

**D.Table 6.3-2 (1) Traffic Matrix of Addis Ababa (2005 Demand Base and on IP ring)**

From	To		Distribute to																				Remain in	
			D. 2005	2380.62	Filwoha	Sidist Kilo	Arada	Bole	Yeka	Gerji	B. Michael	Ketama	Kolfe	Kirkos	Nefas Silk	Akaki	D. Zait	Old Airpo	Ayur Tuna	TR-III	Mobile	PCs		NSC
Filwoha	51,045	2380.62	171.63	103.56	212.00	128.57	66.01	28.78	16.54	305.49	60.19	200.92	92.63	62.20	46.90	188.09	38.70	115.41	204.18			510.45	200.45	310
Arada (N)	63,053	2890.78	212.00	127.92	261.87	158.82	81.53	35.55	20.43	377.36	74.34	248.18	114.42	76.84	57.94	232.34	47.80	142.56	252.21			630.53		
(A. Gebeya)	(5,000)																							
(F. Legasion)	(6,000)																							
Sidist Kilo	30,800		103.56	62.49	127.92	77.58	39.83	17.37	9.98	184.33	36.31	121.23	55.89	37.53	28.30	113.49	23.35	69.64	123.20			308		
Others	5,232																							
Bole (E)	38,239	1815.63	128.57	77.58	158.82	96.32	49.45	21.56	12.39	228.85	45.09	150.51	69.39	46.60	35.14	140.90	28.99	86.45	152.96			382.39		
(Kotobe)	(3,834)																							
Yeka	19,631		66.01	39.83	81.53	49.45	25.38	11.07	6.36	117.49	23.15	77.27	35.62	23.92	18.04	72.34	14.88	44.38	78.52			196.31		196.31
Gerji	8,560		28.78	17.37	35.55	21.56	11.07	4.83	2.77	51.23	10.09	33.69	15.53	10.43	7.87	31.54	6.49	19.35	34.24			85.6		
Bole Michael	4,920		16.54	9.98	20.43	12.39	6.36	2.77	1.59	29.45	5.80	19.37	8.93	6.00	4.52	18.13	3.73	11.12	19.68			49.2		
Others	5,586																							
A. Ketama (W)	90,859	3999.18	305.49	184.33	377.36	228.85	117.49	51.23	29.45	543.77	107.13	357.63	164.88	110.72	83.49	334.80	68.89	205.42	363.44			908.59		
Kolfe (Shegol)	17,900		60.19	36.31	74.34	45.09	23.15	10.09	5.80	107.13	21.11	70.46	32.48	21.81	16.45	65.96	13.57	40.47	71.60			179.00		179.00
(Ask)	(7,700)																							
(Buruya)	(2,064)																							
Others	10,414																							
Kirkos (S)	59,756	2155.04	200.92	121.23	248.18	150.51	77.27	33.69	19.37	357.63	70.46	235.20	108.44	72.82	54.91	220.19	45.30	135.10	239.02			597.56		
