

PART 2

DATA BOOK FOR FEASIBILITY STUDY

1-2-65

DATA 1 OF PART 2

FIELD SURVEY DURING THE FEASIBILITY STUDY

EXCHANGE SITE SURVEY

This exchange site survey was conducted to verify available space for telephone switching systems, including MDF, battery banks, engine generators which may be introduced under the proposed local network expansion project in Colombo Metro Area or one of the priority projects proposed in JICA Master Plan.

The situation presented in this report is that at the moment of the field survey though information then available was taken into account. The situation is subject to change by coming projects. The situation should be verified again at the stage of detail design.

Before this survey, JICA Team asked SLT to provide the Team with actual layout of equipment in the switch room of all the exchanges in Colombo Metro Area. Information to this request has not been available yet to the Team on the date of survey.

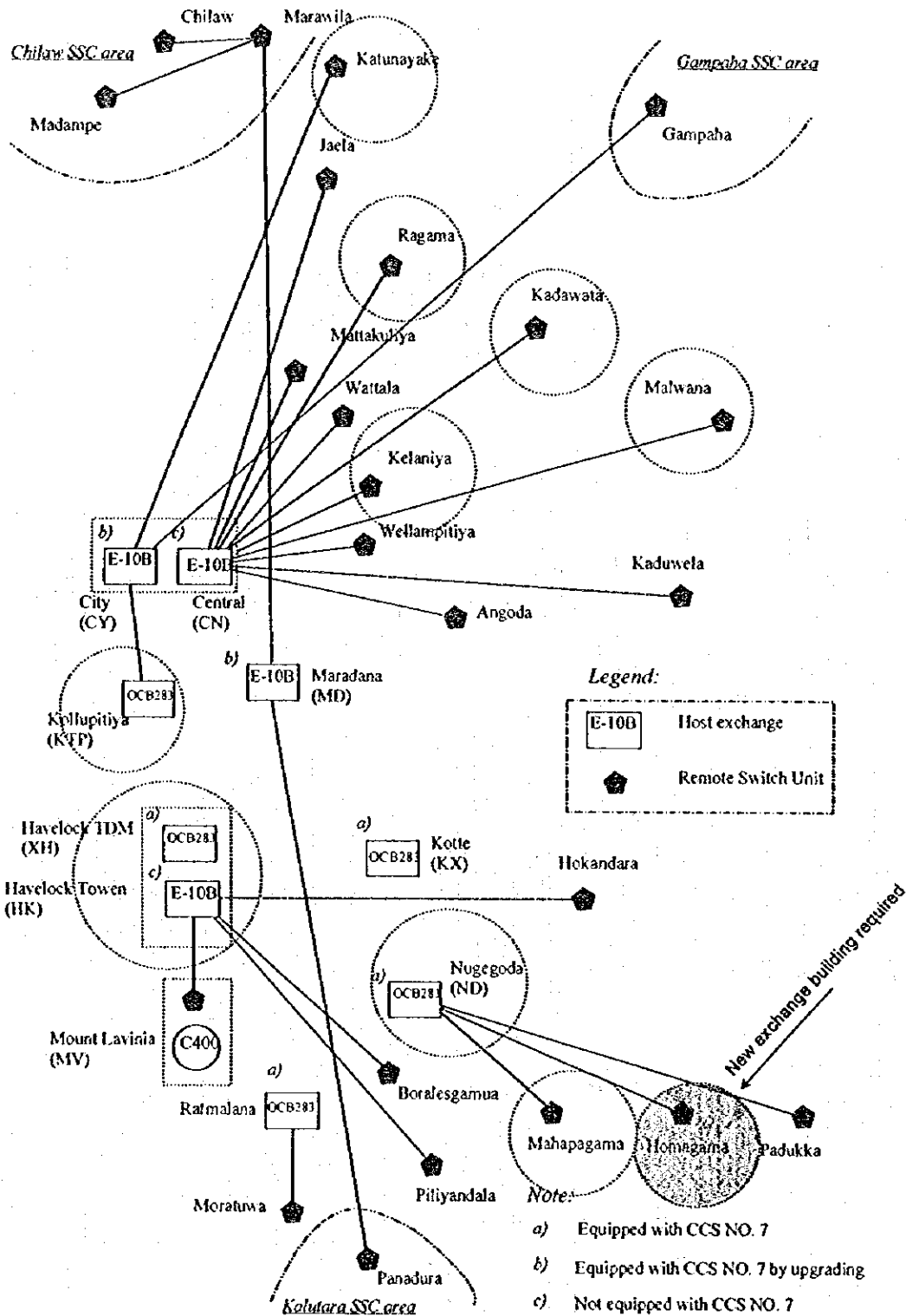
This site survey was conducted;

by

- a) Mr. Y. Ishihara, JICA member;
- b) Mr. D. S. Rahaman, Engineer, Switching Planning Section, SLT;
- c) Mr. M. S. Samarasinghe, Engineer, Switching Planning Section, SLT.

on

22nd and 23rd November, 1995.



Havelock Town

on 22/Nov/1995

a) Switching system room:

Space will be available by removal of existing E-10B switch in the year 2000. The existing E-10B switch should be replaced by new one under the proposed project in the year 2000 because it will be 17 years old in that year as it started operation in 1983.

There are two switch rooms in the building: one for E-10B and other for OCB-283. Capacity expansion is planned under French protocol for OCB-283. This will use the room of the existing OCB-283 switch. E-10B switch room will not be used for this purpose.

The proposed project envisages introduction of a new switch unit of approximately 18,000 (tentative calculation for space study) subscriber lines.

b) MDF room:

Space is enough for a new switching system.

c) Power room:

Space is enough for a new switching system.

Battery bank capacity was 1,400 AH for OCB-283 and 3,000 AH for E-10B.

Engine-generator capacity was 500 KVA.

Electric current consumption read as 170 Amp/14,500 subscribers for OCB-283 and 800Amp/14,600 subscribers for E-10B.

OCB-283's rectifier units were situated in its maintenance work room next to the switch room.

Homagama

on 22/Nov/1995

a) Switching system room:

Space will be insufficient for a new switching unit, because a 2,500-line expansion under 150K project will occupy the existing free space available at present. Two different technology's switches will coexist. The building is of SLT standard.

New space is required for the proposed project in 2000. The proposed project envisages introduction of new switch unit of approximately 2,600 (tentative calculation for space study) subscriber lines.

Existing switching unit is a remote switch unit introduced in 1983 under Nugegoda OCB-283.

b) MDF room:

Same as a).

c) Power room:

Same as a).

Kollupitiya

on 22/Nov/1995

a) Switching system room:

Space will be available by removal of existing OCB-283 switch in the year 2000. The existing OCB-283 switch will be replaced by AXE-10 under the on-going project (WB-ICB) before 1997. The new exchange AXE-10 is under installation on another floor of the building. The space occupied by OCB-283 at present will be available for the new unit under the proposed project in 2000.

The proposed project envisages introduction of a new switch unit of approximately 6,400 (tentative calculation for space study) subscriber lines.

b) MDF room:

Space is enough for a new switching system.

c) Power room:

Space is enough for a new switching system.

Electric current consumption read as 160 Amp/5,425 subscribers for OCB-283.

Maharagama

on 22/Nov/1995

a) Switching system room:

Space will be available in the new building which is under construction. The existing building is almost full and no room for new unit of switching system.

A new exchange with the capacity of 10,000 subscriber lines will be introduced under 150K project before 1997. The existing unit and the new unit will coexist, being situated in separate building.

The proposed project envisages introduction of a new switching unit of approximately 8,000 (tentative calculation for space study) subscriber lines.

b) MDF room:

Space is enough for a new switching system.

c) Power room:

Space is enough for a new switching system.

Nugegoda

on 22/Nov/1995

a) Switching system room:

Space will be available provided that a certain rearrangement of rooms is done. Office space may be involved in the rearrangement. The maintenance work room may be used for the new switch unit for proposed project in 2000.

The existing exchange OCB-283 will be expanded by its additional capacity of 7,000 subscriber lines under French Protocol before 1997. Its capacity will come up to 22,128 by the expansion.

The proposed project envisages introduction of a new switch unit of approximately 18,000 (tentative calculation for space study) subscriber lines.

b) MDF room:

Space will be available by rearrangement of rooms. Office spaces may be involved in the rearrangement.

c) Power room:

Space is enough for a new switching system.

Engine-generator, the capacity of which is 175 KVA, was introduced in the same year as the OCB-283 or in the year 1993. The capacity will be enough to cater for another new switch unit.

Kellaniya

on 23/Nov/1995

a) Switching system room:

Space will be enough for another unit of switch. A new switch room has been prepared and a new switch unit of AXE-10 is under installation in the room. The existing remote switch unit is placed under Central North (E-10B). The space now occupied by the RSU will be available after its removal.

The new exchange AXE-10 will have a capacity of 7,800 replacing the existing RSU before 1997.

The proposed project envisages introduction of a new switching unit of approximately 8,000 (tentative calculation for space study) subscriber lines.

b) MDF room:

Space is enough for a new switching system.

c) Power room:

Space is enough for a new switching system.

The existing engine-generator of 30 KVA will be replaced soon in harmony with the new switch introduction.

Kadawata

on 23/Nov/1995

a) Switching system room:

Space will be enough for a new switch. The switch room is of standard type. The switch room may accommodate more than 8,000 lines of switching unit after the existing RSU is removed. AXE-10 switching unit is under installation with initial capacity of 2,500, which will be expanded up to 3,800 before 1977. The new switch unit will replace the existing RSU.

The existing remote switch unit of 1,024 subscriber line capacity is placed under Central North (E-10B).

The proposed project envisages introduction of a new switching unit of approximately 4,000 (tentative calculation for space study) subscriber lines.

b) MDF room:

Space is enough for a new switching system.

c) Power room:

Space is enough for a new switching system.

Ragama

on 23/Nov/1995

a) Switching system room:

Space will be enough for a new switch. The switch room is of standard type. The switch room may accommodate more than 8,000 lines of switching unit after the existing RSU is removed. AXE-10 switching unit is under installation with a capacity of 2,800. The new switch unit will replace the existing RSU.

The existing remote switch unit of 480 subscriber line capacity is placed under Central North (E-10B).

The proposed project envisages introduction of a new switching unit of approximately 2,500 (tentative calculation for space study) subscriber lines.

b) MDF room:

Space is enough for a new switching system.

c) Power room:

Space is enough for a new switching system.

Ja Ela

on 23/Nov/1995

a) Switching system room:

Space will be enough provided that rearrangement of rooms is done, because the space formerly occupied by SXS switch is available.

AXE-10 switching unit is under installation with a capacity of 6,500. The new switch unit will replace the existing RSU.

The existing remote switch unit of 1,280 subscriber line capacity is placed under Central North (E-10B).

The proposed project envisages introduction of a new switching unit of approximately 6,000 (tentative calculation for space study) subscriber lines.

b) MDF room:

Space is enough for a new switching system.

c) Power room:

Space is enough for a new switching system.

Katunayake

on 23/Nov/1995

a) Switching system room:

Space will be enough because a large room has been provided to switching equipment and transmission equipment.

AXE-10 switching unit is under installation with a capacity of 6,500 in the new switch room. The new switch unit will replace the existing RSU situated in the old building.

The existing remote switch unit of 2,000 subscriber line capacity is placed under Central North (E-10B).

The proposed project envisages introduction of a new switching unit of approximately 5,000 (tentative calculation for space study) subscriber lines.

b) MDF room:

Space is enough for a new switching system.

c) Power room:

Space is enough for a new switching system.

Engine-generator of 97 KVA is under installation together with the AXE-10 switch unit. The existing engine-generator is planned to transfer to other exchange by SLT.

New battery bank's capacity is 800 AH x 4 unit = 3,200 AH.

Summary

The table below shows the space for the new switching units to be introduced under the Colombo Metro Local Network Expansion Project, of visited exchanges under this field survey, which is proposed as one of the priority projects in the Master Plan conducted by JICA.

Exchange	Cap. Y97	Dem. 05	Capacity increase			Cap. Y00	Space		
			Total	New SW.	SW. Exp.		Switch	MDF	Power
Angoda	1,024	4,741	3,720	3,720	0	4,741			
Boralesgamuwa	6,548	5,646	0	0	0	6,548			
Central	89,620	97,108	0	0	0	89,620			
Havelock	31,000	49,617	18,620	18,620	0	49,617	Av.	Av.	Av.
Hokandara	2,524	3,177	0	0	0	2,524			
Homagama	3,000	5,560	2,560	0	2,560	5,560	New	New	New
Ja-Ela	6,500	12,291	5,800	5,800	0	12,291	Av.	Av.	Av.
Kadawala	3,800	8,204	4,410	4,410	0	8,204	Av.	Av.	Av.
Kaduwela	1,024	3,172	2,150	0	2,150	3,172			
Kalunayake	5,000	9,970	4,970	4,970	0	9,970	Av.	Av.	Av.
Kelaniya	7,800	15,712	7,920	7,920	0	15,712	Av.	Av.	Av.
Kollupitiya	8,500	14,905	6,410	6,410	0	14,905	Av.	Av.	Av.
Kotte	24,000	36,453	12,460	12,460	0	36,453			
Maharagama	11,800	19,844	8,050	8,050	0	19,844	Av.	Av.	Av.
Malwana	1,024	3,031	2,010	0	2,010	3,031			
Maradana	26,536	38,930	0	0	0	26,536			
Mattakkuliya	8,825	8,362	0	0	0	8,825			
Mallegoda	3,000	3,161	0	0	0	3,000			
Minuwangoda	800	2,979	2,180	0	2,180	2,979			
Moratuwa	6,000	10,395	4,400	4,400	0	10,395			
Mount Lavinia	17,750	34,745	17,000	17,000	0	34,745			
Nugegoda	22,128	40,017	17,890	17,890	0	40,017	Av.	Av.	Av.
Padukka	2,000	1,905	0	0	0	2,000			
Piliyandala	5,000	9,930	4,930	4,930	0	9,930			
Raddolugama	1,000	3,192	2,200	0	2,200	3,192			
Ragama	2,800	5,317	2,520	0	2,520	5,317	Av.	Av.	Av.
Ratmalana	7,000	13,297	6,300	6,300	0	13,297			
Rukmalgama	1,000	1,054	0	0	0	1,000			
Waltala	8,000	12,516	4,520	4,520	0	12,516			
Wellampitiya	1,024	4,395	3,380	3,380	0	4,395			
Total	316,027	479,626	144,400	130,780	13,620	460,336			

LEXSA Feasibility

Note: Figures are tentative and subject to change by further study.

