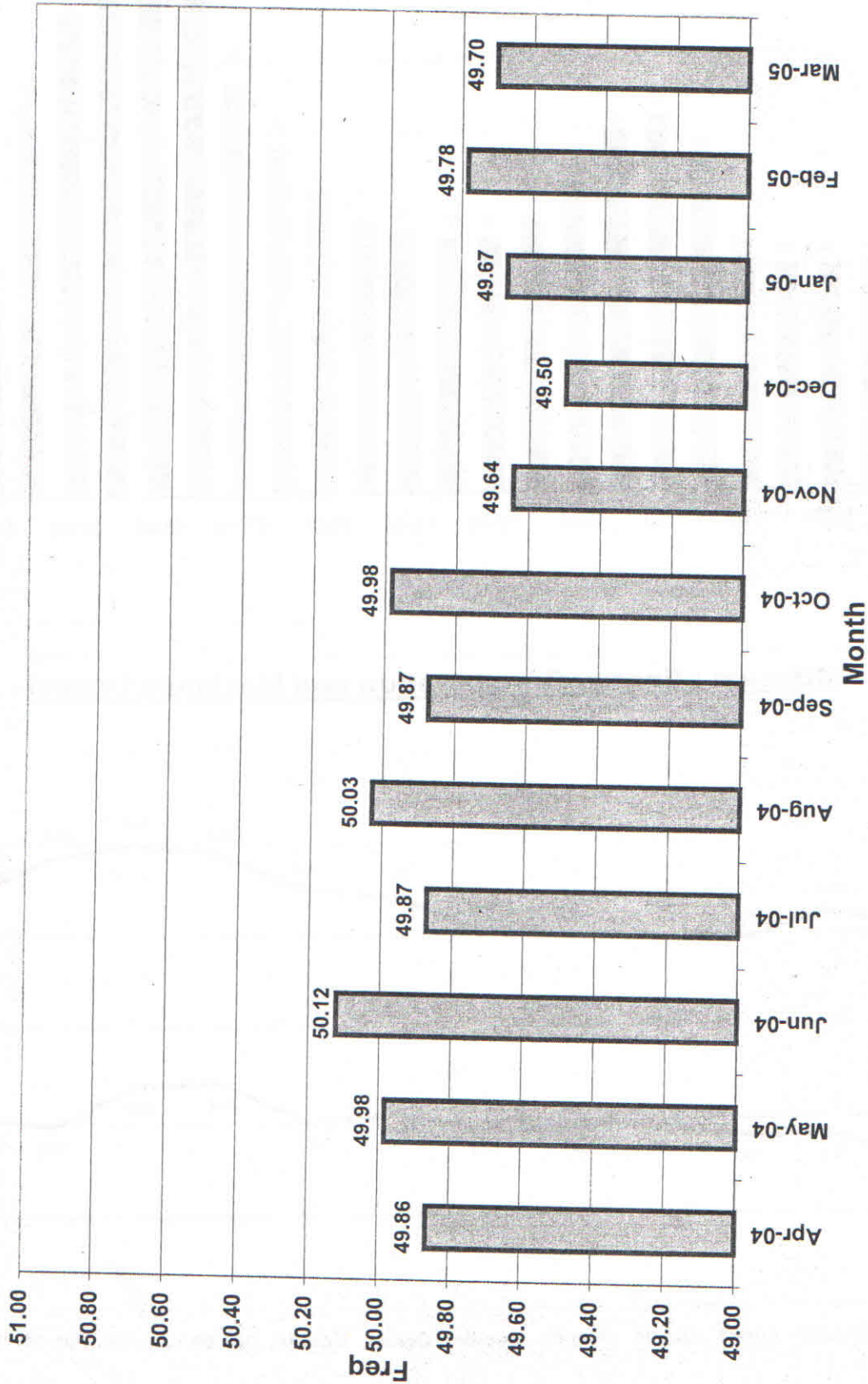
Mizoram : Hourly average MW drawal during 2004-05



Mizoram : Energy Consumption and Maximum Drawal



Average Frequency Trend during 2004-05



Graphical representation of average value of each month - shows trend of frequency over the year.

CIRCLE-WISE ENERGY INPUT FOR 2004-2005

Energy in MU

S/N	Name of Circle	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Total
1	Aizawl Power Circle	8.1550	8.3290	9.5390	8.9069	9.0155	9.6619	9.3146	9.5540	10.1024	10.8291	9.9772	8.6174	112.0020
2	Champhai Power Circle	1.0679	0.9190	0.9508	0.9901	1.0740	1.0520	1.0960	1.0552	1.1605	1.0823	1.1357	1.1764	12.7599
3	Lunglei Power Circle	3.1293	2.7185	2.5180	2.7715	3.0002	3.0451	2.2162	3.0928	2.2445	2.6903	2.5341	2.1815	32.1420
4	Project Circle-I	1.4871	1.2855	1.9671	1.5279	1.4810	1.7518	1.6550	1.8509	1.3677	1.4246	1.4175	1.4366	18.6527
5	Transmission Circle	1.3495	1.3747	1.3880	1.4740	2.1314	1.5486	1.5830	1.6071	1.7231	2.1799	1.7676	1.8569	19.9838
	(A) Total P&E Deptt (based on Circle's figure)	15.1888	14.6267	16.3629	15.6704	16.7021	17.0594	15.8648	17.1600	16.5982	18.2062	16.8321	15.2688	195.5403
	Actual drawal fr CPSU	12.66	15.12	15.14	15.96	16.07	15.99	17.36	16.67	20.10	20.01	16.41	17.16	198.6500
	Generation(Hydel)	0.06	0.26	0.78	1.21	0.05	0.22	0.95	0.76	0.17	0.11	0.06	0.01	4.64
	Generation(Diesel/Thermal)	0.14	0.1	0.03	0.01				0.24	0.02	0.01	0.04	0.07	0.67
	(B) Total energy	12.86	15.48	15.95	17.18	16.12	16.21	18.31	17.67	20.29	20.13	16.51	17.24	203.96
	Difference (B-A)	-2.33	0.85	-0.41	1.51	-0.58	-0.85	2.45	0.51	3.69	1.92	-0.32	1.97	8.42
	% Difference	-18.11	5.51	-2.59	8.79	-3.61	-5.24	13.35	2.89	18.20	9.56	-1.95	11.43	4.13

DIESEL/THERMAL GENERATION DURING 2004-2005

Sl. No	Name of Power House	Installed Capacity (kW)	Derated Capacity (kW)	Apr-04		May-04		Jun-04		Jul-04		Aug-04		Sep-04		Oct-04	
				Gross Gen (kWh)	Aux. Consump tion(kWh)	Gross Gen (kWh)	Aux. Consump tion (kWh)	Gross Gen (kWh)	Aux. Consump tion (kWh)	Gross Gen (kWh)	Aux. Consump tion (kWh)	Gross Gen (kWh)	Aux. Consump tion (kWh)	Gross Gen (kWh)	Aux. Consump tion (kWh)	Gross Gen (kWh)	Aux. Consump tion (kWh)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Luangmual	4320	2650	12249	812	9451	743	6069	649	6274	660						
2	Zuangtui	5100	4480	8057	202	8057	200	2362	60	0	0						
3	Lengpui	500	500	3900	70	1385	20	450	25	900	45	1325	105	1425	75	1325	70
Aizawl Power Circle		9920	7630	24206	1084	18893	963	8881	734	7174	705	1325	105	1425	75	1325	70
4	Biate	500		0	0	0	0	0	0	0	0						
5	Champhai (New)	1500	1500	0	0	0	0	0	0	0	0						
6	Champhai (Old)	1000	910	0	0	0	0	0	0	0	0						
7	Khawzawl	750		7613	228	0	0	0	0	0	0						
Champhai Power Circle		3750	2410	7613	228	0	0	0	0	0	0	0	0	0	0	0	0
8	Zawlnuam	806	370	1239	495	0	0	0	0					3540	200	3540	200
9	Darlawn	1100		0	0	0	0	0	0	0	0						
10	Saitual	750	500	0	0	0	0	0	0	0	0						
11	W.Phaileng	556		0	0	0	0	0	0								
12	Serchhip	750	615	0	0	0	0										
13	Buarpui	350		0	0	0	0										
Transmission Circle		4312	1485	1239	495	0	0	0	0	0	0	0	0	3540	200	3540	200
14	Lunglei	1748	1580	0	0	0	0	0	0								
15	Tawipui 'N'	56		0	0	0	0	0	0	0	0						
16	Chawngte	250	240	0	0	0	0			0	0						
17	Lungsen	200	90	1498	100	0	0			0	0						
18	Mualthum	350	330	0	0	0	0			0	0						
19	Hnahthial	1000		0	0	0	0			0	0						
20	Tlabung	400	90	400	8	0	0			0	0						
21	Lawngtlai	1000	940	0	0	0	0			0	0						1400
22	Saiha	1250	190	0	0	0	0			0	0						1500
23	Tuipang	296	140	0	0	0	0			0	0						1050
Lunglei Power Circle		6550	3600	1898	108	0	0	0	0	0	0	0	0	0	0	0	3950
24	Kolasib	1316		0	0	0	0	0	0								
25	Bairabi(Thermal)	22920	22920	109000		80000		20000		1500		1300					
Project Circle - I		24236	22920	109000	0	80000	0	20000	0	1500	0	1300	0	0	0	0	0
GRAND TOTAL		48768	38045	143956	1915	98893	963	28881	734	8674	705	2625	105	4965	275	4865	4220
Net Generation/month(MU)				0.14		0.10		0.03		0.01		0.00		0.00		0.00	