Nefas Silk	27,550		92.63	55.89	114.42	69.39	35.62	15.53	8.93	164.88	32.48	108.44	49.99	33.57	25.32	101.52	20.89	62.29	110.20			275.5		275.5
Akaki	18,500		62.20	37.53	76.84	46.60	23.92	10.43	6.00	110.72	21.81	72.82	33.57	22.54	37.53	68.17	14.03	41.83	74.00			185.00		185.00
D. Zait (Hana marian)	13,950		46.90	28.30	57.94	35.14	18.04	7.87	4.52	83.49	16.45	54.91	25.32	17.00	12.82	51.40	10.58	31.54	55.80			139.5		
Dukem	(7,450)																							
Others	(1,026)																							
Old Airport(SW)	11,510	2590.92	188.09	113.49	232.34	140.90	72.34	31.54	18.13	334.80	65.96	220.19	101.52	68.17	51.40	206.13	42.41	126.48	223.76			559.41		
(Mekanisa)	(4,316)																							
Ayur tuna (Keranio)	11,510		38.70	23.35	47.80	28.99	14.88	6.49	3.73	68.89	13.57	45.30	20.89	14.03	10.58	42.41	8.73	26.02	46.04			115.1		
Others	9,963																							
TR-III	34,324	1716.2	115.41	69.64	142.56	86.45	44.38	19.35	11.12	205.42	40.47	135.10	62.29	41.83	31.54	126.48	26.02	77.60	137.30			5465.38	200.45	1145.81
Addis Ababa 2/3/7 Area	127,035	2540.70	189.83	114.54	234.49	142.21	73.01	31.83	18.30	337.90	66.57	222.23	102.46	68.80	51.88	208.04	42.81	127.65				343.24		
4/5/6/8 Area	32,080																					508.14		400
Other Area National	54,391	Through PC																				287.86		
Other PC Area	86,471																							
National	213,505																							
Other PC Area	376,471																					5763.02	1996.57	1970
NSC			312.25	188.41	385.70	233.91	120.08	52.36	30.10	555.79	109.50	365.53	168.53	113.17	85.33	342.20	70.41	209.96	777.09	8247.32	12367.64	2593.02	3515.81	
	546,538																							
Total Fix D2005	923,009		2168.07		2628.23	1656.41				3620.85		2503.78				2357.99		1573.28	2963.24					
Distribute to IP net			147.25		185.70					255.79		185.53				222.20			657.09	5347.32				
Remain in PC/T-SC			165		200		120.08			300	109.50	180	168.53	113.17		120			120			2900		

