

# Andhra Pradesh Electricity Distribution Companies Monthly Report on Key Performance Indicators February-2023

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**Prepared by- Strategic Planning Unit**

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# 1. Sales

#	Item	Units	Month			YTD		
			CY	PY	% ↑	CY	PY	% ↑
<b>Energy (MU)</b>								
1.01	Metered Sales	MU	4265 (78%)	4011 (81%)	6%	50582 (85%)	46492 (83%)	9%
3.1.12	Agl Consumption	MU	1222 (22%)	912 (19%)	34%	8688 (15%)	9324 (17%)	-7%
3.1.22	Discom Sales	MU	5487	4923	11%	59269	55816	6%
1.02	Private Sales	MU	3500 (64%)	3136 (64%)	12%	43406 (73%)	38287 (69%)	13%
1.03	Government Sales	MU	470 (9%)	430 (9%)	9%	4282 (7%)	4174 (7%)	3%
1.04	Government Subsidy	MU	1518 (28%)	1357 (28%)	12%	11581 (20%)	13356 (24%)	-13%
<b>Collection (Rs. Cr)</b>								
1.05	Opening Debtors	Rs Cr	15450	12162	27%	12699	10523	21%
5.2.14	Pvt Sales	Rs Cr	2669	1878	42%	30481	24563	24%
5.2.7	Gov Sales	Rs Cr	142	602	-76%	2815	3400	-17%
5.2.1	Gov Subsidy	Rs Cr	4281	676	533%	10587	8202	29%
1.06	Others	Rs Cr	80	81	-1%	2955	1107	167%
5.2.15	Discom Collections	Rs Cr	7171	3237	122%	46837	37271	26%
1.07	Metered Sales	Rs Cr	2921	2507	17%	33868	28545	19%
3.3.12	Agl Collections	Rs Cr	4170	650	542%	10012	7620	31%
1.08	Revenue from Sale	Rs Cr	3705	2992	24%	42335	36330	17%
1.09	Adj Revenue from Sale	Rs Cr	7104	3460	105%	43855	36664	20%
1.10	Closing Debtors	Rs Cr	15896	12154	31%	15896	12154	31%
1.11	Adj Closing Debtors	Rs Cr	15896	12154	31%	15896	12154	31%
<b>KPIs</b>								
3.5.22	ARR	Rs/kWh	12.92	6.41	102%	7.40	6.48	14%
3.6.22	AMC	kWh/bill/Mth	289	270	7%	204	233	-12%
3.7.22	ACPB	Rs/bill/Mth	3731	1730	116%	1513	1512	0%

## 2. Purchases

#	Item	Units	Month			YTD		
			CY	PY	% ↑	CY	PY	% ↑
<b>Power Purchase</b>								
3.1.22	Discom Sales	MU	5487 (97%)	4923 (96%)	11%	59269 (91%)	55816 (90%)	6%
2.01	Discom Losses	MU	485 (9%)	456 (9%)	6%	4357 (7%)	4291 (7%)	2%
2.02	Discom Input	MU	5971 (105%)	5380 (104%)	11%	62426 (96%)	58907 (95%)	6%
2.03	Transmission Loss	MU	156 (3%)	150 (3%)	4%	1676 (3%)	1688 (3%)	-1%
4.1.11	Discom Purchases	MU	5667	5149	10%	65364	61759	6%
4.2.11	Power Purchase Cost	Rs. Cr	2997 (72%)	2282 (71%)	31%	33617 (74%)	26638 (73%)	26%
<b>Contracted Network Capacity (MW)</b>								
2.04	STU	MW	13877	12843	8%	13877	12843	8%
2.05	CTU	MW	1564	1724	-9%	1965	1850	6%
2.06	Distribution	MW	12412	11334	10%	12412	11334	10%
<b>Capacity Charges</b>								
2.07	STU Charges	Rs. Lacs/MW/Mth	1.7	1.2	42%	1.6	1.5	8%
2.08	CTU Charges	Rs. Lacs/MW/Mth	5.4	3.5	54%	5.5	3.2	70%
2.09	Distribution Charges	Rs. Lacs/MW/Mth	6.6	6.1	8%	5.7	5.5	4%
<b>Network Cost (Rs. Cr)</b>								
2.10	STU Cost	Rs Cr	233 (6%)	159 (5%)	47%	2507 (6%)	2152 (6%)	16%
2.11	CTU Cost	Rs Cr	85 (2%)	61 (2%)	40%	1180 (3%)	652 (2%)	81%
2.12	Distribution Network Cost	Rs Cr	825 (20%)	693 (21%)	19%	7745 (17%)	6828 (19%)	13%
2.13	O&M Cost	Rs Cr	562	479	17%	5242	4632	13%
2.14	HR Cost	Rs Cr	474	410	16%	4450	3914	14%
2.15	A&G Cost	Rs Cr	22	19	12%	200	189	6%
2.16	R & M Cost	Rs Cr	66	50	31%	593	529	12%
2.17	Depreciation	Rs Cr	169	124	36%	1569	1419	11%
2.18	ROCE	Rs Cr	35	44	-20%	348	280	24%
2.19	Others	Rs Cr	60	46	31%	586	497	18%
2.20	Network Cost	Rs Cr	1143 (27%)	912 (28%)	25%	11431 (25%)	9632 (26%)	19%
<b>Retail Supply Cost (Rs. Cr)</b>								
2.21	B&C Cost and Supply Margin	Rs Cr	14	15	-9%	170	165	3%
2.22	Interest on Security Deposits	Rs Cr	19	18	8%	215	199	8%
2.23	Retail Supply Cost	Rs Cr	33 (1%)	33 (1%)	0%	386 (1%)	364 (1%)	6%
<b>Cost of Service (Rs. Cr)</b>								
2.24	Cost of Service	Rs Cr	4174	3228	29%	45434	36634	24%
7.2.2	ERC Disallowed Debt	Rs Cr	1625	890	83%	9563	10256	-7%
<b>KPIs on Purchase basis</b>								
4.5.11	Energy Cost on Purchase Basis	Rs/kWh	5.29	4.43	19%	5.14	4.31	19%
2.25	STU Cost per Unit	Rs/kWh	0.41	0.31	34%	0.38	0.35	10%
2.26	CTU Cost per Unit	Rs/kWh	0.15	0.12	27%	0.18	0.11	71%
2.27	CTU Cost Per Unit on CGS purchases	Rs/kWh	0.85	0.54	56%	0.98	0.56	75%
2.28	Distribution Network Cost per Unit	Rs/kWh	1.46	1.35	8%	1.18	1.11	7%
2.29	Network Cost per Unit	Rs/kWh	2.02	1.76	15%	1.75	1.56	12%
2.30	Retail Supply Cost per Unit	Rs/kWh	0.06	0.06	-9%	0.06	0.06	0%
2.31	Cost of Service per Unit	Rs/kWh	7.37	6.27	17%	6.95	5.93	17%
<b>KPIs on Sales basis</b>								
2.32	Energy Cost on Sales Basis	Rs/kWh	5.46	4.63	18%	5.67	4.77	19%
2.33	STU Cost per Unit	Rs/kWh	0.43	0.31	37%	0.42	0.39	10%
2.34	CTU Cost per Unit	Rs/kWh	0.15	0.12	25%	0.20	0.12	70%
2.35	Distribution Network Cost per Unit	Rs/kWh	1.50	1.41	7%	1.31	1.22	7%
2.36	Network Cost per Unit	Rs/kWh	2.08	1.85	12%	1.93	1.73	12%

2.37	Retail Supply Cost per Unit	Rs/kWh	0.06	0.07	-10%		0.07	0.07	0%
2.38	ACS	Rs/kWh	7.61	6.56	16%		7.67	6.56	17%
2.39	ERC Disallowed Debt per Unit	Rs/kWh	2.96	1.81	64%		1.61	1.84	-12%
<b>AT&amp;C Losses</b>									
2.40	Collection $\eta$	%	180%	116%	55%		96%	96%	0%
2.41	Units Realized	MU	9876	5693	73%		55831	52652	6%
2.42	Units Unrealized	MU	-3905	-313	1149%		6595	6256	5%
2.43	AT&C Losses	%	-65%	-6%	1025%		11%	11%	-1%
<b>ARR-ACS GAP</b>									
2.44	GAP	Rs/kWh	5.32	-0.15	-3749%		-0.26	-0.08	212%

