

ANNUAL STATISTICAL BULLETIN

Front Cover :- Graph Showing the Trend of Exchange Capacity, Main Lines &
Waiting Subscription for the Years 1987-1993 E.F.Y.

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FOREWORD

The 1993 E.F.Y. Statistical Bulletin of ETC, which is the 36th issue of its kind, is prepared and presented herewith for reference. The Bulletin contains quantitative information on the main activities of the Corporation and is designed to serve as a convenient volume for statistical reference and as a guide for future planning.

In this Statistical Bulletin, statistical summaries, charts and graphs have been presented depicting ETC's operational performance of the year under review and previous years. The major part of this Statistical Bulletin includes Subscription, Traffic, Personnel and Finance. Regarding the recent ups and downs of these statistics, an explanatory note is given on the next pages.

Finally, extending its utmost gratitude to all offices that have contributed data to this publication the Strategic Planning Division welcomes comments and suggestions to improve subsequent issues.

Kebede G/Selassie

**Strategic Planning Division
Manager**

Introduction

I. General

Public telephone service in Ethiopia is provided by the Ethiopian Telecommunications Corporation (ETC), which is an autonomous state owned operating entity.

In satisfying the demands of its customers, the corporation is now in a continuous effort for both quantitative and qualitative enhancement of its facilities. Hence, it plays a decisive role in the social and economic constructions of the country.

II Domestic Services

A. Public Stations

ETC provides national and international telecommunications services, using communication media of Satellite, Microwave, Digital Radio Multi-access System (DRMASS), VSAT, UHF, VHF, Long Line and HF Radio. As far as growth of public stations is concerned, the opening of 44 new stations brings up the total number of telephone stations to 650, out of which 93 are serving by using 129 Digital and Analog Automatic Telephone Exchanges, 201 by Pay Stations & Rural Radio Communication (RRC) and the remaining 356 are manual exchanges, most of which are provided with semi-automatic facilities as the operators at those manual exchanges are enabled for automatic dialing.

B. Subscription

In the fiscal year 1993 the total installed exchange capacity has reached 511,474, which has shown a 11.62 % increase over that of the previous year. Of the total capacity, digital accounts for 80.30% and the remaining 15.64% and 4.06% are Analog Automatic and Manual exchange lines respectively. It is normal and expected to note that the digital technology is replacing both analog and manual technologies.

The exchange capacity exceeds the waiting list by large as the unsatisfied demand by the end of fiscal year is 155,208. On the other hand, comparing with last year, the waiting list has shown a decrease of 21.17%.

This is a consequence of mainly two reasons; the measure taken by the corporation to verify the unreliable data on waiting list that is accumulated for many years on one hand, and the increase in sales performance of the year that exceeds the new applicants for telephone during the year on the other hand.

During the fiscal year 1993, the telephone subscription under all categories i.e., residential, business, government and others reached 283,683 revealing a 22.305 % growth over that of previous year.

By the end of the year, the number of Internet subscriber is 4,073 which has a growth of 65.5% over that of last year /2,461/, where as the number of Mobile subscribers reached 27,532, showing a growth rate of 55.31 % over that of last year /. On the other hand, both telegram and telex services have a straight decrease due mainly to their backward technologies, outshined by latest, faster, less costly and less laborious innovations such as the Telefax, Internet and Data.

The country's Telecom Penetration (Teledensity or number of telephone subscribers per 100 inhabitants) has increased from 0.37 /1992 E.F.Y/ to 0.43 in the fiscal year 1993. In spite of the higher effort and better performance in both sales and installation of telephone, the growth in value of this parameter is highly affected by the size and growth of the country population.

C. Traffic

For the last two consecutive years a boost on metered calls has been observed, making a difference of hundreds of millions. This high traffic growth in the metered telephone traffic is attributable to the aggressive action taken by the corporation in installing a number of high and low capacity digital exchanges in a number of towns of the country for one of the following reasons: - to replace the existing manual systems, or to replace the already existing analog by digital ones, or expansion of exchanges to satisfy additional demands on a given particular area. (Please see pages 1 & 2 of this report).