DIESEL/THERMAL GENERATION DURING 2004-2005

Sl. No	Name of Power House	Nov-04		Dec-04		Jan-05		Feb-05		Mar-05		Total Gross Gen (kWh)	Total Aux Consumption (kWh)	Total Net Gen (kWh)
		Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)			
1	2	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Luangmual										581	34043	3445	30598
2	Zuangtui										334	18476	796	17680
3	Lengpui	2515	150	2050	132	110	10	2700		1260	15	19345	717	18628
Aizawl Power Circle		2515	150	2050	132	110	10	2700	0	1260	930	71864	4958	66906
4	Biate							0	0		0	0	0	0
5	Champhai (New)							0	0		0	0	0	0
6	Champhai (Old)							0	0		0	0	0	0
7	Khawzawl					1587	47	2686	81		76	11886	432	11454
Champhai Power Circle		0	0	0	0	1587	47	2686	81	0	76	11886	432	11454
8	Zawlnuam	2301	135			2832	160	0	0		0	13452	1190	12262
9	Darlawn							0	0		0	0	0	0
10	Saitual							0	0		0	0	0	0
11	W.Phaileng							0	0		0	0	0	0
12	Serchhip										0	0	0	0
13	Buarpui										0	0	0	0
Transmission Circle		2301	135	0	0	2832	160	0	0	0	0	13452	1190	12262
14	Lunglei					0	0	0	0		0	0	0	0
15	Tawipui 'N'					0	0	0	0		0	0	0	0
16	Chawngte							0	0		0	0	0	0
17	Lungsen					1486	100	1485	100		0	4469	300	4169
18	Mualthuam							0	0		0	0	0	0
19	Hnahtial							0	0		0	0	0	0
20	Tlabung					585	30	0	0		0	985	38	947
21	Lawngtlai										0	0	1400	-1400
22	Saiha										0	0	1500	-1500
23	Tuipang										0	0	1050	-1050
Lunglei Power Circle		0	0	0	0	2071	130	1485	100	0	0	5454	4288	1166
24	Kolasib										0	0	0	0
25	Bairabi(Thermal)	240000		18000				34000		73000		576800	0	576800
Project Circle - I		240000	0	18000	0	0	0	34000	0	73000	0	576800	0	576800
GRAND TOTAL		244816	285	20050	132	6600	347	40871	181	74260	1006	679456	10868	668588
		0.24		0.02		0.01		0.04		0.07				0.67

HYDEL GENERATION DURING 2004-2005

Sl. No	Name of Power House	Installed Capacity (kW)	Derated Capacity (kW)	Apr-04		May-04		Jun-04		Jul-04		Aug-04		Sep-04		Oct-04	
				Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	Serlui A	1X500	420	5630	168	23334	283	32220	312	33756	325	33778	5363	33769	3236	33778	308
2	Tuirivang	3x100				0	0	0	0	0	0	0	0	0	0	0	0
Aizawl Power Circle		800	420	5630	168	23334	283	32220	312	33756	325	33778	5363	33769	3236	33778	308
3	Tuipui	2x250		0	0	0	0	0	0	0		0	0	0	0	0	0
Champhai Power Circle		500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	Teirei SHP	3x1000	1000	15461	761	128039	886	700570	17446	975793	19916	0	15779			482595	13156
Transmission Circle		3000	1000	15461	761	128039	886	700570	17446	975793	19916	0	15779	0	0	482595	13156
5	Ramrilui	2x150	150	0	0	0	0			0							
6	Khawiva	3x350	750	0	0	12615	50	67883	140	184929	100	11480	115	47970	440	103990	165
Lunglei Power Circle		1350	900	0	0	12615	50	67883	140	184929	100	11480	115	47970	440	103990	165
7	Maicham	2x1000	1000	37100	1850	102220	1950			30000	1920	24480	1245	141890	9400	343140	6500
8	Vawralui	1X50		0	0							0	0	0	0	0	0
9	Leiva MHP	1X50		0	0					3620	30.3	6884	30.3	6270	30.3	5974	30.3
Project Circle - I		2100	1000	37100	1850	102220	1950	0	0	33620	1950.3	31364	1275.3	148160	9430.3	349114	6530.3
GRAND TOTAL		7750	3320	58191	2779	266208	3169	800673	17898	1228098	22291.3	76622	22532.3	229899	13106.3	969477	20159.3
Net Generation/month (MU)					0.06		0.26		0.78		1.21		0.05		0.22		0.95

HYDEL GENERATION DURING 2004-2005

Sl. No	Name of Power House	Nov-04		Dec-04		Jan-05		Feb-05		Mar-05		Total Gross Gen (kWh)	Total Aux Consumption (kWh)	Total Net Gen (kWh)
		Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)	Gross Gen (kWh)	Aux. Consumption (kWh)			
1	2	19	20	21	22	23	24	25	26	27	28	29	30	31
1	Serlui A	217965	242	10808	125	2700	30	2150		2580	0	432468	10392	422076
2	Tuirivang	0	0	0	0			0	0	0	0	0	0	0
Aizawl Power Circle		217965	242	10808	125	2700	30	2150	0	2580	0	432468	10392	422076
3	Tuipui	0	0	0	0			0	0	0	0	0	0	0
Champhai Power Circle		0	0	0	0	0	0	0	0	0	0	0	0	0
4	Teirei SHP	479606	10818	133924	10430	70984	8102	63638	9710	880	25	3051490	107029	2944461
Transmission Circle		479606	10818	133924	10430	70984	8102	63638	9710	880	25	3051490	107029	2944461
5	Ramrilui						60	3520	60	0	0	3520	120	3400
6	Khawiva	12080	135	2775	28	7120	100	0	0	1995	0	452837	1273	451564
Lunglei Power Circle		12080	135	2775	28	7120	160	3520	60	1995	0	456357	1393	454964
7	Maicham	68300	8500	41000	3010	36260		4200		0	0	828590	34375	794215
8	Vawralui	0	0	0	0					0	0	0	0	0
9	Leiva MHP	6239	30.3	0	0					0	0	28987	151.5	28835.5
Project Circle - I		74539	8530.3	41000	3010	36260	0	4200	0	0	0	857577	34526.5	823050.5
GRAND TOTAL		784190	19725.3	188507	13593	117064	8292	73508	9770	5455	25	4797892	153340.5	4644551.5
		0.76		0.17		0.11		0.06		0.01				4.64