6,051

3343.23

Distribution of PC area calls to Addis Ababa(15% strong interest is a 4120.32

D.Table 6.3-2 (2) Note

		#REF!	2010	2015	2020
1	At 4,5,6&8 interface to Fixed network at PC, Mobile-to-Mobile traffic is to be carried by separate mobile n	1211.7			
	Call to fixed network except those to be terminated to AA area.	1123.4			
2	Calls to fixed phone except AA area & 1 above are to be processed through NSC.	1631.4			
3	Fix to mobile calls at 4,5,6&8 areas are to be routed at each PC.( same PC area only)	1596.1			
		2520.3			
4	20% of originating traffic of AA area is assumed to be terminated to NSC	1085.8			
5	30% of originating traffic of other PC area is assumed to be terminated to NSC	523.21			
		1459.4			
6	Assumption of Mobile-phone related traffic distribution				
	<u>AA area</u>				
	<b>Mobile-phone(40m Erl)</b>				
	To mobile in AA area	16m Erl			
	To fixed in AA area	16m Erl			
	To fixed in other PC area	4m Erl			
	To mobile in other PC area	4m Erl			
	<b>Fixed-phone (50m Erl)</b>				
	To mobile in AA area/other except 4,5,6&8	4m Erl	4.0	4.0	4.0
	To fixed in AA area	36m Erl	34.4	31.2	28.0
	To fixed in other PC area	10m Erl	9.6	8.8	8.0
	<b>Total</b>	<u>50.0</u>	<u>48.0</u>	<u>44.0</u>	<u>40.0</u>
	<u>Other PC area</u>				
	<b>Mobile-phone (40m Erl)</b>				
	To mobile in same PC area	12m Erl			
	To fixed in same PC area	16m Erl			
	To mobile in other area	6m Erl			
	To fixed in other area	6m Erl			
	<b>Fixed-phone (50m Erl)</b>				
	To mobile in same PC area	4m Erl	4.0	4.0	4.0
	To fixed in same PC area	30m Erl	28.6	25.8	23.0
	To mobile in other area	1m Erl	1.0	1.0	1.0
	to fixed in other area	15m Erl	14.4	13.2	12.0
	<b>Total</b>	<u>50</u>	<u>48.0</u>	<u>44.0</u>	<u>40.0</u>