Hence, the registered metered traffic for the year under review is 1,253.41 million pulses. This figure shows 24.07 % growth over that of last year's metered traffic, which was 1,010.21 million pulses. Likewise, the interurban calls /via operator/ have also recorded an increase of 34.37 % over that of previous year.

Regarding the international telephone traffic, the outgoing telephone traffic has grown from 4.36 million to 4.62 million in calls.

A declining trend in the time series data of telex and telegraph traffic for both national and international is due to the introduction of Telefax and Internet and other latest technology services.

D. Finance

During the budget year, the estimated operational revenue is 790.32 million /Birr/ where as the expenditure is 414.82 million /Birr/ with a compound annual growth rate of 17.2 % and 12.1 % respectively. The gross profit before taxation stood at 375.50 million /Birr/ and has a percentage growth 7.52 % over that of the previous year.

E. Personnel

In the fiscal year 1993, 616 new employees have been permanently employed, and 329 employees have been terminated for various reasons. The total number of employees has increased from 7,083 to 7,370 showing an increase of 4.05 % over the previous year.

With the objective of improving the efficiency of the employee, during the year a total number of 3,742 employees have been trained, among whom 993 were technical, 431 were internet and computer trainees, 707 business studies & telex operators and the remaining have participated in administration and cable jointing courses.

II International Services

Now, Ethiopia has 427 telephone, 60 telex and 5 telegram satellite circuits for the purpose of the international traffic. Moreover, we use 25 telephone and 8 telex submarine circuits. To get access to the rest of the world Ethiopia has two standard-A satellite earth stations serving as for ETC's international traffic link and the other important microwave network link is the PANAFTEL that provides direct access to Djibouti, Kenya and Zambia.

Acronyms

1. Names of ETC Regions & Zones

A - A.A Zones

CAAZ = Central Addis Ababa Zone
EAAZ = East Addis Ababa Zone
NAAZ = North Addis Ababa Zone
SAAZ = South Addis Ababa Zone
SWAAZ = South West Addis Ababa Zone
WAAZ = West Addis Ababa Zone

B - ETC Regions

ER = East Region
NER = North East Region
NR = North Region
NWR = North West Region
SER = South East Region
SR = South Region
SWR = South West Region
WR = West Region

C- Type of service

A = Automatic
AA = Automatic Analog
AD = Automatic Digital
M = Manual
MW = Microwave
P/S = Pay Station
RRC = Rural Radio Call station
UHF = Ultra-High Frequency
VHF = Very high frequency
HF = High frequency
DRMASS = Digital Radio Multi-Access System
VSAT = Very Small Aperture Terminal

