

CHAPTER 2: SOCIO-ECONOMIC SURVEY OF THE INTAKE AREA

2.1 DESCRIPTION OF THE SOCIO-ECONOMIC STATUS OF THE FAMILIES LIVING BETWEEN HAMILTON CANAL AND THE BEACH

The Data Result Sheets of the socio-economic survey of the intake area 150m. wide are tabulated in schedules 2.1 to 2.7 which are extracted from the questionnaires administered.

Schedule 2.1: List of Residents and Addresses

Schedule 2.2: Land Ownership Information

Schedule 2.3: Land Value, Value of Trees and Other Assets

Schedule 2.4: Characteristics and Information on Housing

Schedule 2.5: Availability of Other Information

Schedule 2.6: Population Information

Schedule 2.7: Occupation and Income

Schedule 2.8: Summarise Data Result Sheet of Socio-Economic Survey for Occupants of 50 m. wide intake and discharge pipeline area.

In general the living conditions of the people are not healthy, due to poor drainage and lack of proper infrastructure facilities. It is the same situation for people living in the area east of Hamilton canal.

The location map for intake and discharge pipe line area, specifically showing housing in the 150 m strip, extracted from the survey conducted by the Survey Department and produced to a scale of 1:1000 is shown in Figures 1 and 2. Figures 1 shows the intake are West of Hamilton canal upto the beach. Figure 2 shows the intake area East of Hamilton canal upto the land fill.

(i) Land Ownership and Information on Housing

Total number of households within the 150 m wide strip West of Hamilton canal is 37. In this area only 30 households have responded to the designed questionnaire. Three houses were occupied only part of the time and occupants were not available on three visits made by the consultants. Occupants of other four houses in the cooperative society land refused to respond to the questionnaire.

Of the thirty respondent households, 7 are on encroached land, 16 households on state land, 6 households are state land permit holders and one household is on private land. Size of holdings vary from 5 to 45 perches, viz. 123m² to 1107m².

In this area there are 3 permanent houses, 17 semi-permanent houses and 10 temporary houses. The permanent houses are having brick walls, asbestos or tile roof, cement rendered floor with necessary plastering to walls. The semi-permanent houses may have galvanized sheet roof, brick or timber walls and mud floors. Temporary houses would have roof and walls in cadjan, or roof in cadjan and timber walls and mud floors.

Most of the houses in the area are single unit houses, while there is only one annexed house. (Serial No. 38)

The houses do not have a drainage system. Out of 30 households only 4 households have electricity supply. None of the houses have telephone facility.

All the households depend on pipe borne water on street tap. All the information is based on answers provided by the householders. Out of the 30 households in the area from Hamilton Canal to the beach, 8 have pit latrines, one bucket latrine, 4 have water seal, while 11 households report no latrines and 6 households indicate other, which could be interpreted as no latrines (the respondent's indication that a bucket latrine is used may refer to a case where human waste is used directly as pig feed.)

Only 3 out of 30 houses have electricity supply and non have telephone facilities.

It could be summarized from the data on housing that:

- (a) 10% houses are permanent houses, 57% semi-permanent and 33% temporary.
- (b) 13% houses have water seal toilets, 27% have pit toilets, 3% have bucket, 37% have no toilets and 20% indicate other.
- (c) Almost 100% of the households depend on pipe borne water from street tap.
- (d) Only 10% of the houses have electricity supply and none have telephone facility.
- (e) Non of the households have telephone facility.

(ii) Population

The household population varied from as high as 10 to as low as 2. With an overall average of 4.4.

Average population of males per household is 2.2 while the average population of females is 2.2. The total population in the area is 130 of which the number of male adults are 35, number of female adults are 37, number of male children 30 and no. of female children 28.

(iii) Economic Information

(a) Householders Employment

All the chief occupants of households are employed, except for no response of one householder and another being a pensioner.

There are 15 householders employed as fisherman or engaged in fishing, 6 as labourers, 4 as masons, one electrician and one cleaner, a gram seller, while there is one no response and one pensioner.

(b) Householder's Income

There was no satisfactory response from 4 of the householders about their income. The fishermen/fishing indicated monthly employment incomes varying from Rs.1500-Rs.8000. Masons indicated income from Rs.5,000-Rs.7,000, while labourers indicated incomes varying from Rs.3,000 - Rs.6,000. The cleaner had a monthly income of Rs.3,500 while the gram seller had Rs.2,000.

Only 4 respondents indicated employment income of others in the family, varying from Rs.2,000 to Rs.3,000, while the gram seller indicated high value of Rs.5,000.

Therefore the total family income varied from a mere Rs.1,500 to Rs. 9,000 per month.

17 of the 30 households indicated that they received assistance through poverty alleviation programmes. Only one household indicated income from livestock and none indicated income from foreign employment. The assistance is in most cases Rs.500/- per month. It is surprising that only one respondent has taken to livestock as especially piggery is popular.

2.2 Description of the Socio-Economic Status of Families Living between the Hamilton Canal and the Muthurajawela Land fill Site

The data result sheets of the socio-economic survey of the intake area 150m wide are tabulated and highlighted in section 2.1.

(i) Land Ownership and Information on Housing

The total number of households within the discribe area is 32. In the area under study 30 households have responded to the questionnaire. The questionnaire could not be administered to the other rest two households as they are occupied only part of the time. All of them are occupying state land and are permit holders. The size of holding vary from 10 to 40 perches* ie . 197 m² to 984m². The Divisional Secretary Wattala intends to effect the issue of deeds, legalising the ownership.

A plan of the land allotments prepared by the Survey Department named as Blocking Out Plan No./..../96/299 (Gam /Wat/96/299) - Awarakotuwa stage II is given as Figure 2.

* 1 perch = 26.61 m²

Of the 30 houses, 6 are permanent, 7 semi-permanent and 17 temporary. Three houses are annexed while the balance 27 houses are single units. There is no drainage system, though 3 respondents have indicated in the affirmative due to not understanding the term.

23% (7 out of 30) of the households have electricity supply while no respondents indicate availability of telephone. However none of the households report of water connection to the house, but depend on pipe borne street supply.

In this area 13 houses have pit latrines, one report a bucket latrine, 4 has water seal toilets, while 12 houses do not have any toilet facilities (including one respondent who indicated "other").

It could be summarised that:

- (a) 20% of the houses are permanent, 23% semi-permanent and 57% are temporary.
- (b) 13% have water seal toilets, 43% pit latrines, 3% bucket and 41% have none.
- (c) 100% depend on street water supply and 23% have electricity supply.

(ii) Population

The household population varied from 2 to 8 and the average was 4.4. The male population in each household varies from 0 to 6 and the female population varies from 2 to 6.

Out of population of 133, average population of males per household is 2.6 and females 1.8. On the average there 1.4 male children and 0.7 female children per household, while there are 1.2 male adults and 1.1 female adults per household.