Av.: Space is available.

New: Space should be newly provided.

(Over)

FIELD SURVEY FOR CENTRAL RING FIBRE OPTIC TRANSMISSION NETWORK PROJECT

1. Outline of the Field Survey

Member of the JICA study team carried out the field survey for Central Ring Fibre Optic Transmission Network Project in association with counterparts from SLT. Objectives of the survey were 1) Confirmation and data collection about existing telecommunications facility related to the project and 2) Cable route study.

2. Member and Schedule of the Field Survey

Member:

Mr. Isao YAMAGUCHI (JICA)

Mr. Daisuke OKEDA (JICA)

Mr. K. Vicknarajah (SLT) (on November 13 only)

Mr. W. D. Chandana Gunasekara (SLT)

Schedule:

Dale	Route	Exchange Site	Distance (Km)	Stay
November 13 (Mon.)	Colombo - Ratmalana - Moratuwa - Kalutara - Ratnapura - Avissawella - Colombo	Ratmalana Moratuwa Kalutara Ratnapura	43 km 77 km 43 km 58 km... Total 221 km	Colombo
November 15 (Wed.)	Colombo - Avissawella - Nawarapitiya - Hatton - Nuwara Eliya	Avissawella Nawarapitiya Hatton	58 km 55 km 45 km 55 km ... Total 213 km	Nuwara Eliyal
November 16 (Thurs.)	Nuwara Eliya - Kandy - Kegalle - Kurunegala - Kandy	Nuwara Eliya Kandy Kegalle Kurunegala	77 km 39 km 32 km 42 km ... Total 190 km	Kandy
November 17 (Fri.)	Kurunegala - Chilaw - Negombo - Gampaha - Colombo	Chilaw Negombo Gampaha	50 km 45 km 25 km 35 km ... Total 155 km	Colombo
			Total 779 km	

3. Findings on the Survey at the Exchange

(1) Ratmalana Exchange

Enough space at MDF room. Two F.O. cables are installed with duct system.

(2) Moratuwa Exchange

Duct system of the Colombo Metro reach to here and is terminated. PCM room is very small with only one rack existing. Battery room is full with two sets of 2 bank battery systems. These battery will be replaced to the power room situated at next door.

PCM room is expandable easily.

(3) Kalutara Exchange

Transmission room has been expanded. New transmission systems have been installed recently. Those are ADB trunk transmission system (M/W, Fujitsu) and W/B spur transmission system (M/W, NEC). Some space are reserved for new F.O system under 150k project. Old analogue M/W radio transmission system with MUX and old PCM system will be replaceable after completion of 150k project. Existing PCM system of Kalutara - Matugama is buried directly.

After the replacement, that space will be used for future projects.

(4) Ratnapura Exchange

Transmission room is fully occupied by existing systems. There are M/W radio system between Suriyakanda repeater station, analogue MAS system which covers Kataragama area 70 km apart from the base station at Suriyakanda and large A/C system. Capacity of M/W radio system (68M bps) is divided to two set of 34M bps, and one of this 34M bps capacity is used for Mobitel transmission link. Analogue MAS system has installed here because of advantage of the base station position which is at Suriyakanda. Isolated places in Ratnapura district, Hambantota district and Monaragala district can be get line of sight from that base station. Because of the difficulty of getting line of sight of some places as Kataragama from other places, that analogue MAS system will remain for years. They have six (6) direct buried PCM systems which run to Bambarabotawa, Kalawana, Kiriella, Nivitigala and Pelmadulla (2 systems). Troubles for those direct buried cables, mainly happened by accidental road work have occurred once a year per each cable on average.

Next to the transmission room is the exchange room and there are enough space for expansion. Some space next to the wall between transmission room have been booked already for transmission equipment of 150k project. This corner is regarded as expandable space for transmission system. Here it is enough space for further installation.

(5) Avissawella Exchange

Existing systems are all PCM direct cable systems. Analogue MAS system will remain a few years. New F. O. system will be constructed between Avissawella and Glencourse radio repeater station under 150k project. Old PCM and MUX will be removed soon.

There are enough space for expansion even after 150k project.

(6) Nawarapitiya Exchange

Existing transmission systems are 30 channels of pair cable system which connects here to Hatton and physical cable systems to three (3) RSUs. Nawarapitiya - Hantana - Kandy radio link under ADB project and Nawarapitiya - three (3) RSU links under WB/Spur project are going on.

There are enough space for other projects in future.

(7) Hatton Exchange

Cable PCM systems and analogue MAS systems are existing facilities. ADB project and WB/Spur project are going on for new transmission links.

Some old systems will be removed after ADB project completion.

(8) Nuwara Eliya Exchange

Existing systems are one system of radio transmission and seven systems of cable PCM which are all direct buried. ADB project is going on.

There are enough space for future projects.

(9) Ramboda Exchange

This is a small RSU exchange located on the way between Nuwara Eliya and Kandy. This exchange may be nominated as a repeater station. Distance from here to Nuwara Eliya is about 30 km and 50 km to Kandy. Space for equipment is available.

(10) Kandy Exchange

There are many equipment in the transmission room, mainly MUX equipment for cable PCM systems. New equipment for ADB project has been installed. Equipment space for 150k project has not been decided.

XB exchange room placed next door will be utilised for future transmission room expansion.

(11) Kegalle Exchange

There are a few racks for MUX, radio and PCM equipment. New DMARS system is installed recently. Some space has been reserved for 150k project.

There are enough space for future projects.

(12) Kurunegala Exchange

Analogue MAS system, analogue MUX system and digital MUX system are working systems. Recently DMARS system has been installed. MUX and radio equipment for ADB project has just settled and been under installation. Some space is reserved for 150k project.

There are enough space for future projects.

(13) Chilaw Exchange

Exchange building is old and one-storey. There are separated transmission room and radio room. Both rooms are filled by equipment. There are an E10B RSU and MDF in the transmission room. Old equipment for analogue transmission link between Colombo and Anuradhapura is also installed in the transmission room. Analogue MAS and small capacity radio systems are installed in the radio room. Some equipment is expected to be installed under ADB and 150k project. Details are not in clear.

New third-storeys exchange building is under construction at the near site. Tall tower for radio is also located. New equipment will be installed in this building.

(14) Negombo Exchange

Transmission room is very crowded with many equipment. ADB project is going on and analogue systems will be replaced after ADB project commission.

It is difficult to find another room for future project. Old equipment should be removed immediately after expiration.

(15) Kotugoda Site

There is a wide field belongs to SLT at Kotugoda area. In this area, there is facility for maritime communications and storage. This place is proposed for new ISC, TSC and earth station site. The place next to army area covers an area of about 380 acres, and is suitable for new telephone facility centre. Besides, this site is located between Negombo and Gampaha, so it is easy to be covered by Central Ring.

(16) Gampaha Exchange

Transmission room has been expanded to the next room. Expanded space is occupied by GCTNIP-II equipment. Those are F. O. equipment and M/W equipment.

There are not so much space for future projects in the old room space.

Space Availability for Transmission Equipment

No.	Exchange	Floor Space (mm)	Exist. Major Facilities	Future Facilities	Space Availability	Remarks
1	Colombo				Yes	
2	Gampaha	6,000 x 4,000	FO (GCTNIP) DR (GCTNIP)	None	Difficult	Old systems will be removed.
3	Kotugoda	-	-	-	-	Proposed New ISC/TSC Site.
4	Negombo	9,000 x 4,000	DR (ADB) DR AR AMAS	None	Difficult	Old systems will be removed.
5	Chilaw	-	-	150K	Yes	New Building
6	Kurunegala	6,000 x 4,000	DR (ADB) PCM AMAS	150K	Yes	
7	Kegalle	6,000 x 3,500	DR PCM DMAS	150K	Yes	
8	Kandy	x 6,000	DR (ADB) FO PCM	150K OECF-Region	No	XB exchange room will be utilised.
9	Nuwara Eliya	6,000 x 4,000	DR (ADB) DR PCM	150K	Yes	
10	Halton	7,000 x 6,000	DR (ADB) PCM AMAS	WB/Spur OECF-Region	Difficult	Some old systems will be removed.
11	Nawalapitiya	7,000 x 6,000	DR (ADB) MUX	WB/Spur	Yes	
12	Avissawella	6,000 x 5,000	DR PCM AMAS	150K	Yes	Some old systems will be removed soon.
13	Ratnapura	6,000 x 4,000	DR PCM AMAS	150K	No	Exchange room will be used for new equipment.
14	Kalutara	x 4,000	DR (ADB) DR (WB/Spur) DR PCM Mobitel	150K	Yes	Some old systems will be removed.

Note: FO... Fibre Optic cable system with MUX
 DR... Digital Radio system with MUX
 AR... Analogue Radio system with MUX
 PCM... Cable PCM system
 DMAS... Digital Multi Access System (Radio)
 AMAS... Analogue Multi Access System (Radio)
 Mobitel... a cellular mobile telephone company
 GCTNIP... Greater Colombo Telecommunications Network Improvement Project
 ADB... Trunk transmission project funded by ADB
 WB/Spur Spur link transmission project funded by WB
 150K... 150K project
 OECF- Region... Regional telecom. project funded by OECF of Japan

Data: SLT, Site Survey

4. Cable Route Study

Cable route study was carried out by investigation of the road condition from the vehicle. Rough sketch of the route was drawn and bridges were studied on length, material and trenches. Also several typical culverts were studied. The following drawings are the results of these studies.

Colombo Central Ex. - Moratuwa Ex.

Route Distance : 20.3 km (all conduit)

Existing Duct Length : 20.3 km

Civil Work : 0 Km

PVC Pipe

Steel Pipe

Moratuwa Ex.

Rasmalana Ex.

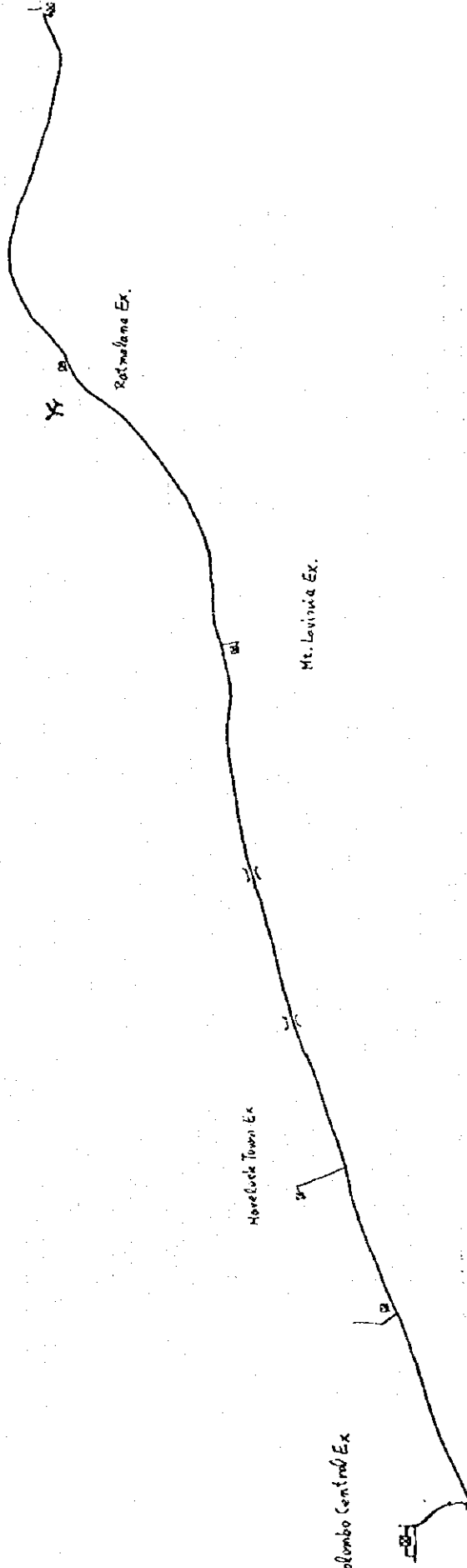
Mt. Lavinia Ex.

Marebuck Town Ex.

Indian Ocean

Colupitiya Ex.

Colombo Central Ex.



Moratuwa Ex. - Kalutara Ex.

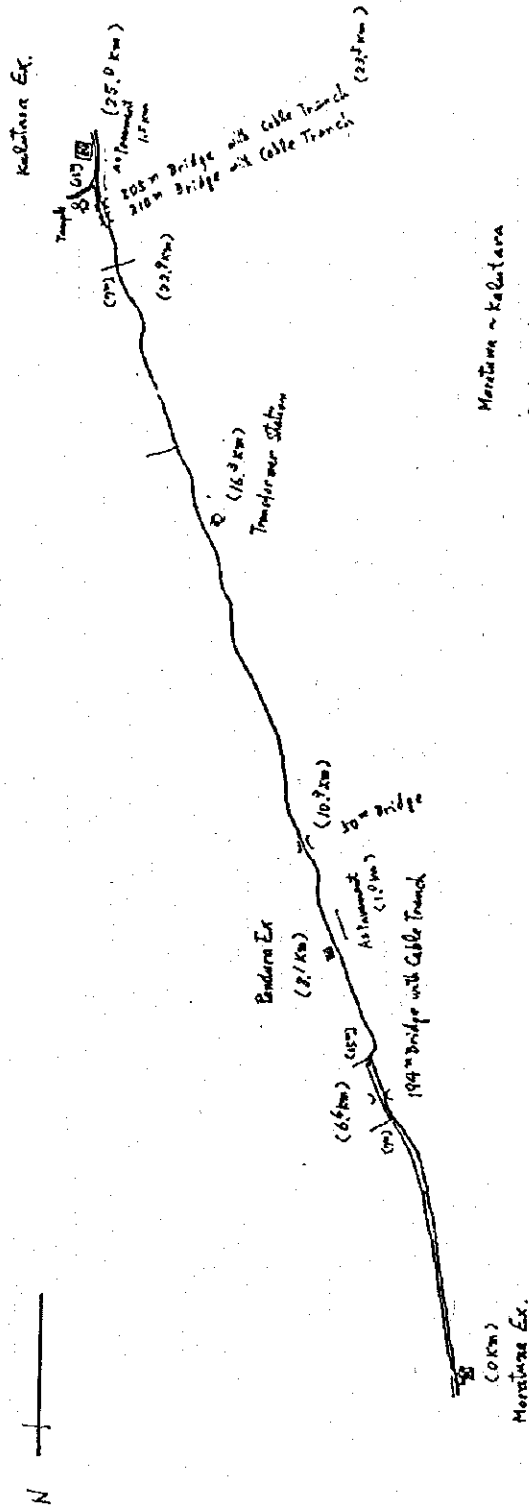
(Colombo Central)

Cable Tranche in Kalutara Exchange.

