

As on 01.04.2005

TRACTION

DISTRIBUTION

DATA BOOK

DETAILS OF ANNEXURES

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DETAILS
OF
ENERGY CHARGES
(TRACTION)
PAID

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DETAILS OF ENERGY CHARGES (TRACTION)

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INDIAN RAILWAYS**DETAILS OF ENERGY CHARGES (TRACTION) PAID BY RAILWAY**

Year	Total energy bill paid in Cr Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in Lakhs Rs.	Total excess M.D. sur-charge in Lakhs Rs.	Total excess energy consumed charge in Lakhs Rs	Total excess FCA sur-charge in Lakhs Rs.	Total delayed payment sur-charge in Lakhs Rs.	Total sur-charge in Lakhs Rs.	Average cost of energy in Rs./ KWH	Percentage of total sur-charge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
70-71	NA	NA	NA	NA	NA	NA	NA	NA	0.12	NA
75-76	NA	NA	NA	NA	NA	NA	NA	NA	0.20	NA
80-81	NA	NA	NA	NA	NA	NA	NA	NA	0.35	NA
85-86	309	2470	331	237	15	-	-	583	0.79	1.93
90-91	635	4323	1183	468	572	15	5	2245	1.47	3.53
95-96	1835	6313	691	1011	3232	112	13	5061	2.90	2.75
96-97	2269	6599	443	1483	3644	181	4	5757	3.43	2.53
97-98	2753	7137	228	2114	5477	310	0.9	8131	3.85	2.95
98-99	2921	7299	180	1931	5893	444	3	8454	4.00	2.89
99-00	3163	7660	318	1549	3052	355	8	5283	4.13	1.67
00-01	3389	7913	598	1167	1480	227	3	3476	4.28	1.02
01-02	3568	8342	1146	1216	2374	478	-	5214	4.27	1.46
02-03	3854	8994	1052	1261	2345	415	-	5073	4.28	1.31
03-04	4053	9476	873	1199	754	60	6	2893	4.28	0.71
04-05	4266	10132	404	1115	718	51	0	2289	4.21	0.54

**RAILWAY WISE DETAILS OF ENERGY CHARGES (TRACTION) PAID BY RAILWAY
FOR THE YEAR 2002-2003**

Rly.	Total energy bill paid in million Rs.	Total energy consumed in million Kwh	Total low power factor surcharge in million Rs.	Total excess M.D. surcharge in million Rs.	Total excess energy consumed charge in million Rs.	Total excess FCA surcharge in million Rs.	Total delayed payment surcharge in million Rs.	Total surcharge in million Rs.	Average cost of energy in Rs./Kwh	Percentage of total surcharge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
CR	9985.31	2299.36	50.05	30.93	99.39	20.90	0	201.27	4.34	2.02
ER	3415.63	853.68	1.04	25.02	17.36	0	0	43.42	4.01	1.27
NR	4173.97	1130.06	0.09	0.57	0	0	0	0.66	3.69	0.01
SR	2440.48	604.08	0	18.77	0	0	0	18.77	4.04	0.77
SCR	4004.52	873.08	0	0	0	0	0	0	4.59	0
SER	7663.12	1675.53	47.20	40.70	110.98	20.28	0	219.16	4.57	2.85
WR	5649.49	1262.26	1.84	1.21	1.24	0.35	0	4.64	4.47	0.08
ECR*	1211.85	296.22	5.01	8.86	5.54	0	0	19.41	4.09	1.60
Total	38544.37	8994.27	105.23	126.06	234.51	41.30	0	507.33	4.28	1.31