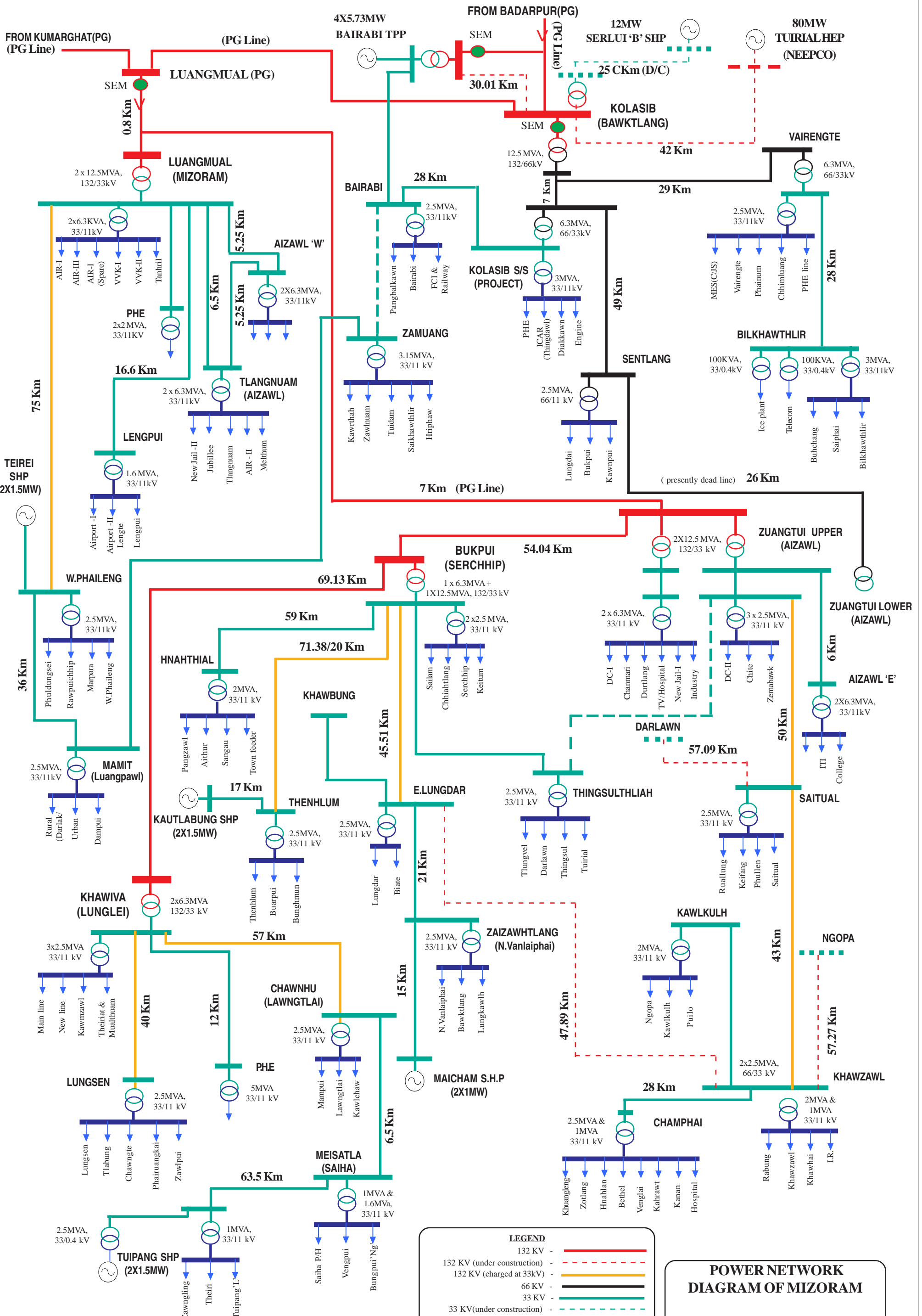
BILL AMOUNT FOR SCHEDULED ENERGY/TRANSMISSION CHARGES DURING 2004-05

Bill amount Rs in lakhs

Sl.No	Month	NEEPCO							NHPC	TRIPURA	PGCI	TOTAL
		Doyang HEP	Ranganadi HEP	Kopili HEP Stage-I	Khandong HEP	KopiliHEP Stage-II	AGBPP	AGTPP	Loktak HEP	Rokhia -II	Trans. charge	
1	2	3	4	5	6	7	8	9	10	11	12	13
1	Apr'04	18.96	138.71	15.33	6.85		206.98	48.30	24.03	21.15	90.29	570.60
2	May'04	22.64	170.14	32.28	15.11		182.39	58.77	31.66		114.61	627.60
3	June'04	34.00	169.04	48.15	15.05		134.56	62.86	29.97		106.74	600.37
4	July'04	25.17	289.33	43.07	14.12	0.68	165.22	60.66	39.80		99.70	737.75
5	Aug'04	92.46	271.05	33.65	6.92	4.93	188.69	65.26	40.79		141.86	845.61
6	Sept'04	57.79	201.23	39.36	10.80	5.20	194.12	61.45	38.45		139.39	747.79
7	Oct'04	42.36	160.53	53.38	10.53	5.68	194.64	66.91	40.42		133.07	707.52
8	Nov'04	18.00	99.61	30.53	2.39	1.38	225.69	70.00	31.59		120.99	600.18
9	Dec'04	18.75	83.21	24.09	2.47	1.68	224.78	71.41	24.39		101.16	551.94
10	Jan'05	16.31	81.61	22.05	1.97	1.17	226.47	72.48	22.21		93.56	537.83
11	Feb'05	16.35	71.58	18.77	5.06	0.40	217.67	68.27	21.75		85.52	505.37
12	Mar'05	19.33	106.42	21.59	4.59	0.46	219.89	70.78	16.32		94.39	553.77
	TOTAL	382.12	1842.46	382.25	95.86	21.58	2381.10	777.15	361.38	21.15	1321.28	7586.33
	Total energy (MU)	15.46	117.10	53.30	10.70	5.43	92.04	43.54	40.82	1.64		
	Monthly Average energy (MU)	1.29	9.76	4.44	0.89	0.45	7.67	3.63	3.40	0.14		
	Av.Rate(Rs/Unit)	2.47	1.57	0.72	0.90	0.40	2.59	1.78	0.89	1.29		

Total energy from CPSU (MU)	378.39	Cost (Rs lakh)	6243.90	Average energy cost/unit(Rs)	1.65
Total energy from Tripura (MU)	1.64	Cost (Rs lakh)	21.15	Average energy cost/unit(Rs)	1.29
Grand Total	380.03	Total (Rs lakh)	6265.05	Net Average energy cost/unit(Rs)	1.65
		Transmission charge (Rs lakh)	1321.28	Net Average Import cost/unit(Rs)	2.00
		NERLDC charge (Rs lakh)	25.88	(including transmission charge & NERLDC charge)	
		Grand Total (Rs lakh)	7612.21		

Note: Costs are only monthly billed amount excluding surcharge



Prepared by F. Rualzakhuma, SE(Planning)
Updated on 13.12.2005

LEGEND

- 132 KV - (Red solid line)
- 132 KV (under construction) - (Red dashed line)
- 132 KV (charged at 33kV) - (Red dotted line)
- 66 KV - (Black solid line)
- 33 KV - (Green solid line)
- 33 KV (under construction) - (Green dashed line)
- 33 KV (tie line) - (Green dotted line)
- 11 KV - (Blue solid line)

**POWER NETWORK
DIAGRAM OF MIZORAM**

STATE LOAD DESPATCH CENTRE
POWER & ELECTRICITY DEPARTMENT, MIZORAM.

Brief Note on Availability Based Tariff (ABT) in India

Availability Based Tariff (ABT) has been implemented in a phased manner in all Electrical Regions of our Country which, as expected, has proved to be a comprehensive solution to the eternal problems faced by Indian Power Sector. North Eastern Region was the last to embrace ABT in November, 2003 by successfully overcoming all constraints and roadblocks.

ABT implementation calendar in India:

<i>Western Region:</i>	<i>01.07.2002.</i>	<i>Northern Region:</i>	<i>01.12.2002.</i>
<i>Southern Region:</i>	<i>01.01.2003.</i>	<i>Eastern Region:</i>	<i>01. 04.2003.</i>
<i>NE Region:</i>	<i>01.11.2003.</i>		

With the implementation of ABT in all other Regions of the Country, for NER in particular, it was a great challenge to embrace ABT mechanism, especially when single-part tariff structure was in practice in the Region creating a lot of confusion and chaos in Power system operation. Any change is normally resisted for fear of its unseen devil which was more prominent in instant case when a frog leaping from single part tariff to ABT was need of the hour.

How ABT was made a reality in NER:

ABT could not be implemented in NER prior to Nov. 2003 mainly due to lack of proper communication facilities in NER in the absence of any SCADA based system integrating NERLDC with various States/Generating Stations of the Region. Subsequent to commissioning of Unified Load Despatch & Communication (ULDC) scheme in NER by POWERGRID in May 2003, communication was no longer a bottleneck and real time data of all the Constituents (generation as well as drawal) was made available in RLDC/SLDC(s).

NERLDC under directions and guidance of CTU, POWERGRID took initiative in implementing ABT in NER and held Region-wide educational programmes to enable build capacity amongst SEB/Power Deptt personnel to take up the imposing challenges of ABT-mechanism. As desired by NERE Board, a regional Seminar was organized on 23rd and 24th June '03 at Guwahati which was inaugurated by Hon'ble Chief Minister of Assam. It was attended by over 150 practicing engineers & Senior Officials from various agencies across the Power Sector.

In line with decisions taken in the Seminar, NERLDC in second phase organized familiarization programmes for all Constituents of NE Region. A team of NERLDC visited each NER State and made detailed presentation on ABT and various doubts/queries were clarified. The programmes were attended by large no. of participants right from Chief Engineer up to the level of SLDC shift in charges. In organizing these programmes, structured inputs were provided by CTU-POWERGRID.

On completion of familiarization of all NER Constituents, NERLDC Filed petition to CERC for ABT implementation in NER. CERC directed ABT implementation wef 1st. Nov. 2003. Finally, to ensure readiness of ground for ABT as well as smooth ABT implementation without any hic-ups as desired by CERC in its final order, NERLDC organized detailed presentation to TCC members of NER on 16.10.2003 and an interactive session with all NER Constituents on 28.10.2003 just before start-off of ABT.

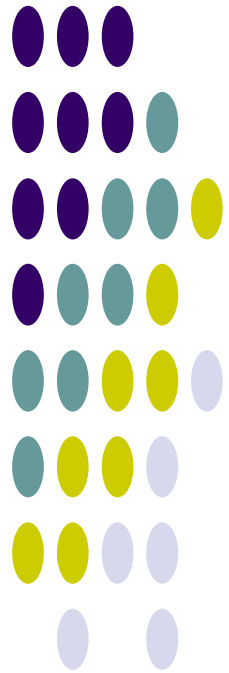
The ABT take-off was in the midnight of 31st October 2003 and successful completion of first financial ABT year 2004-05 in NER on 31st March 2005.