D - Others

N.A = Data Is Not Available
- = Data Nil
N. Ap = Data Is Not Applicable

2. Names of Zones and Weredas under the list of Public - Stations (Page 6 - 21)

Administr. Region	Abbreviation	Full Name	Administr. Region	Abbreviation	Full Name
Amhara	Artuma	Artuma Fursina	Oromia	Gassera	Gassera na Gololcha
Amhara	Asgarit	Angolelatera na Asgarit	Oromia	Kersa	Kersa na Kondaltiti
Amhara	B.Liben	Baso Liben	Oromia	Mena	Mena na Arena Buluk
Amhara	B/Dar	B/Dar Zuria	Oromia	Meyumulke	Gola Oda na Meyumulke
Amhara	B/Weberma	Bure Weberma	Oromia	Mulo	Mulo na Sululta
Amhara	Bahirdar	Bahirdar special zone	Oromia	O/Shakiso	Odo Shakiso
Amhara	Bure	Bure Weberma	Oromia	Seka	Seka Chekorsa
Amhara	D/Damot	Dega Damot	Oromia	Sinana	Sinana na Dinsho
Amhara	Daunt	Daunt na Delant	Oromia	Woliso	Woliso na Goro
Amhara	Efrata	Efrata na Gidim	Oromia	Wuchale	Wuchale na Jarso
Amhara	Enarj	Enarj Enawga	Oromia	Zway	Zway Dugda
Amhara	Enbise	Enbise Sar Midir	S.N.N.P.	Bench	Bench Magi
Amhara	Enese	Hulet Ej Enese	S.N.N.P.	Boreda	Boreda Abaya
Amhara	Ensaro	Siyadebir na Wayu Ensaro	S.N.N.P.	Enemor	Enemor na Ener
Amhara	Faggeta	Faggeta Lekoma	S.N.N.P.	Gale	Damot Gale
Amhara	G.Midir	Gera midir na Keya Gebriel	S.N.N.P.	Kacha	Kacha Bira
Amhara	Gemja	Antsokia na Gemja	S.N.N.P.	Kedida	Kedida Gamela
Amhara	Gola	Chefe Gola na Dewer Al-medo	S.N.N.P.	Keficho	Keficho Shekicho
Amhara	Goncha	Goncha Siso Enese	S.N.N.P.	Kembata	Kembata Alaba na Tembaro
Amhara	Gondar	Gondar Zuria	S.N.N.P.	Mareka	Mareka Gena
Amhara	J/Tehnan	Jabi Tehnan	S.N.N.P.	Masha	Masha Anderacha
Amhara	L.B & Tach	Lay Betna Tach Bet	S.N.N.P.	Meskan	Meskan na Mareko
Amhara	L/Armachiho	Lay Armachiho	S.N.N.P.	Weyde	Damot Weyde
Amhara	Lalo	Mama midir na Lalo	S.N.N.P.	M.Mareko	Melekanna Mareko
Amhara	Mezezo	Mafud Mezezo Moja na Wadera	S.N.N.P.	K.A.T.Z	Kembata Alaba Tembaro Zone
Amhara	Minjar	Minjar na Shenkora	Tigray	D/Temben	Dega Temben
Amhara	Morete	Morete na Jiru	Tigray	G/Afeshum	Ganta Afeshum
Amhara	Telatgen	Debay Telaugen	Tigray	Humera	Kafta Humera
Amhara	W/Hemra	Wag Hemra	Tigray	K/Temben	Kola Temben
Amhara	We.Ma. Mida	Wermo Magituna Mida	Tigray	L/Adiyabo	Laelay Adiyabo
Benishangul	Benishangul	Benishangul Gumuz	Tigray	L/Maichew	Laelay Maichew
Benishangul	Pawe	Pawe Special Wereda	Tigray	Mereb	Mereb Lehe
Oromia	A/Tulu	Adami Tulu Jido Combolcha	Tigray	T/Adiyabo	Tahtay Adiyabo
Oromia	Ada'a	Ada'a Chukala	Tigray	T/Maichew	Tahtay Maichew
Oromia	Adola	Adola na Wadera	Tigray	Tsaedamba	Saesi Tsaedamba
Oromia	D/Libanos	Yaya Gulele na D/Libanos	Tigray	Tsimbela	Asegede Tsimbela
Oromia	Digelu	Digelu na Tijo	Tigray	W/Humera	Wag Hemra
Oromia	Dodota	Dodota na sire	Tigray	Zana	Medebay Zana
Oromia	Dugda	Dugda Bora	Tigray	T.Maichew	Tahtay Maichew
			Tigray	G.Afeshum	Genta Afeshum

Note:- S.N.N.P. = South Nations Nationalities and Peoples

SUMMARY OF BASIC TELECOM STATISTICS
1980 - 1993 E.F.Y (1987/88 - 2000/2001 G.C)