(iii) Economic Information

(a) Householder's Employment

All chief occupants in this area of study are employed except for one pensioner. Of the 30 householders, 12 are occupied in fishing, 2 as masons, 7 as labourers, 2 in small business, 2 as mechanics, one each as tailor, in weaving, lathe worker, one auditor working in the Postal Department and a pensioner.

(b) Householders Income

There was no satisfactory response from 5 of the 30 householders on their income.

Those employed in fishing indicated monthly incomes varying from Rs.2,000/- to Rs.8,500/-, masons indicated incomes of Rs.5,000/- and Rs.6,000/-, labourers Rs.3,000/- to 3,500/-, the tailor and electrician Rs.4,000/- .. Others employed had incomes varying from Rs.1,500/- to Rs.2,500/-, but those in small business indicated an income of Rs.7,000/-.

Six householders indicated income from others in the family which varied from Rs.700/- to Rs.3,500/-. The total family income therefore varied from a little as Rs.1,500/- (mechanic) to Rs.9,000/- (fisherman).

One household had income from livestock and one from remittances from foreign employment, 11 of the 30 households indicated that they received assistance from the poverty alleviation programme.

2.3 Description of the Socio-Economic Status of Families living in the Proposed 50 metre wide intake/discharge Area

The total number of households living within the above describe area is 25. Of these 25 households there are only 24 respondents to the questionnaire on socio-economic status administered within a strip 50m. wide as shown in Fig.5.3.4 site survey map for intake/discharge route in the draft EIA Report. As one is occupied only part of the time the questionnaire could not be administered.

There are 5 permanent, 10 semi permanent and 10 temporary houses within this area. Of these, two temporary houses 19m² and 40 m² are part of the permanent house (serial no.103). Other houses vary from 9m² to 28m² floor area and are built in cadjan. The 34m² houses west of the Hamilton canal is under construction and had no occupants.

However it must be noted that the whole area east of Hamilton canal is blocked out for allocation.

Of the 24 respondents 12 are in the area from the Hamilton canal to the Beach, and the balance in the area from the Hamilton canal to the reclaimed area. In the blocking out plan no. Gam/Wat (96/299 (Awarakotuwa Stage II) shown as Figure 3, 15 lots, Nos. 58-65 and 67-73 fully fall within the 50m. wide strip including the 3m. roadway and narrow strips from lots 50, 51, 52 and 56. By judicious adjustment to the width of the intake/discharge line land area, it may be possible to limit the displacement to lots 58 to 65 and 67-73 only. The area of land involved is 368 perches. The area of land west of the canal to be taken over from individuals is 110 perches, allowing 7 perch each for the non-respondent. The total area is 478 perches - approximately 3 acres (1.18 ha.)

(a) Land Ownership and Information on Housing (Schedule 2.8)

Of the 24 respondents 8 are holding state land, one is an encroacher (Serial No. 12) and the other 15 respondents hold permits for state land and expect deeds to be given in August 1998. (They are East of Hamilton Canal)

The extent of land held at present varies from 7 perches to 40 perches. As described above, though there are only 12 respondents East of the Hamilton Canal there are at least 15 blocks of land involving 378 perches. On the west of Hamilton Canal there are 12 houses and the land area involved is 110 perches.

(1 perch = 26.61 m²)

Among the 25 houses, (one non respondent) there are 3 permanent houses. 11 semi-permanent houses and 11 temporary houses.

All the 25 houses are owned by the householders listed. The floor area of the houses varied from as small as 8.9m² to as large as 149m², while the respondents valued them from as little as Rs.7,000.00 to Rs.121,000.00.

None of the houses have a drainage system, and two have electricity connection, while all depend on pipe borne water on street tap. Three houses have water seal toilets, 7 houses have pit latrines, 12 houses have no toilets (including 3 indicating "other") and one indicating bucket latrine.

(b) Population (Schedule 2.8)

The total population in the 24 respondent households is 99, of which there are 57 males and 42 females. Among the 57 males there are 27 children and 30 adults. Among the 42 females there are 17 children and 25 adults.

The average household population is 4.1, consisting of an average of 2.4 males and 1.8 females.

(c) Economic Information (Schedule 2.8)

(i) Employment

Out of the 24 respondents, 16 (67%) are engaged in fishing, one is a driver, one is a businessman, one is a mason, another is a cleaner, 2 are labourers and the other is a lathe worker. (two were no response from two householders)

(ii) Income

The income from employment of the householders varied from Rs. 3,000.00 per month to Rs.9,000.00 per month. There were 3 households indicating income from others in the household, which varied from Rs.7000.00 to Rs.3000.00.

Of the 24 respondents 15 householders indicated income from poverty alleviation programmes while only one respondent indicated income from livestock (Rs.2,000 per month) and another indicated remittance from abroad (Rs. 8,000.00 per month). The resulting total monthly income of households varied from Rs. 3,000.00 to Rs.17,000.00 with an average of Rs.5,500.00.

2.4 General Attitude of Residents within a Radius of 2km of the Proposed Kerawalapitiya Power Plant Site

Figure 4 shows important institutions such as churches, temples and schools within a radius of 2 km from the proposed site for the construction of the Kerawalapitiya combined cycle power plant.

Among the people interviewed in the above area, were the priest at Asokaramaya, some Government servants, people engaged in small business and permanent residents of the area. They were generally of the opinion that they had no objections against development projects that the Government undertakes for the benefit of the country. They were unaware of the proposed 150 MW combined cycle power plant project. If such a power plant is to be installed, they were concern of noise, and pollution of the air. They were concern that there would be some form of environmental impact and wanted the Government to take necessary steps to reduce or mitigate such impacts.

There are four churches, five Buddhist temples and two large schools (Maha Vidyalayas) in the radius of 2 km.