### 3. Sales by Categories

#### 3.1 Energy Sales by Category

#	Category	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
3.1.1	0-30	49 (1%)	45 (1%)	7%	373 (1%)	342 (1%)	9%
3.1.2	31-75	255 (5%)	249 (5%)	2%	2345 (4%)	2256 (4%)	4%
3.1.3	76-125	334 (6%)	330 (7%)	1%	3832 (6%)	3670 (7%)	4%
3.1.4	126-225	335 (6%)	348 (7%)	-4%	5106 (9%)	5164 (9%)	-1%
3.1.5	226-400	108 (2%)	116 (2%)	-7%	2870 (5%)	2893 (5%)	-1%
3.1.6	>400	37 (1%)	39 (1%)	-5%	1684 (3%)	1809 (3%)	-7%
3.1.7	LT-1	1117 (20%)	1127 (23%)	-1%	16212 (27%)	16133 (29%)	0%
3.1.8	LT-2	260 (5%)	230 (5%)	13%	3262 (6%)	2765 (5%)	18%
3.1.9	LT-3	144 (3%)	144 (3%)	0%	1503 (3%)	1435 (3%)	5%
3.1.10	LT-4	144 (3%)	118 (2%)	22%	1539 (3%)	1302 (2%)	18%
3.1.11	LT-5	1528 (28%)	1262 (26%)	21%	12482 (21%)	13068 (23%)	-4%
3.1.12	LT-5 A (ii)	1222 (22%)	912 (19%)	34%	8688 (15%)	9324 (17%)	-7%
3.1.13	LT-5 excluding A(ii)	306 (6%)	350 (7%)	-13%	3794 (6%)	3744 (7%)	1%
3.1.14	LT	3193 (58%)	2881 (59%)	11%	34998 (59%)	34703 (62%)	1%
3.1.15	HT-1	4 (0%)	4 (0%)	-1%	59 (0%)	57 (0%)	3%
3.1.16	HT-2	146 (3%)	116 (2%)	26%	1719 (3%)	1376 (2%)	25%
3.1.17	HT-3	1718 (31%)	1543 (31%)	11%	18589 (31%)	15862 (28%)	17%
3.1.18	HT-4	237 (4%)	199 (4%)	19%	2582 (4%)	2137 (4%)	21%
3.1.19	HT-5	146 (3%)	133 (3%)	10%	913 (2%)	1258 (2%)	-27%
3.1.20	Rescos	43 (1%)	47 (1%)	-9%	411 (1%)	423 (1%)	-3%
3.1.21	HT	2294 (42%)	2042 (41%)	12%	24271 (41%)	21114 (38%)	15%
3.1.22	Discom Sales	5487	4923	11%	59269	55816	6%

#### 3.2 Energy Sales by Voltage Level (MU)

#	Voltage	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
3.2.1	LT	3193	2882	11%	34955	34679	1%
3.2.2	11KV	479	446	7%	5407	5050	7%
3.2.3	33KV	561	543	3%	6263	5939	5%
3.2.4	EHT	1255	1052	19%	12643	10150	25%
3.1.22	Discom Sales	5487	4923	11%	59269	55817	6%

#### 3.3 Collection by Category (Rs Cr)

#	Category	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
3.3.1	0-30	32 (0%)	22 (1%)	45%	261 (1%)	198 (1%)	32%
3.3.2	31-75	85 (1%)	57 (2%)	48%	727 (2%)	535 (1%)	36%
3.3.3	76-125	119 (2%)	98 (3%)	21%	1299 (3%)	1112 (3%)	17%
3.3.4	126-225	146 (2%)	128 (4%)	14%	2086 (5%)	1879 (5%)	11%
3.3.5	226-400	61 (1%)	57 (2%)	7%	1621 (4%)	1529 (4%)	6%
3.3.6	>400	28 (0%)	26 (1%)	6%	1205 (3%)	1307 (4%)	-8%
3.3.7	LT-1	470 (7%)	389 (12%)	21%	7199 (16%)	6560 (18%)	10%
3.3.8	LT-2	309 (4%)	251 (8%)	23%	3753 (9%)	2991 (8%)	25%
3.3.9	LT-3	127 (2%)	110 (3%)	15%	1358 (3%)	1180 (3%)	15%
3.3.10	LT-4	19 (0%)	261 (8%)	-93%	450 (1%)	1780 (5%)	-75%
3.3.11	LT-5	4387 (62%)	715 (23%)	513%	11757 (27%)	8928 (25%)	32%
3.3.12	LT-5 A (ii)	4170 (59%)	650 (21%)	542%	10012 (23%)	7620 (21%)	31%
3.3.13	LT-5 excluding A(ii)	217 (3%)	66 (2%)	230%	1744 (4%)	1308 (4%)	33%
3.3.14	LT	5312 (75%)	1726 (55%)	208%	24517 (56%)	21438 (59%)	14%
3.3.15	HT-1	4 (0%)	3 (0%)	48%	43 (0%)	46 (0%)	-6%
3.3.16	HT-2	183 (3%)	129 (4%)	41%	1975 (4%)	1562 (4%)	26%

3.3.17	HT-3	1432 (20%)	1111 (35%)	29%	14649 (33%)	11241 (31%)	30%
3.3.18	HT-4	153 (2%)	180 (6%)	-15%	1796 (4%)	1528 (4%)	18%
3.3.19	HT-5	6 (0%)	5 (0%)	9%	712 (2%)	320 (1%)	123%
3.3.20	Rescos	2 (0%)	2 (0%)	-17%	188 (0%)	30 (0%)	523%
3.3.21	HT	1779 (25%)	1430 (45%)	24%	19364 (44%)	14727 (41%)	31%
3.3.22	Discom Collections	7091	3156	125%	43880	36165	21%

### 3.4 Bills by Category (Nos)

#	Category	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
3.4.1	0-30	40,64,071(21%)	37,51,216(21%)	8%	40,64,071(15%)	38,47,031(18%)	6%
3.4.2	31-75	48,77,700(26%)	47,44,517(26%)	3%	48,77,700(18%)	47,85,825(22%)	2%
3.4.3	76-125	34,29,237(18%)	32,97,098(18%)	4%	37,78,179(14%)	35,91,647(17%)	5%
3.4.4	126-225	21,31,852(11%)	21,92,628(12%)	-3%	32,54,941(12%)	33,17,541(15%)	-2%
3.4.5	226-400	3,90,655(2%)	4,17,380(2%)	-6%	14,34,087(5%)	13,92,536(6%)	3%
3.4.6	>400	64,595(0%)	68,968(0%)	-6%	7,35,629(3%)	6,56,171(3%)	12%
3.4.7	LT-1	1,49,58,110(79%)	1,44,71,807(79%)	3%	1,81,44,607(69%)	1,75,90,751(81%)	3%
3.4.8	LT-2	16,74,675(9%)	15,75,190(9%)	6%	52,81,034(20%)	15,75,190(7%)	235%
3.4.9	LT-3	81,490(0%)	80,909(0%)	1%	5,24,960(2%)	81,242(0%)	546%
3.4.10	LT-4	3,51,992(2%)	3,38,670(2%)	4%	3,51,992(1%)	3,38,670(2%)	4%
3.4.11	LT-5	19,26,181(10%)	17,62,773(10%)	9%	20,50,893(8%)	21,47,268(10%)	-4%
3.4.12	LT-5 A (ii)	18,35,965(10%)	16,76,308(9%)	10%	18,36,419(7%)	17,14,300(8%)	7%
3.4.13	LT-5 excluding A(ii)	90,216(0%)	86,465(0%)	4%	2,14,474(1%)	4,32,968(2%)	-50%
3.4.14	LT	1,89,92,448(100%)	1,82,29,349(100%)	4%	2,63,53,486(100%)	2,17,33,121(100%)	21%
3.4.15	HT-1	121(0%)	113(0%)	7%	121(0%)	113(0%)	7%
3.4.16	HT-2	4,937(0%)	4,527(0%)	9%	4,937(0%)	4,527(0%)	9%
3.4.17	HT-3	6,600(0%)	6,337(0%)	4%	6,600(0%)	7,011(0%)	-6%
3.4.18	HT-4	830(0%)	719(0%)	15%	830(0%)	719(0%)	15%
3.4.19	HT-5	718(0%)	716(0%)	0%	724(0%)	752(0%)	-4%
3.4.20	Rescos	1(0%)	1(0%)	0%	1(0%)	82(0%)	-99%
3.4.21	HT	13,207(0%)	12,413(0%)	6%	13,213(0%)	13,204(0%)	0%
3.4.22	Discom Bills	1,90,05,655	1,82,41,762	4%	2,63,66,699	2,17,46,325	21%

### 3.5 Average Revenue Realized by Category (Rs/kWh)

#	Category	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
3.5.1	0-30	6.58	4.87	35%	6.99	5.80	21%
3.5.2	31-75	3.33	2.29	45%	3.10	2.37	31%
3.5.3	76-125	3.55	2.96	20%	3.39	3.03	12%
3.5.4	126-225	4.36	3.69	18%	4.09	3.64	12%
3.5.5	226-400	5.62	4.91	15%	5.65	5.29	7%
3.5.6	>400	7.56	6.76	12%	7.16	7.22	-1%
3.5.7	LT-1	4.21	3.45	22%	4.44	4.07	9%
3.5.8	LT-2	11.88	10.90	9%	11.50	10.82	6%
3.5.9	LT-3	8.84	7.68	15%	9.03	8.22	10%
3.5.10	LT-4	1.32	22.12	-94%	2.92	13.67	-79%
3.5.11	LT-5	28.72	5.67	407%	9.42	6.83	38%
3.5.12	LT-5 A (ii)	34.13	7.12	379%	11.52	8.17	41%
3.5.13	LT-5 excluding A(ii)	7.10	1.88	278%	4.60	3.49	32%
3.5.14	LT	16.64	5.99	178%	7.01	6.18	13%
3.5.15	HT-1	9.51	6.37	49%	7.36	8.02	-8%
3.5.16	HT-2	12.52	11.16	12%	11.49	11.35	1%
3.5.17	HT-3	8.34	7.20	16%	7.88	7.09	11%
3.5.18	HT-4	6.45	9.05	-29%	6.96	7.15	-3%
3.5.19	HT-5	0.39	0.40	-1%	7.80	2.54	207%
3.5.20	Rescos	0.37	0.40	-9%	4.58	0.71	542%
3.5.21	HT	7.75	7.00	11%	7.98	6.97	14%
3.5.22	ARR	12.92	6.41	102%	7.40	6.48	14%