ANNUAL REPORT 2004-05

POWER PROFILE

OF

NER



ALLOCATION OF CENTRAL SECTOR POWER IN NE REGION

(PERIOD: 22/12/2004 onwards)

Name of Station	Loktak NHPC		Khandong NEEPCO		Kopili NEEPCO		Kopili Extn NEEPCO		AGTPP NEEPCO		AGBPP NEEPCO		Doyang NEEPCO		Ranganadi NEEPCO		NER TOTAL		
Location of the Projects	Manipur		Assam		Assam		Assam		Tripura		Assam		Nagaland		Arunachal Pradesh				
Installed Capacity	105 MW		50 MW		200 MW		25 MW		84 MW		291 MW		75 MW		405 MW		1235 MW		
Constituent	% Share	MW Share	% Share	MW Share	% Share	MW Share	% Share	MW Share	% Share	MW Share	% Share	MW Share	% Share	MW Share	% Share	MW Share	% Share	MW Share	% Share
Arunachal Pradesh	4.76	5	4	2	5	10	6	1.5	6	5.04	5.5	16.01	6.7	5.03	18.27	73.99	118.56	9.6	
Assam	25.97	27.27	52.67	26.34	49.83	99.66	44	12	41.8	35.11	52.85	153.79	40.22	30.17	39.76	161.03	545.36	44.08	
Manipur	31.09	32.64	7.58	3.79	8.42	16.84	8.25	2.06	9.1	7.64	9.15	26.63	8.89	6.67	9.39	38.03	134.3	10.87	
Meghalaya	10.57	11.1	15	7.5	15.5	31	16	3	9.8	8.23	9.9	28.81	9.62	7.22	9.62	38.96	135.82	11.08	
Mizoram	6.71	7.05	5.67	2.84	6.33	12.66	8	2	7.8	6.55	7.15	20.81	6.92	5.19	7.41	30.01	87.1	7.05	
Nagaland	6.52	6.85	6.75	3.38	6.25	12.5	5.75	1.44	5.7	4.79	5.9	17.17	18.03	13.52	5.43	21.99	81.63	6.61	
Tripura	14.38	15.1	8.33	4.17	8.67	17.34	12	3	19.8	16.63	9.55	27.79	9.62	7.22	10.12	40.99	132.23	10.71	
TOTAL	100	105	100	50	100	200	100	25	100	84	100	291	100	75	100	405	1235	100	

Schedule vs Actual energy drawal by NER States during 2004-05

Figure in MU

Month	Assam		Ar. Pradesh		Manipur		Meghalaya		Mizoram		Nagaland		Tripura	
	Sched	Actual	Sched	Actual	Sched	Actual	Sched	Actual	Sched	Actual	Sched	Actual	Sched	Actual
April'04	162.40	165.43	33.93	10.88	43.43	28.28	33.77	40.13	25.59	12.67	25.81	20.44	38.69	7.98
May'04	221.66	202.78	44.09	11.42	59.37	39.67	47.57	46.43	32.29	15.12	33.40	25.65	45.88	11.45
June'04	241.97	237.10	47.02	12.26	55.33	41.72	55.82	45.39	29.93	15.14	30.82	25.70	48.68	15.52
July'04	262.79	234.64	33.24	12.95	58.82	44.25	47.41	28.35	31.28	15.96	35.57	26.66	45.82	11.63
Aug'04	278.15	248.54	59.99	13.24	66.77	45.80	63.46	32.56	39.82	16.07	39.75	26.71	49.62	12.99
Sept'04	286.87	242.26	58.70	12.77	66.41	46.73	69.10	43.78	39.83	15.98	40.82	25.94	59.56	12.48
Oct'04	287.03	233.05	56.51	13.09	67.72	50.25	66.13	37.45	37.99	17.36	40.27	26.85	63.57	11.44
Nov'04	218.59	209.23	37.14	13.22	56.15	47.27	54.71	55.69	34.57	16.67	30.16	26.10	53.74	2.03
Dec'04	184.43	200.83	29.57	15.91	47.88	48.23	43.96	65.54	28.90	20.10	25.11	25.40	47.05	0.17
Jan'05	171.28	193.25	26.22	19.85	44.06	47.18	40.12	66.69	26.73	20.01	22.79	25.13	43.95	-1.44
Feb'05	155.05	172.96	26.02	19.53	39.91	31.95	36.17	64.67	24.43	16.41	20.68	22.70	39.95	-5.14
Mar'05	172.38	180.35	31.76	19.53	39.50	32.77	39.45	64.74	26.97	17.16	22.32	26.95	42.93	-1.44
Total	2642.60	2520.42	484.20	172.80	645.37	504.12	597.67	591.42	378.33	198.66	367.48	304.23	579.42	77.67

NE Region

Month	April'04	May'04	June'04	July'04	Aug'04	Sept'04	Oct'04	Nov'04	Dec'04	Jan'05	Feb'05	Mar'05	Total
Sched	363.62	484.26	509.56	514.92	597.54	621.29	619.23	485.06	406.89	375.15	342.21	375.32	5695.07
Actual	285.81	352.51	392.84	374.44	395.9	399.95	389.49	370.22	376.18	370.68	321.23	340.07	4369.33

*** Schedule figures as per monthly REA issued by NEREB Secretariat & Actual figures are energy consumption by states metered by SEM.

Energy Balance Sheet of NER : 2004-2005

All Figures in MU

<u>Drawal</u>		<u>Injection</u>	
Constituent	Drawal	ISGS	Injection
Ar. Pradesh	172.801	Loktak	617.516
Assam	2520.419	Khandong	192.209
Manipur	504.119	Kopili	852.044
Meghalaya	591.422	Kopili-II	68.818
Mizoram	198.662	Doyang	246.227
Nagaland	304.231	Ranganadi	1646.264
Tripura	77.672	Kathalguri	1573.227
Total (States)	4369.326	R C Nagar	569.846
Exp. To ER	1130.246		
Trans. Loss	266.577		
5766.149		5766.149	

UI Balance Sheet in NER : 2004-2005

Period : 5th. April, 2004 to 27th. March, 2005

Week-24 to Week-74 of ABT in NER

Figures in Crores of Rupees

Constituent	Payable	Receivable	Net
Ar. Pradesh	0.431	25.018	24.587
Assam	7.228	33.180	25.952
Manipur	2.008	26.156	24.149
Meghalaya	13.992	18.900	4.908
Mizoram	0.000	28.284	28.284
Nagaland	3.121	13.424	10.303
Tripura	0.000	55.575	55.575
Loktak	0.000	1.255	1.255
NEEPCo	0.856	12.669	11.813
ER	191.786	4.961	-186.825
TOTAL	219.423	219.423	0.000

All figures as per weekly UI Accounting issued by NEREB Secretariat.

Net Payment : (+) receivable from pool / (-) payable to pool

UI RATE (EFFECTIVE FROM 1.10.2004)

<i>Average frequency of time block (Hz)</i>		<i>UI Rate</i>	<i>Average frequency of time block (Hz)</i>		<i>UI Rate</i>
<i>Below</i>	<i>Not below</i>	<i>Paise per kWh</i>	<i>Below</i>	<i>Not below</i>	<i>Paise per kWh</i>
.....	50.50	0.00	49.76	49.74	237.00
50.50	50.48	6.00	49.74	49.72	246.00
50.48	50.46	12.00	49.72	49.70	255.00
50.46	50.44	18.00	49.70	49.68	264.00
50.44	50.42	24.00	49.68	49.66	273.00
50.42	50.40	30.00	49.66	49.64	282.00
50.40	50.38	36.00	49.64	49.62	291.00
50.38	50.36	42.00	49.62	49.60	300.00
50.36	50.34	48.00	49.60	49.58	309.00
50.34	50.32	54.00	49.58	49.56	318.00
50.32	50.30	60.00	49.56	49.54	327.00
50.30	50.28	66.00	49.54	49.52	336.00
50.28	50.26	72.00	49.52	49.50	345.00
50.26	50.24	78.00	49.50	49.48	354.00
50.24	50.22	84.00	49.48	49.46	363.00
50.22	50.20	90.00	49.46	49.44	372.00
50.20	50.18	96.00	49.44	49.42	381.00
50.18	50.16	102.00	49.42	49.40	390.00
50.16	50.14	108.00	49.40	49.38	399.00
50.14	50.12	114.00	49.38	49.36	408.00
50.12	50.10	120.00	49.36	49.34	417.00
50.10	50.08	126.00	49.34	49.32	426.00
50.08	50.06	132.00	49.32	49.30	435.00
50.06	50.04	138.00	49.30	49.28	444.00
50.04	50.02	144.00	49.28	49.26	453.00
50.02	50.00	150.00	49.26	49.24	462.00
50.00	49.98	156.00	49.24	49.22	471.00
49.98	49.96	162.00	49.22	49.20	480.00
49.96	49.94	168.00	49.20	49.18	489.00
49.94	49.92	174.00	49.18	49.16	498.00
49.92	49.90	180.00	49.16	49.14	507.00
49.90	49.88	186.00	49.14	49.12	516.00
49.88	49.86	192.00	49.12	49.10	525.00
49.86	49.84	198.00	49.10	49.08	534.00
49.84	49.82	204.00	49.08	49.06	543.00
49.82	49.80	210.00	49.06	49.04	552.00
49.80	49.78	219.00	49.04	49.02	561.00
49.78	49.76	228.00	49.02		570.00