**D.Table 6.3-2 (3) Traffic Matrix of Addis Ababa (2005 Expected Subscriber Loading)**

	From	To																			Distribute to Remain in		
		Sw 2005	Filwoha	Arada	N Tandem	Bole	Yeka	E Tandem	Ketama	Kolfe	W Tandem	Kirkos	Nefas Silk	Akaki	S Tandem	Old Airport	SW Tandem	Mobile	PCs	NSC	IP net	PC/T-SC	
C	Filwoha	51,856	3,640.61	258.03	521.93	147.59	316.80	207.54	246.03	214.65	50.48	55.73	125.16	114.45	40.29	102.96	145.22	76.38	756.84		518.56	208.56	310.00
N	Arada	48,430	1,936.72	240.99	225.07	259.71	141.65	92.80	112.82	200.47	47.14	52.05	116.89	106.89	37.62	96.16	135.62	71.34	-		484.30		
	Others	14,200																					
	N Tandem		818.38	321.18	328.37	19.35	41.53	27.21	33.08	58.78	13.82	15.26	34.27	31.34	11.03	28.19	39.77	20.92	-		142.00	311.30	315.00
E	Bole	30,480	1,363.85	151.67	141.65	163.45	89.15	58.40	71.00	126.17	29.67	32.76	73.56	67.27	23.68	60.52	85.36	44.90	-		304.80		
	Yeka	19,968		99.36	92.80	107.08	58.40	38.26	46.51	82.65	19.44	21.46	48.19	44.07	15.51	39.65	55.92	29.41	-		199.68		199.68
	Others	24,276	989.14																				
	E Tandem			120.80	112.82	33.08	71.00	46.51	56.55	100.49	23.63	26.09	58.59	53.58	18.86	48.20	67.98	35.76	-		242.76	272.56	275.00
W	Ketama	43,137	1,759.38	214.65	200.47	58.78	126.17	82.65	100.49	178.56	41.99	218.91	104.11	95.20	33.51	85.65	120.80	63.54	-		431.37		
	Kolfe	10,144		50.48	47.14	13.82	29.67	19.44	23.63	41.99	9.87	51.48	24.48	22.39	7.88	20.14	28.41	14.94	-		101.44		101.44
	Others	11,200																					
	W Tandem		1,189.10	55.73	52.05	15.26	32.76	21.46	26.09	280.07	65.86	12.04	27.03	24.72	8.70	22.24	189.48	99.66	436.06		112.00	268.37	275.00
S	Kirkos	25,152	1,046.35	125.16	116.89	34.27	73.56	48.19	58.59	104.11	24.48	27.03	60.71	55.51	19.54	150.55	70.44	37.05	-		251.52		
	Nefas Silk	23,000		114.45	106.89	31.34	67.27	44.07	53.58	95.20	22.39	24.72	55.51	50.76	17.87	137.67	64.41	33.88	-		230.00		230.00
	Akaki	8,096		40.29	37.62	11.03	23.68	15.51	18.86	33.51	7.88	8.70	19.54	17.87	6.29	48.46	22.67	11.93	-		80.96		80.96
	Others	20,692																					
	S Tandem		1,337.04	102.96	96.16	28.19	60.52	39.65	48.20	85.65	20.14	22.24	186.21	170.28	59.94	41.09	57.95	30.48	307.76		206.92	228.44	230.00
SW	Old Airport	29,184	1,334.49	145.22	135.62	39.77	85.36	55.92	67.98	120.80	28.41	148.10	70.44	64.41	22.67	57.95	81.73	42.99	-		291.84		
	Others	15,350																					
Mobile	SW Tandem		701.90	76.38	71.34	20.92	44.90	29.41	35.76	63.54	14.94	77.90	37.05	33.88	11.93	30.48	42.99	22.61	-		153.50	220.34	225.00
	Addis Ababa	127,035		620.26								590.62									3,751.65	1,509.57	2,242.08
	2/3/7 Area	32,041																					
	4/5/6/8 Area	54,389	Through PC																				
	Other Area	86,430																					
National	213,465																						
Fix	Other PC Area	270,888																			3,966.57	1,996.57	1,970.00
	Rural	5,600																					
NSC			271.17	253.25	74.26	159.39	104.42	126.95	225.58	53.05	58.57	131.53	120.27	42.34	108.20	152.61	80.27	664.30	6,328.44	8,954.59	4,042.51	4,912.08	
Total Fix D2005		375,165																					
Distribute to IP net		651,653		2,750.73		1,038.55						998.57				1,708.16	1,236.63	650.44					
Remain in PC/T-SC				106.17		162.51						139.14				119.73		112.88	314.30	3,428.44	4,524.51		
				165.00		165.00		104.42	145.00		53.05	145.00		120.27	42.34	120.00		120.00	350.00	2,900.00	4,430.07		