*Normal Font -
West of the Hamill
Canal

*Bold Font -
East of the Hamill
Canal

SCHEDULE 2.1 : LIST OF RESIDENTS

Sr. No.	ON	NAME	ADDRESS	RESIDENTIAL
1	168/B, Palliyawatta	Wattala	Dickowita	26, Beach Rd., Dickowita, Hendala, Wattala
2	168/B, Palliyawatta	Wattala	Dickowita	128/10, Samupakara Wattala, Dickowita, Hendala, Wattala
3	168/B, Palliyawatta	Wattala	Dickowita	138/1, Lunawa, Moya, Dickowita, Hendala, Wattala
4	168/B, Palliyawatta	Wattala	Dickowita	142/8, Lunawa Moya, Dickowita, Hendala, Wattala
5	168/B, Palliyawatta	Wattala	Dickowita	444/2, Lunawa Moya, Dickowita, Hendala, Wattala
6	168/B, Palliyawatta	Wattala	Dickowita	138/5, Lunawa Moya, Dickowita, Hendala, Wattala
7	168/B, Palliyawatta	Wattala	Dickowita	138/5, Lunawa Moya, Dickowita, Hendala, Wattala
8	168/B, Palliyawatta	Wattala	Dickowita	150, Beach Rd., Dickowita, Hendala, Wattala
9	168/B, Palliyawatta	Wattala	Dickowita	444/1, Dickowita, Hendala, Wattala
10	168/B, Palliyawatta	Wattala	Dickowita	447, Dickowita, Hendala, Wattala
11	168/B, Palliyawatta	Wattala	Dickowita	146, Lunawa Moya, Dickowita, Hendala, Wattala
12	168/B, Palliyawatta	Wattala	Dickowita	138/7, Lunawa Moya, Dickowita, Hendala, Wattala
13	168/B, Palliyawatta	Wattala	Dickowita	Lunawa, Moya Road, Dickowita, Hendala, Wattala
14	168/B, Palliyawatta	Wattala	Dickowita	128/2, Beach Road, Dickowita, Hendala, Wattala
15	168/B, Palliyawatta	Wattala	Dickowita	126/10, Beach Road, Dickowita, Hendala, Wattala
16	168/B, Palliyawatta	Wattala	Dickowita	126/12, Housing Coop. Land, Beach Rd., Dickowita, Hendala, Wattala
17	171/B, Balagala	Wattala	Dickowita	384/2, Awarakotuwa, Hendala, Wattala
18	171/B, Balagala	Wattala	Dickowita	302/11, Awarakotuwa, Hendala, Wattala
19	171/B, Balagala	Wattala	Dickowita	376, Awarakotuwa, Hendala, Wattala
20	171/B, Balagala	Wattala	Dickowita	376/1, Ea Road, Hendala, Wattala
21	171/B, Balagala	Wattala	Dickowita	368/26, Awarakotuwa, Hendala, Wattala
22	171/B, Balagala	Wattala	Dickowita	382, Awarakotuwa, Hendala, Wattala
23	171/B, Balagala	Wattala	Dickowita	380/42, Awarakotuwa, Hendala, Wattala
24	171/B, Balagala	Wattala	Dickowita	378/6, Awarakotuwa, Hendala, Wattala
25	171/B, Balagala	Wattala	Dickowita	368/67, Awarakotuwa, Hendala, Wattala
26	171/B, Balagala	Wattala	Dickowita	444, Dickowita, Hendala, Wattala
27	168/B, Palliyawatta	Wattala	Dickowita	4, Lunawa, Beach Rd., Dickowita, Hendala, Wattala
28	168/B, Palliyawatta	Wattala	Dickowita	Lunawa, Moya Rd., Dickowita, Hendala, Wattala
29	168/B, Palliyawatta	Wattala	Dickowita	Dickowita, Hendala
30	168/B, Palliyawatta	Wattala	Dickowita	138/4, Dickowita
31	168/B, Palliyawatta	Wattala	Dickowita	138/9, Dickowita, Hendala
32	168/B, Palliyawatta	Wattala	Dickowita	138/8, Dickowita, Hendala, Wattala
33	168/B, Palliyawatta	Wattala	Dickowita	52, Lunawa, Moya Rd.
34	168/B, Palliyawatta	Wattala	Dickowita	126, Beach Road, Dickowita
35	168/B, Palliyawatta	Wattala	Dickowita	126/9, Beach Road, Dickowita
36	168/B, Palliyawatta	Wattala	Dickowita	Cooperative Society Land, Dickowita
37	168/B, Palliyawatta	Wattala	Dickowita	126/1, Beach Road, Dickowita
38	168/B, Palliyawatta	Wattala	Dickowita	374, Ea Rd., Dickowita, Hendala
39	171/B, Balagala	Wattala	Dickowita	382/10, Awarakotuwa, Hendala, Wattala
40	168/B, Palliyawatta	Wattala	Dickowita	382/18, Dickowita, Hendala
41	168/B, Palliyawatta	Wattala	Dickowita	382/10, Dickowita, Hendala
42	168/B, Palliyawatta	Wattala	Dickowita	382/10, Awarakotuwa, Hendala, Wattala
43	171/B, Balagala	Wattala	Dickowita	378, Ea Rd., Awarakotuwa, Hendala, Wattala
44	171/B, Balagala	Wattala	Dickowita	380/42, Dickowita, Hendala
45	168/B, Palliyawatta	Wattala	Dickowita	380/42, Awarakotuwa, Hendala, Wattala
46	171/B, Balagala	Wattala	Dickowita	381, Awarakotuwa, Hendala, Wattala
47	171/B, Balagala	Wattala	Dickowita	380, Awarakotuwa, Ekalanda Rd., Hendala, Wattala
48	171/B, Balagala	Wattala	Dickowita	378A, Ea Rd., Awarakotuwa, Hendala, Wattala
49	171/B, Balagala	Wattala	Dickowita	Cooperative Society Land, Dickowita
50	171/B, Balagala	Wattala	Dickowita	Cooperative Society Land, Dickowita
51	168/B, Palliyawatta	Wattala	Dickowita	384 Awarakotuwa, Hendala, Wattala
52	168/B, Palliyawatta	Wattala	Dickowita	385 Awarakotuwa, Hendala, Wattala
53	171/B, Balagala	Wattala	Dickowita	822/8, Awarakotuwa, Hendala, Wattala
54	171/B, Balagala	Wattala	Dickowita	822/7, Awarakotuwa, Hendala, Wattala
55	171/B, Balagala	Wattala	Dickowita	382/6, Awarakotuwa, Hendala, Wattala
56	171/B, Balagala	Wattala	Dickowita	139/2, Dickowita, Hendala
57	171/B, Balagala	Wattala	Dickowita	142, Dickowita, Hendala
58	168/B, Palliyawatta	Wattala	Dickowita	384, Awarakotuwa, Hendala, Wattala
59	168/B, Palliyawatta	Wattala	Dickowita	383, Awarakotuwa, Hendala, Wattala
60	171/B, Balagala	Wattala	Dickowita	302/2, Awarakotuwa, Hendala, Wattala
61	171/B, Balagala	Wattala	Dickowita	302, Awarakotuwa, Hendala, Wattala
62	171/B, Balagala	Wattala	Dickowita	382/5, Awarakotuwa, Hendala, Wattala
63	171/B, Balagala	Wattala	Dickowita	Awarakotuwa, Hendala, Wattala
64	171/B, Balagala	Wattala	Dickowita	Dickowita, Hendala, Wattala
65	168/B, Palliyawatta	Wattala	Dickowita	Dickowita, Hendala, Wattala
66	168/B, Palliyawatta	Wattala	Dickowita	Dickowita, Hendala, Wattala
67	168/B, Palliyawatta	Wattala	Dickowita	Dickowita, Hendala, Wattala