ACTUAL METERED TRANSMISSION LOSS IN NER

Sl. No.	WEEK		% loss
	From	To	
1	05-04-2004	11-04-2004	4.77
2	12-04-2004	18-04-2004	5.27
3	19-04-2004	25-04-2004	3.93
4	26-04-2004	02-05-2004	3.76
5	03-05-2004	09-05-2004	3.95
6	10-05-2004	16-05-2004	5.35
7	17-05-2004	23-05-2004	4.39
8	24-05-2004	30-05-2004	3.76
9	31-05-2004	06-06-2004	3.63
10	07-06-2004	13-06-2004	3.16
11	14-06-2004	20-06-2004	3.79
12	21-06-2004	27-06-2004	4.83
13	28-06-2004	04-07-2004	3.99
14	05-07-2004	11-07-2004	5.44
15	12-07-2004	18-07-2004	4.21
16	19-07-2004	25-07-2004	4.54
17	26-07-2004	01-08-2004	4.80
18	02-08-2004	08-08-2004	5.03
19	09-08-2004	15-08-2004	4.45
20	16-08-2004	22-08-2004	3.99
21	23-08-2004	29-08-2004	4.18
22	30-08-2004	05-09-2004	4.54
23	06-09-2004	12-09-2004	4.38
24	13-09-2004	19-09-2004	4.04
25	20-09-2004	26-09-2004	3.95
26	27-09-2004	03-10-2004	3.67
27	04-10-2004	10-10-2004	4.70
28	11-10-2004	17-10-2004	4.13
29	18-10-2004	24-10-2004	4.05
30	25-10-2004	31-10-2004	4.30
31	01-11-2004	07-11-2004	4.63
32	08-11-2004	14-11-2004	4.79
33	15-11-2004	21-11-2004	4.90
34	22-11-2004	28-11-2004	3.76
35	29-11-2004	05-12-2004	4.29
36	06-12-2004	12-12-2004	4.48
37	13-12-2004	19-12-2004	5.93
38	20-12-2004	26-12-2004	5.81
39	27-12-2004	02-01-2005	5.88
40	03-01-2005	09-01-2005	6.42
41	10-01-2005	16-01-2005	4.92
42	17-01-2005	23-01-2005	4.76
43	24-01-2005	30-01-2005	4.78
44	31-01-2005	06-02-2005	4.21
45	07-02-2005	13-02-2005	4.41
46	14-02-2005	20-02-2005	5.20
47	21-02-2005	27-02-2005	5.46
48	28-02-2005	06-03-2005	5.10
49	07-03-2005	13-03-2005	5.25
50	14-03-2005	20-03-2005	5.12
51	21-03-2005	27-03-2005	5.10
52	28-03-2005	03-04-2005	4.70

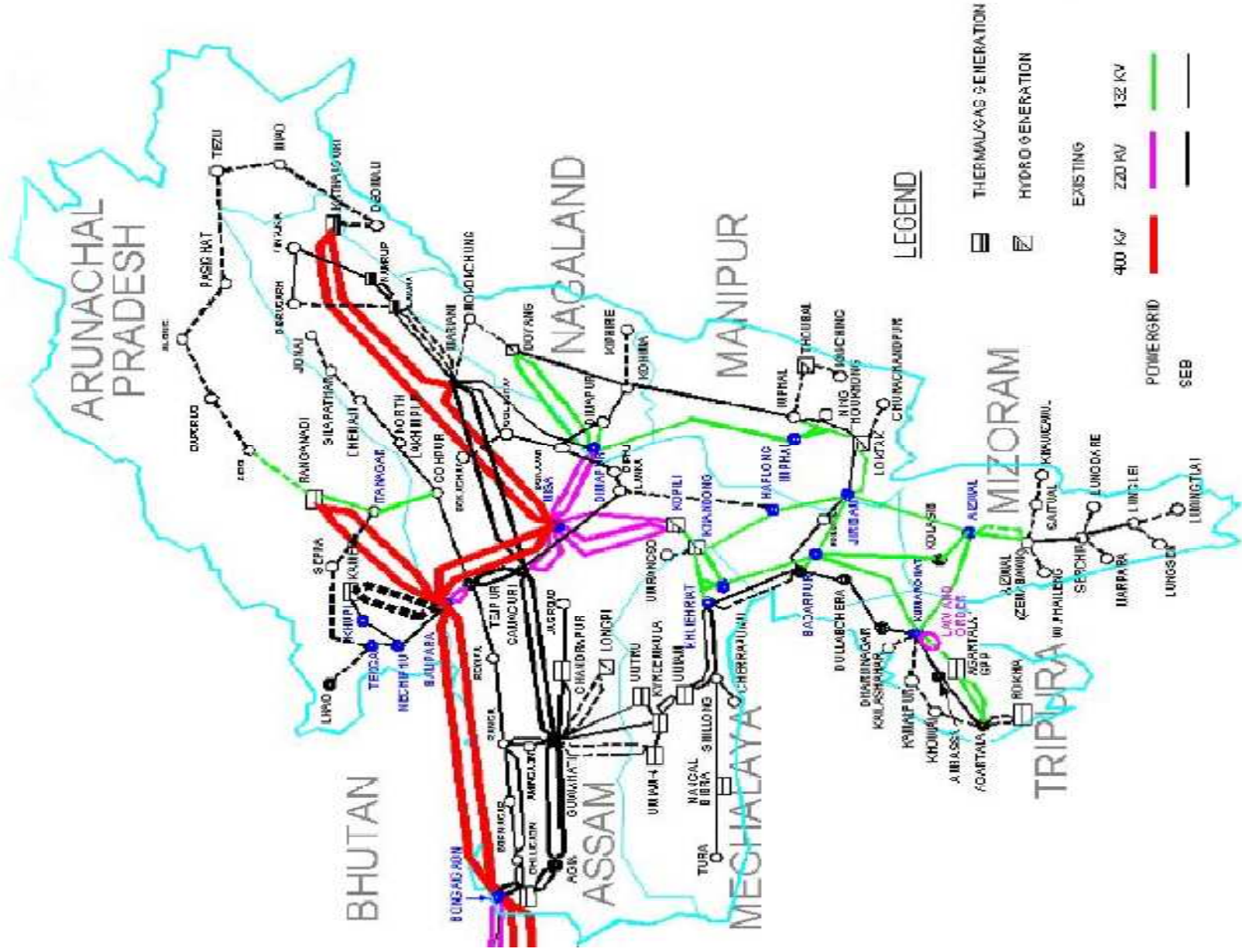
52-Week Average Loss: 4.59 %
Total ISGS Generation: 5766.149 MU
Total Loss: 266.577 MU

Bilateral sale by NER States through open access during 2004-2005

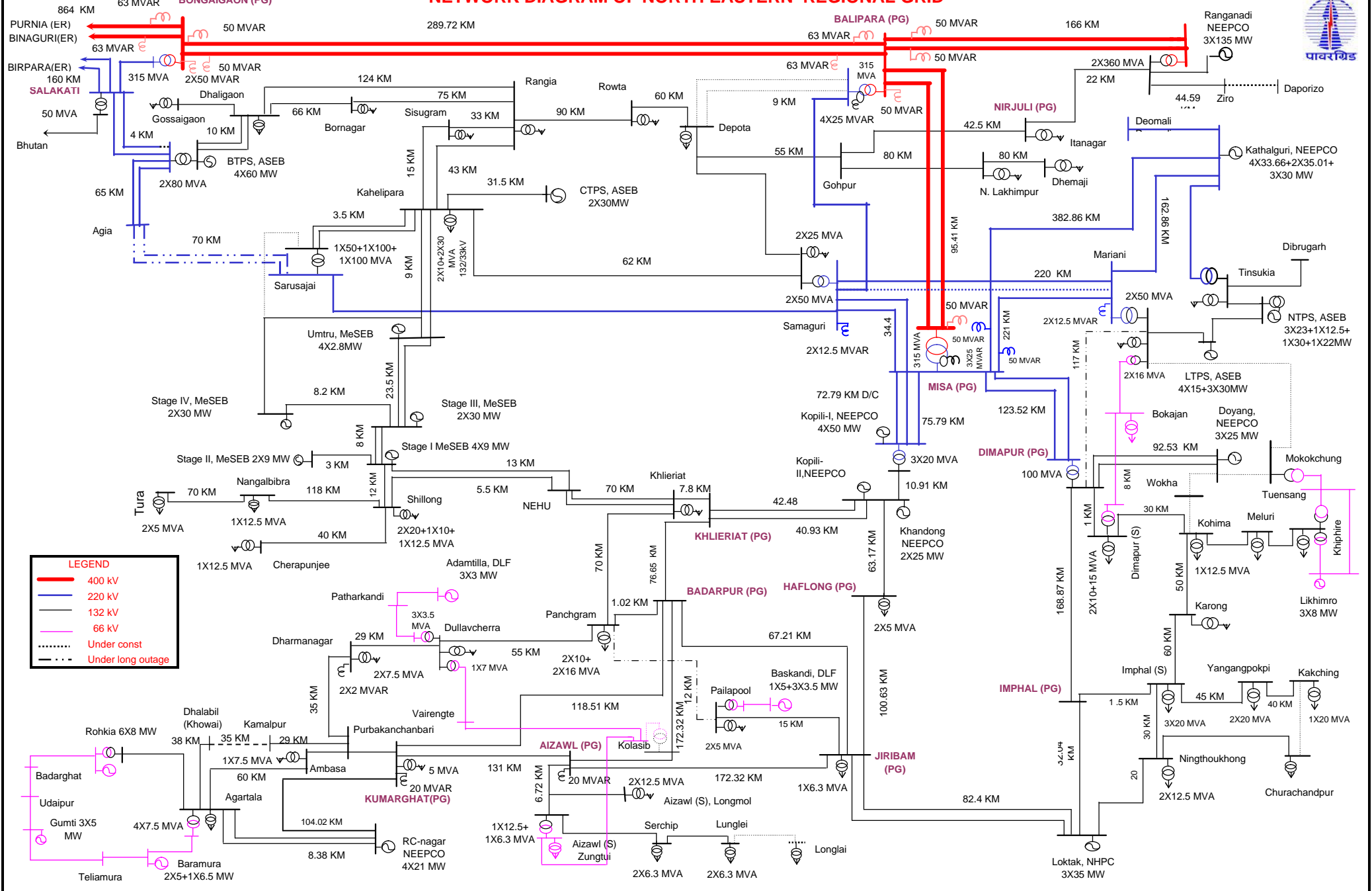
All figures are at seller periphery in MU

