

Table S-9.8-1-h Expansion Plan of National Backbone

	Traffic				Traffic (STM1)				Base (8th P)		Exp. Total		Exp. Plan (STM1)			
	2005	2010	(2M) 2015	2020	2005	2010	2015	2020	2M	STM-1	2M	(STM-1)	2005	2010	2015	2020
<SouthE & East>																
Addis Ababa																
Mt.Furi	201	183	197	230	4	3	4	4	64	2	40		4			
Adama West	165	174	187	217	3	3	3	4	32	2	59		4			
Nazreth	101	94	101	128	2	2	2	3	64	3	1*		3	1*		
Mt.Kubi	113	132	141	167	2	3	3	3	32	2	9	1				1
Awash Rep.	107	128	137	160	2	3	3	3	32	2	2	1				1
Dalecha	65	78	84	97	2	2	2	2	32	2						
Asebe Teferi Rep	11	6	7	16	1	1	1	1	4		12	1	1			
Asebe Teferi	22	16	17	26	1	1	1	1	4		22	1	1			
Ades	74	83	90	112	2	2	2	2	32	2						
Kobo	77	85	92	114	2	2	2	2		2						
Kulbi West	80	87	94	117	2	2	2	2	32	2						
Dire Dawa	90	99	106	132	2	2	2	3	48	2						
Dengego	64	42	46	63	2	1	1	1	16	2						
Hakim Gara	68	43	47	60	2	1	1	1	16	2						
Harer	52	39	41	44	1	1	1	1	16	1						
Mardepass	25	13	15	18	1	1	1	1		1						
Jijiga	16	8	9	9	1	1	1	1		1						
Kebri Beyah	14	9	10	10	1	1	1	1	4		10	1	1			
Adama West																
Iteya North	22	14	12	16	1	1	1	1	32							
Assela	38	21	20	26	1	1	1	1	32	1						
Kulubi West																
Kedirare	16	20	24	32	1	1	1	1	16		16	1		1		
Worji	16	20	24	32	1	1	1	1	16		16	1		1		
Gara Gewril	16	20	24	32	1	1	1	1	16		16	1		1		
Gewril Rep.	16	20	24	32	1	1	1	1	16		16	1		1		
Kash	16	20	24	32	1	1	1	1	16		16	1		1		
Aysha	16	20	24	32	1	1	1	1	16		16	1		1		
Arrey	15	19	23	30	1	1	1	1	16		14	1		1		
Arta	14	18	22	29	1	1	1	1	16		13	1		1		
Djibouti	14	18	22	29	1	1	1	1	16		13	1		1		
<North & NEast>																
Addis Ababa																
Mt.Furi	93	109	113	139	2	2	2	3		1	76	2	1			1
Sheno South	99	114	118	144	2	2	2	3	4	1	77	2	1			1
Ankober North	82	103	106	119	2	2	2	2	4	1	52	1	1			
Ambalay South	81	101	104	117	2	2	2	2		1	54	1	1			
Karakore MW	87	105	108	135	2	2	2	3		1	72	2	1			1
Irgofet	89	107	110	137	2	2	2	3		1	74	2	1			1
Tita South	56	72	66	93	1	2	2	2		2						
Dessie	119	124	123	160	2	2	2	3		2	34	1				1
Tossa	35	35	33	44	1	1	1	1	20	1						
Korke	56	72	76	88	1	2	2	2			88	2	1	1		
Woldia West	79	87	90	102	2	2	2	2	32	1	7	1				1
Kobo East	65	77	80	89	2	2	2	2	16	1	10	1			1	
Maichew North	67	78	81	95	2	2	2	2	16	1	16	1			1	
Bolenta Giorgis	19	9	10	11	1	1	1	1	4		15	1	1			
Maichew Town	24	12	13	14	1	1	1	1	4		20	1	1			