### 3.6 Average Monthly Consumption by Category (kWh/Bill/Month)

#	Category	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
3.6.1	0-30	12	12	-1%	8	8	3%
3.6.2	31-75	52	53	-1%	44	43	2%
3.6.3	76-125	97	100	-3%	92	93	-1%
3.6.4	126-225	157	159	-1%	143	142	1%
3.6.5	226-400	277	277	0%	182	189	-4%
3.6.6	>400	575	566	2%	208	251	-17%
3.6.7	LT-1	75	78	-4%	81	83	-3%
3.6.8	LT-2	155	146	6%	56	160	-65%
3.6.9	LT-3	1763	1776	-1%	260	1606	-84%
3.6.10	LT-4	410	348	18%	397	350	14%
3.6.11	LT-5	793	716	11%	553	553	0%
3.6.12	LT-5 A (ii)	666	544	22%	430	494	-13%
3.6.13	LT-5 excluding A(ii)	3387	4048	-16%	1608	786	105%
3.6.14	LT	168	158	6%	121	145	-17%
3.6.15	HT-1	33967	36814	-8%	44109	45979	-4%
3.6.16	HT-2	29524	25558	16%	31650	27634	15%
3.6.17	HT-3	260318	243566	7%	256044	205676	24%
3.6.18	HT-4	286120	276968	3%	282776	270201	5%
3.6.19	HT-5	203747	185098	10%	114586	152130	-25%
3.6.20	Rescos	42730000	47140000	-9%	37343547	469089	7861%
3.6.21	HT	173731	164517	6%	166994	145367	15%
3.6.22	AMC	289	270	7%	204	233	-12%

### 3.7 Average Collection per Bill by Category (Rs/Bill/Month)

#	Category	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
3.7.1	0-30	79	59	34%	58	47	25%
3.7.2	31-75	174	121	44%	136	102	33%
3.7.3	76-125	346	296	17%	312	281	11%
3.7.4	126-225	684	586	17%	583	515	13%
3.7.5	226-400	1555	1360	14%	1028	998	3%
3.7.6	>400	4347	3826	14%	1490	1810	-18%
3.7.7	LT-1	314	268	17%	361	339	6%
3.7.8	LT-2	1844	1594	16%	646	1726	-63%
3.7.9	LT-3	15577	13650	14%	2351	13201	-82%
3.7.10	LT-4	541	7704	-93%	1162	4779	-76%
3.7.11	LT-5	22775	4059	461%	5211	3780	38%
3.7.12	LT-5 A (ii)	22712	3876	486%	4957	4041	23%
3.7.13	LT-5 excluding A(ii)	24051	7603	216%	7394	2747	169%
3.7.14	LT	2797	947	195%	846	897	-6%
3.7.15	HT-1	323140	234513	38%	324476	368871	-12%
3.7.16	HT-2	369658	285112	30%	363589	313619	16%
3.7.17	HT-3	2170379	1752722	24%	2017829	1457628	38%
3.7.18	HT-4	1844096	2506954	-26%	1967520	1931558	2%
3.7.19	HT-5	79387	73184	8%	893872	386706	131%
3.7.20	Rescos	15600000	18900000	-17%	171076946	334810	-
3.7.21	HT	1347149	1151857	17%	1332268	1013929	31%
3.7.22	ACPB	3731	1730	116%	1513	1512	0%

## 4. Purchase by Categories

### 4.1 Energy Purchased by Source (MU)

#	Source	Month					YTD				
		CY	PY	% ↑	ERC	% δ ERC	CY	PY	% ↑	ERC	% δ ERC
4.1.1	State Thermal	2216 (39%)	2121 (41%)	4%	2708 (44%)	-18%	21687 (33%)	19613 (32%)	11%	28685 (43%)	-24%
4.1.2	State Hydel	248 (4%)	233 (5%)	6%	280 (5%)	-11%	3979 (6%)	3436 (6%)	16%	3034 (5%)	31%
4.1.3	CGS	999 (18%)	1118 (22%)	-11%	811 (13%)	23%	11998 (18%)	11625 (19%)	3%	8950 (14%)	34%
4.1.4	Gas	-1 (0%)	42 (1%)	- 102%	41 (1%)	-102%	229 (0%)	1009 (2%)	-77%	430 (1%)	-47%
4.1.5	IPPs	516 (9%)	142 (3%)	262%	600 (10%)	-14%	5508 (8%)	1625 (3%)	239%	8177 (12%)	-33%
4.1.6	VRE-Wind	388 (7%)	269 (5%)	44%	355 (6%)	9%	7184 (11%)	7832 (13%)	-8%	7054 (11%)	2%
4.1.7	VRE-Solar	711 (13%)	571 (11%)	25%	639 (10%)	11%	6697 (10%)	6498 (11%)	3%	6396 (10%)	5%
4.1.8	RE-Others	25 (0%)	22 (0%)	12%	44 (1%)	-43%	352 (1%)	245 (0%)	44%	452 (1%)	-22%
4.1.9	Markets	558 (10%)	578 (11%)	-3%	635 (10%)	-12%	7648 (12%)	9660 (16%)	-21%	2795 (4%)	174%
4.1.10	Others	6 (0%)	53 (1%)	-88%	0 (0%)	-	81 (0%)	215 (0%)	-62%	0 (0%)	-
4.1.11	Discom Purchases	5667	5149	10%	6113	-7%	65364	61759	6%	65973	-1%

### 4.2 Power Purchase Cost by Source (Rs Cr)

#	Source	Month					YTD				
		CY	PY	% ↑	ERC	% δ ERC	CY	PY	% ↑	ERC	% δ ERC
4.2.1	State Thermal	1056 (35%)	1026 (45%)	3%	1273 (48%)	-17%	11211 (33%)	9570 (36%)	17%	13584 (48%)	-17%
4.2.2	State Hydel	52 (2%)	51 (2%)	2%	52 (2%)	0%	576 (2%)	563 (2%)	2%	576 (2%)	0%
4.2.3	CGS	621 (21%)	477 (21%)	30%	301 (11%)	106%	6591 (20%)	4577 (17%)	44%	3327 (12%)	98%
4.2.4	Gas	2 (0%)	14 (1%)	-85%	28 (1%)	-92%	161 (0%)	262 (1%)	-39%	298 (1%)	-46%
4.2.5	IPPs	237 (8%)	53 (2%)	348%	231 (9%)	3%	2362 (7%)	620 (2%)	281%	2975 (10%)	-21%
4.2.6	VRE-Wind	190 (6%)	65 (3%)	192%	167 (6%)	14%	3413 (10%)	3275 (12%)	4%	3315 (12%)	3%
4.2.7	VRE-Solar	311 (10%)	207 (9%)	50%	294 (11%)	6%	2901 (9%)	2630 (10%)	10%	2917 (10%)	-1%
4.2.8	RE-Others	14 (0%)	10 (0%)	44%	25 (1%)	-44%	193 (1%)	111 (0%)	74%	255 (1%)	-24%
4.2.9	Markets	513 (17%)	341 (15%)	51%	273 (10%)	88%	6046 (18%)	4865 (18%)	24%	1202 (4%)	403%
4.2.10	Others	1 (0%)	38 (2%)	-96%	0 (0%)	-	164 (0%)	164 (1%)	0%	0 (0%)	-
4.2.11	Power Purchase Cost	2997	2282	31%	2643	13%	33617	26638	26%	28449	18%

### 4.3 Fixed Cost by Source (Rs Cr)

#	Source	Month					YTD				
		CY	PY	% ↑	ERC	% δ ERC	CY	PY	% ↑	ERC	% δ ERC
4.3.1	State Thermal	293	305	-4%	353	-17%	3622	3009	20%	3885	-7%
4.3.2	State Hydel	52	51	2%	52	0%	576	563	2%	576	0%
4.3.3	CGS	202	143	42%	76	167%	1836	1332	38%	835	120%
4.3.4	Gas	2	2	21%	18	-88%	27	18	54%	195	-86%
4.3.5	IPPs	80	21	272%	71	13%	811	257	216%	779	4%
4.3.6	Others	1	38	-96%	0	-	164	164	0%	0	-
4.3.7	Fixed Cost	632	561	13%	570	11%	7036	5342	32%	6270	12%

#### 4.4 Variable Cost by Source (Rs Cr)

#	Source	Month					YTD				
		CY	PY	% ↑	ERC	% δ ERC	CY	PY	% ↑	ERC	% δ ERC
4.4.1	State Thermal	762	721	6%	920	-17%	7588	6562	16%	9700	-22%
4.4.2	CGS	419	335	25%	226	86%	4755	3245	47%	2492	91%
4.4.3	Gas	0	12	-100%	10	-100%	134	244	-45%	103	31%
4.4.4	IPPs	157	31	400%	160	-2%	1551	363	327%	2196	-29%
4.4.5	VRE-Wind	190	65	192%	167	14%	3413	3275	4%	3315	3%
4.4.6	VRE-Solar	247	207	19%	294	-16%	2837	2630	8%	2917	-3%
4.4.7	RE-Others	13	9	48%	25	-46%	189	106	77%	255	-26%
4.4.8	Markets	513	341	50%	273	88%	6033	4865	24%	1202	402%
4.4.9	Others	0	0	-	0	-	0	0	-	0	-
4.4.10	Variable Cost	2300	1721	34%	2073	11%	26499	21291	24%	22180	19%