3,967

C+N  
114,486.00

1,728.96

W+SW  
109,015.00

S+E  
151,664.00

2,626.15

8,954.59

1,986.62

1,203.25

1,553.59

Distribution of PC area calls to Addis Ababa (15% strong interest is assumed)

0.66207

- C Tandem
- N Tandem
- E Tandem
- W Tandem
- S Tandem
- Sw Tandem

D.Table6.3-2 (4) Traffic Matrix of Addis Ababa (2005 Demand Base)

	From	To																			Distribute to IP net	Remain in PC/T-SC
		D. 2005	Filwoha	Arada	N Tandem	Bole	Yeka	E Tandem	Ketama	Kolfe	W Tandem	Kirkos	Nefas Silk	Akaki	S Tandem	Old Airport	SW Tandem	Mobile	PCs	NSC		
C	Filwoha	51,045	3,454.17	171.63	364.85	333.04	243.63	139.01	188.51	247.70	60.18	92.81	172.43	92.63	62.20	85.96	151.81	108.46	600.52	510.45	200.45	310.00
N	Arada	51,045	2,054.71	175.01	178.47	369.47	117.96	67.31	78.52	252.59	61.37	94.64	175.83	94.46	63.43	87.66	154.81	110.60	-	520.53		
	Others	47,032																				
E	N Tandem	99,085	2,252.86	554.47	354.84	145.70	106.58	60.82	70.94	228.22	55.45	85.51	158.87	85.35	57.31	79.20	139.87	99.93	-	470.32	675.85	315.00
	Bole	34,405	1,590.39	115.68	117.96	244.20	77.97	44.49	51.90	166.95	40.56	62.55	116.22	62.44	41.92	57.94	102.32	73.10	-	344.05		
W	Yeka	19,631		66.00	67.31	139.34	44.49	25.38	29.61	95.26	23.15	35.69	66.31	35.62	23.92	33.06	58.38	41.71	-	196.31		196.31
	Others	22,900																				
S	E Tandem	76,936	966.96	77.00	78.52	70.94	51.90	29.61	34.54	111.12	27.00	41.64	77.35	41.56	27.91	38.56	68.10	48.66	-	229.00	298.05	275.00
	Ketama	73,670	2,897.39	247.70	252.59	228.22	166.95	95.26	111.12	357.48	86.86	428.62	248.85	133.69	89.77	124.06	219.10	156.53	-	736.70		
SW	Kolfe	17,900		60.18	61.37	55.45	40.56	23.15	27.00	86.86	21.10	104.15	60.46	32.48	21.81	30.14	53.23	38.03	-	179.00		179.00
	Others	27,603																				
S	W Tandem	119,173	2,226.37	92.81	94.64	85.51	62.55	35.69	41.64	407.92	99.11	50.19	93.24	50.09	33.64	46.48	250.00	178.61	786.32	276.03	737.73	275.00
	Kirkos	51,283	2,099.43	172.43	175.83	158.87	116.22	66.31	77.35	248.85	60.46	93.24	173.23	93.06	62.49	291.49	152.52	108.96	-	512.83		
SW	Nefas Silk	27,551		92.63	94.46	85.35	62.44	35.62	41.56	133.69	32.48	50.09	93.06	50.00	33.57	156.60	81.94	58.54	-	275.51		275.51
	Akaki	18,500		62.20	63.43	57.31	41.92	23.92	27.91	89.77	21.81	33.64	62.49	33.57	22.54	105.15	55.02	39.31	-	185.00		185.00
SW	Others	25,566																				
	S Tandem	122,900	2,017.23	85.96	87.66	79.20	57.94	33.06	38.56	124.06	30.14	46.48	277.08	148.86	99.95	43.05	76.03	54.32	799.34	255.66	538.49	230.00
Mobile	Old Airport	45,151	2,027.34	151.81	154.81	139.87	102.32	58.38	68.10	219.10	53.23	262.70	152.52	81.94	55.02	76.03	134.28	95.93	-	451.51		
	Others	32,257																				
Fix	SW Tandem	77,408	1,448.38	108.46	110.60	99.93	73.10	41.71	48.66	156.53	38.03	187.68	108.96	58.54	39.31	54.32	95.93	68.54	-	322.57	549.08	225.00
	Addis Ababa	127,035		558.32								731.07								5,465.47	2,999.65	2,465.82
NSC	2/3/7 Area	32,080																		508.14	396.00	400.00
	4/5/6/8 Area	54,391	Through PC																	287.86		
NSC	Other Area	86,471																				
	National	213,505																				
NSC	Other PC Area	376,471																		5,763.02	1,996.57	1,970.00
	Total Fix D2005	546,547		312.25	318.41	287.70	210.46	120.08	140.08	450.64	109.50	168.85	313.70	168.53	113.17	156.39	276.19	197.32	777.08	7,904.14	12,024.49	5,392.22
NSC	Distribute to IP net	923,018		147.25		441.11			205.54			474.49				350.09		353.51	427.08	5,004.14		
	Remain in PC/T-SC			165.00		165.00		120.08	145.00		109.50	145.00		168.53	113.17	120.00		120.00	350.00	2,900.00		