	May'04	June'04	July'04	Aug'04	Sept'04	Oct'04	Nov'04	Dec'04	Jan'05	Feb'05	Mar'05	Total
Ar. Pradesh	14.475	10.876	0.000	34.700	38.253	28.495	18.558	7.314	4.282	4.491	8.305	169.749
MSEB				34.700	38.253	28.495	18.558	4.393	4.282	4.491	8.305	141.477
HVPNL	14.475	10.876	0.000					2.921				25.351
MeSEB												2.921
Assam	0.000	0.000	0.000	0.000	38.598	15.618	0.000	0.000	0.000	0.000	0.000	54.216
PSEB					38.598	15.618						54.216
CSEB												
Manipur	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Meghalaya	0.000	0.000	0.000	1.000	7.453	8.500	7.963	8.325	4.650	2.520	2.790	43.200
MSEB	0.000	0.000	0.000	1.000	7.453	7.750	7.963	8.325	4.650	2.520	2.790	16.203
RAJASTHAN												7.963
HVPNL						0.750						18.285
TRIPURA												0.750
Mizoram	0.000	0.000	0.000	0.000	0.000	0.300	14.251	0.000	0.000	0.000	0.000	14.551
MPSEB						0.300	14.251					14.251
TRIPURA						0.300						0.300
Nagaland	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Tripura	0.000	5.316	14.380	2.400	3.000	32.898	24.558	30.981	33.707	37.853	36.732	221.825
CESC	0.000	0.000	0.000	0.000	3.000	15.578	6.300	14.841	11.515	10.033	11.798	24.878
HVPNL	0.000	5.316	14.380	2.400	0.000	17.320	13.758	4.964				101.361
MPSEB								2.490				4.964
ASEB							4.500	8.686	17.036	16.326	14.712	50.564
MeSEB									5.156	11.494	10.222	40.058
Total	14.475	16.192	14.380	38.100	87.303	85.811	65.330	46.620	42.639	44.864	47.827	503.540

POWER MAP OF NORTH EASTERN REGION



NETWORK DIAGRAM OF NORTH EASTERN REGIONAL GRID

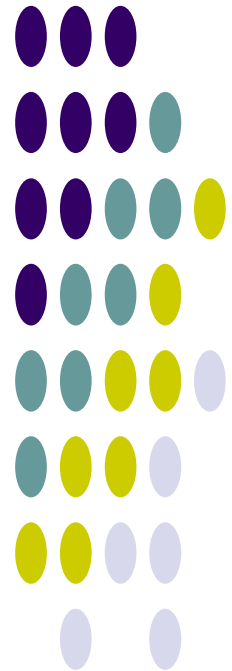


LEGEND

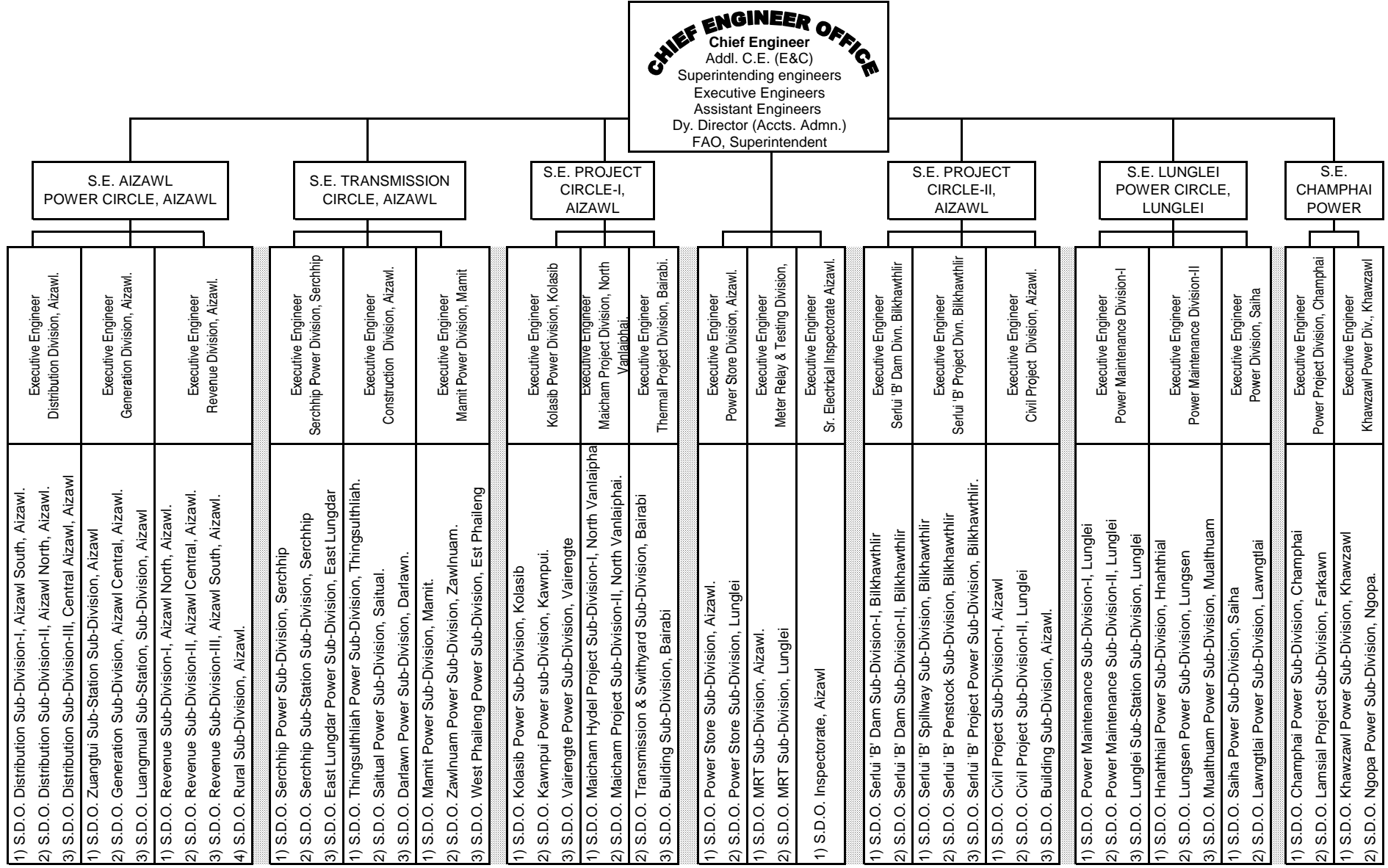
- 400 kV
- 220 kV
- 132 kV
- 66 kV
- - - Under const
- Under long outage

ANNUAL REPORT 2004-05

Organisation Structure



ORGANISATION SET UP OF POWER & ELECTRICITY DEPARTMENT : MIZORAM



ABSTRACT OF POSTS

Sl.No	Name of Post	No. of post			
		Electrical	Civil	Others	Total
1	2	3	4	5	6
	Engineer/Technical				
1	Chief Engineer	1			1
2	Addl. Chief Engineer	1	1		2
3	Superintending Engineer	7	1		8
4	Executive Engineer	24	6		30
5	Asst Engineer/SDO	70	18		88
6	Junior Engineer	204	57		261
7	Other Technical			1169	1169
	Total Engineer/Technical	307	83	1169	1559
	Account				
8	Dy Director of Account			1	1
9	Finance Account Officer			1	1
10	DA, ADA, Auditor			53	53
	Total Account			55	55
	Clerical & Others				
11	Dy Director of Administration			1	1
12	Superintendent			1	1
13	Assistant, UDC, LDC, Steno			325	325
14	IV Grade (Non-Technical)			268	268
	Total Clerical & Others			595	595
	Total Department	307	83	1819	2209

Note: Electrical posts are meant for Electrical, Mechanical & Electronics Engineers