*W.E.F.1.10.2002

RAILWAY WISE DETAILS OF ENERGY CHARGES (TRACTION) PAID BY RAILWAY FOR THE YEAR
2002-2003 vis-à-vis 2001-2002

Rly.	Total energy bill paid in crore Rs.		Total energy consumed in million Kwh		Total low power factor surcharge in lakh Rs.		Total excess M.D. surcharge in lakh Rs.		Total excess energy consumed charge in lakh Rs.		Total excess FCA surcharge in lakh Rs.		Total delayed payment surcharge in lakh Rs.		Total surcharge in lakh Rs.		Average cost of energy in Rs./Kwh		Percentage of total surcharge to total bill paid	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	2002-03	2001-2002	2002-03	2001-2002	2002-03	2001-2002	2002-03	2001-2002	2002-03	2001-2002	2002-03	2001-2002	2002-03	2001-2002	2002-03	2001-2002	2002-03	2001-2002	2002-03	2001-2002
CR	998	909	2299	2117	500	357	309	251	993	708	209	173	-	-	2012	1489	4.34	4.29	2.02	1.64
ER	341	439	853	1074	10	52	250	309	173	301	0	-	0	-	434	662	4.01	4.08	1.27	1.51
NR	417	419	1130	1096	9	21	5	13	0	-	0	-	0	-	6	34	3.69	3.83	0.01	0.09
SR	244	241	604	596	0	-	187	109	0	-	0	-	0	-	187	109	4.04	4.04	0.77	0.45
SCR	400	342	873	800	0	-	0	-	0	-	0	-	0	-	0	-	4.59	4.27	0	-
SER	766	677	1675	1457	472	438	407	506	1109	1365	202	305	0	-	2191	2614	4.57	4.66	2.85	3.85
WR	565	540	1262	1202	18	278	12	28	12	1	3	-	0	-	46	307	4.47	4.49	0.08	0.56
ECR*	121		296		50		88		55		0		0		194		4.09		1.60	
Total	3854	3568	8994	8342	1052	1146	1260	1216	2345	2375	413	478	0	-	5073	5215	4.28	4.27	1.31	1.46

*W.E.F. 1.10.2002.

CENTRAL RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total excess FCA sur-charge in lakh Rs.	Total delayed payment sur-charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./KWH	Percentage of total sur-charge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
85-86	52	469	0.2	30	1.5	-	0.3	32	0.90	0.62
90-91	129	895	228	159	70	15	1	474	1.44	3.66
95-96	507	1635	179	436	1590	112	7	2326	3.10	4.58
96-97	623	1668	82	447	1276	181	-	1987	3.73	3.18
97-98	711	1775	67	424	1678	310	-	2481	4.01	3.48
98-99	780	1889	133	544	2177	4444	1	3301	4.13	4.23
99-00	859	2037	243	334	1233	355	5	2172	4.22	2.53
00-01	852	1962	286	175	527	118	-	1108	4.34	1.30
01-02	909	2117	357	251	708	173	-	1489	4.29	1.64
02-03	998	2299	500	309	993	209	0	2012	4.34	2.02
03-04	578	1412	275	29	101	0	5	410	4.09	0.71
04-05	577	1468	138	9	38	0	0	185	3.93	0.32

EASTERN RAILWAYDETAILS OF ENERGY CHARGES (TRACTION)

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor surcharge in lakh Rs.	Total excess M.D. surcharge in lakh Rs.	Total excess energy consumed charge in lakh Rs.	Total excess FCA surcharge in lakh Rs.	Total delayed payment surcharge in lakh Rs.	Total surcharge in lakh Rs.	Average cost of energy in Rs./KWH	Percentage of total surcharge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
85-86	61	480	56	-	-	-	-	56	0.99	1.17
89-90	82	694	81	24	193	-	-	299	1.31	4.26
90-91	96	705	57	24	174	-	-	255	1.36	2.65
95-96	194	797	168	12	122	-	-	303	2.44	1.56
96-97	213	813	50	15	200	-	-	266	2.62	1.24
97-98	299	924	68	62	318	-	-	449	3.24	1.50
98-99	304	938	16	99	343	-	-	458	3.24	1.507
99-00	306	872	71	83	405	-	-	560	3.51	1.83
00-01	382	972	80	280	484	-	-	844	3.93	2.21
01-02	439	1074	52	309	301	-	-	662	4.08	1.51
02-03	341	853	10	250	173	-	-	434	4.01	1.27
03-04	234	587	0	87	0	0	0	87	3.98	0.37
04-05	235	597	4	78	0	0	0	82	3.94	0.35