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF INTAKE AREA

SCHEDULE 2.2 : LAND OWNERSHIP INFORMATION									
Serial No.	Name of the Land	Area (M ²)	Current Use	Type	No. of Owners	Co-owner	Holder's Name	Year Settled	
1		5.00	Encroached		2		Coopera- Jayawardenapura, Cooperative Society	1996	
2		7.00	Encroached		2			1996	
3		10.00	State		0			1990	
4		15.00	State		0			1989	
5		20.00	State		0			1987	
6		15.00	State		0			1989	
7		20.00	State		0			1987	
8		10.00	State		0			1988	
9		20.00	Encroached		0			1994	
10		45.00	Encroached		0			1990	
11		20.00	State		0			1972	
12		No Response	Encroached		0			1988	
13		7.00	State		0			No Response	
14		6.00	State		0			1996	
15		7.00	Encroached		2		Sri Jayawardenapura, Xcite Housing Dev. Coop.	1996	
16		7.00	Encroached		2		Sri Jayawardenapura Coop. Society	1986	
17	No.77	23.00	State Permit Holder		0			1972	
18		25.00	State Permit Holder		0			1997	
19		18.00	State Permit Holder		0			1970	
20		15.00	State Permit Holder		0			1960	
21		22.00	State Permit Holder		0			1965	
22		22.00	State Permit Holder		0			1973	
23		22.00	State Permit Holder		0			1986	
24		18.00	State Permit Holder		0			1978	
25		22.00	State Permit Holder		0			1990	
26		10.00	State Permit Holder		0			1956	
27		20.00	Private Owned		0			1961	
28		15.00	State		0			1985	
29		8.00	State		0			1988	
30		8.00	State		0			1997	
31		8.00	State		0			1995	
32		7.00	State		0			1988	
33		10.00	State		0			1975	
34		15.00	State		0			1991	
35		7.00	State Permit Holder		0			1996	
36		5.00	State Permit Holder		0			1997	
37		7.00	State Permit Holder		0			1995	
38		7.00	State Permit Holder		0			1984	
39		27.00	State Permit Holder		0		Father	1993	
40		No Response	State Permit Holder		2		Son	1993	
41		21.00	State Permit Holder		2			1980	
42		No Response	State Permit Holder		0			1968	
43	Awarakotuwa	28.00	State Permit Holder		0			1995	
44	-	22.00	State Permit Holder		0			1995	
45	-	20.00	State Permit Holder		0			1980	
46	-	No Response	State Permit Holder		0			1984	
47	-	25.00	State Permit Holder		0			1993	
48	Awarakotuwa	20.00	State Permit Holder		0			1982	
49	Awarakotuwa, 2nd Step	40.00	State Permit Holder		0			1990	
50	-	30.00	State Permit Holder		0			1999	
51	Cooperative Society Land	7.00	State Permit Holder		0			1996	
52	Cooperative Society Land	27.00	State Permit Holder		0			1982	
53	Awarakotuwa	21.00	State Permit Holder		0			1980	
54	Awarakotuwa	14.00	State Permit Holder		0			1985	
55	Awarakotuwa	21.00	State Permit Holder		0			1995	
56	Awarakotuwa	8.00	State Permit Holder		0			1991	
57	Awarakotuwa	7.00	State Permit Holder		0			1982	
58	-	9.00	State Permit Holder		0			1990	
59	-	80.00	State Permit Holder		0			1980	
60	Awarakotuwa	24.00	State Permit Holder		0			1990	
61	Awarakotuwa	21.00	State Permit Holder		0			1982	
62	Awarakotuwa	18.00	State Permit Holder		0			1990	
63	Awarakotuwa	24.00	State Permit Holder		0			1975	
64	Awarakotuwa	25.00	State Permit Holder		0			1975	
65	Cooperative Society Land	8.00	State Permit Holder		0			1995	
66	Cooperative Society Land	12.00	State Permit Holder		0			1997	

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF INTAKE AREA

SCHEDULE 2.3 : LAND VALUE, VALUE OF TREES AND OTHER ASSETS

Serial No.	Area/Value of Assets	Value of Assets	Value of Assets
1	10,000.00	-	5,000.00
2	14,000.00	-	-
3	23,000.00	-	3,000.00
4	30,000.00	-	6,000.00
5	20,000.00	-	-
6	30,000.00	-	-
7	20,000.00	-	3,000.00
8	15,000.00	-	-
9	40,000.00	-	-
10	180,000.00	4,800.00	20,000.00
11	40,000.00	-	2,000.00
12	-	-	-
13	-	-	2,000.00
14	32,000.00	-	-
15	16,000.00	-	2,000.00
16	15,000.00	-	3,000.00
17	100,000.00	3,000.00	35,000.00
18	150,000.00	3,500.00	12,000.00
19	100,000.00	-	-
20	54,000.00	3,000.00	17,000.00
21	37,000.00	3,000.00	15,000.00
22	88,000.00	-	5,000.00
23	86,000.00	4,800.00	48,000.00
24	52,500.00	-	10,000.00
25	80,000.00	3,000.00	16,000.00
26	-	-	-
27	-	-	-
28	-	-	-
29	-	-	-
30	-	-	-
31	-	-	-
32	-	-	-
33	-	700.00	-
34	-	-	-
35	-	-	-
36	-	-	-
37	-	-	-
38	-	-	-
39	-	3,000.00	-
40	-	-	-
41	-	1,750.00	-
42	-	-	-
43	-	3,850.00	-
44	-	3,850.00	-
45	-	1,000.00	-
46	-	500.00	-
47	-	500.00	-
48	-	1,500.00	-
49	-	1,000.00	-
50	-	2,500.00	-
51	-	-	-
52	-	-	-
53	-	3,000.00	-
54	-	-	-
55	-	1,000.00	-
56	-	-	-
57	-	-	-
58	-	-	-
59	-	-	-
60	-	2000.00	-
61	-	-	-
62	-	-	-
63	-	-	-
64	-	-	-
65	-	1500.00	-
66	-	-	-
67	-	-	-

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF INTAKE AT SCHEDULE 2.4 : CHARACTERISTICS AND INFORMATION ON HOU.