#### 4.5 Average Energy Cost per Unit by Source (Rs/kWh)

#	Source	Month					YTD				
		CY	PY	% ↑	ERC	% δ ERC	CY	PY	% ↑	ERC	% δ ERC
4.5.1	State Thermal	4.76	4.84	-1%	4.70	1%	5.17	4.88	6%	4.74	9%
4.5.2	State Hydrel	2.11	2.19	-4%	1.87	13%	1.45	1.64	-12%	1.90	-24%
4.5.3	CGS	6.21	4.27	46%	3.72	67%	5.49	3.94	40%	3.72	48%
4.5.4	Gas	-33.03	3.37	-1080%	6.67	-595%	7.04	2.60	171%	6.93	2%
4.5.5	IPPs	4.59	3.71	24%	3.84	19%	4.29	3.82	12%	3.64	18%
4.5.6	VRE-Wind	4.89	2.42	102%	4.70	4%	4.75	4.18	14%	4.70	1%
4.5.7	VRE-Solar	4.37	3.63	20%	4.60	-5%	4.33	4.05	7%	4.56	-5%
4.5.8	RE-Others	5.60	4.34	29%	5.65	-1%	5.48	4.53	21%	5.65	-3%
4.5.9	Markets	9.20	5.90	56%	4.30	114%	7.91	5.04	57%	4.30	84%
4.5.10	Others	2.27	7.25	-69%	0.00	-	20.17	7.62	165%	0.00	-
4.5.11	Weighted Average	5.29	4.43	19%	4.32	22%	5.14	4.31	19%	4.31	19%

#### 4.6 Fixed Cost per Unit by Source (Rs/kWh)

#	Source	Month					YTD				
		CY	PY	% ↑	ERC	% δ ERC	CY	PY	% ↑	ERC	% δ ERC
4.6.1	State Thermal	1.32	1.44	-8%	1.30	2%	1.67	1.53	9%	1.35	23%
4.6.2	State Hydrel	2.11	2.19	-4%	1.87	13%	1.45	1.64	-12%	1.90	-24%
4.6.3	CGS	2.03	1.28	59%	0.94	116%	1.53	1.15	34%	0.93	64%
4.6.4	Gas	-33.03	0.43	-7780%	4.28	-871%	1.19	0.18	580%	4.55	-74%
4.6.5	IPPs	1.55	1.51	3%	1.18	31%	1.47	1.58	-7%	0.95	55%
4.6.6	Others	2.27	7.25	-69%	0.00	-	20.17	7.62	165%	0.00	-
4.6.7	Average FC	1.23	1.09	13%	0.93	32%	1.09	0.87	26%	0.95	15%

#### 4.7 Variable Cost per Unit by Source (Rs/kWh)

#	Source	Month					YTD				
		CY	PY	% ↑	ERC	% δ ERC	CY	PY	% ↑	ERC	% δ ERC
4.7.1	State Thermal	3.44	3.40	1%	3.40	1%	3.50	3.35	5%	3.38	3%
4.7.2	CGS	4.19	2.99	40%	2.78	51%	3.96	2.79	42%	2.78	42%
4.7.3	Gas	0.00	2.94	-100%	2.39	-100%	5.85	2.42	141%	2.39	145%
4.7.4	IPPs	3.04	2.20	38%	2.66	14%	2.82	2.24	26%	2.69	5%
4.7.5	VRE-Wind	4.89	2.42	102%	4.70	4%	4.75	4.18	14%	4.70	1%
4.7.6	VRE-Solar	4.37	3.63	20%	4.60	-5%	4.33	4.05	7%	4.56	-5%
4.7.7	RE-Others	5.60	4.34	29%	5.65	-1%	5.48	4.53	21%	5.65	-3%
4.7.8	Markets	9.20	5.90	56%	4.30	114%	7.91	5.04	57%	4.30	84%
4.7.9	Others	0.00	0.00	-	0.00	-	0.00	0.00	-	0.00	-
4.7.10	Average VC	4.06	3.34	21%	3.39	20%	4.05	3.45	18%	3.36	21%

#### 4.8 Power Purchase Cost by Voltage Level on Sales basis (Rs Cr)

#	Voltage	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
4.8.1	LT	1744	1336	31%	19826	16550	20%
4.8.2	11KV	261	207	26%	3067	2410	27%
4.8.3	33KV	307	252	22%	3552	2834	25%
4.8.4	EHT	685	488	40%	7171	4844	48%
4.2.11	Power Purchase Cost	2997	2282	31%	33617	26638	26%

#### 4.9 Network Cost by Voltage Level on Sales basis (Rs Cr)

#	Voltage	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
4.9.1	LT	665	534	25%	6742	5984	13%
4.9.2	11KV	100	83	21%	1043	871	20%
4.9.3	33KV	117	101	16%	1208	1025	18%
4.9.4	EHT	261	195	34%	2438	1751	39%
2.20	Network Cost	1143	912	25%	11431	9632	19%

#### 4.10 Retail Supply Cost by Voltage Level on Sales basis (Rs Cr)

#	Voltage	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
4.10.1	LT	19	19	0%	227	226	1%
4.10.2	11KV	3	3	-4%	35	33	7%
4.10.3	33KV	3	4	-7%	41	39	5%
4.10.4	EHT	8	7	7%	82	66	24%
2.23	Retail Supply Cost	33	33	0%	386	364	6%

#### 4.11 Cost of Service by Voltage Level on Sales basis (Rs Cr)

#	Voltage	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
4.11.1	LT	2428	1889	29%	26795	22761	18%
4.11.2	11KV	364	293	24%	4145	3314	25%
4.11.3	33KV	427	356	20%	4801	3898	23%
4.11.4	EHT	954	690	38%	9692	6661	45%
2.24	Cost of Service	4174	3228	29%	45434	36634	24%

#### 4.12 Losses by Voltage (MU)

#	Voltage	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
4.12.1	LT	174	152	14%	1325	1054	26%
4.12.2	11KV	151	138	10%	1387	1358	2%
4.12.3	33KV	160	166	-4%	1646	1879	-12%
4.12.4	EHT	156	150	4%	1676	1688	-1%
4.12.5	Loss	641	606	6%	6033	5979	1%

#### 4.13 Cost of Service by Voltage Level on Purchase Basis (Rs Cr)

#	Voltage	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
4.13.1	LT	2531	1968	29%	27661	23383	18%
4.13.2	11KV	360	290	24%	4123	3304	25%
4.13.3	33KV	406	339	20%	4622	3761	23%
4.13.4	EHT	877	631	39%	9028	6186	46%
2.24	Cost of Service	4174	3228	29%	45434	36634	24%

#### 4.14 Average Cost of Service by Voltage Level (Rs/kWh)

#	Voltage	Month			YTD		
		CY	PY	% ↑	CY	PY	% ↑
4.14.1	LT	7.9	6.8	16%	7.9	6.7	17%
4.14.2	11KV	7.5	6.5	16%	7.6	6.5	17%
4.14.3	33KV	7.2	6.2	16%	7.4	6.3	17%
4.14.4	EHT	7.0	6.0	16%	7.1	6.1	17%
2.38	ACS	7.6	6.6	16%	7.7	6.6	17%

## 5. Receivables

### 5.1 Income Estimates (Rs Cr)

#	Item	Q1	Q2	Q3	Q4	FY23
5.1.1	<b>Subsidy</b>	<b>4057</b>	<b>1066</b>	<b>385</b>	<b>6006</b>	<b>11513</b>
5.1.2	Agriculture Subsidy	3881	740	383	5723	10728
5.1.3	Aquaculture Subsidy	175	325	0	194	695
5.1.4	SC Colonies Subsidy	0	0	0	43	43
5.1.5	ST Thandas Subsidy	0	0	0	9	10
5.1.6	Other Subsidy	0	0	0	37	38
5.1.7	<b>Govt Agencies</b>	<b>586</b>	<b>1413</b>	<b>513</b>	<b>711</b>	<b>3223</b>
5.1.8	Panchayats	59	37	47	159	301
5.1.9	WR Dept	11	648	5	60	724
5.1.10	ULB	79	200	60	184	524
5.1.11	Other Govt Dept	438	527	401	308	1674
5.1.12	<b>Govt serviced debt</b>	<b>260</b>	<b>250</b>	<b>346</b>	<b>216</b>	<b>1073</b>
5.1.13	<b>UDAY Receivables</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1882</b>	<b>1882</b>
5.1.14	<b>Private Customers Receivables</b>	<b>8034</b>	<b>8821</b>	<b>8231</b>	<b>7992</b>	<b>33079</b>
5.1.15	<b>Total</b>	<b>12937</b>	<b>11550</b>	<b>9475</b>	<b>16808</b>	<b>50769</b>
5.1.16	<b>Opex Loans</b>	<b>185</b>	<b>1420</b>	<b>118</b>	<b>102</b>	<b>1825</b>
5.1.17	<b>Capex Loans</b>	<b>43</b>	<b>20</b>	<b>21</b>	<b>15</b>	<b>99</b>