No.	ITEMS	1980 (1987/88)	1981 (1988/89)	1982 (1989/90)	1983 (1990/91)	1984 (1991/92)	1985 (1992/93)	1986 (1993/94)	1987 (1994/95)	1988 (1995/96)	1989 (1996/97)	1990 (1997/98)	1991 (1998/99)	1992 (1999/00)	1993 (2000/01)	Annual Growth (%)***
1	PUBLIC STATIONS & EXCHANGES															
1.1	Automatic Exchanges	492	494	506	512	466	475	486	512	536	548	563	573	606	650	3.8
1.2	Manual Exchanges	25	33	35	38	35	36	37	40	44	47	53	82	112	129	15.6
1.3	Manual Stations with Semi-Auto. facility	380	384	384	388	367	375	388	403	403	403	403	390	382	356	-0.3
1.4	Pay Stations & R.R.C	94	91	101	100	78	55	74	113	153	155	175	181	331	259	21.4
1.5	Automatic Exchange capacity	100400	139000	145436	148908	137708	142756	143756	150556	161180	167252	182911	348644	433299	490724	11.1
1.6	Manual Exchange capacity	25265	25660	25950	26745	26565	26866	28986	28538	28997	29070	28197	24241	24948	20754	15.2
1.7	% Digital by Capacity	-	-	-	-	-	-	37.20	35.88	34.33	34.82	40.51	67.49	73.60	80.30	-2.7
1.8	% Digital by Total Connected Lines / DEL /	-	-	-	-	-	-	39.34	38.87	38.15	37.95	39.88	51.98	61.90	74.02	11.6
2	SUBSCRIPTION															
2.1	Telephone Subscriber Lines	105985	115843	125398	133091	127041	132478	137731	142452	148739	156538	164140	194494	231945	233683	10.0
2.2	Telephone Subscriber Apparatus	135413	145836	155985	164093	154449	159764	165335	170239	176756	184711	189871	224622	261461	313591	8.2
2.3	Waiting list for telephone	83570	90684	108908	123140	122066	141035	160939	178992	193499	206562	230225	224788	196385	155308	2.7
2.4	DEL's	109699	119571	129066	136945	130609	136102	141650	146566	153001	160861	168639	199474	238495	236887	9.3
2.5	PBX's	1172	1089	1193	1280	1179	1251	1271	1317	1338	1476	1544	1615	1241	1419	2.1
2.6	Coin Boxes	918	925	975	1027	964	988	997	1005	1010	1008	1014	1016	937	935	-0.3
2.7	Number of subscriber's facsimile	101	111	233	247	506	745	1039	1424	1604	2012	2476	3016	4535	5555	24.2
2.8	Number of facsimile machines	110	119	245	261	520	762	1057	1445	1624	2038	2502	3034	4524	5594	24.0
2.9	Telex Subscribers	826	920	971	1003	880	912	865	793	718	581	487	373	336	318	-10.7
2.10	Installed base of telex terminals	885	983	1046	1080	960	996	949	878	806	577	578	449	405	356	-10.4
2.11	Number of Internet Subscribers	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.12	Mobile Telephone Subscription	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.13	Percentage of lines residential/business	60.4/20.3	60.4/20.3	60.7/20.1	61.3/19.7	62.1/19.6	62.4/19.6	63.4/17.7	62/18	62/19	62/20	61/20	62/19	63/20	67/19	-
3	TELEPHONE TRAFFIC (millions)															
3.1	Metered (pulses)	356.4	311.5	362.8	395.9	423.5	470.8	523.6	540	568.3	619.45	704.4	786.42	1010.21	1253.41	12.8
3.2	Interurban calls (via operator)	4.9	4.6	4.3	4.4	3	3.7	4.4	5.4	6.08	6.65	7.22	6.78	7.72	10.37	14.8
3.3	International calls (OG)	0.48	0.67	1.2	1.7	2.1	2.8	3.1	3.1	3.41	3.56	3.94	4.08	4.36	4.62	9.2
3.4	International minutes (OG)	2.9	4.7	7.3	8.9	10.1	10.9	11.5	10.5	10.35	10.69	11.84	12.45	13.42	13.42	3.2
3.5	International calls (IC)	1.07	1.61	2.15	2.7	3.24	4.09	4.49	5.45	6.47	7.19	8.44	9.43	9.10	8.78	11.7
3.6	International minutes (IC)	9.41	12.25	15.09	17.92	20.76	22.88	23.17	26.15	32.5	37.05	41.83	46.5	44.88	43.26	8.5
4	Mobile Telephone Traffic (minutes)															
4.1	Local	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4.2	International	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Internet Traffic (over time hours)															
5.1	National	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5.2	International	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	TELEGRAPH MESSAGES (Thousands)															
6.1	National	305.9	269.4	291.3	257.6	142	152.4	153.5	165.9	183.3	158.2	124.3	126	107.2	102.8	-3.5
6.2	International (OG)	15.2	15.8	14	11.7	6.5	5	3	3	2.7	2.3	1.6	1.2	1.4	0.66	-22.4
7	TELEX TRAFFIC (Thousands)															
7.1	National calls	187.90	253.60	234.10	189.00	92.40	88.70	68.20	53.00	40.10	26.11	16.69	11.32	8.27	5.96	-36.3