Serial No.	Project	Unit	Package / BOM	Quantity	Rate	Amount	Expenditure
1	Semi-permanent	Single Unit	Own	29.7		30,000.00	
2	Permanent	Single Unit	Own	42.4		7,000.00	
3	Temporary	Single Unit	Own	18.6		7,000.00	
4	Semi-permanent	Single Unit	Own	65.1		60,000.00	
5	Temporary	Annexed	Own	15.6		7,000.00	
6	Semi-permanent	Single Unit	Own	27.9		25,000.00	
7	Temporary	Single Unit	Own	13.3		10,000.00	
8	Semi-permanent	Single Unit	Own	65.1		35,000.00	
9	Temporary	Single Unit	Own	11.2		8,000.00	
10	Permanent	Single Unit	Own	47.3		200,000.00	
11	Semi-permanent	Single Unit	Own	13.9		25,000.00	
12	Semi-permanent	Single Unit	Own	34		50,000.00	
13	Temporary	Single Unit	Own	8.9		20,000.00	
14	Semi-permanent	Single Unit	Own	16.7		20,000.00	
15	Semi-permanent	Single Unit	Rent/Lease	13.9		10,000.00	
16	Semi-permanent	Single Unit	Own	13.9		20,000.00	
17	Semi-permanent	Single Unit	Own	20.1		25,000.00	
18	Permanent	Single Unit	Own	13.3		75,000.00	
19	Semi-permanent	Single Unit	Own	20.1		40,000.00	
20	Semi-permanent	Single Unit	Own	27.9		2,500.00	
21	Semi-permanent	Single Unit	Own	8.9		10,900.00	
22	Temporary	Single Unit	Own	18.6		100,000.00	
23	Temporary	Single Unit	Own	11.2		15,000.00	
24	Semi-permanent	Single Unit	Own	18.6		25,000.00	
25	Semi-permanent	Single Unit	Own	20.1		40,000.00	
26	Temporary	Single Unit	Own	8.9		8,000.00	
27	Permanent	Single Unit	Own	81.3		200,000.00	
28	Permanent	Single Unit	Own	72.5		125,000.00	
29	Semi-permanent	Single Unit	Own	20.1		20,000.00	
30	Temporary	Single Unit	Own	6.6		8,000.00	
31	Semi-permanent	Single Unit	Own	14.9		20,000.00	
32	Temporary	Single Unit	Own	8.9		10,900.00	
33	Semi-permanent	Single Unit	Own	14.9		15,000.00	
34	Semi-permanent	Single Unit	Own	17.5		25,000.00	
35	Permanent	Single Unit	Own	69.7		50,000.00	
36	Semi-permanent	Single Unit	Own	7.4		35,000.00	
37	Permanent	Single Unit	Own	13.5		45,000.00	
38	Permanent	Annexed	Other	13.5		30,000.00	
39	Permanent	Single Unit	Own	45		100,000.00	
40	Semi-permanent	Single Unit	Own	16.4		20,000.00	
41	Temporary	Single Unit	Own	7.8		8,000.00	
42	Temporary	Single Unit	Own	6.6		10,000.00	
43	Permanent	Single Unit	Own	55.0		30,000.00	
44	Permanent	Single Unit	Own	100.0		300,000.00	
45	Temporary	Annexed	Own	13.9		15,000.00	
46	Permanent	Annexed	Own	116.2		50,000.00	
47	Semi-permanent	Annexed	Own	34.9		35,000.00	
48	Semi-permanent	Single Unit	Own	27.9		25,000.00	
49	Permanent	Single Unit	Own	46.5		30,000.00	
50	Permanent	Single Unit	Own	60.2		60,000.00	
51	Temporary	No Response	Own	4.5		8,000.00	
52	Semi-permanent	Single Unit	Own	17.8		30,000.00	
53	Temporary	Single Unit	Own	46.5		30,000.00	
54	Temporary	Single Unit	Own	51.1		45,000.00	
55	Temporary	Single Unit	Own	30.1		15,000.00	
56	Temporary	Single Unit	Own	7.5		5,000.00	
57	Temporary	Single Unit	Own	12.5		10,000.00	
58	Temporary	Single Unit	Own	32.5		20,000.00	
59	Temporary	Single Unit	Own	37.2		20,000.00	
60	Temporary	Single Unit	Own	30.2		20,000.00	
61	Temporary	Single Unit	Own	16.1		18,000.00	
62	Temporary	Single Unit	Own	25		22,000.00	
63	Temporary	Single Unit	Own	16.5		12,000.00	
64	Temporary	Single Unit	Own	18		16,000.00	
65	Temporary	Single Unit	Own	21.7		20,000.00	
66	Temporary	Single Unit	Own	15.4		15,000.00	
67	Temporary	Single Unit	Own	27.9		40,000.00	

SCHEDULE 2.5 : AVAILABILITY OF OTHER FACILITIES

[illegible]

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF INTAKE AREA
SCHEDULE 2.6 : POPULATION INFORMATION

Serial No.	Household Population	Male	Female	Total	Age Group	0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70+	Total	Ratio
1	3	0	3	3	0-4	3															3	6
2	1	1	0	1	0-4	1															1	3
3	1	1	0	1	0-4	1															1	3
4	1	1	0	1	0-4	1															1	3
5	1	1	0	1	0-4	1															1	3
6	1	1	0	1	0-4	1															1	3
7	1	1	0	1	0-4	1															1	3
8	3	2	1	3	0-4	3															3	6
9	1	1	0	1	0-4	1															1	3
10	1	1	0	1	0-4	1															1	3
11	1	1	0	1	0-4	1															1	3
12	1	1	0	1	0-4	1															1	3
13	1	1	0	1	0-4	1															1	3
14	1	1	0	1	0-4	1															1	3
15	2	2	0	2	0-4	2															2	6
16	1	1	0	1	0-4	1															1	3
17	1	1	0	1	0-4	1															1	3
18	4	4	0	4	0-4	4															4	12
19	1	1	0	1	0-4	1															1	3
20	1	1	0	1	0-4	1															1	3
21	1	1	0	1	0-4	1															1	3
22	1	1	0	1	0-4	1															1	3
23	1	1	0	1	0-4	1															1	3
24	1	1	0	1	0-4	1															1	3
25	1	1	0	1	0-4	1															1	3
26	2	2	0	2	0-4	2															2	6
27	1	1	0	1	0-4	1															1	3
28	1	1	0	1	0-4	1															1	3
29	1	1	0	1	0-4	1															1	3
30	1	1	0	1	0-4	1															1	3
31	1	1	0	1	0-4	1															1	3
32	1	1	0	1	0-4	1															1	3
33	1	1	0	1	0-4	1															1	3
34	1	1	0	1	0-4	1															1	3
35	1	1	0	1	0-4	1															1	3
36	1	1	0	1	0-4	1															1	3
37	1	1	0	1	0-4	1															1	3
38	1	1	0	1	0-4	1															1	3
39	1	1	0	1	0-4	1															1	3
40	1	1	0	1	0-4	1															1	3
41	1	1	0	1	0-4	1															1	3
42	1	1	0	1	0-4	1															1	3
43	1	1	0	1	0-4	1															1	3
44	1	1	0	1	0-4	1															1	3
45	1	1	0	1	0-4	1															1	3
46	1	1	0	1	0-4	1															1	3
47	1	1	0	1	0-4	1															1	3
48	1	1	0	1	0-4	1															1	3
49	1	1	0	1	0-4	1															1	3
50	1	1	0	1	0-4	1															1	3
51	2	2	0	2	0-4	2															2	6
52	0	0	0	0	0-4	0															0	0
53	1	1	0	1	0-4	1															1	3
54	1	1	0	1	0-4	1															1	3
55	1	1	0	1	0-4	1															1	3
56	2	2	0	2	0-4	2															2	6
57	1	1	0	1	0-4	1															1	3
58	1	1	0	1	0-4	1															1	3
59	2	2	0	2	0-4	2															2	6
60	1	1	0	1	0-4	1															1	3
61	1	1	0	1	0-4	1															1	3
62	1	1	0	1	0-4	1															1	3
63	0	0	0	0	0-4	0															0	0
64	1	1	0	1	0-4	1															1	3
65	2	2	0	2	0-4	2															2	6
66	1	1	0	1	0-4	1															1	3
67	1	1	0	1	0-4	1															1	3