Adi Shehu	76	83	87	100	2	2	2	2	16	1	21	1		1		
Ambalagie	74	82	86	99	2	2	2	2	16	1	20	1		1		
Mossobo	73	81	85	98	2	2	2	2	16	1	19	1		1		
Mekele	111	113	120	149	2	2	2	3	80	2						
Inkotamba	37	26	17	44	1	1	1	1		1						
Hawzen Rep	48	28	19	47	1	1	1	1		1						
Atebes	51	29	32	48	1	1	1	1		1						
Kesharat	25	13	14	16	1	1	1	1	4		21	1	1			
Adigrat	27	14	15	17	1	1	1	1	4		23	1	1			
Adi Abeyito	28	17	19	33	1	1	1	1	4	1						
Morer	29	17	19	31	1	1	1	1	4	1						
Adwa	33	18	19	20	1	1	1	1	4		29	1	1			
Koyetsa	16	12	12	20	1	1	1	1	4	1						
Tossa																
Korke	23	30	27	33	1	1	1	1	32	1						
Tita South																
Korke	21	14	13	15	1	1	1	1		1						
Dessie																
Hara	29	28	28	28	1	1	1	1		1						
Bati	29	28	28	28	1	1	1	1		1						
<South>																
Addis Ababa																
Mt.Furi	75	82	86	92	2	2	2	2		1	29	1	1			
Meki	75	82	86	92	2	2	2	2		1	29	1	1			
Ziway West	70	80	83	89	2	2	2	2		1	26	1	1			
Arsi Negela	86	90	93	104	2	2	2	2		1	41	1	1			
Shashemene	93	97	100	117	2	2	2	2		1	54	1	1			
Abaro	64	46	50	71	2	1	1	2	4	1	4	1				1
Awassa	32	12	13	17	1	1	1	1	4		28	1	1			
Waragelama	28	23	26	43	1	1	1	1	4	1						
Banko	22	13	14	21	1	1	1	1	4		18	1	1			
Dilla	30	17	18	19	1	1	1	1	4		26	1	1			
Kurumi	17	16	17	27	1	1	1	1		1						
Hagere Mariam Rep	13	11	12	20	1	1	1	1		1						
Dembela Fura	6	7	8	12	1	1	1	1		1						
Tule Bera	6	7	8	11	1	1	1	1		1						
Mega Rep	6	7	8	10	1	1	1	1		1						
Tuka	5	6	7	9	1	1	1	1		1						
Marza	3	3	4	5	1	1	1	1		1						
Shashemene																
Kersa	26	23	23	39	1	1	1	1	4		35	1	1			
Shashemene																
Mt. Fende	20	24	24	45	1	1	1	1		1						
Delbe Wegena Rep	31	34	34	54	1	1	1	1		1						
Humbo Abo Rep	31	34	34	54	1	1	1	1		1						
Birbir	23	25	25	40	1	1	1	1		1						
Koyite	25	27	27	42	1	1	1	1		1						
Bekele Mola	25	27	27	42	1	1	1	1		1						
Arba Minch	42	38	38	44	1	1	1	1		1						
<South West>																

Addis Ababa																		
Mt.Furi	66	56	57	66	2	1	1	2		1	3	1	1					
Welisso North	74	60	61	69	2	1	1	2		1	11	1	1					
Weliso Town	34	20	21	23	1	1	1	1	2		32	1	1					
Welikite MW	57	55	55	59	1	1	1	1		1								
Fofa	43	48	48	51	1	1	1	1		1								
Muja	46	55	55	73	1	1	1	2		1	10	1						1
Jimma	98	87	90	97	2	2	2	2	16	2								
Muja	24	15	18	34	1	1	1	1		1								
Dembi North	24	15	18	34	1	1	1	1		1								
Arjo MW	25	33	35	68	1	1	1	2		1	5	1						1
Chora	22	21	23	35	1	1	1	1		1								
Gore Rep	22	19	20	28	1	1	1	1	4	1								
Mettu	29	20	20	21	1	1	1	1	20		9	1	1					
Muja																		
Sembo West	14	8	8	18	1	1	1	1	16		2	1						1
<West>																		
Addis Ababa																		
Gara Menagesha	53	51	52	57	1	1	1	1	16	1								
Galessa	47	48	49	54	1	1	1	1	16	1								
Wenchi	47	48	49	54	1	1	1	1	16	1								
Ambo	29	15	16	16	1	1	1	1	1.5	1								
Tibebilo	34	38	38	43	1	1	1	1	16	1								
Gara Gordomo	40	37	37	38	1	1	1	1	16	1								
Nekemte	39	37	37	38	1	1	1	1	16		23	1	1					
Arjo MW	39	57	57	95	1	1	1	2	16	2								
Ventiotto	25	26	26	32	1	1	1	1		2								
Billa South	18	19	19	24	1	1	1	1		2								
Billa	1	1	1	1	1	1	1	1	4									
<North West>																		
Addis Ababa																		
Entoto	64	88	94	114	2	2	2	2	4	3								
Gara Guda	69	89	95	115	2	2	2	2	4	3								
Fitze	20	13	13	17	1	1	1	1	8		12	1	1					
Tik Giorgis	56	80	86	99	1	2	2	2		3								
Robit	64	85	91	104	2	2	2	2	4	3								
Debre Markos	64	85	91	109	2	2	2	2	4	3								
Amanuel North	90	94	102	128	2	2	2	3	16	3								
Gara Jobel	84	97	105	132	2	2	2	3	16	3								
Gara Beteria	79	101	108	140	2	2	2	3	4	3								
Merawi North	84	111	118	160	2	2	2	3	16	3								
Bahir Dar	100	143	150	209	2	3	3	4	17	3	3	1						1
Wash Indrias	73	70	70	95	2	2	2	2		1	32	1	1					
Debre Tabor Rep	7	16	16	18	1	1	1	1	8		10	1		1				
Gomita	52	47	46	66	1	1	1	2		1	3	1						1
Gondar	57	47	46	66	1	1	1	2		1	3	1						1
Girgi North	28	26	27	41	1	1	1	1		1								
Ambezo	8	7	7	18	1	1	1	1	8		10	1						1
Dabat West	7	6	6	17	1	1	1	1	7		10	1						1
Wekin	5	2	2	11	1	1	1	1	5		6	1						1