No.	ITEMS	1980 (1987/88)	1981 (1988/89)	1982 (1989/90)	1983 (1990/91)	1984 (1991/92)	1985 (1992/93)	1986 (1993/94)	1987 (1994/95)	1988 (1995/96)	1989 (1996/97)	1990 (1997/98)	1991 (1998/99)	1992 (1999/00)	1993 (2000/01)	Annual Growth (%***)
7.2	National Minutes	899.50	1096.70	1114.40	860.20	339.72	335.90	249.40	153.20	140.50	99.10	66.40	52.70	38.48	21.36	-26.5
7.3	International calls (OG)	408.40	389.00	361.00	269.20	206.80	170.40	124.90	101.80	96.40	85.40	81.60	89.00	60.14	50.44	-14.5
7.4	International minutes (OG)	1204.80	1121.50	1019.70	800.10	671.90	569.60	467.30	413.60	431.60	451.10	406.50	451.90	290.80	249.01	-10.4
8	INTERNATIONAL CIRCUITS															
	Satellite Telephone Circuits	122	122	189	189	191	247	346	345	369	350	386	386	380	427	9.4
	Microwave Telephone Circuits	35	57	49	67	69	49	91	91	186	193	25	25	26	53	-2.9
	Submarine Cable				18	18	18	18	24	24	24				25	-
	Telex Circuits	118	122	122	118	117	107	110	95	95	95	89	80	74	72	-5.3
9	OTHER FACILITIES & SERVICES															
9.1	Leased Telephone Circuits															
	Domestic	19	43	64	99	107	112	220	31	32	N.A.	N.A.	156	159	159	1.0
	International	1	1	3	3	3	3	3	3	N.A.	N.A.	N.A.	3	3	4	15.5
9.2	Leased Telegraph Circuits															
	Domestic	5	5	5	5	4	5	10	13	7	7	8	5	5	5	-2.3
	International	4	4	4	4	4	4	4	4	4	4	4	4	4	4	-
9.3	Voice cast transmission (minutes)	8591	435	3587	1207	60	1196	140	425	425						
	Telegrams (OG + IC)	564	862	669	605											
9.4	Domestic TV/O Stations							26	22	24	24	22	22	22	19	-5.1
10	PERSONNEL															
	Male	3710	3933	3936	3969	3639	3434	3352	3514	3470	3382	3861	4267	4607	4868	3.3
	Female	1883	1951	1994	2035	1853	1862	1870	1982	1995	2037	2275	2406	2476	2502	3.4
	Total	5593	5884	5930	6004	5492	5296	5222	5496	5465	5619	6086	6673	7083	7370	3.3
11	FINANCE															
11.1	Income (Millions Birr)	131.40	127.10	152.10	187.10	192.00	253.40	292.10	445.80	496.73	551.80	624.34	624.09	720.37*	750.22**	17.0
11.2	Expense (Millions Birr)	111.40	111.30	130.10	145.90	148.40	154.50	179.30	194.46	199.98	222.30	289.86	285.64	371.12*	414.82**	12.1
11.3	Gross Profit (Millions Birr)	20.00	15.80	22.00	41.20	43.60	99.10	112.80	151.34	196.75	329.50	343.48	338.45	349.25*	375.53**	27.0
11.4	Revenue/Line (Birr)	1,239.8	1,097.2	1,212.9	1,405.8	1,511.3	1,912.8	2,170.8	3,127.5	3,390.6	3,525.0	3,803.7	3,208.8	3,105.78*	2,785.93**	7.0
11.5	Expense/Line (Birr)	1,051.1	960.8	1,037.5	1,096.2	1,168.1	1,164.7	1,301.1	1,365.1	1,344.5	1,420.1	1,711.1	1,468.7	1,600.05*	1,462.28**	2.5
11.6	ASSETS (Millions Birr)															
11.7	Fixed Gross (Millions Birr)	344.40	382.10	459.60	479.10	493.20	536.80	573.20	663.59	695.34	731.35	837.47	911.46	1219.55*	1467.2**	12.9
11.8	Depreciation (Millions Birr)	185.40	205.60	227.90	252.10	276.80	302.10	326.10	348.65	376.35	408.26	442.62	483.4	544.72*	630.89**	9.6
11.9	Net (Millions Birr)	156.00	176.50	231.70	227.00	216.40	234.70	247.10	234.84	318.99	323.09	394.85	428.08	674.83*	836.31**	16.2
12	Population /tr millions/															
	&&&															
13	Teledensity					0.25	0.26	0.26	0.26	0.26	0.27	0.27	0.32	0.37	0.43	10.72