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF INTAKE /

SCHEDULE 2.7 : OCCUPATION AND INCOME

Serial No.	Household's Occupation	Household's Income	Family Total Income
1	Electrician	3,000.00	3,000.00
2	Mason	5,000.00	5,000.00
3	Fisherman	3,000.00	3,000.00
4	Fishing	1,500.00	1,500.00
5	No Response	No Response	No Response
6	Fisherman	2,000.00	2,000.00
7	Fishing	2,000.00	2,000.00
8	Fishing	No Response	No Response
9	Labourer	3,000.00	3,000.00
10	Fishing	4,000.00	4,000.00
11	Labourer	3,000.00	3,000.00
12	Fishing	4,000.00	4,000.00
13	Labourer	No Response	No Response
14	Mason	5,500.00	5,500.00
15	Labourer	6,000.00	6,000.00
16	Mason	No Response	No Response
17	Business, Coll. Products	7,000.00	7,000.00
18	Mason, Labourer	6,000.00	6,000.00
19	Driver	3,000.00	3,000.00
20	Motor Mechanic	2,500.00	2,500.00
21	Tailor	4,000.00	4,000.00
22	Electrician	4,000.00	4,000.00
23	Labourer	3,500.00	3,500.00
24	Fishing	No Response	No Response
25	Fishing	6,000.00	6,000.00
26	Mechanic	1,500.00	1,500.00
27	Mason	4,000.00	4,000.00
28	Fishing	5,000.00	5,000.00
29	Fishing	3,000.00	3,000.00
30	Fishing	4,000.00	4,000.00
31	Fishing	3,500.00	3,500.00
32	No Response	2,000.00	2,000.00
33	Cleaner	3,500.00	3,500.00
34	Fishing	3,500.00	3,500.00
35	Pension	No Response	No Response
36	Mason	7,000.00	7,000.00
37	Labourer	3,000.00	3,000.00
38	Labourer	5,000.00	5,000.00
39	Business	7,000.00	7,000.00
40	Mason	5,000.00	5,000.00
41	Pension	No Response	No Response
42	Weaving	2,500.00	2,500.00
43	Labourer	3,000.00	3,000.00
44	Fishing	No Response	No Response
45	Fishing	5,000.00	5,000.00
46	Fishing	6,000.00	6,000.00
47	Lat. Work	2,500.00	2,500.00
48	Fishing	2,000.00	2,000.00
49	Fishing	2,000.00	2,000.00
50	Fishing	No Response	No Response
51	Selling Grain	2,000.00	2,000.00
52	Labourer	6,000.00	6,000.00
53	Fishing	2,000.00	2,000.00
54	Labourer	3,000.00	3,000.00
55	Labourer	3,500.00	3,500.00
56	Fishing	5,000.00	5,000.00
57	Fishing	6,500.00	6,500.00
58	Fishing	7,000.00	7,000.00
59	Fishing	8,500.00	8,500.00
60	Auditor	3,000.00	3,000.00
61	Fishing	7,000.00	7,000.00
62	Labourer	1,000.00	1,000.00
63	Labourer	2,000.00	2,000.00
64	Labourer	No Response	No Response
65	Fishing	7,000.00	7,000.00
66	Fishing	8,000.00	8,000.00
67	Fishing	8,000.00	8,000.00

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF INTAKE AREA
SCHEDULE 2.7 : OCCUPATION AND INCOME (CONTINUED)

Serial No.	Altitude	Sex	Age	Marital Status	Employment	Income	Other
1	-	-	-	-	-	-	0.00
2	-	-	-	-	-	-	0.00
3	500.00	-	-	-	-	-	500.00
4	800.00	-	-	-	-	-	800.00
5	500.00	-	-	-	-	-	500.00
6	500.00	-	-	-	-	-	500.00
7	200.00	-	-	-	-	-	200.00
8	-	-	-	-	-	-	0.00
9	200.00	-	-	-	-	-	200.00
10	-	-	-	-	-	-	0.00
11	200.00	-	-	-	-	-	200.00
12	-	-	-	-	-	-	0.00
13	-	-	-	-	-	-	0.00
14	-	-	-	-	-	-	0.00
15	-	-	-	-	-	-	0.00
16	-	-	-	-	-	-	0.00
17	500.00	-	-	-	-	-	500.00
18	500.00	-	-	-	-	-	500.00
19	-	-	-	-	-	-	0.00
20	-	-	-	-	-	-	0.00
21	200.00	-	-	-	-	-	200.00
22	500.00	-	-	-	-	-	500.00
23	-	-	-	-	-	-	0.00
24	500.00	-	-	900.00	-	-	1,400.00
25	500.00	-	-	-	-	-	500.00
26	200.00	-	-	-	-	-	200.00
27	-	-	-	-	-	-	0.00
28	500.00	-	-	-	-	-	500.00
29	500.00	-	-	-	-	-	500.00
30	500.00	-	-	-	-	-	500.00
31	500.00	-	-	2,000.00	-	-	2,500.00
32	500.00	-	-	-	-	-	500.00
33	500.00	-	-	-	-	-	500.00
34	500.00	-	-	-	-	-	500.00
35	500.00	-	-	-	-	-	500.00
36	-	-	-	-	-	-	0.00
37	-	-	-	-	-	-	0.00
38	500.00	-	-	-	-	-	500.00
39	-	-	-	-	-	-	0.00
40	-	-	-	-	-	-	0.00
41	-	-	-	-	-	-	0.00
42	500.00	-	-	-	-	-	500.00
43	-	-	-	-	-	-	0.00
44	600.00	-	-	-	-	-	500.00
45	-	-	-	-	-	-	0.00
46	-	-	-	-	8,000.00	-	8,000.00
47	-	-	-	-	-	-	0.00
48	600.00	-	-	-	-	-	500.00
49	-	-	-	-	-	-	0.00
50	-	-	-	-	-	-	0.00
51	500.00	-	-	-	-	-	500.00
52	500.00	-	-	-	-	-	500.00
53	500.00	-	-	-	-	-	500.00
54	500.00	-	-	-	-	-	500.00
55	600.00	-	-	-	-	-	500.00
56	500.00	-	-	-	-	-	500.00
57	500.00	-	-	-	-	-	500.00
58	-	-	-	-	-	-	500.00
59	-	-	-	-	-	-	500.00
60	-	-	-	-	-	-	0.00
61	-	-	-	-	-	-	0.00
62	500.00	-	-	-	-	-	500.00
63	500.00	-	-	-	-	-	500.00
64	500.00	-	-	-	-	-	500.00
65	-	-	-	-	-	-	0.00
66	500.00	-	-	-	-	-	500.00
67	-	-	-	-	-	-	0.00