Detail of Gazetted Posts under P&E Department

Sl. No.	Name of Office	Name of Post	Sanctioned Posts (No.)				Grand Total
			Perma nent	Temporary			
				Non-Plan	Plan	Total	
1	2	3	4	5	6	7	8
1	Chief Engineer's Office	Chief Engineer (Elect)		1		1	1
		Addl Chief Engineer (Elect)			1	1	1
		Addl Chief Engineer (Civil)			1	1	1
		Superintending Engineer (Elect)			2	2	2
		Executive Engineer (Elect)		3	2	5	5
		Executive Engineer (Civil)		1		1	1
		Assistant Engineer (Elect)		7	1	8	8
		Assistant Engineer (Civil)			1	1	1
		Deputy Director (Accts)			1	1	1
		Deputy Director (Admn)			1	1	1
		Superintendent		1	1	1	
2	Power Store Division, Aizawl	Executive Engineer (Elect)			1	1	1
		Assistant Engineer/SDO (Elect)		1	1	2	2
3	Meter Relay & Testing Div. Aizawl	Executive Engineer (Elect)			1	1	1
		Assistant Engineer/SDO (Elect)			2	2	2
4	Electrical Inspectorate, Aizawl	Sr Electrical Inpsector			1	1	1
		Electrical Inspector			2	2	2
5	Aizawl Power Circle	Superintending Engineer (Elect)		1		1	1
		Executive Engineer (Elect)	1	1	2	3	4
		Assistant Engineer (Elect)	5	2	8	10	15
		FAO	1			0	1
6	Transmission Circle, Aizawl	Superintending Engineer (Elect)			1	1	1
		Executive Engineer (Elect)		2	2	4	4
		Assistant Engineer (Elect)		7	6	13	13
		Assistant Engineer (Civil)			1	1	1
7	Project Circle-I, Aizawl	Superintending Engineer (Elect)			1	1	1
		Executive Engineer (Elect)		1	1	2	2
		Executive Engineer (Civil)			1	1	1
		Assistant Engineer (Elect)	1	2	5	7	8
		Assistant Engineer (Civil)	1	1	2	3	4
8	Project Circle-II, Aizawl	Superintending Engineer (Civil)		1		1	1
		Executive Engineer (Civil)		3	1	4	4
		Assistant Engineer (Elect)			1	1	1
		Assistant Engineer (Civil)	2	6	3	9	11
9	Lunglei Power Circle	Superintending Engineer (Elect)			1	1	1
		Executive Engineer (Elect)		1	3	4	4
		Assistant Engineer (Elect)	1	5	8	13	14
10	Champhai Power Circle	Superintending Engineer (Elect)			1	1	1
		Executive Engineer (Elect)			2	2	2
		Assistant Engineer (Elect)	1	1	3	4	5
		Assistant Engineer (Civil)			1	1	1
Total			13	48	72	120	133

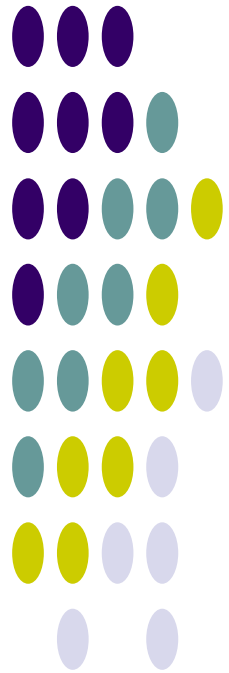
LIST OF SANCTION POSTS (NON-GAZETTED)

Sl. No.	Name of Post	Temporary Posts			Permanent Posts	Total Sanction Post
		Plan	Non-Plan	Total		
1	J.E(E)/Asst Inspector(E)	103	78	181	23	204
2	J.E (C)	30	19	49	8	57
3	Line Supervisor	5	1	6	1	7
4	Sr. Lineman	14	42	56	11	67
5	Lineman-I	25	0	25	0	25
6	Lineman-II	26	90	116	16	132
7	S.A	3	4	7	4	11
8	Head Mechanic				2	2
9	Mechanic-I	3		3		3
10	Mechanic-II	7	6	13	1	14
11	Foreman				1	1
12	Sr. Electrician	6	4	10	3	13
13	Electrician-I	7		7		7
14	Electrician-II	18	2	20	4	24
15	Auto Electrician		1	1		1
16	Sr. Blacksmith	2		2		2
17	Blacksmith	7	8	15		15
18	Surveyor	5	5	10		10
19	Sr. E.O	6		6		6
20	E.O-I	9		9		9
21	E.O-II	13	15	28	15	43
22	Sr. SBO	1		1		1
23	S.B.O-I	6		6		6
24	S.B.O-II	13	15	28	23	51
25	Compressor Operator	5	4	9		9
26	Armature Winder		1	1		1
27	Carpenter	3	2	5		5
28	Wireman	8	1	9	4	13
29	Cable Jointer		1	1		1
30	Fitter	9	21	30	4	34
31	Driller		2	2	2	4
32	Welder	12	5	17		17
33	Electrical Worker	225	116	341	59	400
34	Sr. Meter Reader	4		4		4
35	Meter Reader	33	14	47	6	53
36	Bulldozer Operator	3	1	4		4
37	W/T. Operator	2		2		2
38	Driver	46	33	79	7	86
39	Duftry	7	5	12	3	15
40	Gauge Reader	1	4	5		5
41	Sr. Storekeeper	2		2		2
42	Storekeeper	14	9	23		23
43	Blue Printer	1	1	2	2	4
44	Ferro Printer	1	2	3		3
45	Tracer	14	7	21	5	26
46	Draughtsman	1	6	7	1	8
47	H.A / Assistant	14	11	25	2	27
48	D.A	12	3	15	3	18
49	A.D.A	20	10	30	3	33
50	Asst. Auditor		2	2		2
51	Steno-II	4	1	5	1	6
52	Steno-III	3	7	10		10
53	UDC	52	45	97	16	113
54	LDC	90	60	150	19	169
55	Peon	62	59	121	23	144
56	Chowkidar	52	38	90	18	108
57	Sweeper	4	10	14	2	16
TOTAL		1013	771	1784	292	2076

ANNUAL REPORT 2004-05

Budget

2004-05



BUDGET 2004-2005

Rupees inlakh

Sl. No.	Object	Plan	Non-Plan	Total
1	2	3	4	5
	D&A, Minor works			
1	Salary	490.94	1,602.26	2,093.20
2	TE, OE, Rent, etc.	46.80	101.20	148.00
3	Motor Vehicles	27.00	46.00	73.00
4	Other Charges	30.00		30.00
5	Scholarship	23.00		23.00
6	Machinery & Equipments	7.54		7.54
	Stock Suspense		50.00	50.00
	Total D&A, Minor works	625.28	1,799.46	2,424.74
	Maintenance			
7	Purchase of grid power		6,267.64	6,267.64
8	Maintenance of Lines/Buildings	10.00	418.45	428.45
9	Maintenance of Power House	5.00	395.92	400.92
10	Maintenance of Bairabi Thermal Generation	112.00		112.00
	Total Maintenance	127.00	7,082.01	7,209.01
	ZEDA Grant-in-Aid, works)			
11	D&A	8.00		8.00
12	IREP (State Plan)	11.00		11.00
13	IREP (CSS)	32.50		32.50
14	NCSE	50.00		50.00
	Total ZEDA	101.50	-	101.50
	Total D&A, Minor works, Maintenance, etc.	853.78	8,881.47	9,735.25
	Capital Works			
	State Plan (SNA)			
15	Lamsial	180.00		180.00
16	Maicham SHP-II	90.00		90.00
17	R&M of Transmission Lines	52.75		52.75
18	Construction of Transmission Lines	55.62		55.62
19	Construction of Building	27.35		27.35
	Total State Plan (SNA)	405.72		405.72
	State Plan (REC Negotiated Loan)	658.00		658.00
	State Plan (PMGY)	598.00		598.00
	State Plan (ACA)			
20	PMGY (ACA)	1,000.00		
21	Construction of Transmission Lines	408.00		
22	Survey & Investigation	60.00		
	Total ACA	1,468.00		1,468.00
	State Plan (APDRP)	2,896.00		2,896.00
	Outside State Plan (P&E Deptt)			
23	Serlui 'B' SHP(REC loan)	1,757.00		1,757.00
24	Maicham SHP-II (MNES)	270.00		270.00
25	Hydel Generation (MNES)	246.67		246.67
26	KJP (REC)	26.85		26.85

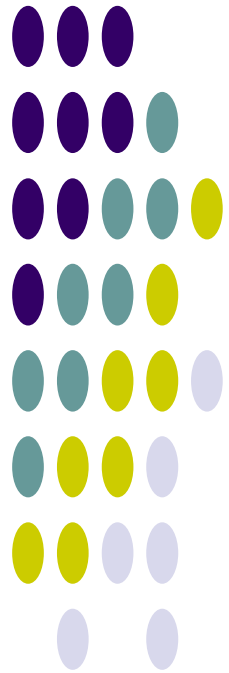
BUDGET 2004-2005

Rupees inlakh

Sl. No.	Object	Plan	Non-Plan	Total
1	2	3	4	5
27	Bairabi Thermal Evacuation Line (NLCPR)	100.00		100.00
28	Darlawn Sub-Station (NEC)	100.00		100.00
28	Hnahlan Sub-Station (NEC)	80.00		80.00
Total Outside State Plan (P&E Deptt)		2,580.52	-	2,580.52
Outside State Plan (Other Deptt)				
30	Modern Slaughter House (AH & Vety:NEC)	7.71		7.71
31	Tourist Accomodation (Tourism Deptt)	18.00		18.00
32	Industrial Growth Centre, Luangmual (Industries Deptt)	88.50		88.50
Total Outside State Plan (Other Deptt)		114.21		114.21
Total Capital Works		8,720.45	-	8,720.45
Total Department		9,574.23	8,881.47	18,455.70
Deduct Recoveries from Stock			50	50.00
Deduct fund transferred to PWD (Scholarship)		23.07		23.07
Net total Budget for 2004-05		9,551.16	8,831.47	18,382.63
A	Percentage of Salary over Total Budget	5.14	18.14	11.39
B	Percentage of D&A (2-4) over Total Budget	1.09	1.67	1.37
C	Percentage of Power purchase over total budget	-	70.97	34.10
D	Percentage of Plan & Non-Plan over total budget	51.96	48.04	