5 concrete ducts (4 used, 1 empty)

- 400/5 400/5 5T-5T
- 500/4 500/4 PCH
- 500/4 500/4 direct buried cable
- (B) (A) (Lead sheath)

will be removed (2018 project)



Moratuwa ~ Kalutara

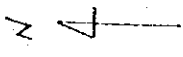
Route Distance 25.0 km

Civil Work for buried cable

- Soil Surface Tranche : 22.4 km
- Asphalt Surface Tranche : 2.5 km
- Concrete Block Surface Tranche :
- Road Crossing : 0.1 km (5 sections)
- Bridge Crossing : 0.7 km (4 sections)

25.0 km

Kabutar Ex. - Ratunapura Ex.

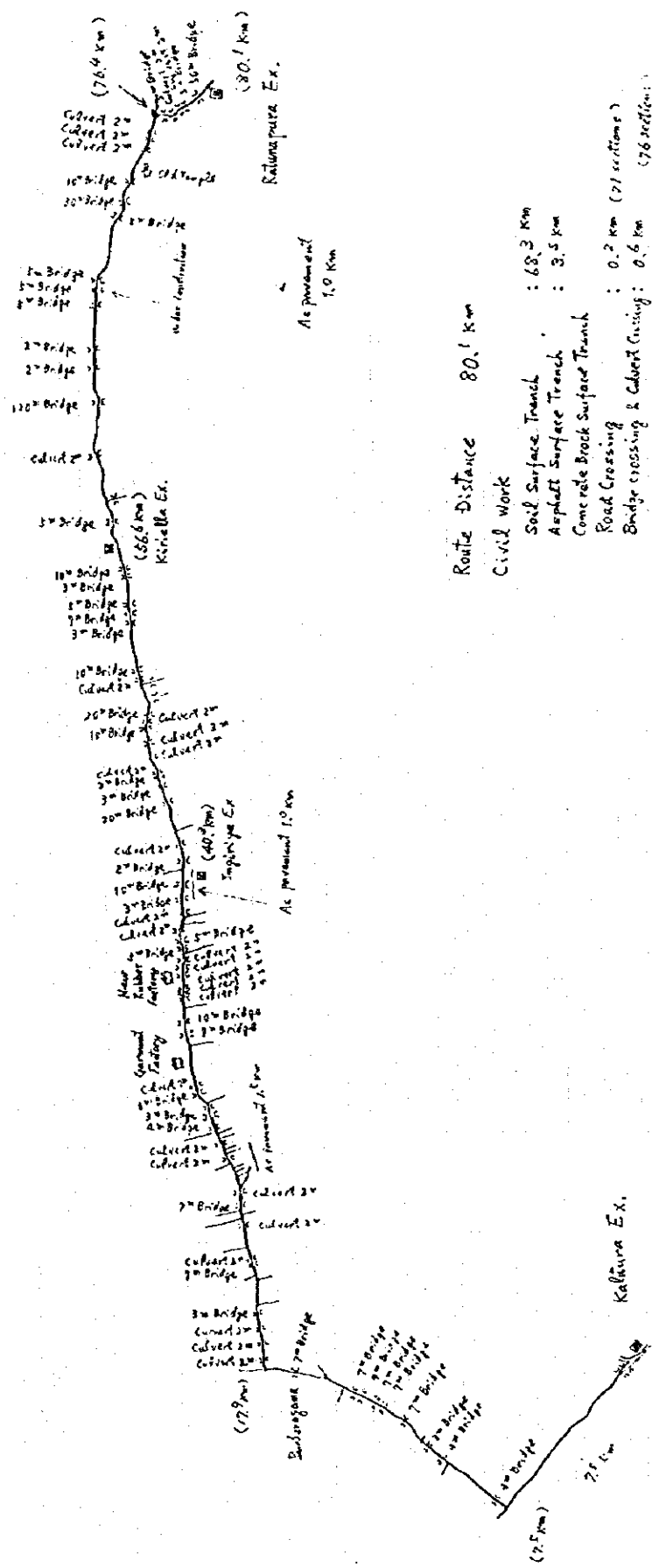


Cable Trench in Ratunapura Ex



PCM
5820A

6 PVC ducts (5 used, 1 empty)

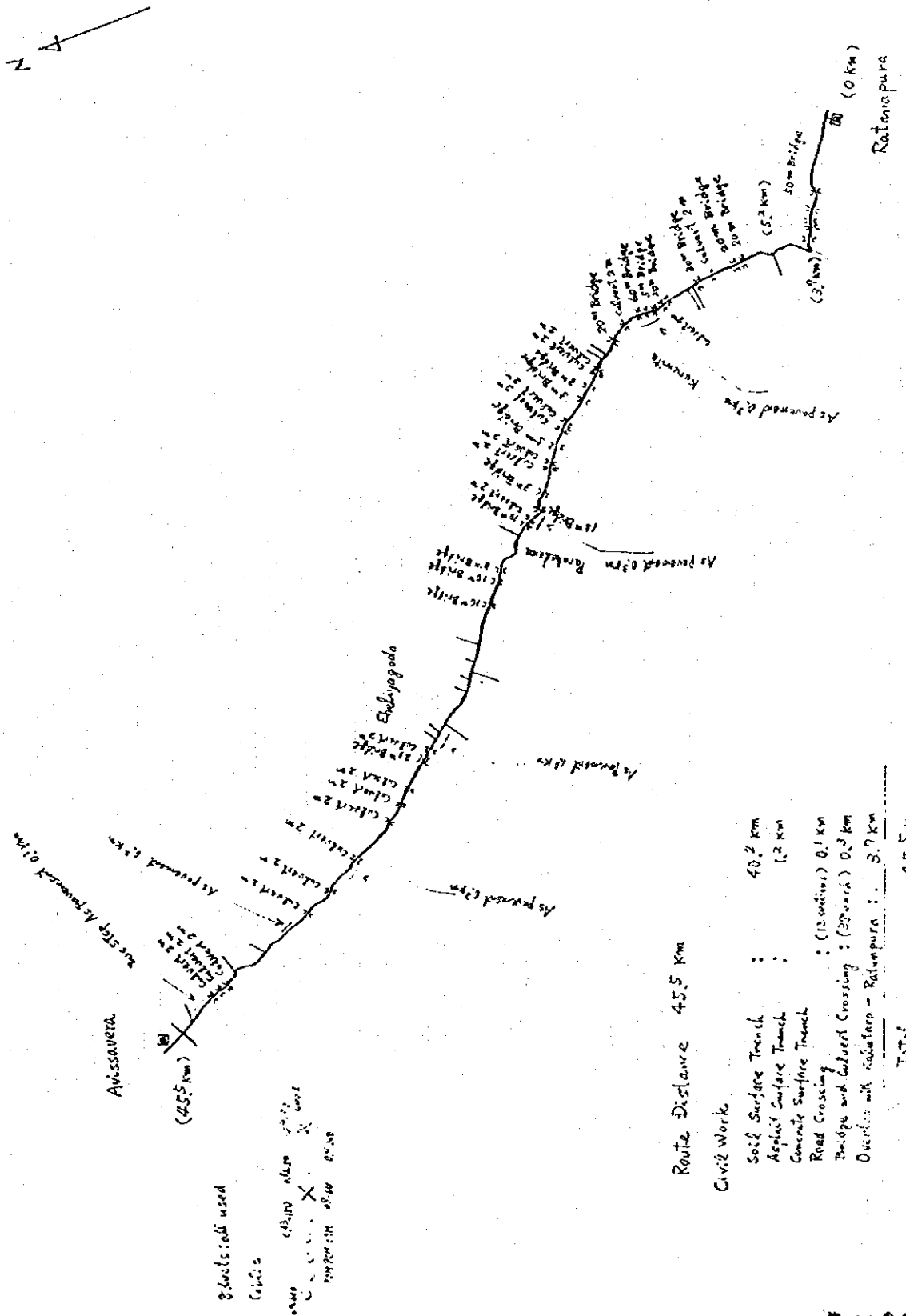


Route Distance 80.1 km

Civil work

- Soil Surface Trench : 68.3 Km
 - Asphalt Surface Trench : 3.5 km
 - Concrete Block Surface Trench
 - Road Crossing & Culvert Crossing : 0.2 km (21 sections)
 - Bridge Crossing & Culvert Crossing : 0.6 km (76 sections)
- Overlap with Marattara - Kalauna : 7.5 km
-
- Total 80.1 km

Ratnapura Ex - Avissawella Ex



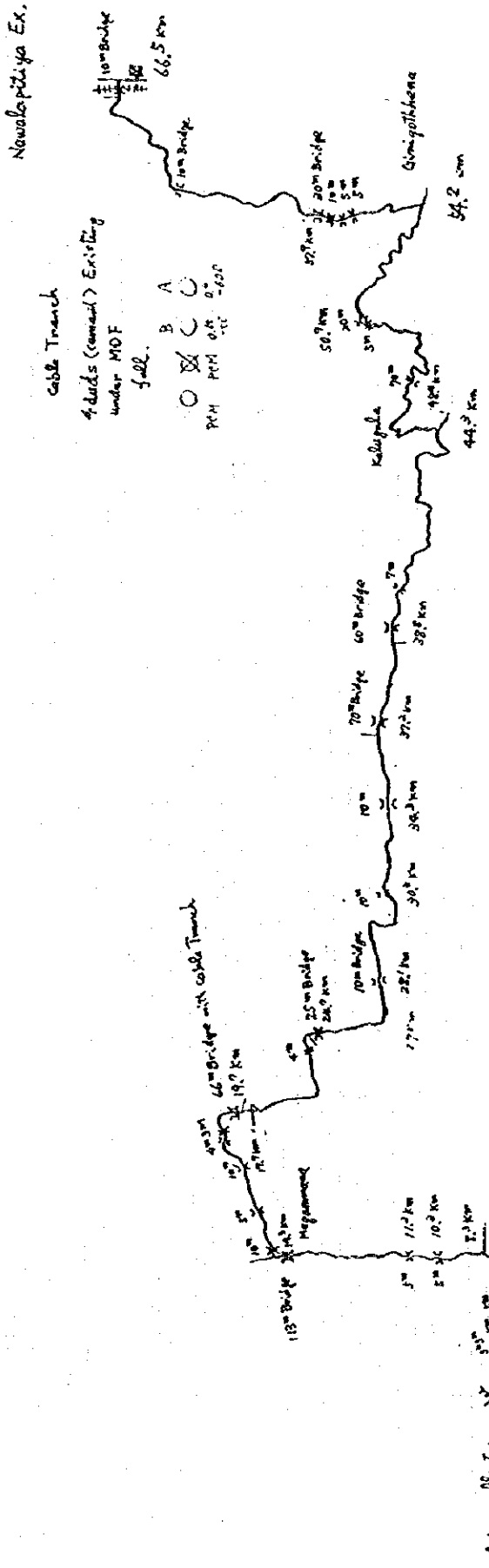
8.6m x 1.0m used
 6.0m x 1.0m used
 4.0m x 1.0m used
 2.0m x 1.0m used

Route Distance 45.5 km

Civil Work

Soil Surface Trench	: 40.2 km
Asphalt Surface Trench	: 1.2 km
Concrete Surface Trench	: (13 sections) 0.1 km
Road Crossing	: (23 roads) 0.3 km
Overpass with Culvert - Ratnapura	: 3.7 km
Total	45.5 km

Avisavella Ex. - Namalapatiya Ex. 58.6 km



Route Distance : 66.5 km

Cable Trench under the MDF

Structs : fall

Navalapatiya Ex. - Hatton Ex.

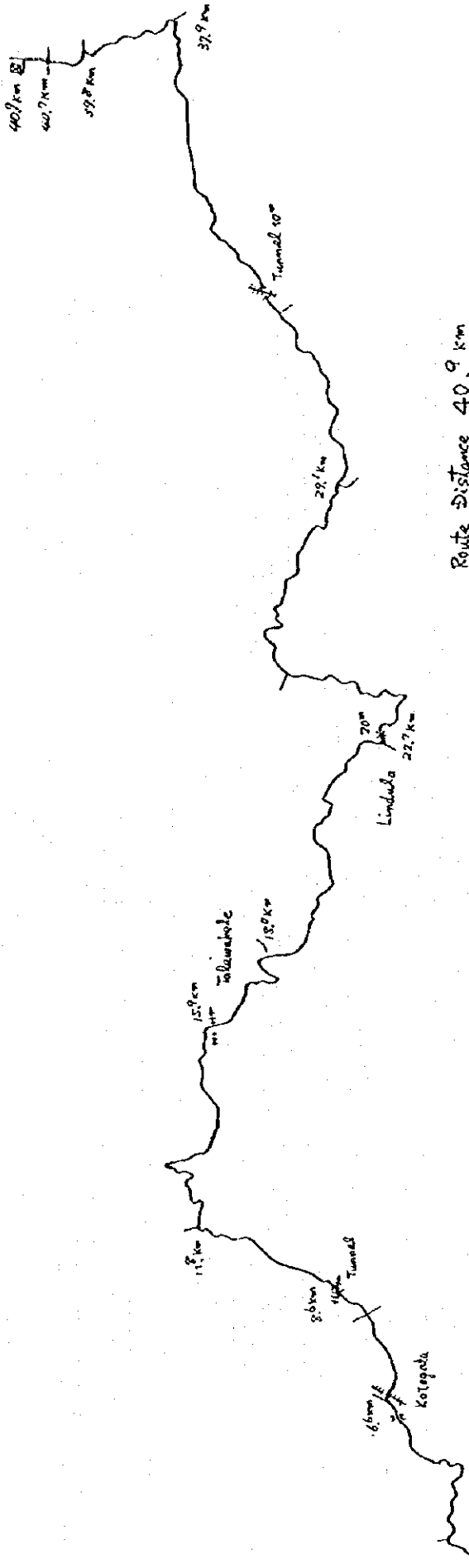


Route Distance : 33.1 km

Hatton Ex. - Nuwara Eliya Ex.