Note:-

* = Unaudited actual

** = Actual Estimate

*** = Annual growth is computed for a period of 1991/92 - 2000/01 G.C

OG = Ongoing Traffic

IC = Incoming Traffic

- = Data nil

N.A = Data not available

&&& = Population data is for June 30 / rather than July 07, end date for: E.F.Y/

OPENING/UPGRADING OF TELEPHONE STATIONS 1993 E.F.Y

(2000/2001 G.C)

A) Date of Upgrading and/or Expansions of Telephone Stations to Automatic Exchanges

No.	Name of Station	Date of Opening	Type of Exchange	Exchange Capacity	ETC Zone/Region	Senior Area Sub Area	Administrative Region
1	Arsi Negele	June, 2001	AD	1000	SR	Arsi Negele	Oromia
2	Awash 7 Killo	June, 2001	AD	500	SER	Metehara	Afar
3	Basha	June, 2001	AD	200	SR	Awassa	SNNP
4	Bedelle	Oct.,2000	AD	2000	SWR	Bedelle	Oromia
5	Dembidolo	May, 2001	AD	2000	WR	Dembidolo	Oromia
6	Dukem	June, 2001	AD	500	SER	D/zeit	Oromia
7	Hossaena II	Oct.,2000	AD	2000	SR	Hossaena	SNNP
8	Kemisse	June, 2001	AD	500	NER	Combolcha	Amhara
9	Maichew	Oct.,2000	AD	2000	SR	Maichew	Tigray
10	Meki	June, 2001	AD	500	SER	Zway	Oromia
11	Mendi	May, 2001	AD	184	WR	Nedjo	Oromia
12	Metekel	June, 2001	AD	500	NWR	Dangla	Amhara
13	Mizan Teferi	Oct.,2000	AD	2000	SWR	Mizan Teferi	SNNP
14	Mojo	Oct.,2000	AD	2000	SER	Mojo	Oromia
15	Nedjo	May, 2001	AD	184	WR	Nedjo	Oromia
16	Nefas Silk	July,2000	AD	23000	SAAZ	Kirkos	Addis Ababa
17	Shewarobit	June, 2001	AD	500	NER	Combolcha	Amhara
	Total	-	-	39568	-	-	-

Source :- ETC Region & Zone Offices and Telecom Service Department.