Remarks

Optical fiber cable

* To accommodate the increased intra-area traffic in 01 and 02 areas in addition to the 05 Area traffic connecting to AA-Nazreth cable. Necessary timing is 2005 not 2010.

Supplement to S.Table 9.8-1

In the tables of Chapter 8.8.1, 2 and 5 the microwave links are indicated in a format of table for convenience of calculation though the links have two dimensions.

It might be difficult for readers to find an actual configuration of link in the tables as it is too simplified.

This paper describes how to read the link configuration showing some examples.

Rule 1.	If the row has one station, the figures in the right-side columns of the row shows the data of the link between the station of the row and the station of the same column in the one upper row.
Rule 2.	If the station of the same column does not exist in the one upper column in Rule 1, the figures of the row shows the data of the link between the station of the row and the station of the one left column in the one upper row.
Rule 3.	If the station of either the same column or the one left column does not exist in the upper row in Rule 1 and 2, the figures of the row shows the data of the link between the station of the row and the station of the same column in the closest upper row.
Rule 4.	In case of the first row which has one station, there is no data in the right-side columns of the row as the link does not exist.
Rule 5.	In case of the first row which has one station, the figures of the row shows the data of total capacity dropped into the station.
Rule 6.	If the stations are same in Rule 2, the figures in the right-side columns of the row shows the data of total capacity dropped into

Example 1

S.Table 9.8-1-h Expansion Plan of National Backbone

	Traffic				(2M)				Traffic (STM1)				Base (8th P)		Exp. Total		Exp. Plan (STM1)				
	2005	2010	2015	2020	2005	2010	2015	2020	2M	STM-1	2M	STM-1	2005	2010	2015	2020					
<SouthE & East>																					
1	Addis Ababa																				
2	Mt.Furi	163	173	168	195	3	3	3	4	64	2										
3	Adama West	160	164	167	193	3	3	3	4	32	2										
4	Nazreth	99	89	90	114	2	2	2	2	64	3		1*							1*	
5	Mt.Kubi	110	127	132	157	2	3	3	3	32	2										
<North & NEast>																					
	Irgofet	84	99	92	116	2	2	2	2		1	53	1	1							
	Tita South	54	70	57	87	1	2	1	2		2										
	Dessie	118	121	118	154	2	2	2	3	4	2	24	1								1
6	Tossa	35	35	33	44	1	1	1	1	20	1										
7	Korke	53	66	63	73	1	2	1	2	16		73	2**	1							

How to read:

Line 1	Rule 4	There is no link.
Line 2	Rule 1	Link of Addis Ababa-Mt.Furi
Line 3	Rule 1	Link of Adama West-Mt.Furi
Line 4	Rule 2	Link of Nazreth-Adama West
Line 5	Rule 3	Link of Mt.Kubi-Adama West
Line 6	Rule 1	Link of Tossa-Dessie
Line 7	Rule 3	Link of Korke-Irgofet