ANNUAL REPORT 2004-05

Report on
Distribution Transformers



Distribution Transformer Capacity in KVA

Sl. No.	Name of Circle	1000 kVA	630 kVA	500 kVA	350 kVA	300 kVA	250 kVA	200 kVA	150 kVA	100 kVA	63 kVA	50 kVA	25 kVA	16 kVA	TOTAL
1	Aizawl Power Circle	6	9	15	4	3	128	4	-	76	27	-	23	16	311
2	Champhai Power Circle	1	-	-	-	-	14	-	1	44	39	1	18	5	123
3	Lunglei Power Circle	2	1	4	-	-	29	-	3	75	54	-	100	51	319
4	Power Project Circle-I	1	-	1	-	-	21	1	1	34	28	1	29	1	118
5	Transmission Circle	1	1	-	-	1	26	-	-	76	81	2	61	6	255
	TOTAL	11	11	20	4	4	218	5	5	305	229	4	231	79	1126

DAMAGE REPORT OF DISTRIBUTION TRANSFORMERS DURING 2004-05

Abstract of Damaged Distribution Transformer: Capacity-wise

Sl. No.	Capacity of DT	Quantity	Percentage
1	250 kVA, 11/0.4kV	7	9.6%
2	100 kVA, 11/0.4kV	16	21.9%
3	63 kVA, 11/0.4kV	16	21.9%
4	25 kVA, 11/0.4kV	26	35.6%
5	16 kVA, 11/0.4kV	8	11.0%

Abstract of Damaged Distribution Transformers: Division-wise

Sl.No.	Name of Division	Quantity (No)	Percentage of damage
1	Distribution Division, Aizawl	7	9.59 %
2	Revenue Division, Aizawl	9	12.33 %
3	Khawzawl Power Division	3	4.11 %
4	Power Maintenance Division-I Lunglei	12	16.44 %
5	Power Maintenance Division-II Lunglei	15	20.55 %
6	Saiha Power Division	6	8.22 %
7	Maicham Project Division	1	1.36 %
8	Kolasib Power Division	3	4.11 %
9	Construction Division, Aizawl	7	9.59 %
10	Serchhip Power Division	5	6.85 %
11	Mamit Power Division	5	6.85 %
	Total	73	100 %

Sl. No.	Name of Div & Sub-Division	Place of Installation	Capacity of Transformer	Date of Damage	Cause of Damage
Distribution Division, Aizawl					
1.	Distribution S/D-I	Damveng	250KVA	16.8.04	Lightning
2.	Distribution S/D-I	Melthum	100KVA	7.1.05	Winding burn due to grass fire
3.	Distribution S/D-I	Muanna In, Mualpui	63KVA	16.8.04	Lightning
4.	Distribution S/D-II	Ramhlun 'S'	100KVA	27.4.04	Lightning
5.	Distribution S/D-III	Near R.M. High School, Tuikual 'C'	250KVA	24.6.04	Insulation failure
6.	Distribution S/D-III	Zonuam Thlanmual, Govt. Complex Rd	250KVA	4.9.04	Winding failure
7.	Distribution S/D-III	Chawnpui	100KVA	23.3.05	Short Circuit of L.T. line
Revenue Division, Aizawl					
8.	Rural S/D	Sialsuk-I	250KVA	24.2.05	Lightning
9.	Rural S/D	Sumsuih	100KVA	31.3.05	Lightning
10.	Rural S/D	Aibawk-II	100KVA	29.4.04	Lightning
11.	Rural S/D	Lengpui, PWD Model Veng	63KV	- do -	
12.	Rural S/D	Lamchhip	63KVA	20.8.04	Lightning
13.	Rural S/D	Thiak - II	63KVA	28.6.04	Lightning
14.	Rural S/D	Khamrang	25KVA	18.5.04	Lightning

15.	Rural S/D	Lungsei	25KVA	22.8.04	Lightning
16.	Rural S/D	Khawhminglokawn, Damdiai	25KVA	18.5.04	Lightning
Khawzawl Power Division					
17.	Khawzawl PSD	Tlangpui	25KVA	6.4.04	Lightning Stroke
18.	Ngopa PSD	Puilo	100KVA	1.8.04	Lightning Stroke
19.	Ngopa PSD	Ngopa	63KVA	17.8.04	Lightning Stroke
Power Maintenance Division-I Lunglei					
20.	PMSD-I, Lunglei	Kawmzawl	25KVA	21.5.04	- do -
21.	PMSD-I, Lunglei	Lunglawn Thlanmual	250KVA	26.3.05	Lightning
22.	PMSD-I, Lunglei	Ramthar-I	250KVA	29.4.04	- do -
23.	PMSD-I, Lunglei	Luangmual, Lunglei	250KVA	-	-
24.	PMSD-I, Lunglei	Luangmual	100KVA	5.8.04	- do -
25.	PMSD-I, Lunglei	Civil Hospital, Lunglei	100KVA	6.9.04	- do -
26.	PMSD-I, Lunglei	Thlengang	16KVA	18.10.04	11KV Insulation burnt
27.	S/S, S/D, Lunglei	Chhawmdawlna In	25KVA	12.6.04	- do -
28.	PMSD-II, Lunglei	Zobawk	100KVA	20.9.04	- do -
29.	PMSD-II, Lunglei	Vaisam	63KVA	16.4.04	- do -
30.	PMSD-II, Lunglei	Chithar	25KVA	17.5.04	- do -
31.	PMSD-II, Lunglei	Chengpui	25KVA	1.10.04	- do -
Power Maintenance Division-II Lunglei					
32.	Hnahthial PSD	Upper Pangzawl	25KVA	1.9.04	- do -
33.	Hnahthial PSD	Aithur	25KVA	21.9.04	- do -
34.	Hnahthial PSD	Lungtian	25KVA	21.11.04	
35.	Hnahthial PSD	Denlung	25KVA	8.10.04	
36.	Hnahthial PSD	Vartek	16KVA	5.6.04	Lightning
37.	Hnahthial PSD	S.Lungleng	16KVA	7.6.04	- do -
38.	Lungsen PSD	Kauchhuah	100KVA	13.12.04	Weak Insulation
39.	Lungsen PSD	Zawlpui	63KVA	7.5.04	Weak Insulation
40.	Lungsen PSD	Tiperghat-II	25KVA	5.1.05	Weak Insulation
41.	Lungsen PSD	Tiperghat-I	25KVA	20.12.04	Weak Insulation
42.	Lungsen PSD	Kalapani	16KVA	23.1.05	Weak Insulation
43.	Lungsen PSD	Balukiasuri	16KVA	15.1.05	Weak Insulation
44.	Lungsen PSD	Sihphirtlang	16KVA	12.1.05	Weak Insulation
45.	Lungsen PSD	Buknuam	16KVA	18.8.04	Weak Insulation
46.	Mualthuam PSD	Lungdai 'S'	25KVA	11.1.05	Lightning
Saiha Power Division					
47.	Saiha PSD	Bualpui 'NG'	63KVA	10.4.04	- do -
48.	Saiha PSD	Laki	25KVA	10.4.04	- do -
49.	Saiha PSD	Siata	63KVA	20.6.04	- do -
50.	Lawngtlai PSD	Charluitlang	25KVA	22.10.04	- do -
51.	Lawngtlai PSD	Nghalimlui	25KVA	26.6.04	- do -
52.	Lawngtlai PSD	Sihtlangpui	25KVA	28.12.04	Insulation failure
Maicham Project Division					
53.	Maicham Proj. S/D-I	Sanpoh	100KVA	13.4.04	Lightning
Kolasib Power Division					
54.	Kolasib PSD	Thingdawl 'N'	100KVA	17.4.04	Lightning

55.	Kawnpui PSD	Bualpui	100KVA	20.4.04	Lightning
56.	Vairengte PSD	N.Chhimluang	25KVA	29.7.04	Lightning
Construction Division, Aizawl					
57.	Saitual PSD	Vanbawng	100KVA	1.10.04	Lightning
58.	Saitual PSD	Sihfa	63KVA	12.4.04	Lightning
59.	Darlawn PSD	Sawlung, Hmuntha	100KVA	14.8.04	Lightning
60.	Darlawn PSD	E. Damdiai	25KVA	12.7.04	Lightning
61.	W. Phaileng PSD	Teirei Forest Veng	25KVA	-	-
62.	Thingsulthliah PSD	Venghlun, Tlungvel	100KVA	15.4.04	Lightning
63.	Thingsulthliah PSD	Phulmawi	63KVA	27.1.05	Winding insulation failure
Serchhip Power Division					
64.	Serchhip PSD	Hriangtlang	63KVA	20.5.04	Lightning
65.	Serchhip PSD	Keitum 'N'	63KVA	6.3.05	Lightning
66.	Serchhip PSD	Dampui	25KVA	2.7.04	Lightning
67.	Serchhip S/S, S/D	Khawbel	63KVA	19.8.04	Lightning
68.	Serchhip S/S, S/D	New Densur, (Bungkawn)	25KVA	16.9.04	Lightning
Mamit Power Division					
69.	Mamit PSD	Hmunpui	63KVA	13.7.04	Lightning
70.	Mamit PSD	Sabual	25KVA	20.8.04	-
71.	Mamit PSD	Bawngva	25KVA	6.7.04	Insulation failure of H.T. winding
72.	Zawnuam PSD	Rengdil	63KVA	24.6.04	Lightning
73.	Zawnuam PSD	Serhmun	16KVA	4.3.05	Insulation failure due to overload