### 5.2 Receivables during Month (Rs Cr)

#	Item	ERC-BE	Demand	Collections		Balance	% ↑	% δ ERC
				CY	PY			
5.2.1	<b>Subsidy</b>	<b>927</b>	<b>884</b>	<b>4281</b>	<b>676</b>	<b>-3396</b>	<b>533%</b>	<b>362%</b>
5.2.2	Agriculture Subsidy	758	758	4166	644	-3408	546%	450%
5.2.3	Aquaculture Subsidy	79	37	115	0	-78	-	44%
5.2.4	SC Colonies Subsidy	43	42	0	24	42	-100%	-100%
5.2.5	ST Thandas Subsidy	9	9	0	8	9	-100%	-100%
5.2.6	Other Subsidy	37	37	0	0	37	-	-100%
5.2.7	<b>Govt Agencies</b>	<b>408</b>	<b>545</b>	<b>142</b>	<b>602</b>	<b>403</b>	<b>-76%</b>	<b>-65%</b>
5.2.8	Panchayats	142	144	6	98	139	-94%	-96%
5.2.9	WR Dept	60	168	0	5	167	-95%	-100%
5.2.10	ULB	156	52	8	355	43	-98%	-95%
5.2.11	Other Govt Dept	50	181	127	145	54	-12%	154%
5.2.12	<b>Govt serviced debt</b>	<b>0</b>	<b>82</b>	<b>80</b>	<b>81</b>	<b>2</b>	<b>-1%</b>	<b>-</b>
5.2.13	<b>UDAY Receivables</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>-</b>	<b>-</b>
5.2.14	<b>Private Customers Receivables</b>	<b>2597</b>	<b>2699</b>	<b>2669</b>	<b>1878</b>	<b>30</b>	<b>42%</b>	<b>3%</b>
5.2.15	<b>Total</b>	<b>3932</b>	<b>4210</b>	<b>7171</b>	<b>3237</b>	<b>-2961</b>	<b>122%</b>	<b>82%</b>
5.2.16	<b>Opex Loans</b>	<b>0</b>	<b>53</b>	<b>53</b>	<b>580</b>	<b>0</b>	<b>-91%</b>	<b>-</b>
5.2.17	<b>Capex Loans</b>	<b>0</b>	<b>6</b>	<b>6</b>	<b>8</b>	<b>0</b>	<b>-29%</b>	<b>-</b>

### 5.3 Receivables YTD (Rs Cr)

#	Item	OB	ERC-BE	Demand	Collections		CB	OD > 180 Days	% ↑	% δ ERC
					CY	PY				
5.3.1	<b>Subsidy</b>	<b>4921</b>	<b>10196</b>	<b>9935</b>	<b>10587</b>	<b>8202</b>	<b>4269</b>	<b>6578</b>	<b>29%</b>	<b>4%</b>
5.3.2	Agriculture Subsidy	2242	8339	8356	9970	7479	629	4016	33%	20%
5.3.3	Aquaculture Subsidy	1683	873	512	616	478	1579	1386	29%	-29%
5.3.4	SC Colonies Subsidy	724	474	510	0	236	1233	777	-100%	-100%
5.3.5	ST Thandas Subsidy	249	102	108	0	8	356	175	-96%	-100%
5.3.6	Other Subsidy	23	409	449	0	0	472	223	-	-100%
5.3.7	<b>Govt Agencies</b>	<b>9261</b>	<b>4483</b>	<b>5390</b>	<b>2815</b>	<b>3400</b>	<b>11836</b>	<b>7904</b>	<b>-17%</b>	<b>-37%</b>
5.3.8	Panchayats	3800	1563	1584	159	1318	5225	3292	-88%	-90%

5.3.9	WR Dept	4725	655	1308	664	112	5369	4001	494%	1%
5.3.10	ULB	245	1714	593	368	717	470	158	-49%	-79%
5.3.11	Other Govt Dept	491	550	1905	1624	1253	772	453	30%	195%
5.3.12	<b>Govt serviced debt</b>	0	0	1198	1073	1107	125	0	-3%	-
5.3.13	<b>UDAY Receivables</b>	0	0	0	1882	0	-1882	0	-	-
5.3.14	<b>Private Customers Receivables</b>	3565	28572	33017	30481	24563	6101	3370	24%	7%
5.3.15	<b>Total</b>	<b>17747</b>	<b>43251</b>	<b>49540</b>	<b>46837</b>	<b>37271</b>	<b>20449</b>	<b>17852</b>	<b>26%</b>	<b>8%</b>
5.3.16	<b>Opex Loans</b>	0	0	635	1825	5778	1189	0	-68%	-
5.3.17	<b>Capex Loans</b>	0	0	99	99	165	0	0	-40%	-

## 6. Payables

### 6.1 Expenditure for FY23 (Rs Cr)

#	Item	Q1	Q2	Q3	Q4	FY23
6.1.1	<b>PP Cost</b>	<b>10259</b>	<b>8791</b>	<b>8660</b>	<b>8856</b>	<b>36566</b>
6.1.2	State Thermal	3147	2706	3302	3427	12582
6.1.3	State Hydel	157	157	157	157	628
6.1.4	CGS	1726	1900	1819	1465	6910
6.1.5	IPPs Gas	76	66	14	34	190
6.1.6	IPPs Thermal	542	641	724	704	2611
6.1.7	VRE- Wind	1033	1561	493	496	3583
6.1.8	VRE- Solar	816	750	749	942	3256
6.1.9	RE-Others	51	55	57	56	218
6.1.10	Market	2573	943	1332	1576	6425
6.1.11	Other	138	13	13	-1	164
6.1.12	Wind @ interim rate	0	0	0	170	170
6.1.13	Solar @ interim rate	0	0	0	355	355
6.1.14	<b>CTU Cost</b>	<b>303</b>	<b>236</b>	<b>476</b>	<b>233</b>	<b>1248</b>
6.1.15	<b>STU Cost</b>	<b>699</b>	<b>674</b>	<b>683</b>	<b>698</b>	<b>2754</b>
6.1.16	<b>Distribution Cost</b>	<b>2027</b>	<b>2254</b>	<b>2242</b>	<b>2472</b>	<b>8995</b>
6.1.17	O&M Cost	1290	1473	1442	1572	5777
6.1.18	HR Cost	1087	1249	1241	1301	4879
6.1.19	A&G Cost	50	63	42	78	233
6.1.20	R&M Cost	153	162	159	193	666
6.1.21	Depreciation	395	430	430	442	1696
6.1.22	ROCE	76	97	108	229	510
6.1.23	Others	267	254	262	229	1012
6.1.24	<b>Cost of Service</b>	<b>13288</b>	<b>11955</b>	<b>12061</b>	<b>12258</b>	<b>49562</b>
7.1.1	Capex Debt service (P+I)	376	394	403	357	1530
7.1.2	Opex Debt service (P+I)	1555	2318	3032	1496	8401

### 6.2 Payables during the Month (Rs Cr)

#	Item	ERC-BE	Payable	Paid		Balance	% ↑	% δ ERC
				CY	PY			
6.2.1	<b>PP Cost</b>	<b>2643</b>	<b>2997</b>	<b>3670</b>	<b>2887</b>	<b>-673</b>	<b>27%</b>	<b>39%</b>
6.2.2	State Thermal	1273	1056	1449	1085	-393	34%	14%
6.2.3	State Hydel	52	52	59	52	-7	13%	13%
6.2.4	CGS	301	621	521	816	100	-36%	73%
6.2.5	IPPs Gas	28	2	0	14	2	-100%	-100%
6.2.6	IPPs Thermal	231	237	362	102	-125	255%	57%
6.2.7	VRE- Wind	167	190	534	8	-344	6575%	220%
6.2.8	VRE- Solar	294	311	193	363	118	-47%	-34%
6.2.9	RE-Others	25	14	16	22	-2	-27%	-35%
6.2.10	Market	273	513	536	425	-23	26%	96%
6.2.11	Other	0	1	0	0	1	-	-100%
6.2.12	Wind @ interim rate	167	0	0	0	0	-	-100%
6.2.13	Solar @ interim rate	294	0	0	0	0	-	-100%
6.2.14	<b>CTU Cost</b>	<b>68</b>	<b>85</b>	<b>144</b>	<b>86</b>	<b>-59</b>	<b>67%</b>	<b>112%</b>
6.2.15	<b>STU Cost</b>	<b>247</b>	<b>233</b>	<b>153</b>	<b>113</b>	<b>80</b>	<b>35%</b>	<b>-38%</b>
6.2.16	<b>Distribution Cost</b>	<b>864</b>	<b>859</b>	<b>612</b>	<b>602</b>	<b>247</b>	<b>2%</b>	<b>-29%</b>
6.2.17	O&M Cost	535	562	562	492	0	14%	5%
6.2.18	HR Cost	429	474	474	422	0	12%	10%
6.2.19	A&G Cost	33	22	22	19	0	15%	-33%
6.2.20	R&M Cost	73	66	66	50	0	31%	-10%
6.2.21	Depreciation	127	169	0	59	0	-100%	-100%
6.2.22	ROCE	162	35	0	0	0	-	-100%
6.2.23	Others	40	93	50	51	43	-3%	26%
6.2.24	<b>Cost of Service</b>	<b>3822</b>	<b>4174</b>	<b>4579</b>	<b>3688</b>	<b>-405</b>	<b>24%</b>	<b>20%</b>
7.2.2	Capex Debt service (P+I)	79	131	131	119	0	10%	67%