6,051

C+N  
150,130.00

2,869.75

W+SW  
196,581.00

S+E  
199,836.00

4,120.35

Distribution of PC area calls to Addis Ababa (15% strong interest is assumed)

D.Table 6.3-2 5.Traffic Matrix of Addis Ababa

(2010)

From		To																			Distribute to	Remain in
D. 2010		Filwoha	Arada	N Tandem	Bole	Yeka	E Tandem	Ketama	Kolfe	W Tandem	Kirkos	Nefas Silk	Akaki	S Tandem	Old Airport	SW Tandem	Mobile	PCs	NSC	IP net	PC/T-SC	
C	Filwoha	61,611	3,854.40	197.94	453.56	414.30	303.08	172.93	236.87	285.67	69.43	107.02	198.86	106.84	71.79	99.08	175.08	125.08	724.82	591.47	281.47	310.00
N	Arada	61,611	2,372.58	201.85	205.83	437.28	136.05	77.62	90.63	291.31	70.80	109.13	202.79	108.94	73.20	101.03	178.54	127.55	-	603.14		
	Others	56,767																				
	N Tandem	119,594	2,622.11	660.75	442.66	168.04	122.93	70.14	81.89	263.21	63.97	98.60	183.23	98.44	66.14	91.29	161.31	115.25	-	544.96	833.10	315.00
E	Bole	41,527	1,843.47	133.41	136.05	289.03	89.92	51.31	59.90	192.55	46.79	72.13	134.04	72.01	48.39	66.78	118.01	84.31	-	398.66		
	Yeka	23,694		76.12	77.62	164.91	51.31	29.27	34.18	109.86	26.70	41.16	76.48	41.09	27.61	38.10	67.33	48.10	-	227.46		227.46
	Others	27,664																				
	E Tandem	92,885	1,117.40	88.88	90.63	81.89	59.90	34.18	39.91	128.27	31.17	48.05	89.29	47.97	32.23	44.49	78.61	56.16	-	265.57	389.23	275.00
W	Ketama	88,919	3,345.69	285.67	291.31	263.21	192.55	109.86	128.27	412.29	100.20	510.13	287.01	154.19	103.61	142.99	252.68	180.53	-	853.62		
	Kolfe	21,610		69.43	70.80	63.97	46.79	26.70	31.17	100.20	24.35	123.98	69.75	37.47	25.18	34.75	61.41	43.87	-	207.46		207.46
	Others	33,311	2,672.46																			
	W Tandem	143,840	5,119.74	107.02	109.13	98.60	72.13	41.16	48.05	517.74	125.83	57.86	107.52	57.76	38.81	53.57	317.31	226.70	949.08	319.79	898.41	275.00
S	Kirkos	61,899	2,424.22	198.86	202.79	183.23	134.04	76.48	89.29	287.01	69.75	107.52	199.79	107.34	72.12	347.14	175.90	125.67	-	594.23		
	Nefas Silk	33,254		106.84	108.94	98.44	72.01	41.09	47.97	154.19	37.47	57.76	107.34	57.66	38.75	186.49	94.50	67.51	-	319.24		319.24
	Akaki	22,345		71.79	73.20	66.14	48.39	27.61	32.23	103.61	25.18	38.81	72.12	38.75	26.04	125.31	63.50	45.37	-	214.51		214.51
	Others	30,839	2,399.83																			
	S Tandem	148,337	4,163.76	99.08	101.03	91.29	66.78	38.10	44.49	142.99	34.75	53.57	352.43	189.34	127.23	49.59	87.64	62.61	964.89	296.05	660.28	230.00
SW	Old Airport	54,496	2,350.31	175.08	178.54	161.31	118.01	67.33	78.61	252.68	61.41	312.64	175.90	94.50	63.50	87.64	154.86	110.64	-	523.16		
	Others	38,934																				
	SW Tandem	93,430	1,312.37	125.08	127.55	115.25	84.31	48.10	56.16	180.53	43.87	223.36	125.67	67.51	45.37	62.61	110.64	79.04	-	373.77	671.93	225.00
Mobile	Addis Ababa	168,453	740.33									969.39								6,333.09	3,734.42	2,598.67
	2/3/7 Area	48,891																				
	4/5/6/8 Area	94,030	Through PC																			
	Other Area	142,921																				
	National	311,374																				
Fix	Other PC Area	542,483																		8,128.89	6,158.89	1,970.00
NSC	NSC	659,697		381.64	389.17	351.63	257.23	146.77	171.36	550.79	133.86	206.34	383.42	205.99	138.41	191.03	337.57	241.17	1,043.46	9,332.14	14,461.98	4,568.67
	Total Fix D2010	1,202,180		3,521.82		2,880.50			1,271.00			3,137.46					2,707.41		1,739.57			
				216.64		575.81			283.59			612.13					454.45		458.74	693.46	6,432.14	9,726.95
				165.00		165.00		146.77	145.00			133.86		205.99	138.41	120.00		120.00	350.00	2,900.00		4,735.03