Schedule 2.8 : Summarized Data Result Sheet of Socio-Economic Survey for Occupants of 50 m Wide Intake Area

Serial No	Name	Address	Extent Perches	Ownership Type	Estimated Land Value Rs.	Value of Trees Rs.	Structure of House	Ownership	Floor Area	Estimated Value Rs.	Drain Syst	Electricity	Water	Toilet
1	34 K. P. Kapila	52, Lunawa Moya Rd.,	15.10	- State	-	-	Semi Permanent	Own	17.5	25,000.00	No	No	PBS	No
2	12 S. Lakshman	139/7, Lunawa Moya Dickovita Hendala	No. Re.	encroached	-	-	Semi Permanent	Own	34.0	30,000.00	No	No	PBS	Other
3	3 Joseph Benedic	138/1, Lunawa Moya Dickovita Hendala	10.00	State	23,000.00	-	Temporary	Own	18.6	7,000.00	No	No	PBS	Other
4	29 P. Chamil	Lunawa Moya Dickovita Hendala	8.00	State	-	-	Semi Permanent	Own	20.1	20,000.00	No	No	PBS	No
5	6 A. A. D. Sunil Priyantha	139/5, Lunawa Moya Dickovita Hendala	15.00	State	30,000.00	-	Semi Permanent	Own	27.9	25,000.00	No	No	PBS	Other
6	58 M. M. Mohamed	139/2, Lunawa Moya Dickovita Hendala	7.00	St. P.H	-	-	Temporary	Own	32.5	20,000.00	No	No	PBS	No
7	30 T. N. Fernando	139/2, Lunawa Moya Dickovita Hendala	8.00	St. P.H	-	-	Temporary	Own	66.0	8,000.00	No	No	PBS	No
8	31 K. S. Mervin	139/4, Lunawa Moya Dickovita Hendala	8.00	St. P.H	-	-	Semi Permanent	Own	149.0	20,000.00	No	No	PBS	No
9	66 Agnui Rodrigo	139/4, Lunawa Moya Dickovita Hendala	8.00	St. P.H	-	-	Temporary	Own	15.4	15,000.00	No	No	PBS	Pit
10	33 B. Kularatne	139/8, Lunawa Moya Dickovita Hendala	10.10	St. P.H	-	700.00	Semi Permanent	Own	14.9	15,000.00	No	No	PBS	No
11	32 W. K. M. Fernando	139/9, Lunawa Moya Dickovita Hendala	7.00	St. P.H	-	-	Semi Permanent	Own	8.9	10,000.00	No	No	PBS	No
12	67 Ramani Chandralatha	139/9, Lunawa Moya Dickovita Hendala	12.00	St. P.H	-	-	Temporary	Own	27.9	40,000.00	No	No	PBS	No
13	49 W. Abeekoon	380, Awarakotuwa, Handala Wattala	40.00	St. P.H	-	1,000.00	Permanent	Own	46.5	30,000.00	No	No	PBS	Water seal
14	50 W. Nihal Sebasthian	378 A, Awarakotuwa, Handala Wattala	30.00	St. P.H	-	2,500.00	Permanent	Own	50.2	60,000.00	No	No	PBS	Pit
15	24 Basil Jayawardena	390/42, Awarakotuwa, Handala Wattala	18.00	St. P.H	32,500.00	-	Semi Permanent	Own	19.6	25,000.00	No	No	PBS	Bucket
16	45 R. V. K. Thushara	390/42, Awarakotuwa, Handala Wattala	20.00	St. P.H	-	1,000.00	Temporary	Own	13.9	15,000.00	No	No	PBS	No
17	46 M. Ranpala	390/42, Awarakotuwa, Handala Wattala	N.R	St. P.H	-	500.00	Semi Permanent	Own	116.2	90,000.00	No	Yes	PBS	Water seal
18	47 P. M. R. Piyadasa	390/42, Awarakotuwa, Handala Wattala	25.00	St. P.H	-	500.00	Semi Permanent	Own	34.9	35,000.00	No	Yes	PBS	Pit
19	63 Hanendra Shymalee	382, Awarakotuwa, Handala Wattala	18.00	St. P.H	-	-	Temporary	Own	15.5	121,000.00	No	No	PBS	No
20	64 Swarnakanthi	382/5, Awarakotuwa, Handala Wattala	24.00	St. P.H	-	-	Temporary	Own	18	16,000.00	No	No	PBS	Pit
21	65 Lilly Josaphin	382/5, Awarakotuwa, Handala Wattala	25.00	St. P.H	-	-	Temporary	Own	21.7	20,000.00	No	No	PBS	Pit
22	57 R. P. Kiriukku	382/6, Awarakotuwa, Handala Wattala	8.00	St. P.H	-	-	Temporary	Own	12.5	10,100.00	No	No	PBS	Pit
23	18 R. P. Sirisena	382/11, Awarakotuwa, Handala Wattala	25.00	St. P.H	150,000.00	3,600.00	Permanent	Own	13.1	75,000.00	No	No	PBS	Pit
24	17 S. M. Muthubanda	382/4, Awarakotuwa, Handala Wattala	23.00	St. P.H	100,000.00	3,000.00	Semi Permanent	Own	18.6	25,000.00	No	No	PBS	Flush
25	Occupied only part of the time (Kristy)	Awarakotuwa, Handala Wattala	-	-	-	-	Temporary	-	-	-	-	-	-	-

Schedule 2.8 Cont.