Nuwara Eliya Ex.

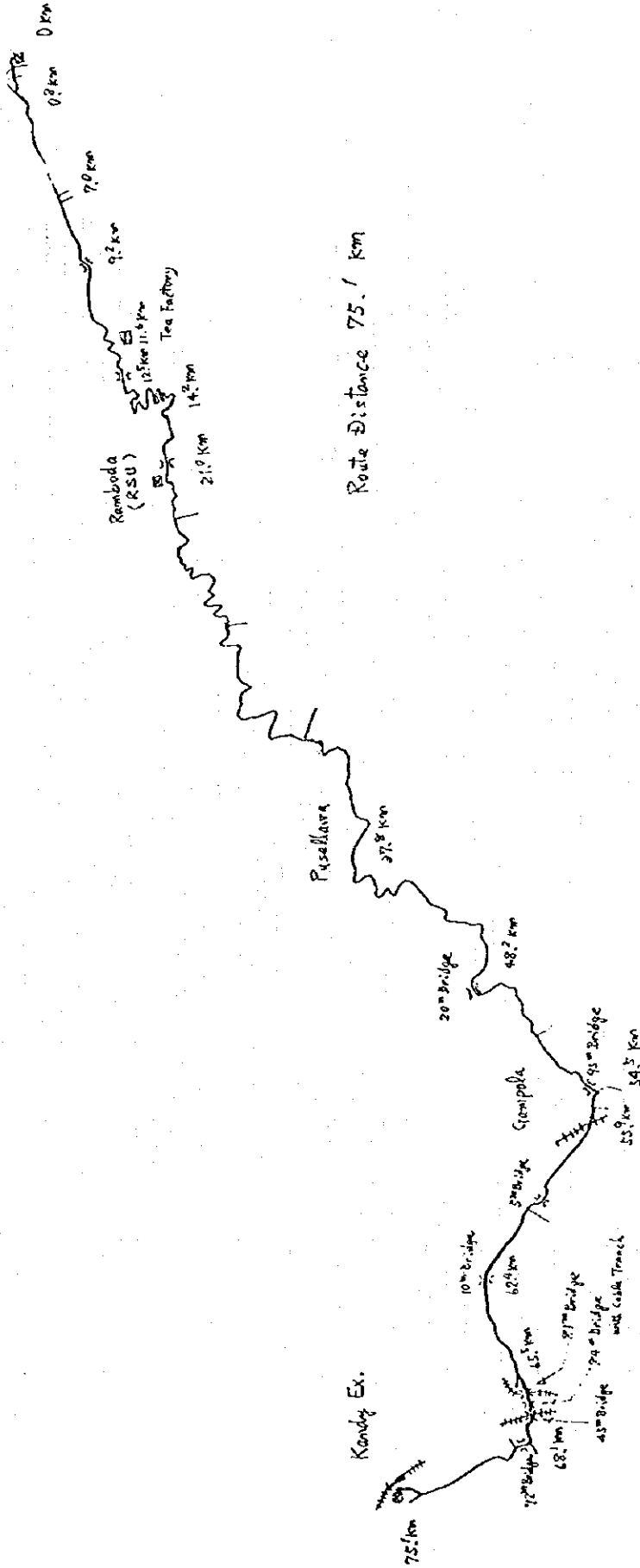
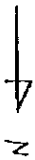
11 cuts (all used)



Route Distance 40.9 km

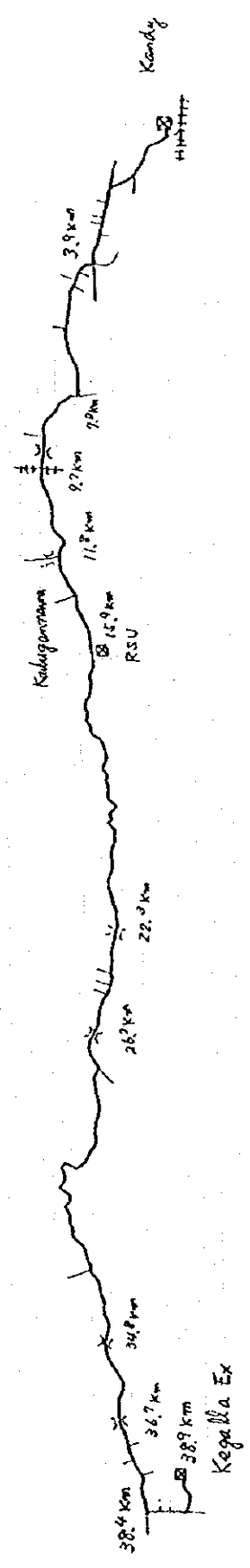
Nuwara Eliya Ex. - Kandy Ex.

Nuwara Eliya Ex.



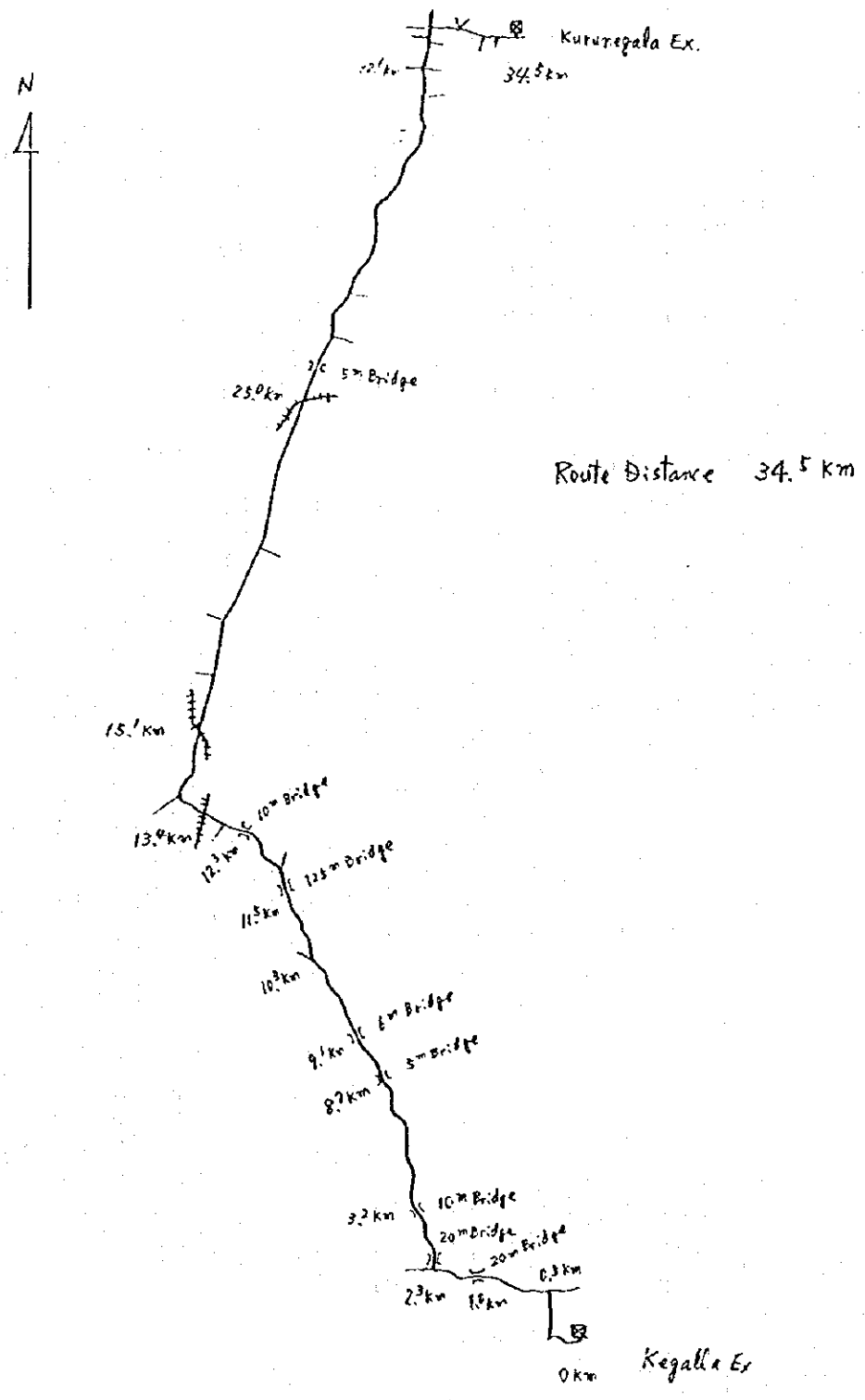
Route Distance 75.1 Km

Kandy Ex. - Kegalla Ex.

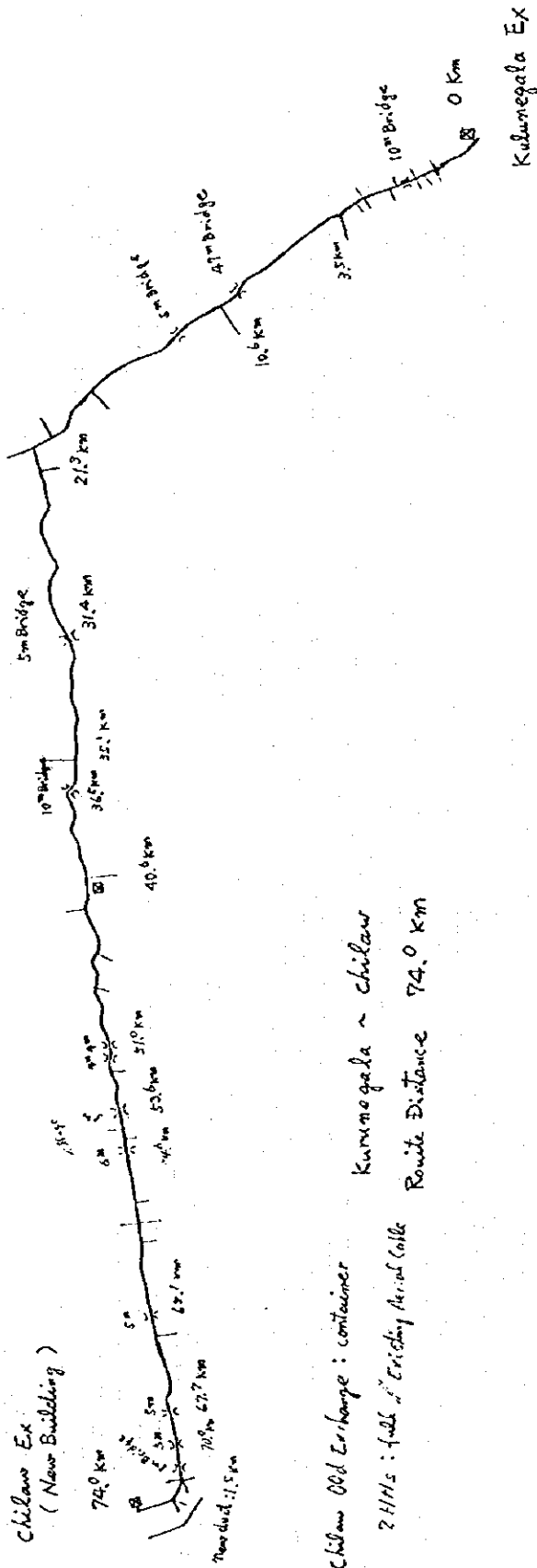


Route Distance 38.9 km

Kegalla Ex. - Kurunegala Ex.



Kurumegala Ex. ~ Chilaw Ex.