8,129

C+N

181,205.00

W+SW

237,270.00

S+E

241,222.00

5,129.84

C Tandem 3,305.18 2,410.33 2,443.22 1,705.59 887.59 3,042.86 1,957.34 Distribution of PC area calls to Addis Ababa (15% strong interest is assumed)  
 N Tandem 7159.59 8439.34 2213.42 0.6311 2310.69 2169.38 1091.15  
 E Tandem 8439.34  
 W Tandem 5164.83  
 S Tandem 10119.94  
 SW Tandem 8233.41  
 Mobile 6251.27

D.Table 6.3-2 (6) Traffic Matrix of Addis Ababa (2015)

	From	To																			Distribute to IP net	Remain in PC/T-SC	
		D. 2015	Filwoha	Arada	N Tandem	Bole	Yeka	E Tandem	Ketama	Kolfe	W Tandem	Kirkos	Nefas Silk	Akaki	S Tandem	Old Airport	SW Tandem	Mobile	PCs	NSC			
C	Filwoha	74,151	216.07	538.78	492.50	360.24	205.56	284.25	311.83	75.78	116.82	217.08	116.62	78.36	108.15	191.11	136.54	1,319.49		652.53	342.53	310.00	
N	Arada	75,614	220.33	224.68	505.47	148.49	84.73	98.93	317.99	77.28	119.12	221.36	118.92	79.91	110.29	194.89	139.24	-		665.40			
	Others	68,322																					
	N Tandem	143,936	774.83	527.74	183.43	134.17	76.56	89.39	287.32	69.83	107.64	200.01	107.45	72.20	99.65	176.09	125.81	-		601.23	951.64	315.00	
E	Bole	49,974	145.62	148.49	334.07	98.14	56.00	65.38	210.16	51.07	78.73	146.30	78.60	52.81	72.89	128.80	92.02	-		439.77			
	Yeka	28,517	83.09	84.73	190.63	56.00	31.96	37.31	119.93	29.14	44.93	83.48	44.85	30.14	41.59	73.50	52.51	-		250.95		250.95	
	Others	33,295																					
	E Tandem	111,786	97.02	98.93	89.39	65.38	37.31	43.56	140.02	34.03	52.45	97.47	52.36	35.19	48.56	85.81	61.31	-		293.00	457.77	275.00	
W	Ketama	107,017	311.83	317.99	287.32	210.16	119.93	140.02	450.05	109.37	596.67	313.29	168.31	113.10	156.09	275.82	197.06	-		941.75			
	Kolfe	26,008	75.78	77.28	69.83	51.07	29.14	34.03	109.37	26.58	145.01	76.14	40.90	27.49	37.93	67.03	47.89	-		228.87		228.87	
	Others	40,091																					
	W Tandem	173,116	116.82	119.12	107.64	78.73	44.93	52.45	628.20	152.67	63.16	117.37	63.05	42.37	58.47	385.00	275.06	1,142.25		352.80	1,019.55	275.00	
S	Kirkos	74,498	217.08	221.36	200.01	146.30	83.48	97.47	313.29	76.14	117.37	218.09	117.16	78.73	406.65	192.01	137.18	-		655.58			
	Nefas Silk	40,022	116.62	118.92	107.45	78.60	44.85	52.36	168.31	40.90	63.05	117.16	62.94	42.30	218.46	103.15	73.70	-		352.19		352.19	
	Akaki	26,893	78.36	79.91	72.20	52.81	30.14	35.19	113.10	27.49	42.37	78.73	42.30	28.42	146.80	69.31	49.52	-		236.66		236.66	
	Others	37,116																					
	S Tandem	178,529	108.15	110.29	99.65	72.89	41.59	48.56	156.09	37.93	58.47	428.60	230.25	154.72	54.13	95.66	68.35	714.12		326.62	752.20	230.00	
SW	Old Airport	65,588	191.11	194.89	176.09	128.80	73.50	85.81	275.82	67.03	365.68	192.01	103.15	69.31	95.66	169.04	120.77	-		577.17			
	Others	46,859																					
	SW Tandem	112,447	136.54	139.24	125.81	92.02	52.51	61.31	197.06	47.89	261.26	137.18	73.70	49.52	68.35	120.77	86.29	-		412.36	764.53	225.00	
Mobile	Addis Ababa	213,111	936.60								1,226.38				1,246.79					6,986.89	4,288.22	2,698.67	
	2/3/7 Area	75,409																					
	4/5/6/8 Area	142,879																					
	Other Area	218,288																					
	National	431,399																					
Fix	Other PC Area	766,180																			10,490.25	8,520.25	1,970.00
NSC		793,965	452.04	460.96	416.50	304.65	173.84	202.97	652.39	158.55	244.40	454.15	243.98	163.94	226.27	399.84	285.66	1,299.16	11,337.82	17,477.14	12,808.47	4,668.67	
	Total Fix D2015	1,560,145	4,061.83		3,274.55			1,429.01			3,703.51				3,196.73	1,948.90							
			287.04		712.46			362.62			751.80				560.42	565.50	949.16	8,437.82				12,626.82	
			165.00		165.00		173.84	145.00		158.55	145.00		243.98	163.94	120.00	120.00	350.00	2,900.00				4,850.32	

10,490

C+N  
218,087.00

4,154.66

W+SW  
285,563.00

S+E  
290,315.00

6,139.32

Distribution of PC area calls to Addis Ababa (15% strong interest is assumed)