7.2.1	Opex Debt service (P+I)	0	915	1625	890	-710	83%	0%
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### 6.3 Payables YTD (Rs Cr)

#	Item	OB	ERC-BE	Payable	Paid		CB	OD > 180 Days	% ↑	% δ ERC
					CY	PY				
6.3.1	<b>PP Cost</b>	<b>11142</b>	<b>28449</b>	<b>33617</b>	<b>38229</b>	<b>29495</b>	<b>6530</b>	<b>2046</b>	<b>30%</b>	<b>34%</b>
6.3.2	State Thermal	1525	13584	11211	15003	13510	-2267	740	11%	10%
6.3.3	State Hydel	77	576	576	642	585	11	113	10%	12%
6.3.4	CGS	1357	3327	6591	8183	7061	-235	34	16%	146%
6.3.5	IPPs Gas	63	298	161	161	300	63	12	-46%	-46%
6.3.6	IPPs Thermal	559	2975	2362	2356	773	565	202	205%	-21%
6.3.7	VRE- Wind	5351	3315	3413	4934	1398	3830	798	253%	49%
6.3.8	VRE- Solar	2053	2917	2901	1207	730	3747	143	65%	-59%
6.3.9	RE-Others	73	255	193	148	169	118	4	-12%	-42%
6.3.10	Market	84	1202	6046	5595	4969	535	0	13%	365%
6.3.11	Other	0	0	164	0	0	164	0	-	-100%
6.3.12	Wind @ interim rate	0	3315	0	0	4	0	0	-100%	-100%
6.3.13	Solar @ interim rate	7	2917	0	1	22	6	0	-96%	-100%
6.3.14	<b>CTU Cost</b>	<b>86</b>	<b>748</b>	<b>1180</b>	<b>1519</b>	<b>1053</b>	<b>-253</b>	<b>0</b>	<b>44%</b>	<b>103%</b>
6.3.15	<b>STU Cost</b>	<b>1995</b>	<b>2717</b>	<b>2507</b>	<b>2193</b>	<b>1757</b>	<b>2309</b>	<b>89</b>	<b>25%</b>	<b>-19%</b>
6.3.16	<b>Distribution Cost</b>	<b>0</b>	<b>9506</b>	<b>8130</b>	<b>6081</b>	<b>6228</b>	<b>2049</b>	<b>0</b>	<b>-2%</b>	<b>-36%</b>
6.3.17	O&M Cost	0	5888	5242	5494	4971	-252	0	11%	-7%
6.3.18	HR Cost	0	4719	4450	4662	4229	-212	0	10%	-1%
6.3.19	A&G Cost	0	361	200	232	223	-32	0	4%	-36%
6.3.20	R&M Cost	0	807	593	600	520	-7	0	15%	-26%
6.3.21	Depreciation	0	1402	1569	0	718	0	0	-100%	-100%
6.3.22	ROCE	0	1780	348	0	0	0	0	-	-100%
6.3.23	Others	0	436	972	587	539	385	0	9%	35%
6.3.24	<b>Cost of Service</b>	<b>13223</b>	<b>41420</b>	<b>45434</b>	<b>48022</b>	<b>38533</b>	<b>10635</b>	<b>2135</b>	<b>25%</b>	<b>16%</b>
7.3.1	Capex Debt service (P+I)	0	864	1451	1485	1350	-34	0	10%	72%
7.3.2	Opex Debt service (P+I)	0	0	8401	9563	10256	-1162	0	-7%	-

## 7. Debt Servicing

### 7.1 Debt Servicing Schedule (Rs Cr)

#	Item	Q1	Q2	Q3	Q4	FY23
7.1.1	ERC allowed-Capex Debt	376	394	403	357	1530
7.1.2	ERC disallowable-Opex Debt	1555	2318	3032	1496	8401
7.1.3	<b>Debt Servicing</b>	1931	2712	3435	1853	9931

### 7.2 Debt Servicing during the month (Rs Cr)

#	Item	ERC-BE	Due	Paid		Over Due	% ↑	% δ ERC
				CY	PY			
7.2.1	ERC allowed-Capex Debt	79	131	131	119	0	10%	67%
7.2.2	ERC disallowable-Opex Debt	0	915	1625	890	-710	83%	0%
7.2.3	<b>Debt Servicing</b>	79	1046	1756	1009	-710	74%	2136%

### 7.3 Debt Servicing YTD (Rs Cr)

#	Item	OB – OD	ERC-BE	Due	Paid		CB – OD	OD > 180 Days	% ↑	% δ ERC
					CY	PY				
7.3.1	ERC allowed-Capex Debt	0	864	1451	1485	1350	-34	0	10%	72%
7.3.2	ERC disallowable-Opex Debt	0	0	8401	9563	10256	-1162	35	-7%	0%
7.3.3	<b>Debt Servicing</b>	0	864	9852	11048	11606	-1196	35	-5%	1179%

### 7.4 Debt Outstanding (Rs Cr)

#	Item	Capex			Opex			Total		
		CB CY	CB PY	% ↑	CB CY	CB PY	% ↑	CB CY	CB PY	% ↑
7.4.1	REC	6219	5273	18%	12439	5831	113%	18658	11104	68%
7.4.2	PFC	1268	681	86%	12774	5123	149%	14042	5804	142%
7.4.3	APPFCL	0	0	-	12027	11667	3%	12027	11667	3%
7.4.4	BANKS	1326	1532	-13%	950	1395	-32%	2276	2927	-22%
7.4.5	IREDA	0	0	-	225	874	-74%	225	874	-74%
7.4.6	ICD	0	0	-	1595	784	104%	1595	784	104%
7.4.7	PTC	0	0	-	49	109	-55%	49	109	-55%
7.4.8	GOAP	9	9	-5%	0	0	-	9	9	-5%
7.4.9	OTHERS	1117	690	62%	2477	4087	-39%	3594	4776	-25%
7.4.10	<b>Debt Outstanding</b>	<b>9939</b>	<b>8184</b>	<b>21%</b>	<b>42536</b>	<b>29870</b>	<b>42%</b>	<b>52475</b>	<b>38055</b>	<b>38%</b>

## Abbreviations and Acronyms

General	
#	Serial Number
%↑(YoY Growth)	$\frac{(\text{Value of given Category in Current Year} - \text{Value in Last Year for given Category}) * 100}{\text{Value in Last Year for given Category}}$
Apr-April, May-May, Jun-June, Jul-July, Aug-August, Sep-September, Oct- October, Nov- November, Dec- December, Jan- January, Feb- February, Mar- March	
FY	Financial Year Ending with March
Mth	Month
YTD	Year to Date
MU	Million Units (10 <sup>6</sup> Units)
Rs Cr	Rupees Crore
KPIs	Key Performance Indicators
KWh	Kilo Watt Hour (1 Unit)
KV	Kilo Volts (10 <sup>3</sup> V)
%δ ERC (Deviation)	$\frac{(\text{Actual Value of given Category in Current Year} - \text{Approved value by APERC for given Category}) * 100}{\text{Approved value by APERC for given Category}}$
Distribution Licensees	Central Power Distribution Corporation of Andhra Pradesh Limited (APCPDCL) Eastern Power Distribution Corporation of Andhra Pradesh Limited (APEPDCL) Southern Power Distribution Corporation of Andhra Pradesh Limited (APSPDCL)
Discoms	Distribution Companies
STU	State Transmission Utility
CTU	Central Transmission Utility
MW	Mega Watt (10 <sup>3</sup> Watt)
APERC	Andhra Pradesh Electricity Regulatory Commission
Rs Lacs	Rupees Lacs
APPCC	Andhra Pradesh Power Coordination Committee
APSLDC	State load Dispatch Centre of Andhra Pradesh
Q1- Quarter-1 (Apr-Jun), Q2- Quarter-2 (Jul-Sep), Q3- Quarter-3 (Oct-Dec), Q4- Quarter-4 (Jan-Mar)	
OD	Over Due
OB	Opening Balance
CB	Closing Balance
BE	Budget Estimate
PY	Past Financial Year
CY	Current Financial Year
Tariff Categories	
Category segregation for previous years are considered as per the categories mentioned in recent APERC Retail Supply Tariff Order irrespective of categories at that period and the sub categories are mentioned as below.	
0-30	LT Domestic Consumers with consumption < 30units in the month
31-75	LT Domestic Consumers with consumption > 30 units and <=75 units in the month
76-125	LT Domestic Consumers with consumption > 75 units and <=125 units in the month
126-225	LT Domestic Consumers with consumption > 125 units and <=225 units in the month
226-400	LT Domestic Consumers with consumption > 225 units and <=400 units in the month
>400	LT Domestic Consumers with consumption > 400units in the month
LT-1	Domestic (LT)
LT-2	Commercial (LT)- Minor (<50kWh), Major (>50kWh), Advertising Hoardings, Function Halls/ Auditorium, Startup Power, Electric Vehicles/Charging Stations
LT-3	Industrial (LT)- General, Poultry Hatcheries & Feed Mixing Plants, Aqua Hatcheries and Feed Mixing Plants, Seasonal Industries, Cottage Industries (<10HP)
LT-4	Institutional (LT)- Utilities (Street Lighting, NTR Sujala Pathakam, CPWS, PWS), General Purpose, Religious Places
LT-5	Agriculture (LT)- Corporate Farming, Non-Corporate Farming, Salt Farming, Horticulture, Flora Culture, Sugarcane Crushing, Aqua Culture and Animal Husbandry, Agro based Cottage Industries
LT-5 A(ii)	Sales incurred for Free Agriculture
HT	High Tension
HT-1	Domestic (HT)- Townships, Colonies, Gated Communities and Villas
HT-2	Commercial (HT)- Major, Function Halls/ Auditoriums, Startup power, Electric Vehicles/ Charging Stations, Green Power
HT-3	Industrial (HT)- General, Poultry Hatcheries & Feed Mixing Plants, Aqua Hatcheries and Feed Mixing Plants, Industrial Colonies, Seasonal Industries, Energy Intensive Industries