Chilaw Old Exchange : container
 Kurumegala ~ Chilaw
 Route Distance 74.0 km

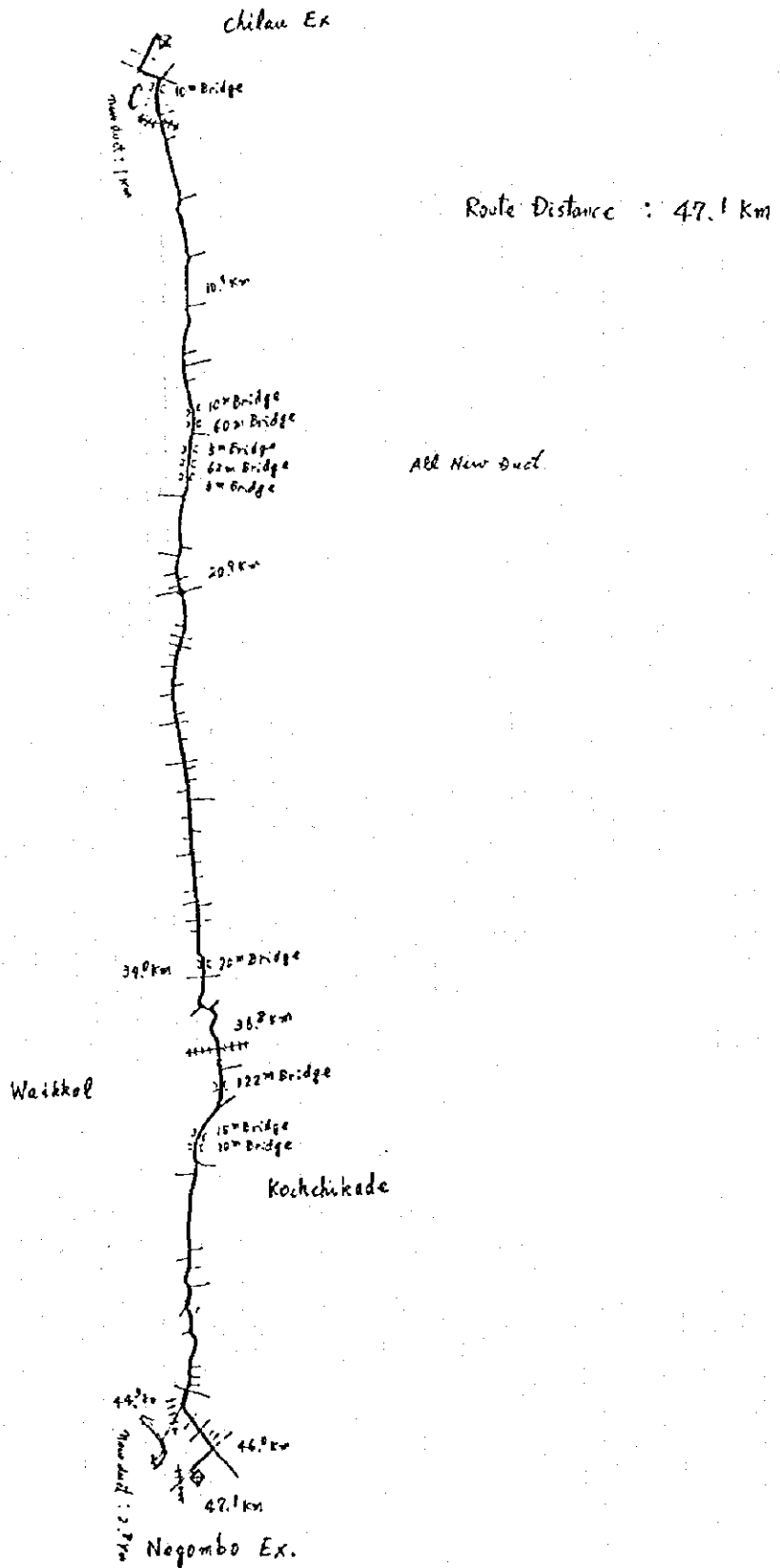
2 HMs : full of Existing Aerial Cable

Cable Trench

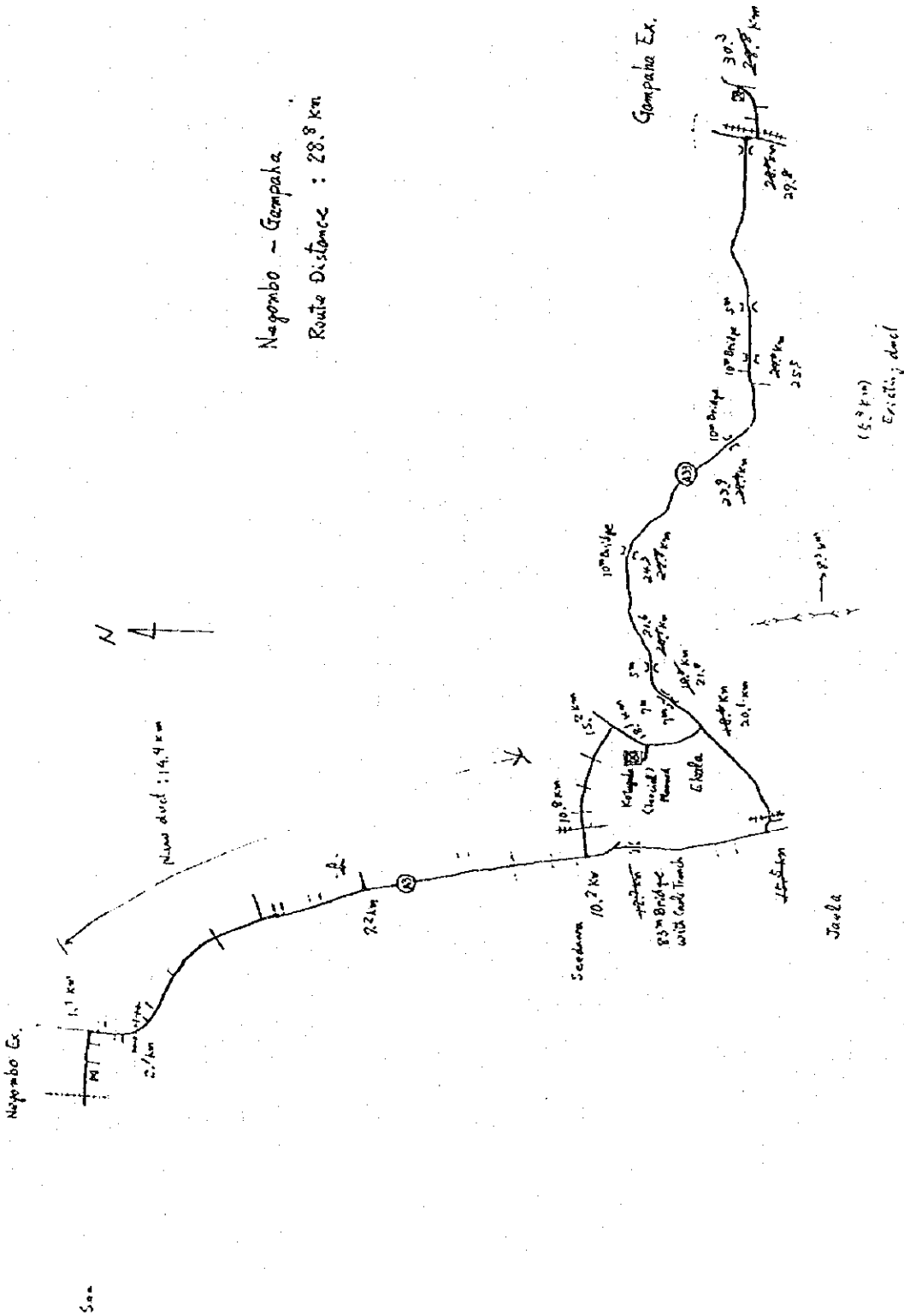
- ○ ○ ○
- ⊗ ⊗ ⊗ ⊗
- ⊗ ⊗ ⊗
- ⊗ ⊗ ⊗

2 ducts : Empty

Chilaw Ex. - Negombo Ex. 49.1 km



Nagombo Ex. - Gampaha Ex.



Nagombo - Gampaha

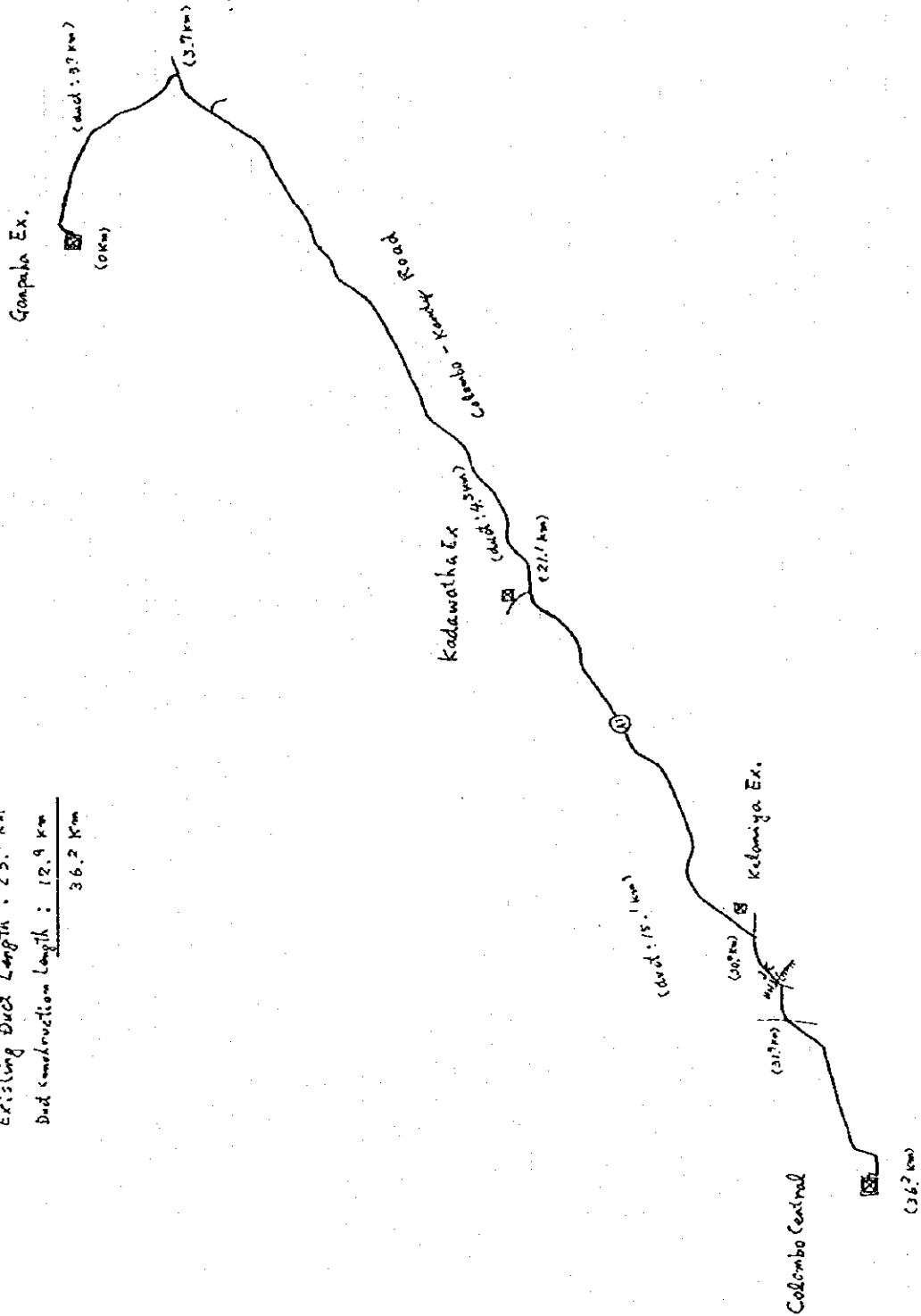
Route Distance : 28.8 km

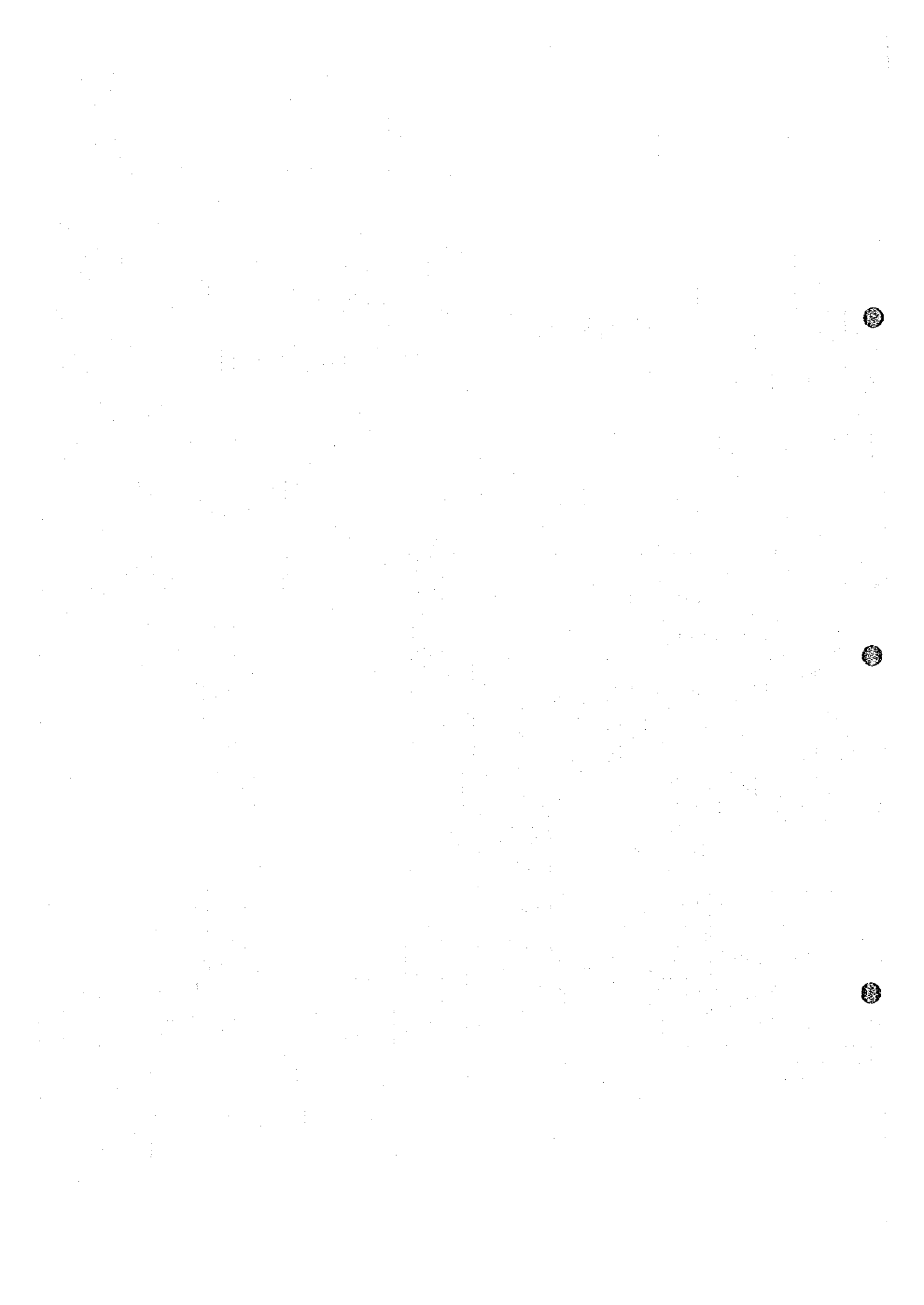
Gampaha Ex. - Colombo Central Ex.

Route Distance : 36.2 km

Existing Duct Length : 23.3 km

Duct construction length : $\frac{12.9 \text{ km}}{36.2 \text{ km}}$





Socio-Economic Survey for Colombo Metro Area

Introduction

For this survey several main areas were selected in Colombo metro area.

Generally, special attention was paid do the following areas which are categorized as industrial, commercial and highly populated.

Katunayake, Ja-Ela, Biyagama, Kelaniya, Mattakkuliya are considered as industrial areas.

Kollupitiya, Mt. Lavenia, Rathmalana are commercial areas.

The other areas were highly populated.

The free trade zone in Katunayake and Biyagama in Sri Lanka belong to these selected areas. The main productions are garments, rubber and plastic industries.

Survey Method

1. Personal visit do the relevant offices and questionnaire.
2. Use of secondary data.

The following institutions were visited to obtain the information.