**D.Table 6.3-2 (7) Traffic Matrix of Addis Ababa (2020)**

	From	To																				Distribute to IP net	Remain in PC/T-SC	
		D. 2020	Filwoha	Arada	N Tandem	Bole	Yeka	E Tandem	Ketama	Kolfe	W Tandem	Kirkos	Nefas Silk	Akaki	S Tandem	Old Airport	SW Tandem	Mobile	PCs	NSC				
C	Filwoha	88,285	230.86	753.56	690.11	504.83	288.05	305.19	333.18	80.97	124.82	231.94	124.60	83.73	115.58	204.20	145.89	1,571.10			706.28	396.28	310.00	
N	Arada	90,028	235.42	240.06	577.02	158.67	90.54	105.75	339.76	82.57	127.28	236.52	127.06	85.38	117.86	208.23	148.77	-			720.22			
	Others	81,344																						
	N Tandem	171,372	898.20	745.28	195.98	143.37	81.80	95.55	306.99	74.61	115.00	213.70	114.81	77.15	106.49	188.15	134.42	-			650.75	1,055.98	315.00	
E	Bole	59,505	155.60	158.67	381.39	104.88	59.84	69.90	224.57	54.58	84.13	156.33	83.98	56.43	77.90	137.63	98.33	-			476.04		271.62	
	Yeka	33,953	88.78	90.54	217.62	59.84	34.14	39.88	128.14	31.14	48.00	89.20	47.92	32.20	44.45	78.53	56.11	-			271.62			
	Others	39,660																						
	E Tandem	133,118	103.71	105.75	95.55	69.90	39.88	46.59	149.67	36.38	56.07	104.19	55.98	37.61	51.92	91.73	65.54	-			317.28	518.32	275.00	
W	Ketama	127,416	333.18	339.76	306.99	224.57	128.14	149.67	480.86	116.86	689.81	334.74	179.83	120.84	166.81	294.71	210.55	-			1,019.33			
	Kolfe	30,966	80.97	82.57	74.61	54.58	31.14	36.38	116.86	28.40	167.64	81.35	43.70	29.37	40.54	71.62	51.17	-			247.73		247.73	
	Others	47,733																						
	W Tandem	206,115	124.82	127.28	115.00	84.13	48.00	56.07	927.94	225.52	67.49	125.40	67.37	45.27	62.49	568.72	406.31	1,359.98			381.86	1,126.19	275.00	
S	Kirkos	88,698	231.94	236.52	213.70	156.33	89.20	104.19	334.74	81.35	125.40	233.02	125.19	84.12	470.91	205.16	146.57	-			709.58			
	Nefas Silk	47,651	124.60	127.06	114.81	83.98	47.92	55.98	179.83	43.70	67.37	125.19	67.25	45.19	252.99	110.22	78.74	-			381.21		381.21	
	Akaki	32,020	83.73	85.38	77.15	56.43	32.20	37.61	120.84	29.37	45.27	84.12	45.19	30.37	170.00	74.06	52.91	-			256.16		256.16	
	Others	44,200																						
	S Tandem	212,569	115.58	117.86	106.49	77.90	44.45	51.92	166.81	40.54	62.49	636.68	342.04	229.84	57.86	102.23	73.04	850.28			353.60	833.18	230.00	
SW	Old Airport	78,091	204.20	208.23	188.15	137.63	78.53	91.73	294.71	71.62	422.77	205.16	110.22	74.06	102.23	180.62	129.04	-			624.73			
	Others	55,790																						
	SW Tandem	133,881	145.89	148.77	134.42	98.33	56.11	65.54	210.55	51.17	302.04	146.57	78.74	52.91	73.04	129.04	92.19	-			446.32	846.05	225.00	
Mobile	Addis Ababa	289,537	2,305.18								1,995.42										7,562.72	4,776.00	2,786.72	
	2/3/7 Area	113,210																				0.00	0.00	
	4/5/6/8 Area	211,982																						
	Other Area	325,192																						
	National	614,729																						
Fix	Other PC Area	1,069,264																				12,109.70	10,139.70	1,970.00
NSC			467.19	476.41	430.46	314.89	179.67	209.87	674.26	163.87	252.59	469.37	252.16	169.44	233.90	413.24	295.23	1,532.18			13,137.66	19,672.42	14,915.70	4,756.72
	Total Fix D2020	945,340	5,698.98		3,723.45			1,521.84			4,753.59													
		12,110	302.19		741.87			379.76			781.86													14,797.27
		12,110	165.00		165.00		179.67	145.00			163.87			252.16	169.44	120.00		583.27			588.48	1,182.18	10,237.66	4,875.15
			C+N+E								W+SW										S			6,534.76
			392,775.00				4,294.10				339,996.00										212,569.00			

Distribution of PC area calls to Addis Ababa (15% strong interest is assumed)