NORTHERN RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total excess FCA sur-charge in lakh Rs.	Total delayed payment sur-charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./ KWH	Percentage of total sur-charge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
85-86	54	417	74	30	-	-	-	104	0.76	2.49
90-91	84	582	105	0.1	-	-	-	105	1.45	1.24
95-96	246	758	0.5	-	-	-	-	0.5	3.25	0.0022
96-97	306	854	13	214	-	-	-	228	3.58	0.746
97-98	366	885	-	332	-	-	-	332	4.13	0.91
98-99	414	916	-	95	-	-	-	95	4.52	0.23
99-00	422	1015	12	337	-	-	-	349	4.16	0.83
00-01	425	1016	15	14	-	-	-	29	4.18	0.06
01-02	419	1096	21	12	-	-	-	33	3.83	0.09
02-03	417	1130	9	5	0	0	0	6	3.69	0.01
03-04	167	394	0	127	0	0	0	127	4.25	0.76
04-05	192	457	23	25	0	0	0	48	4.20	0.25

SOUTHERN RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total Excess FCA sur-charge in lakh Rs.	Total delayed payment sur-charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./KWH	Percentage of total sur-charge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
85-86	17	170	77	149	-	-	-	226	0.94	13.32
90-91	41	292	0.3	49	-	-	1	51	1.41	1.23
95-96	136	485	2	53	-	-	-	55	2.81	0.40
96-97	155	522	21	68	-	-	-	89	2.97	0.57
97-98	188	545	-	45	-	-	0.9	46	3.45	0.245
98-99	197	538	-	65	-	-	0.7	66	3.68	0.336
99-00	214	552	-	123	-	-	0.7	124	3.89	0.58
00-01	241	600	-	303	-	-	-	303	4.02	1.26
01-02	241	596	-	109	-	-	-	109	4.04	0.45
02-03	244	604	0	187	-	-	-	187	4.04	0.77
03-04	282	615	0	250	-	-	-	250	4.59	0.89
04-05	284	618	0	283	0	0	0	283	4.59	1.00

SOUTH CENTRAL RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total excess FCA sur-charge in lakh Rs.	Total delayed payment sur-charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./ KWH	Percentage of total sur-charge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
85-86	14	98	14	4	-	-	-	18	0.72	1.82
90-91	46	309	9	28	115	-	-	153	1.51	3.28
95-96	140	560	-	-	-	-	-	-	2.50	-
96-97	190	588	15	-	-	-	-	15	3.24	0.079
97-98	281	742	63	-	-	-	-	63	3.78	0.23
98-99	281	723	-	-	-	-	-	-	3.90	-
99-00	321	754	-	-	-	-	-	-	4.26	-
00-01	351	777	-	-	-	-	-	-	4.52	-
01-02	342	800	-	-	-	-	-	-	4.27	-
02-03	400	873	-	-	-	-	-	-	4.59	-
03-04	410	913	-	-	-	-	-	-	4.49	-
04-05	419	949	0	0	0	0	0	0	4.42	0

SOUTH EASTERN RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total excess FCA sur-charge in lakh Rs.	Total delayed payment sur charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./KWH	Percentage of total surcharge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
85-86	64	557	108	23	13	1	-	145	0.87	2.61
90-91	135	797	588	87	72	-	2	750	1.70	5.52
95-96	333	1076	225	396	1286	-	-	1908	3.10	5.71
96-97	427	1117	239	596	1957	-	4	2797	3.82	6.54
97-98	504	1189	20	1074	3235	-	-	4329	4.24	8.57
98-99	525	1199	21	1022	3285	-	-	4329	4.38	8.238
99-00	574	1303	(-) 20	515	1302	-	-	1796	4.4	3.13
00-01	618	1423	144	268	426	97	-	935	4.34	1.51
01-02	677	1457	438	506	1365	305	-	2614	4.66	3.85
02-03	766	1675	472	407	1109	202	-	2191	4.57	2.85
03-04	332	749	9	110	-	-	-	119	4.43	0.36
04-05	349	808	-144	46	39	0	0	-58	4.33	-0.17