HT-4	Institutional (HT)- Utilities (Street Lighting, NTR Sujala Pathakam, CPWS, PWS), General Purpose, Religious Places, Electric Traction
HT-5	Agriculture (HT)-Aqua Culture and Animal Husbandry, Government/Private Lift irrigation
Rescos	Rural Electric Supply Cooperative Societies
Temporary Supply	There is no separate category for temporary supply. However, Temporary supply can be released against each category with respective terms and conditions applicable and it shall be billed at the rate and other conditions specified in this order.
Categories not defined in either HT-Supply or LT-Supply shall be billed at the rates specified in Category - II (A) (ii) Commercial – Major Purchases and Payables	
State Thermal	State Owned Thermal Plants
State Hydel	State owned Hydro Plants
CGS	Central Generating Stations (Central owned Thermal)
Gas	Power plants run on Gas as Fuel (Govt+ Private)
IPPs	Independent Power Producers (Private Thermal- Coal)
VRE	Variable Renewable Energy
RE-Others	RE other than Wind and Solar
Markets	Power Procured from Exchanges and Open Markets
Others	Power procured from any other means other than markets
FC	Fixed Cost
VC	Variable Cost
Wind @ interim rate	Power Purchase Cost of Wind at Interim Rate
Solar @ interim rate	Power Purchase Cost of Solar at Interim Rate
CTU Cost	B=Expenditure for using Central Transmission Network for Transmission of Power
STU Cost	A=Expenditure for using State Transmission Network for Transmission of Power
Distribution Cost	C=Expenditure incurred to Discoms for wheeling of Energy through its Network (D+H+I+J)
O&M Cost	D=Operation and Maintenance Cost (E+F+G)
HR Cost	E=Human Resource Cost
A&G Cost	F=Admin and General Cost
R&M Cost	G=Repairs and Maintenance
Depreciation	H=the value of a fixed asset minus all of the accumulated depreciation that has been recorded against it
ROCE	I=Return on Capital Employed
Others	J=Expenditure for Discoms other than O&M, Depreciation and ROCE
Cost of Service	Power Purchase Cost + CTU Cost + STU Cost+ Distribution Cost
Capex Debt service (P+I)	Expenditure incurred for Capex Debt (Principal + Interest)
Opex Debt service (P+I)	Expenditure incurred for Opex Debt (Principal +Interest)
Receivables Categories	
Subsidy	Receivable from Government Collected for Subsidy Sales
Agriculture Subsidy	Subsidy given for Agriculture Consumption
Aquaculture Subsidy	Subsidy given for Aquaculture Consumption
SC Colonies Subsidy	Subsidy given for SC Colonies Consumption
ST Thandas Subsidy	Subsidy given for ST Colonies Consumption
Other Subsidy	Subsidy given for any other Consumption
Govt Agencies	Receivable from Government Utilities
Panchayats	Receivable from Panchayats
WR Dept	Water Resources Department
ULB	Urban Local Bodies
Other Govt Dept	Receivables from other Gov Agencies
Govt serviced debt	Debt in books of the Discoms but servicing is being met by releases from Govt due to commitments in Uday or APPFCL loans
UDAY Receivables	Ujjwal DISCOM Assurance Yojana-Financial turnaround and revival package for electricity distribution companies of India initiated by the Government of India
Private Customers Receivables	Receivables Collected from Sales Consumed by Private users

Total	Total receivables
Opex Loans	Receivables as part of Opex Loans
Capex Loans	Receivables as part of Capex Loans
REC	Loans taken from Rural Electrification Corporation Limited
PFC	Loans taken from Power Finance Corporation Ltd.
APPFCL	Loans taken from Andhra Pradesh Power Finance Corporation Limited
BANKS	Loans taken from banks
IREDA	Loans taken from Indian Renewable Energy Development Agency Limited
ICD	Loans taken from Interest on Consumer Deposit
PTC	Loans taken from Power Trading Corporation of India Limited
GOAP	Loans taken from Government of Andhra Pradesh
OTHERS	Loans taken from any other sources

## Glossary

### 1. Sales

Energy (MU)		
1.01	Metered Sales	Discom Sales-Agricultural Consumption (Unmetered)
3.1.12	AgI Consumption	Refer 3.1.12
3.1.22	Discom Sales	<b>D</b> =Refer 3.1.22
1.02	Private Sales	Sales against Pvt connections
1.03	Government Sales	Sales against Govt connections
1.04	Government Subsidy	Sales against Subsidy connections
Collection (Rs Cr)		
1.05	Opening Debtors	<b>G</b> = Opening debtors for sale of Energy as shown in Receivable Schedule. Unbilled Revenue shall not be considered as Debtors
5.2.14	Pvt Sales	Refer 5.2.14
5.2.7	Gov Sales	Refer 5.2.7
5.2.1	Gov Subsidy	Refer 5.2.1
1.06	Others	Collections from any other category provided above
5.2.15	Discom Collections	Refer 5.2.15
1.07	Metered Sales	Collections from Metered Sales
3.3.12	AgI Consumption	Collection Received against LT-V A(ii)
1.08	Revenue from Sale	<b>E</b> = Revenue from Sale of Energy to all categories of consumers (including Subsidy Booked) but excluding Revenue from Energy Traded /Inter-State Sales.
1.09	Adj Revenue from Sale	<b>F</b> = Revenue from Sale of Energy (same as E above) minus Subsidy Booked plus Subsidy Received against subsidy booked during the year
1.10	Closing Debtors	<b>H</b> = i) Closing debtors for Sale of Energy as shown in Receivable Schedule (Without deducting provisions for doubtful debts). Unbilled Revenue shall not be considered as Debtors. ii) Any amount written off during the year directly from(i)
1.11	Adj Closing Debtors	<b>I</b> =H(i+ii)
Key Performance Indicators		
3.5.22	ARR	Refer 3.5
3.6.22	AMC	Refer 3.6
3.7.22	ACPB	Refer 3.7

Note:

1. Bills (Nos), Energy related data (MU) is obtained on Consumption basis provided by Distribution licensees of Andhra Pradesh
2. Collection related data (Rs Cr) is obtained on Billing basis provided by Distribution licensees of Andhra Pradesh
3. Billing Cycle: CPDCL - 1-15 of Every Month; EPDCL - 4-21 of Every Month; SPDCL - 1-12 of Every Month

### 2. Purchases

Power Purchase		
3.1.22	Discom Sales	<b>D</b> =Refer 3.1.22
2.01	Discom Losses	Loss Incurred at Voltage <= 33KV
2.02	Discom Input	<b>C</b> =Input at Discom Periphery
2.03	Transmission Loss	<b>B</b> = Loss Incurred at Voltage >33KV
4.1.11	Discom Purchases	<b>A</b> =Refer 4.1.11
4.2.11	Power Purchase Cost	Refer 4.2.11
Contracted Network Capacity (MW)		
2.04	STU	Contracted Capacity of State Transmission Utility
2.05	CTU	Contracted Capacity of Central Transmission Utility
2.06	Distribution	Contracted Capacity of Distribution Network
Capacity Charges		
2.07	STU Charges	$\frac{\text{STU Cost (Rs Cr)} \times 100}{\text{Total STU Capacity Contracted by Discoms (MW)}} \text{ (Rs Lacs/MW/Month)}$
2.08	CTU Charges	$\frac{\text{CTU Cost (Rs Cr)} \times 100}{\text{Total CTU Capacity Contracted by Discoms (MW)}} \text{ (Rs Lacs/MW/Month)}$
2.09	Distribution Charges	$\frac{\text{Distribution Network Cost (Rs Cr)} \times 100}{\text{Total Distribution Capacity Contracted by Discoms (MW)}} \text{ (Rs Lacs/MW/Month)}$
Network Cost (Rs Cr)		
2.10	STU Cost	<b>a</b> =Expenditure for using State Transmission Network for Transmission of Power
2.11	CTU Cost	<b>b</b> =Expenditure for using Central Transmission Network for Transmission
2.12	Distribution Network Cost	<b>c</b> =Expenditure incurred to Discoms for wheeling of Energy through its Network (d+h+i+j)