- a) Kachecheri
- b) Divisional secretariat offices.
- c) Regional Telecommunication Engineer office.

Main objectives of the survey are to collect data about employment, unemployment among the population in relevant areas.

- a. To find out the industries which have been stared and also the existing (Traditional) industries which are already in operations.
- b. To identity new business opportunities.
- c. To identity infrastructure facilities in above stated areas.
- d. To identity the bottle necks infrastructure developments.

Problems relevant to Infrastructure

Kleekness in Transport Facilities

The existing roads does not sufficient enough to cater the vehicle which are use by the industrialists.

Telephone Facility

Most of the waiters will have to be in the waiting list for a indefinite time period and also the waiting-list is getting increase daily.

The maintenance and repair are not carried out promptly. Subscribers have to face problems receiving bills in time.



Colombo Metro Area

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- Table 1. Labor force by Divisional secretariat
 - Table 2. Labor force by Government, Semi Government and Private sector
 - Table 3. Population of Divisional Secretariat by sex age
 - Table 4. Subscribers and waiters of Telecommunication.
-

Labor Force by Divisional Secretariat

Divisional Secretariat	Total labour Force	Employed	Unemployed	
Biyagama	42,900	36,138	6,762	
Kelaniya	52,115	42,142	9,973	
Malwana-kadawata	48,324	43,850	4,474	
Ja-Ela	55,628	47,242	8,386	
Wattala	46,724	1,100	7,402	
Katana-katunayake	8,400	6,750	2,600	
Raddolugama	9,350			
Kollupitiya	2,184	2,029	155	
Mattakkuliya	17,294	13,450	3,844	
Angoda		6,780		
Nugegoda-kotte	60,050	34,918	25,132	
Maharagama	48,503	41,409	7,094	
Piliyandala		67,659		
Boralessgamuwa				
Mt.Lavinia . Dehiwala	77,673	70,182	7,491	
Rathmalana				
Moratuwa	71,086	62,837	8,249	

Labor Force by Government , Semi Government and Private Sector.

Divisional secretariat	Government	Semi government	Private sector
Biyagama	10,842	9,034	16,262
Kelaniya	7,418	9,034	27,671
Malwana-kadawala	14,032	7,053	21,048
Ja-Ela	12,416	8,770	26,937
Wattala	6,784	7,889	28,411
Katana-katunayake	165	4,127	418
Raddolugama	2,025	3,375	1,350
Kollupitiya	710	405	914
Mattakkuliya	4,035	2,017	7,397
Angoda	1,440	1,060	4,280
Nugegoda-kotte	6,983	4,190	23,745
Maharagama	16,563	6,212	18,634
Piliyandala	19,586	20,760	27,313
Boralessgamuwa			
Mt.Lavinia . Dehiwala	26,669	15,440	28,073
Rathmalana			
Moratuwa	36,017	14,024	12,796

Population of Divisional Secretariat by Sex/Age

Divisional secretariat	Total Population	Sex		Age group		
		male	female	0-14	15-65	65&Over
Biyagama	108,991	52,816	56,175	16,695	83,543	8,753
Kelaniya	128,416	61,074	67,342	10,721	89,605	10,090
Malwana-kadawata	128,994	63,851	65,143	21,994	94,423	12,577
Ja-Ela	140,059	69,911	70,148	19,640	108,515	11,904
Wattala	127,117	63,199	63,918	21,090	95,674	10,353
Katana-katunayake	4,738	n.a				
Raddolugama	10,555					
Kollupitiya	12,912					
Mattakkuliya	61,520					
Angoda	11,000					
Nugegoda-kotte	129,144					
Maharagama	119,581	57,397	62,184	15,460	92,416	11,705
Piliyandala	183,132					
Boralesgamuwa						
Mt.Lavinia.Dehiwala	209,937	102,924	107,014	30,193	159,681	20,063
Rathmalana						
Moratuwa	186,321	90,619	95,702	28,966	141,633	15,722

Subscribers and Waiters of Telecommunication

Divisional Secretariat	RTE Area	No. of Local Subscribers	No. of IDD Subscribers	No. of Waiters
Biyagama	Maradana	419		980
Kelaniya	Maradana	1,541	105	5,708
Malwana-kadawata	Maradana	656	40	3,130
Ja-Ela	Wattala	1,323	129	4,349
Wattala	Wattala	1,374	145	4,402
Katana-katunayake Raddolugama]	Negambo	1,592 205	256	3,680
Kollupitiya Mattakkuliya]	Colombo Central	4,047 2,335	920 256	2,723 1,464
Angoda	kotte	326	25	1,828
Nugegoda-kotte	kotte	6,350	869	9,398
Maharagama		1,749	120	8,726
Piliyandala Boralessgamuwa]	Rathmalana	676 1,454	40 83	3,921 1,058
Mt.Lavinia.Dehiwala Rathmalana]	Rathmalana	12,390 5,709	656 230	5,746 1,182
Moratuwa	Rathmalana	1,524	78	4,260

Katana

Divisional secretariat

Katunayake Division

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- Table-1 Population, square km², Employed, Unemployed
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 - Table-6 Development Progress
 - Table-7 No. of subscribers and waiters of Telecommunication Remarks
-

(1)

Population	square km ²	Employed	Unemployed
4,738	2.1	1,100	2,600

(2) Labor Population

Government	165
Semi Government	517
Private Sector	418

(3) Occupied area

Out of Region %	40%
in the Region %	60%

(4)

Average Family income	2,500
-----------------------	-------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Garments	Leather Products	Electric goods.
----------	------------------	-----------------

(6) Development Progress

No. of Banks	1
Electricity %	85%
Road condition %	75%
Water supply %	30%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters

*Migrate: People from other areas are migrate to this area of field jobs.

Katana

Divisional secretariat

Roddolugama Division

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-

(1)

Population	square km ²	Employed	Unemployed
10,555	1.5	6,750	7,300

(2) Labor Population

Government	2,025
Semi Government	3,375
Private Sector	1,350

(3) Occupied area

Out of Region %	60%
in the Region %	40%

(4)

Average Family income	3,200
-----------------------	-------

(5) The kind of Factories / Productivities belongs to the mentioned area.

--

(6) Development Progress

No. of Banks	(Rural)4
Electricity %	90%
Road condition %	85%
Water supply %	90%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters

Ja-Ela

Divisional secretariat

Ja-Ela, Ragama Division

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-

(1)

Population	square km ²	Employed	Unemployed
140,059	65.3	47,242	8,386

(2) Labor Population

Government	12,416
Semi Government	7,889
Private Sector	26,937

(3) Occupied area

Out of Region %	16%
in the Region %	84%

(4)

Average Family income	3000/
-----------------------	-------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Fisheries, Textiles, Food Products.

(6) Development Progress

No. of Banks	
Electricity %	95%
Road condition %	90%
Water supply %	82%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters
Ja Ela & Ragama	1,265		

Wattala

Divisional secretariat

List of Tables

- Table-1** Population, square km², Employed, Unemployed
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- Table-7** No. of subscribers and waiters of Telecommunication Remarks

(1)

Population	square km ²	Employed	Unemployed
127,117	54.6	39,322	7,402

(2) Labor Population

Government	6,784
Semi Government	4,127
Private Sector	28,411

(3) Occupied area

Out of Region %	60%
in the Region %	40%

(4)

Average Family income	2,500/
-----------------------	--------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Garments • Plastic Companies Fiber Glass Fisheries.

(6) Development Progress

No. of Banks	7
Electricity %	80%
Road condition %	50%
Water supply %	70%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters
Kotte	8,137	869	10,557

Divisional secretariat

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-

(1)

Population	Square km ²	Employed	Unemployed
108,991	61.75km ²	36,138	6,762

(2) Labor Population

Government	10,842
Semi Government	9,034
Private Sector	16,262

(3) Occupied area

Out of Region %	40%
in the Region %	60%

(4)

Average Family income	2,500/
-----------------------	--------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Garments	Metal crushing industry	Welding Rubber Products
----------	-------------------------	-------------------------

(6) Development Progress

No. of Banks	08
Electricity %	95%
Road condition %	75%
Water supply %	50%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters
Biyagama	419	48	980

Remarks: Biyagama can be identified as one of the main export processing zone. Specially most of the factories are concentrating on Garments and Rubber Products. Further the infrastructure facilities further developed in this area. Special attention has to be made in roads/high ways, communication facilities, etc. From other areas people are migrate to this area for seek, of jobs. Because of these are job opportunities in these area.

Kelaniya

Divisional secretariat

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- Table-1** Population, square km², Employed, Unemployed
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 - Table-6** Development Progress
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-

(1)

Population	square km ²	Employed	Unemployed
128,416	23.1	42,142	9,973

(2) Labor Population

Government	7,418
Semi Government	7,053
Private Sector	27,671

(3) Occupied area

Out of Region %	40%
in the Region %	60%

(4)

Average Family income	2,100/
-----------------------	--------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Food Products, Textiles, wood, Paper Products Chemicals, Mineral Products, Rubber Products ect

(6) Development Progress

No. of Banks	
Electricity %	74%
Road condition %	70%
Water supply %	62%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters
Kelaniya	1,541	136	5,708

Mahara

Divisional secretariat

Kadawata Division

List of Tables

- Table-1 Population, square km², Employed, Unemployed
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-

(1)

Population	square km ²	Employed	Unemployed
128,994	98.3	43,850	4,474

(2) Labor Population

Government	14,032
Semi Government	8,770
Private Sector	21,048

(3) Occupied area

Out of Region %	65%
in the Region %	35%

(4)

Average Family income	2,800/
-----------------------	--------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Garment factories, Food products, Metal crushing industries, Coil products, Leather products,

(6) Development Progress

No. of Banks	
Electricity %	90%
Road condition %	55%
Water supply %	35%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters
Kadawata	648	45	3,130

Colombo

Divisional secretariat

Kollupitiya Division

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(1)

Population	square km ²	Employed	Unemployed
12,912	14.3	2,029	155

(2) Labor Population

Government	710
Semi Government	405
Private Sector	914

(3) Occupied Area

Out of Region %	28%
in the Region %	72%

(4)

Average family income	
-----------------------	--

(5) The kind of factories/productivities belongs to the mentioned area.

Food products, Leather products, Tourism
--

(6) Development Progress

No. of Banks	
Electricity %	95%
Road condition %	95%
Water supply %	99%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters

Colombo

Divisional secretariat

Mattakkuliya Division

List of Tables

- Table-1 Population, square km², Employed, Unemployed
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(1)

Population	square km ²	Employed	Unemployed
61,520	35.4	13,450	3,844

(2) Labor Population

Government	4,035
Semi Government	2,017
Private Sector	7,399

(3) Occupied Area

Out of Region %	32%
in the Region %	68%

(4)

Average family income	2,500/2
-----------------------	---------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Garments, Metal industries, Food products, Fisheries, Spice products, Soap factories.

(6) Development Progress

No. of Banks	
Electricity %	70%
Road condition %	45%
Water supply %	90%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters

Angoda

Divisional secretariat

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-

(1)

Population	square km ²	Employed	Unemployed
11,000	2.5km	6,780	

(2) Labor Population

Government	1,440
Semi Government	1,060
Private Sector	4,280

(3) Occupied Area

Out of Region %	70%
in the Region %	30%

(4)

Average family income	2,500/
-----------------------	--------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Garments, Textiles, Petroleum, gas companies, wood products, Tiles, Bricks
Polyethylene, Plastic

(6) Development Progress

No. of Banks	
Electricity %	80%
Road condition %	20%
water supply %	60%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters
		25	2,265

Nuggoda

Divisional secretariat

Kotte Division

List of Tables

Table-1 Population, square km², Employed, Un Employed

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Table-5 Factories / Products belongs to the area

Table-6 Development Progress

Table-7 No. of subscribers and waiters of Telecommunication Remarks

(1)

Population	square km ²	Employed	Unemployed
129,144	16.9	34,918	25,132

(2) Labor Population

Government	6,983
Semi Government	4,190
Private Sector	23,745

(3) Occupied Area

Out of Region %	32%
in the Region %	68%

(4)

Average Family income	2,200/
-----------------------	--------

(5) The kind of factories/productivities belongs to the mentioned area.

Food products, Steel furniture & goods, Polyethylene, Garments.

(6) Development Progress

No. of Banks	
Electricity %	90%
Road condition %	87%
Water supply %	65%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters

Piliyandala

Divisional secretariat

Piliyandala, Borelesgamuwa Divisions

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- Table-1 Population, square km², Employed, Un Employed
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(1)

Population	square km ²	Employed	Unemployed
183,132		67,659	

(2) Labor Population

Government	19,586
Semi Government	20,760
Private Sector	27,313

(3) Occupied Area

out of Region %	60%
in the Region %	40%

(4)

Average family income	2,300/
-----------------------	--------

(5) The kind of factories/productivities belongs to the mentioned area.

Garments, Ceramic, Wood crafts, Leather products, Food products, Furniture

(6) Development Progress

No. of Banks	07
Electricity %	65%
Road condition %	75%
Water supply %	70%

Remarks: Water Supply - completed in Baralesgamuwa area under the proposed scheme total area will be covered in next year.

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters
Piliyandala	590	40	5,085
Barelesgamuwa	1,243	60	1,415

Dehiwala

Divisional secretariat

Dehiwala, Rathmalana, Mt Lavinia Divisions

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-

(1)

Population	square km ²	Employed	Unemployed
209,937	21.7	70,182	7,491

(2) Labor Population

Government	26,669
Semi Government	15,440
Private Sector	28,073

(3) Occupied Area

out of Region %	40%
in the Region %	60%

(4)

Average Family income	2,400/
-----------------------	--------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Food products, Fisheries, Ceramics, Glass companies, Steel furniture, Leather products, Tourism.