WESTERN RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. Sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total excess FCA sur charge in lakh Rs.	Total delayed payment sur-charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./ KWH	Percentage of total surcharge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
85-86	38	276	1	-	-	-	-	1	0.73	0
90-91	100	740	194	120	140	-	0.5	455	1.35	4.52
95-96	275	997	114	112	232	-	5	465	2.76	1.68
96-97	353	1033	21	140	210	-	0.2	373	3.42	1.05
97-98	401	1074	9	175	243	-	-	428	3.74	1.07
98-99	416	1094	10	104	87	-	1	203	3.8	0.487
99-00	465	1125	11	155	112	-	1	280	4.13	0.6
00-01	517	1159	72	126	42	11	3	255	4.46	0.49
01-02	540	1202	278	28	1	-	-	307	4.49	0.56
02-03	565	1262	18	12	12	3	-	46	4.47	0.08
03-04	455	998	-12	48	-	-	1	37	4.56	0.08
04-05	489	108	-92	72	0	0	0	-20	4.49	-0.04

EAST CENTRAL RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor surcharge in lakh Rs.	Total excess M.D. Surcharge in lakh Rs.	Total excess energy consumed charge in lakh Rs.	Total excess FCA surcharge in lakh Rs.	Total delayed payment surcharge in lakh Rs.	Total surcharge in lakh Rs.	Average cost of energy in Rs./ KWH	Percentage of total surcharge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
02-03*	121	296	50	88	55	0	0	194	4.09	1.60
03-04	291	664	229	321	80	0	0	630	4.38	2.16
04-05	327	743	299	408	57	0	0	764	4.40	2.33

*W.E.F.1.10.2002.

EAST COAST RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. Sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total excess FCA sur charge in lakh Rs.	Total delayed payment sur-charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./ KWH	Percentage of total surcharge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
03-04	182	407	98	70	35	8	0	212	4.46	1.16
04-05	183	417	25	15	27	17	0	84	4.38	0.46

NORTH CENTRAL RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. Sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total excess FCA sur charge in lakh Rs.	Total delayed payment sur-charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./ KWH	Percentage of total surcharge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
03-04	462	1273	0	30	0	0	1	31	3.62	0.06
04-05	513	1408	2	73	32	0	0	107	3.64	0.21

SOUTH EAST CENTRAL RAILWAY

DETAILS OF ENERGY CHARGES (TRACTION)

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. Sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total excess FCA sur charge in lakh Rs.	Total delayed pay ment sur-charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./ KWH	Percentage of total surcharge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
03-04	298	656	154	54	260	52	0	520	4.63	1.75
04-05	316	726	65	37	138	33	0	273	4.36	0.86

SOUTH WEST RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. Sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total excess FCA sur charge in lakh Rs.	Total delayed payment sur-charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./ KWH	Percentage of total surcharge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
03-04	22	46	0	9	0	0	0	9	4.70	0.43
04-05	23	48	0	0	0	0	0	0	4.82	0

WEST CENTRAL RAILWAY**DETAILS OF ENERGY CHARGES (TRACTION)**

Year	Total energy bill paid in crore Rs.	Total energy consumed in million kWh	Total low power factor sur-charge in lakh Rs.	Total excess M.D. Sur-charge in lakh Rs.	Total excess energy consumed charge in lakh Rs	Total excess FCA sur charge in lakh Rs.	Total delayed payment sur-charge in lakh Rs.	Total sur-charge in lakh Rs	Average cost of energy in Rs./ KWH	Percentage of total surcharge to total bill paid
1	2	3	4	5	6	7	8	9	10	11
03-04	341	759	120	62	278	0	0	460	4.39	5.09
04-05	355	797	83	69	387	0	0	539	4.45	1.52

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DETAILS OF TRACTION SUB-STATION

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DETAILS
OF
TRACTION SUB-STATION
AC SECTION