2.13	O&M Cost	<b>d</b> =Operation and Maintenance Cost (e+f+g)
2.14	HR Cost	<b>e</b> =Human Resource Cost
2.15	A&G Cost	<b>f</b> =Admin and General Cost
2.16	R & M Cost	<b>g</b> =Repairs and Maintenance
2.17	Depreciation	<b>h</b> = value of a fixed asset minus all of the accumulated depreciation that has been recorded against it
2.18	ROCE	<b>i</b> =Return on Capital Employed
2.19	Others	<b>j</b> =Any other Cost
2.20	Network Cost	CTU Cost + STU Cost + Distribution Cost
<b>Retail Supply Cost (Rs Cr)</b>		
2.21	B&C Cost and Supply Margin	<b>k</b> =Billing and Collection Cost and Supply Gain Margin
2.22	Interest on Security Deposits	<b>l</b> =interest on security deposit collected from the consumers
2.23	Retail Supply Cost	k+l
<b>Cost of Service (Rs Cr)</b>		
2.24	Cost of Service	Power Purchase Cost + Network Cost +Retail Supply Cost
7.2.2	ERC Disallowed Debt Service	Refer 7.2.2
<b>KPIs on Purchase basis</b>		
4.5.11	Energy Cost on Purchase Basis	Refer 4.5.11
2.25	STU Cost per Unit	$\frac{\text{STU Cost(Rs Cr)} \times 10}{\text{Discom Purchase(MU)}} \text{ (Rs /kWh)}$
2.26	CTU Cost per Unit	$\frac{\text{CTU Cost(Rs Cr)} \times 10}{\text{Discom Purchase(MU)}} \text{ (Rs /kWh)}$
2.27	CTU Cost Per Unit on CGS purchases	$\frac{\text{CTU Cost(Rs Cr)} \times 10}{\text{CGS Purchases by Discom(MU)}} \text{ (Rs /kWh)}$
2.28	Distribution Network Cost per Unit	$\frac{\text{Distribution Network Cost(Rs Cr)} \times 10}{\text{Discom Purchase(MU)}} \text{ (Rs /kWh)}$
2.29	Network Cost per Unit	$\frac{\text{Total Network Cost(Rs Cr)} \times 10}{\text{Discom Purchase(MU)}} \text{ (Rs /kWh)}$
2.30	Retail Supply Cost per Unit	$\frac{\text{Total Supply Cost(Rs Cr)} \times 10}{\text{Discom Purchase(MU)}} \text{ (Rs /kWh)}$
2.31	Cost of Service per Unit	$\frac{\text{Cost of Service(Rs Cr)} \times 10}{\text{Discom Purchase(MU)}} \text{ (Rs /kWh)}$
<b>KPIs on Sales basis</b>		
2.32	Energy Cost on Sales Basis	$\frac{\text{Power Purchase Cost(Rs Cr)} \times 10}{\text{Discom Sales(MU)}} \text{ (Rs /kWh)}$
2.33	STU Cost per Unit	$\frac{\text{STU Cost(Rs Cr)} \times 10}{\text{Discom Sales(MU)}} \text{ (Rs /kWh)}$
2.34	CTU Cost per Unit	$\frac{\text{CTU Cost(Rs Cr)} \times 10}{\text{Discom Sales(MU)}} \text{ (Rs /kWh)}$
2.35	Distribution Network Cost per Unit	$\frac{\text{Distribution Network Cost(Rs Cr)} \times 10}{\text{Discom Sales(MU)}} \text{ (Rs /kWh)}$
2.36	Network Cost per Unit	$\frac{\text{Total Network Cost(Rs Cr)} \times 10}{\text{Discom Sales(MU)}} \text{ (Rs /kWh)}$
2.37	Retail Supply Cost per Unit	$\frac{\text{Total Supply Cost(Rs Cr)} \times 10}{\text{Discom Sales(MU)}} \text{ (Rs /kWh)}$
2.38	ACS	$\frac{\text{Cost of Service(Rs. Cr)} \times 10}{\text{Discom Sales(MU)}} \text{ (Rs /kWh)}$
2.39	ERC Disallowed Debt Service per Unit	$\frac{\text{ERC Disallowed Debt Service(Rs. Cr)} \times 10}{\text{Discom Sales(MU)}} \text{ (Rs /kWh)}$
<b>AT&amp;C Losses</b>		
2.40	Collection $\eta$	$J = (F+G-I)/E * 100$
2.41	Units Realized	$K = D * J / 100$
2.42	Units Unrealized	$L = C - K$
2.43	AT&C Losses	<b>M</b> =Aggregate Technical and Commercial Loss =L/C *100
<b>ARR-ACS GAP</b>		
2.44	GAP	=ARR-ACS

Note:

1. Power Purchase Cost (Rs Cr) is obtained from APPCC

### 3. Sales by Categories

3.1 Energy Sales by Category (MU) – Consumption Recorded during the Month segregated by Consumer Category

3.2 Energy Sales by Voltage (MU) – Consumption Recorded during the Month segregated by Voltage

3.3 Collection by Category (Rs Cr) – Collection Received during the Month segregated by Consumer Category

3.4 Bills by Category (Rs Cr)- Bills Generated during the Month segregated by Consumer Category

3.5 Average Revenue Realized by Category (Rs/kWh) =  $\frac{\text{Revenue Collected during the period(Rs.Cr)} \times 10}{\text{Consumption During in the Month(MU)}}$

3.6 Average Monthly Consumption by Category (kWh/bill/Mth) =  $\frac{\text{Consumption During in the Month(MU)} \times 10^6}{\text{Bills generated in the Month (Nos)}}$

3.7 Average Collection per bill by Category (Rs/bill/Mth) =  $\frac{\text{Revenue Collected in the Month (Rs.Cr)} \times 10^7}{\text{Total Number of bills Generated in a Month (Nos)}}$

## 4. Expenditure by Category

4.1 Energy Purchased by Source (MU) – Energy Purchased during the Month segregated by Source

4.2 Power Purchase Cost by Source (Rs Cr) – Expenditure Incurred for Energy Purchase during the month segregated by Source

4.3 Fixed Cost by Source (Rs Cr)- Expenditure Incurred towards Fixed Cost in Energy Purchase during the month segregated by Source

4.4 Variable Cost by Source (Rs Cr) - Expenditure Incurred towards Variable Cost in Energy Purchase during the month segregated by Source

4.5 Average Energy Cost per Unit by Source (Rs/kWh) =  $\frac{\text{Power Purchase Cost during the month (Rs Cr)} \times 10}{\text{Energy Purchased during the Month(MU)}}$

4.6 Fixed Cost per Unit by Source (Rs/kWh) =  $\frac{\text{Fixed Cost during the month (Rs Cr)} \times 10}{\text{Energy Purchased during the month(MU)}}$

4.7 Variable Cost per Unit by Source (Rs/kWh) =  $\frac{\text{Variable Cost during the month (Rs Cr)} \times 10}{\text{Energy Purchased during the month(MU)}}$

4.8 Power Purchase Cost by Voltage Level on Sales basis (Rs Cr) =  $\frac{\text{Power Purchase Cost(Rs Cr)} \times \text{Discom Sales at Specified Voltage(MU)}}{\text{Discom Sales(MU)}}$

4.9 Network Cost by Voltage Level on Sales basis (Rs Cr) =  $\frac{\text{Network Cost(Rs Cr)} \times \text{Discom Sales at Specified Voltage(MU)}}{\text{Discom Sales(MU)}}$

4.10 Retail Supply Cost by Voltage Level on Sales basis (Rs Cr) =  $\frac{\text{Retail Supply Cost(Rs Cr)} \times \text{Discom Sales at Specified Voltage(MU)}}{\text{Discom Sales(MU)}}$

4.11 Cost of Service by Voltage Level on Sales basis (Rs Cr) =  $\frac{\text{Cost of Service(Rs Cr)} \times \text{Discom Sales at Specified Voltage(MU)}}{\text{Discom Sales(MU)}}$

4.12 Losses by Voltage Level (MU)- Transmission & Distribution losses segregated by Voltage

4.13 Cost of Service by Voltage Level on Purchase basis (Rs Cr) =  $\frac{\text{Cost of Service(Rs Cr)} \times \text{Energy Purchased against sales by Voltage (MU)}}{\text{Energy Purchased(MU)}}$

Where, Energy Purchased against sales by Voltage (MU)= (Sales at Voltage Level+ Portion of net T&D losses due to Sales at that voltage level)

4.14 Average Cost of Service by Voltage Level (Rs/kWh) =  $\frac{\text{Cost of Service by voltage level on Purchase Basis at specified voltage (Rs Cr)} \times 10}{\text{Sales at Same Voltage Level(MU)}}$

Note:

1. ERC data is taken from Tariff order published by APERC in the respective year
2. Data related to CGS-Solar is included in VRE Solar

## 5. Receivables

5.1 Income Estimates (Rs Cr)- Actuals till reporting month and Estimates for rest of the period

5.2 Receivables during Month (Rs Cr)- Receivables for given Category in Current Month

5.3 Receivables YTD (Rs Cr)- Receivables for given Category in Current financial year (Apr-Mar)

1. Receivables are obtained from APPCC

## 6. Payables

6.1 Expenditure for FY22 (Rs Cr)- Actuals till reporting month and Estimates for rest of the period

6.2 Payables during Month (Rs Cr)- Payments made during the period

6.3 Payables YTD (Rs Cr)- Payables made during given period

1. Payables data is obtained from APPCC
2. Data related to CGS -Solar is included in VRE Solar

## **7. Debt Servicing**

7.1 Debt Servicing Schedule (Rs Cr)- Actuals till reporting month and Estimates for rest of the period

7.2 Debt Servicing during the month (Rs Cr)- Dues paid made during the period

7.3 Debt Servicing YTD (Rs Cr)- Dues paid made during the year

7.4 Debt Outstanding (Rs Cr)- Debt Outstanding as on 31<sup>st</sup> March of Specified Year

1. Debt servicing data is obtained from APPCC