(6) Development Progress

No. of Banks	
Electricity %	85%
Road condition %	65%
Water supply %	85%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters
Rathmalana	5,709	230	1,182
Mt. Lavinia	12,390	656	5,746

Maharagama

Divisional secretariat

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- Table-1 -Population, square km², Employed, Un Employed**
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 - Table-5 Factories / Products belongs to the area**
 - Table-6 Development Progress**
 - Table-7 No. of subscribers and waiters of Telecommunication Remarks**
-

(1)

Population	square km ²	Employed	Unemployed
119,581	39.04	41,409	7,094

(2) Labor Population

Government	16,563
Semi Government	6,212
Private Sector	18,634

(3) Occupied Area

Out of Region %	60%
in the Region %	40%

(4)

Average Family income	2,300/
-----------------------	--------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Garments, Food products, Rubber industries by products
--

(6) Development Progress

No. of Banks	07
Electricity %	90%
Road condition %	55%
Water supply %	25%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters
Maharagama	1,749	120	8,726

Maratuwa

Divisional secretariat

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- Table-1** Population, square km², Employed, Un Employed
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 - Table-6** Development Progress
 - Table-7** No. of subscribers and waiters of Telecommunication Remarks
-

(1)

Population	square km ²	Employed	Unemployed
186,321	23.34	63,837	8,249

(2) Labor Population

Government	36,017
Semi Government	14,024
Private Sector	12,796

(3) Occupied Area

out of Region %	50%
in the Region %	50%

(4)

Average Family income	2,700/
-----------------------	--------

(5) The kind of Factories / Productivities belongs to the mentioned area.

Garments, Factories, Furniture.

(6) Development Progress

No. of Banks	
Electricity %	85%
Road condition %	65%
Water supply %	70%

(7) Telephone Facilities

Area	No. of subs	No. of IDD	No. of waiters
Moratuwa	1,524	78	4,260

DATA 2 OF PART 2

**DEMAND FORECAST IN CROSS-CONNECTION
CABINET AREA FOR LOCAL NETWORK
EXPANSION PROJECT IN COLOMBO METRO AREA
(17 TARGET EXCHANGE AREAS)**

Angoda (AN) : RSU

SW. Capacity in 2000 :

4,741

Demand in 2000 = 3,230

Demand in 2005 = 4,741

Existing Facilities including on-going				except WLL's Demand from year 2000										
Cabinet Number	Primary Cable Pair Capacity	Secondary Cable Pair Capacity	Existing DEs	Number of Waiters	Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	revised Area Number	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015
101	2,400	400	700		220	245	300	371	101 revised	300	390	450	510	650
102	2,400	400	900		430	450	500	524	102 revised	360	460	530	590	750
103	2,400	400	800		380	400	430	458	103 revised	400	510	590	650	800
104	2,400	400	900		360	390	458	491	104 revised	210	270	310	340	420
105	2,400	400	800		382	400	450	469	105 revised	320	420	480	530	660
106	2,400	300	700		360	370	400	415	106 revised	340	450	521	560	687
STUMP		100							107 revised	180	230	270	340	450
107	2,400	400	900		410	420	470	502	108 revised	410	527	600	680	860
									109 revised	290	360	400	460	580
									110 revised	420	520	590	680	870
Total		2,800	5,700	0	2,542	2,675	3,008	3,230		3,230	4,137	4,741	5,340	6,737

Boralesgamuwa(BS) :RSU

SW. Capacity in 2000 :

6,548

Demand in 2000 = 3,846

Demand in 2005 = 5,646

Existing Facilities including on-going			except WLL's Demand from year 2000									
Cabinet Number	Primary Cable Pair	Secondary Cable Pair	Existing DELs	Number of Waiters	Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015
DF-001	200				350	652	726	760	904	1,000	1,127	1,423
	100											
	100											
STUMP	100											
101	400	900			190	594	696	766	1,026	1,200	1,352	1,708
102	400	700			310	700	764	815	1,046	1,200	1,352	1,708
103	400	700			350	822	910	975	1,258	1,446	1,630	2,058
104	400	600			150	417	486	530	692	800	902	1,139
STUMP	200											
Total	2,300	2,900			1,350	3,185	3,582	3,846	4,926	5,646	6,363	8,035

Ja-Ela (JL) : RSU

SW. Capacity in 2000 :

12,291

Demand in 2000 = 8,230
Demand in 2005 = 12,291

Cabinet Number	Existing Facilities including on-going		Existing DELS	Number of Waiters	except WLL's Demand from year 2000									
	Primary Cable Pair	Secondary Cable Pair			Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015		
101	2,400	400	1,000			318	358	385	500	580	667	869		
102	2,400	300	700			233	263	283	364	422	484	629		
103	2,400	400	600			200	226	243	313	362	416	541		
104	2,400	400	1,000			300	339	365	470	543	624	811		
STUMP		200				0								
105	2,400	400	900			287	331	360	469	546	631	826		
106	2,400	400	900			274	308	330	426	494	567	736		
107	2,400	400	1,000			323	366	395	511	592	682	887		
108	2,400	300	600			190	204	215	277	318	363	468		
109	2,400	300	800			259	292	314	419	489	567	745		
110	2,400	400	900			277	312	335	432	500	574	746		
111	2,400	400	1,000			293	343	375	492	575	667	877		
112	2,400	400	1,000			297	350	385	507	593	689	907		
113	2,400	400	800			238	276	302	397	464	538	707		
114	2,400	400	1,000			350	386	410	523	601	686	884		
115	2,400	300	700			197	241	270	363	428	502	669		
116	2,400	400	1,000			337	378	405	528	606	696	904		
117	2,400	300	900			216	263	293	394	465	545	726		
118	2,400	300	700			235	265	285	370	425	488	634		
119	2,400	400	900			307	343	367	475	550	631	820		
120	2,400	400	900			290	331	358	466	541	624	815		
121	2,400	400	1,000			289	335	365	485	563	653	858		
122	2,400	400	1,000			321	362	390	509	591	682	890		
123	2,400	400	800			228	269	295	390	453	526	693		
124	2,400	500	700			463	487	505	510	527	538	596		
Total		9,300	20,800			6,722	7,627	8,230	10,589	12,228	14,042	18,237		

Katunayake (KTY) :

Sw. Capacity in 2000 :

9,970

Demand in 2000 = 6,675
Demand in 2005 = 9,970

Existing Cabinet Number	Existing Facilities including on-going		Existing DELs	Number of Waiters	except WLL's Demand from year 2000				Cabinet Capacity	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015
	Primary Cable Pair	Secondary Cable Pair			Demand in 1993	Demand in 1998	Demand in 2000	revised Area Number						
001	200				20	50	75	001 existing		76	92	103	115	148
002	50				10	20	33	002 existing		33	38	50	57	74
STUMP	50													
003	30				10	25	33	003 existing		32	34	36	40	52
STUMP	20													
004	50				20	35	47	004 existing		47	50	56	59	76
005	100				30	50	76	005 existing		76	85	105	118	152
STUMP	100													
STUMP	200													
006	50				15	25	38	006 existing		38	42	53	59	76
STUMP	50													
007	90				10	25	38	007 existing		38	42	53	59	76
STUMP	90													
008	30				10	20	27	008 existing		27	29	33	35	46
STUMP	70													
c cable	400													
STUMP	400													
d cable	100													
STUMP	100													
101	400				250	500	613	101 revised		250	370	460	570	820
102	100				60	150	277	102 revised		380	450	490	560	750
103	400				146	450	551	103 revised		220	330	420	510	650
STUMP	200									178	270	321	389	555
104	150				83	300	408	104 revised		230	330	400	510	750
STUMP	150									200	310	380	460	700
105	200				56	300	436	105 revised		360	470	540	630	850
106	400	1,000			158	356	471	106 revised		340	440	510	560	650
STUMP	400									330	430	490	530	620
107	400	900			157	332	433	107 revised		270	370	450	490	580
108	400	800			235	315	408	108 revised		220	320	390	450	600
109	400	1,000			176	320	436	109 revised		340	430	500	550	650
110	400	1,000			205	336	447	110 revised		290	360	400	530	720
111	300	800			75	248	375	111 revised		420	450	480	580	790
STUMP	100									410	500	560	630	810
112	300	900			76	296	432	112 revised		450	530	600	630	760
										380	500	560	640	720
										390	510	580	580	730
										390	490	570	580	690
										260	330	380	450	620
Total	6,400				1,809	4,153	5,653		6,675	8,602	9,970	11,390	14,704	

Kelaniya (KI) :

SW. Capacity in 2000 :

15,712

Demand in 2000 = 10,520
Demand in 2005 = 15,712

Existing Cabinet Number	Existing Facilities including on-going		Situation at June, 1995		except W.L.L.'s Demand from year 2000								Demand in 2000	revised Area Number	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015
	Primary Cable Pair	Secondary Cable Pair	Existing DELs	Number of Waiters	Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	Demand in 2000	revised Number	Demand in 2000	Demand in 2003							
101	2,400	400	900		300	411	510	518	101	revised	400	510	590	660	830				
102	2,400	500	1,000		266	439	580	564	102	revised	360	470	540	620	820				
STUMP		400								revised	390	500	580	670	870				
103	2,400	500	1,000		310	495	648	630	103	revised	400	520	600	690	900				
104	2,400	500	1,000		295	461	600	586	104	revised	390	500	580	650	820				
STUMP		100							105	revised	370	480	550	630	800				
105	2,400	400	1,000		295	401	496	506	106	revised	380	490	560	650	850				
106	2,400	400	1,000		329	414	496	517	107	revised	400	520	600	710	980				
107	2,400	400	1,100		331	424	511	479	108	revised	270	350	400	450	580				
108	2,400	400	1,000		266	382	482	503	109	revised	400	520	600	690	900				
109	2,400	400	1,100		280	371	455	460	110	revised	340	440	500	580	750				
110	2,400	400	1,100		240	396	523	488	111	revised	270	350	400	450	550				
111	2,400	400	1,100		294	393	482	503	112	revised	400	520	600	690	900				
112	2,400	400	900		244	326	399	432	113	revised	390	500	580	650	820				
113	2,400	500	1,100		244	413	551	532	114	revised	330	425	492	570	751				
STUMP		100							115	revised	370	500	580	680	900				
114	2,400	400	1,000		295	353	413	444	116	revised	380	490	560	660	900				
115	2,400	400	1,000		255	386	496	506	117	revised	390	500	580	650	800				
116	2,400	400	1,000		238	403	537	532	118	revised	360	470	540	620	800				
117	2,400	400	1,000		240	396	523	534	119	revised	400	520	600	690	900				
118	2,400	400	1,100		234	386	510	524	120	revised	400	520	600	690	900				
									121	revised	390	500	580	640	780				
									122	revised	400	520	600	690	900				
									123	revised	340	440	500	570	740				
									124	revised	400	520	600	680	800				
									125	revised	400	520	600	680	800				
									126	revised	400	520	600	680	800				
									127	revised	400	520	600	670	850				
									128	revised	400	520	600	690	900				
Total		8,200	18,400	1,548	6,600	7,249	9,212	9,257			10,520	13,635	15,712	17,950	23,171				

Kollupitiya (KPT) :RSU

SW. Capacity in 2000 :

14,905

Demand in 2000 = 10,152
Demand in 2005 = 14,905

Cabinet Number	Existing Facilities including on-going			except WLL's Demand from year 2000									
	Cabinet Capacity	Primary Cable Pair	Secondary Cable Pair	Existing DELs	Number of Waiters	Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015
C-1	1,600	400	800			360	600	636	670	840	954	1,065	1,323
C-2	1,600	400	800			360	579	636	678	861	983	1,106	1,393
C-3	1,600	650	900			520	990	919	923	1,091	1,204	1,294	1,505
C-4	1,600	650	800			392	895	866	883	1,066	1,188	1,294	1,542
C-5	1,600	600	800			482	1,191	1,042	1,022	1,172	1,271	1,336	1,486
C-6	1,600	600	800			356	674	795	866	1,126	1,300	1,482	1,906
C-7	1,600	400	500			300	569	565	583	712	798	877	1,060
C-8	1,600	400	600			346	590	636	674	851	969	1,085	1,358
C-9	1,600	400	800			320	611	636	666	830	939	1,044	1,288
101	2,400	400	400				118	254	313	458	554	668	933
102	2,400	400	900				378	636	752	1,060	1,266	1,503	2,055
103	2,400	400	700				324	594	712	1,019	1,224	1,461	2,015
104	2,400	400	800				472	594	658	872	1,015	1,169	1,527
105	2,400	400	900				419	647	752	1,045	1,240	1,461	1,977
Total		6,500	10,600			3,436	8,409	9,455	10,152	13,004	14,905	16,845	21,370

Kotte (KX) : E10B

Sw. Capacity in 2000 :

36,453

1

Demand in 2000 = 24,826
Demand in 2005 = 36,453

Existing Facilities including on-going				except WLL's Demand from year 2000										
Cabinet Number	Primary Cable Pair	Secondary Cable Pair	Existing DELs	Number of Waiters	Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015		
DF 001	600					506	550	581	737	841	943	1,181		
DF 002	1,300					902	917	926	1,043	1,121	1,178	1,313		
DF 003	800					902	917	926	1,043	1,121	1,178	1,313		
DF 004	400				210	372	458	513	693	813	943	1,246		
DF 005	600					619	630	637	673	697	707	731		
C-1	400	400												
C-2	500	700												
C-3	600	800												
C-5	400	800												
C-6	200	400												
C-7	700	800												
C-8	500	600												
C-9	700	800												
C-10	400	600												
101	400					290	344	379	502	584	672	876		
102	600					537	539	544	654	728	790	934		
103	500					435	481	513	657	752	848	1,073		
104	400					359	424	466	617	718	825	1,074		
105	300					179	229	261	358	423	495	663		
106	400					389	424	449	570	651	731	917		
107	400					405	435	457	575	654	731	909		
108	400					337	378	406	524	603	683	871		
109	400					472	481	491	597	668	731	876		
110	400					391	435	466	599	688	778	987		
111	400					346	390	419	542	623	707	902		
112	400					435	435	440	528	587	636	751		
113	300					264	298	321	415	478	542	692		
114	500					431	458	479	588	678	754	932		
115	300					275	321	351	461	535	613	794		
116	300					268	298	318	409	469	530	673		

Maharagama (MHG) :RSU

19,844

SW. Capacity in 2000 :

Demand in 2000 = 13,515
Demand in 2005 = 19,844

Existing Facilities including on-going				except WLL's Demand from year 2000													
Cabinet Number	Primary Cable Pair		Secondary Cable Pair	Existing DE/Ls	Number of Waiters	Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	revised Number	revised Area	Cabinet Capacity	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015
	Cabinet Capacity	Primary Cable Pair															
101	2,400	300	400			290	310	350	370	101	revised	1600	420	530	600	670	840
102	2,400	600	1,000			560	720	860	960	102	revised	1600	420	530	600	660	790
103	2,400	600	1,000			570	735	887	985	103	revised	1600	400	520	600	680	900
104	2,400	400	1,100			580	600	660	700	104	revised	1600	340	430	480	520	600
105	2,400	600	1,000			620	670	790	880	105	revised	1600	400	510	580	670	840
106	2,400	400	800			530	560	630	670	106	revised	1600	410	520	600	680	830
107	2,400	300	600			420	440	480	510	107	revised	1600	400	510	600	710	950
108	2,400	500	800			610	640	710	760	108	revised	1600	410	530	600	650	750
109	2,400	400	800			580	600	660	700	109	revised	1600	400	510	570	620	730
110	2,400	400	900			560	580	620	640	110	revised	1600	250	310	360	420	560
111	2,400	400	900			590	610	670	720	111	revised	1600	260	350	400	460	600
112	2,400	500	1,000			620	650	730	780	112	revised	1600	380	480	550	630	800
113	2,400	300	500			280	300	340	370	113	revised	1600	410	520	600	680	860
114	2,400	400	800			570	600	670	710	114	revised	1600	380	480	550	610	750
115	2,400	300	600			420	440	480	510	115	revised	1600	360	460	550	630	900
116	2,400	300	700			400	410	440	460	116	revised	1600	400	520	600	690	900
117	2,400	300	800			440	460	520	550	117	revised	1600	370	470	550	640	850
118	2,400	400	1,000			580	610	680	720	118	revised	1600	400	510	600	710	980
119	2,400	300	800			430	450	500	540	119	revised	1600	300	410	500	590	800
120	2,400	200	700			320	340	390	420	120	revised	1600	340	440	500	560	700
121	2,400	300	800			450	470	520	560	121	revised	1600	370	490	550	630	800
										122	revised	1600	400	520	600	680	900
										123	revised	1600	350	440	500	560	700
										124	revised	1600	270	350	394	440	550
										125	revised	1600	290	370	420	470	600
										126	revised	1600	400	500	570	640	790
										127	revised	1600	390	490	560	630	780
										128	revised	1600	400	520	600	690	900
										129	revised	1600	380	480	550	610	750
										130	revised	1600	410	530	600	660	810
										131	revised	1600	400	510	600	700	920
										132	revised	1600	405	520	600	690	900
										133	revised	1600	380	480	530	560	700
										134	revised	1600	410	520	590	650	820
										135	revised	1600	400	512	580	635	780
										136	revised	1600	410	530	600	680	850
Total						10,620	11,195	12,587	13,515				13,515	17,312	19,844	22,426	28,450

Mattakkuiya (MTK) : RSU SW. Capacity in 2000: 8,825

Demand in 2000 = 5,696
Demand in 2005 = 8,362

Existing Facilities Cabinet Number	Including on-going		Existing DEls	Number of Waiters	except WL's Demand from year 2000					Cabinet Capacity	Primary Cable Pair	Secondary Cable Pair	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015
	Demand in 1993	Demand in 1995			Demand in 1998	Demand in 2000	revised Area Number	Demand in 2000	Demand in 2003								
001	200	200			450	478	494	503	001	same as existing	200	200	505	615	685	760	914
	200	400									400	400					
002	200	200			110	119	133	142	002	same as existing	200	200	142	165	175	185	209
003	100	100			170	191	208	220	003	same as existing	100	100	220	282	324	366	465
STUMP	200	200									200	200					
	100	100									100	100					
004	200	200			280	331	384	419	004	same as existing	200	200	419	549	633	722	933
	200	200									200	200					
005	200	200			130	132	137	140	005	same as existing	200	200	140	148	153	154	157
	200	200									200	200					
101	1,600	400	800		350	365	369	372	101	Revised	600	600	325	410	460	495	580
102	1,600	400	800		330	385	436	471	102	Revised	600	700	390	495	555	595	680
STUMP	1,600	100	800		370	419	466	497	103	Revised	600	800	385	500	580	670	870
103	1,600	500	800		300	334	365	384	104	Revised	500	500	296	375	420	450	502
104	1,600	400	600								500	500					
STUMP	1,600	200	600								800	800					
105	1,600	400	600		280	294	300	304	105	Revised	600	600	375	490	570	660	880
106	1,600	400	600		350	469	608	701	106	Revised	400	500	245	320	372	430	580
107	1,600	400	600		340	396	453	491	107	Revised	500	600	290	370	420	455	540
108	1,600	300	400		290	345	403	442	108	Revised	600	800	365	480	560	650	870
109	1,600	400	600		380	460	549	608	109	Revised	500	500	305	395	460	535	720
110	1,600	400	600						110	Revised	600	700	365	480	560	645	850
111	1,600	400	600		110				111	Revised	500	500	215	360	420	485	640
112	1,600	400	600		111				112	Revised	500	500	365	482	570	675	920
113	1,600	400	600		112				113	Revised	600	600	290	380	445	515	670
Total	5,900	5,800			4,130	4,718	5,305	5,696			9,700	11,350	5,696	7,296	8,362	9,447	11,980

Moratuwa (MF) : RSU

SW. Capacity in 2000 : 10,395

Demand in 2000 = 7,080
Demand in 2005 = 10,395

Existing Facilities including on-going	Primary Cable Pair		Secondary Cable Pair	Existing DELs	Number of Waiters	except WLL's Demand from year 2000					Cabinet Capacity	Demand in 2008	Demand in 2015		
	Cabinet Capacity	Number				Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	revised Area Number				Demand in 2003	Demand in 2005
101	2,400	400	600			271	376	402	423	101	410	520	590	670	840
102	2,400	300	400			89	175	243	274	102	380	430	460	500	590
103	2,400	300	400			157	233	265	288	103	340	400	450	490	590
104	2,400	500	600			368	476	469	417	104	200	270	320	370	480
105	2,400	400	400			250	325	322	349	105	390	470	530	590	740
106	2,400	500	400			415	546	551	510	106	380	460	500	540	640
107	2,400	600	500			446	602	624	579	107	410	490	560	620	750
108	2,400	400	500			297	386	385	410	108	400	510	590	670	860
109	2,400	400	500			114	219	300	332	109	350	450	520	590	750
110	2,400	400	500			153	293	393	397	110	300	410	490	570	760
111	2,400	300	500			116	209	275	288	111	360	390	420	450	510
112	2,400	600	800			475	641	664	569	112	210	290	350	410	540
113	2,400	400	500			228	332	371	376	113	380	450	500	540	650
114	2,400	400	500			293	387	393	370	114	270	330	380	420	510
115	2,400	400	700			158	265	331	326	115	320	370	400	430	510
116	2,400	300	700			111	206	276	287	116	280	350	400	440	550
117	2,400	300	800			57	194	330	344	117	260	370	450	530	720
										118	160	262	335	408	564
										119	380	480	550	610	760
										120	300	430	520	620	840
										121	280	420	510	610	850
										122	320	465	570	670	900
Total		6,900	9,300			4,003	5,865	6,594	6,538		7,080	9,017	10,395	11,748	14,904

Mount Lavinia (MV) : NC400

SW. Capacity in 2000 :

34,745

Demand in 2000 = 23,663

Demand in 2005 = 34,745

Existing Facilities including on-going		except WLL's Demand from year 2000										
Cabinet Number	Primary Cable Pair	Secondary Cable Pair	Existing DELs	Number of Waiters	Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015
001	400				170	355	404	436	561	644	726	916
002	400				150	332	391	430	561	648	735	936
003	400				240	436	449	457	562	632	695	846
101	1,600	400	700		260	571	668	732	953	1,100	1,246	1,585
102	1,600	400	900		410	825	916	976	1,243	1,421	1,593	1,995
103	1,600	600	900		610	1,064	1,061	1,058	1,277	1,423	1,549	1,857
104	1,600	400	700		250	559	661	729	953	1,102	1,251	1,595
105	1,600	300	600		210	450	519	565	731	842	951	1,205
106	1,600	500	800		350	708	788	841	1,073	1,227	1,377	1,726
107	1,600	700	1,000		430	858	946	1,005	1,277	1,459	1,632	2,041
108	1,600	600	900		390	793	885	947	1,209	1,384	1,553	1,949
109	1,600	500	800		330	690	784	847	1,090	1,252	1,410	1,779
110	1,600	600	800		310	662	762	829	1,072	1,234	1,394	1,765
111	1,600	600	800		310	662	762	829	1,072	1,234	1,394	1,765
112	1,600	400	600		350	708	787	841	1,072	1,226	1,375	1,724
113	1,600	600	800		370	721	782	823	1,038	1,181	1,317	1,638
114	1,600	600	800		330	714	829	905	1,174	1,353	1,531	1,942
115	1,600	600	900		390	812	921	993	1,277	1,466	1,651	2,081
116	1,600	600	900		370	779	890	963	1,242	1,428	1,610	2,034
117	1,600	700	900		380	801	915	990	1,277	1,468	1,656	2,091
STUMP	1,600	200										
118	1,600	700	900		380	801	915	990	1,277	1,468	1,656	2,091
119	1,600	700	900		330	690	766	823	1,055	1,210	1,360	1,711
120	1,600	600	800		320	673	768	832	1,072	1,232	1,389	1,755
121	1,600	500	900		310	662	762	829	1,072	1,234	1,394	1,765
122	1,600	600	900		310	657	753	817	1,055	1,214	1,370	1,732
123	1,600	600	800		260	571	668	732	953	1,100	1,246	1,585
124	1,600	500	700		320	599	741	797	1,021	1,171	1,316	1,656
125	1,600	500	600		320	673	768	832	1,072	1,232	1,389	1,755
126	1,600	400	600		380	727	780	814	1,021	1,159	1,282	1,595
Total	15,600	20,900			9,540	19,602	22,039	23,663	30,312	34,745	39,056	49,114

Piliyandala (PYL) : RSU

SW. Capacity in 2000 :

9,930

Demand in 2000 = 6,783

Demand in 2005 = 9,330

Existing Facilities including on-going				except WLL's Demand from year 2000																					
Cabinet Number	Cabinet Capacity	Primary Cable Pair		Existing DEls	Number of Waiters	Demand in 1993		Demand in 1995		Demand in 1998		Demand in 2000		revised Area Number		Demand in 2000		Demand in 2003		Demand in 2005		Demand in 2008		Demand in 2015	
101	2,400	600	1,000			356	829	857	918	101	revised	408	600	860											
102	2,400	600	1,000			321	845	937	984	102	revised	408	600	860											
103	2,400	600	1,000			345	958	1,056	1,096	103	revised	292	430	610											
104	2,400	400	1,000			232	670	777	851	104	revised	340	500	720											
105	2,400	400	1,000			243	680	777	855	105	revised	340	500	720											
106	2,400	400	1,000			260	695	777	847	106	revised	410	600	860											
107	2,400	400	1,000			210	639	757	794	107	revised	340	500	710											
108	2,400	200	600			103	306	359	418	108	revised	340	500	710											
										109	revised	272	400	570											
										110	revised	410	600	857											
										111	revised	272	400	570											
										112	revised	340	500	710											
										113	revised	340	500	720											
										114	revised	272	400	570											
										115	revised	340	500	720											
										116	revised	409	600	870											
										117	revised	410	600	860											
										118	revised	410	600	860											
										119	revised	410	600	880											
Total		3,600	7,600			2,070	5,602	6,299	6,763			6,763	9,930	14,237											

Raddolugama () : RSU

Sw. Capacity in 2000 : 3,192

Demand in 2000 = 2,138
Demand in 2005 = 3,192

Existing Facilities including on-going				except WLL's Demand from year 2000										
Cabinet Number	Primary Cable Pair	Secondary Cable Pair	Existing DELs	Number of Waiters	Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	revised Area Number	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015
101	400	800				362	405	427	101 revised		539	613	691	871
102	400	800				328	381	425	102 revised		570	667	777	1,032
103	400	800				372	422	456	103 revised		590	680	777	1,003
104	300	700				305	345	371	104 revised		478	549	626	804
105	400	900				378	428	460	105 revised		593	682	777	998
									106 revised					
									107 revised					
									108 revised					
Total	1,900	4,000				1,745	1,981	2,138		2,138	2,771	3,192	3,647	4,708

Ratmalana (RM) : E10B

SW. Capacity in 2000 :

13,297

Demand in 2000 = 9,056
Demand in 2005 = 13,297

Cabinet Number	Cabinet Capacity	Existing Facilities including on-going		Existing DELS	Number of Waiters	except VLL's Demand from year 2000										
		Primary Cable Pair	Secondary Cable Pair			Demand in 1993	Demand in 1995	Demand in 1998	Demand in 2000	Demand in 2003	Demand in 2005	Demand in 2008	Demand in 2015			
001		300				310	390	403	411	500	560	615	750			
		200														
002		100				270	354	382	400	500	567	633	789			
		300														
STUMP 003		100														
		200				260	383	456	506	667	775	888	1,149			
		300														
		200														
STUMP 004		100														
		200				380	481	499	512	625	701	773	945			
		200														
		200														
		500	1,000													
101	1,600	500	1,000			350	482	544	585	750	861	974	1,237			
102	1,600	500	800			350	494	569	619	803	924	1,052	1,347			
103	1,600	500	700			320	450	518	563	730	841	956	1,222			
104	1,600	500	800			320	427	468	495	625	712	799	1,003			
105	1,600	300	400			250	346	391	422	542	622	705	896			
STUMP		100														
106	1,600	400	500			280	391	447	484	625	720	817	1,042			
107	1,600	500	900			320	434	483	515	657	751	846	1,069			
STUMP		100														
108	1,600	400	500			290	388	427	453	573	653	734	923			
109	1,600	400	700			300	432	507	557	730	845	964	1,242			
110	1,600	500	700			320	427	468	495	625	712	799	1,003			
STUMP		100														
111	1,600	400	400			280	372	407	430	542	617	691	867			
112	1,600	400	500			280	372	407	430	542	617	691	867			
113	1,600	500	900			320	474	568	631	834	969	1,112	1,442			
STUMP		100														
114	1,600	400	600			270	405	492	549	730	850	978	1,271			
		9,000				296	378	396	407	500	562	622	763			