Serial No.	Household Population				Household Population				Grand Total	Householder's Income (Rs.)	Others Income (Rs.)	Family Income (Rs.)	Poverty Allevation			Other Income (Rs.)			Income (Rs.)	
	Adults	Chlds	Male	Total	Adults	Chlds	Female	Total								Farm/Livestock	For	Emp	Other Total	Grand Total
1	34	1	2	3	1	2	0	3	6	Fishing	3,500.00	-	500.00	-	-	-	-	-	-	4,000.00
2	12	1	0	1	1	0	1	2	2	Fishing	4,000.00	-	-	-	-	-	-	-	-	4,000.00
3	3	1	1	2	1	0	1	2	3	Fishing	3,000.00	-	500.00	-	-	-	-	-	-	3,500.00
4	29	1	1	2	1	2	1	4	5	Fishing	3,000.00	-	500.00	-	-	-	-	-	-	3,500.00
5	6	1	1	2	2	1	2	5	5	Fishing	3,000.00	-	500.00	-	-	-	-	-	-	3,500.00
6	58	1	2	3	1	0	1	2	4	Fishing	7,000.00	-	-	-	-	-	-	-	-	7,000.00
7	30	1	1	2	1	1	1	3	4	Fishing	4,000.00	-	500.00	-	-	-	-	-	-	4,500.00
8	31	1	1	2	2	1	1	4	5	Fishing	3,500.00	2,000.00	500.00	-	-	2,000.00	-	-	2,500.00	6,000.00
9	66	2	3	5	2	2	2	6	9	Fishing	7,000.00	-	500.00	-	-	-	-	-	-	7,500.00
10	33	1	0	1	1	1	1	3	3	Cleaner	3,500.00	-	500.00	-	-	-	-	-	-	4,000.00
11	32	1	1	2	2	1	1	4	5	No Re.	3,500.00	-	500.00	-	-	-	-	-	-	4,000.00
12	67	1	2	3	1	1	1	3	5	Fishing	8,000.00	-	-	-	-	-	-	-	-	8,000.00
13	49	1	1	2	2	1	0	3	5	Fishing	2,000.00	700.00	-	-	-	-	-	-	-	2,700.00
14	50	1	2	3	1	1	1	3	4	Fishing	No Re.	-	-	-	-	-	-	-	-	-
15	24	1	1	2	2	1	1	4	4	Fishing	No Re.	-	-	-	-	-	-	-	-	-
16	45	1	1	2	1	1	0	2	3	Fishing	No Re.	-	500.00	-	-	-	-	-	-	500.00
17	46	1	1	2	1	1	0	2	3	Fishing	5,000.00	-	-	-	-	-	-	-	-	5,000.00
18	47	1	1	2	1	1	0	2	3	Fishing	6,000.00	3,000.00	-	-	-	-	8,000.00	-	8,000.00	17,000.00
19	63	0	3	3	2	1	0	3	4	Lath Work	2,500.00	-	-	-	-	-	-	-	-	2,500.00
20	64	1	2	3	3	1	0	4	6	Labourer	2,000.00	-	500.00	-	-	-	-	-	-	2,500.00
21	65	2	3	5	2	2	2	6	9	No Re.	No Re.	-	-	-	-	-	-	-	-	2,500.00
22	57	1	1	2	1	1	1	3	4	Fishing	6,500.00	-	500.00	-	-	-	-	-	-	7,000.00
23	18	4	0	4	1	0	1	2	5	Mason	6,000.00	-	500.00	-	-	-	-	-	-	6,500.00
24	17	1	1	2	1	2	1	4	5	Business	7000	-	500.00	-	-	-	-	-	-	7,500.00
25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Schedule 2.9 : Land Allocation as per BOP No. Gam/Wat (96/299)

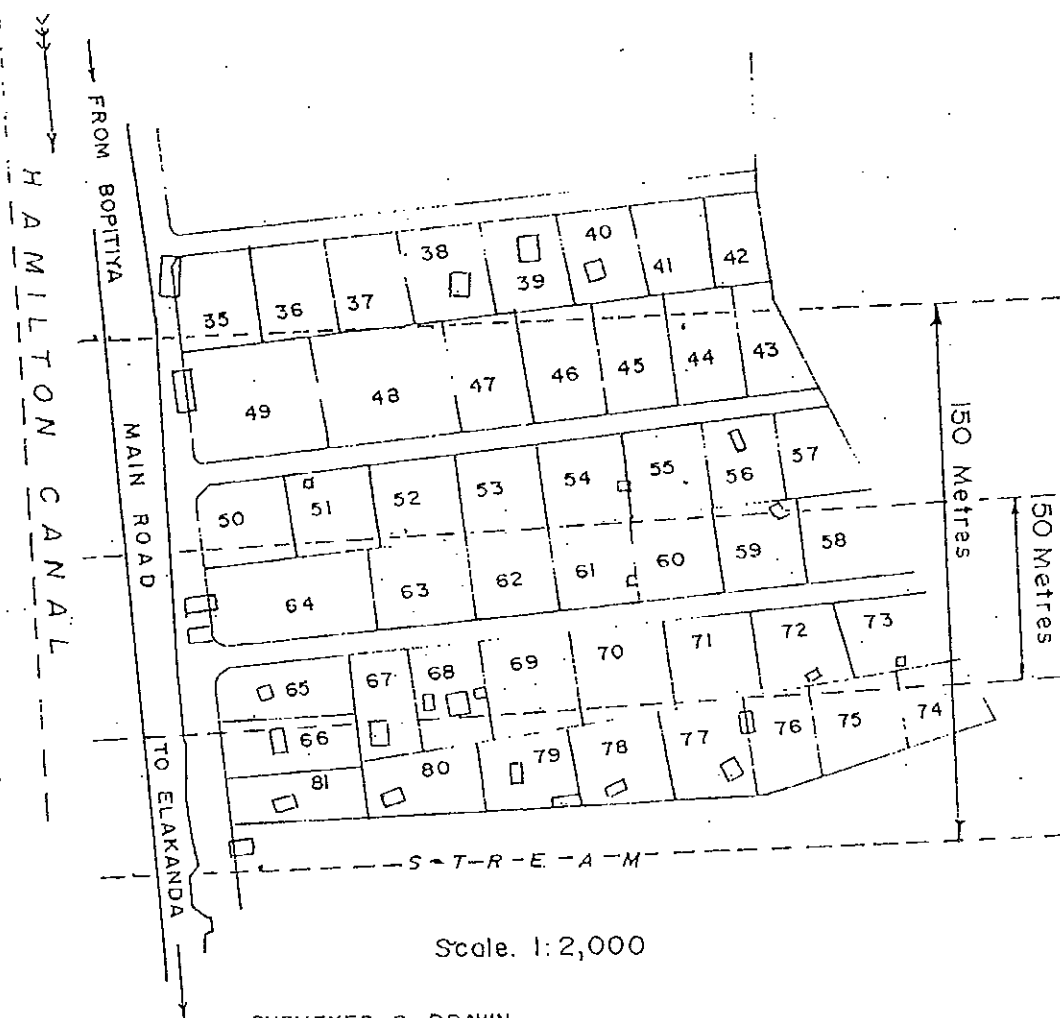
Lot No.	Name	Land Area In Perches
58	Vacan Land	25.67
59	H. E. Perera	25.29
60	R. P. Kiriukku	23.32
61	N. P. L. Josephin	19.76
62	M. T. A. Jude Sriya	19.76
63	A. H. Fernando	23.71
64	Wijedasa Abekoon	39.12
65	K. P. Antori	22.13
66	K. D. D. Jayawardana	17.39
67	K. V. K. Vidana Ranpala	20.55
68	R. V. K. Rohitha Thushara	25.29
69	R. V. K. Rohan Priyadarsana	26.87
70	V. D. K. Swrma	24.1
71	K. P. Sirisena	25.2
72	K. Pushparani	29.5
		367.66

2 Ac 48 Perches

- Note :
1. The above land is East of the canal. The land area west of the canal involved is 110 perches
 2. The total land to be taken over is approximately 3 Ac (1.18 ha)

Fig 3.

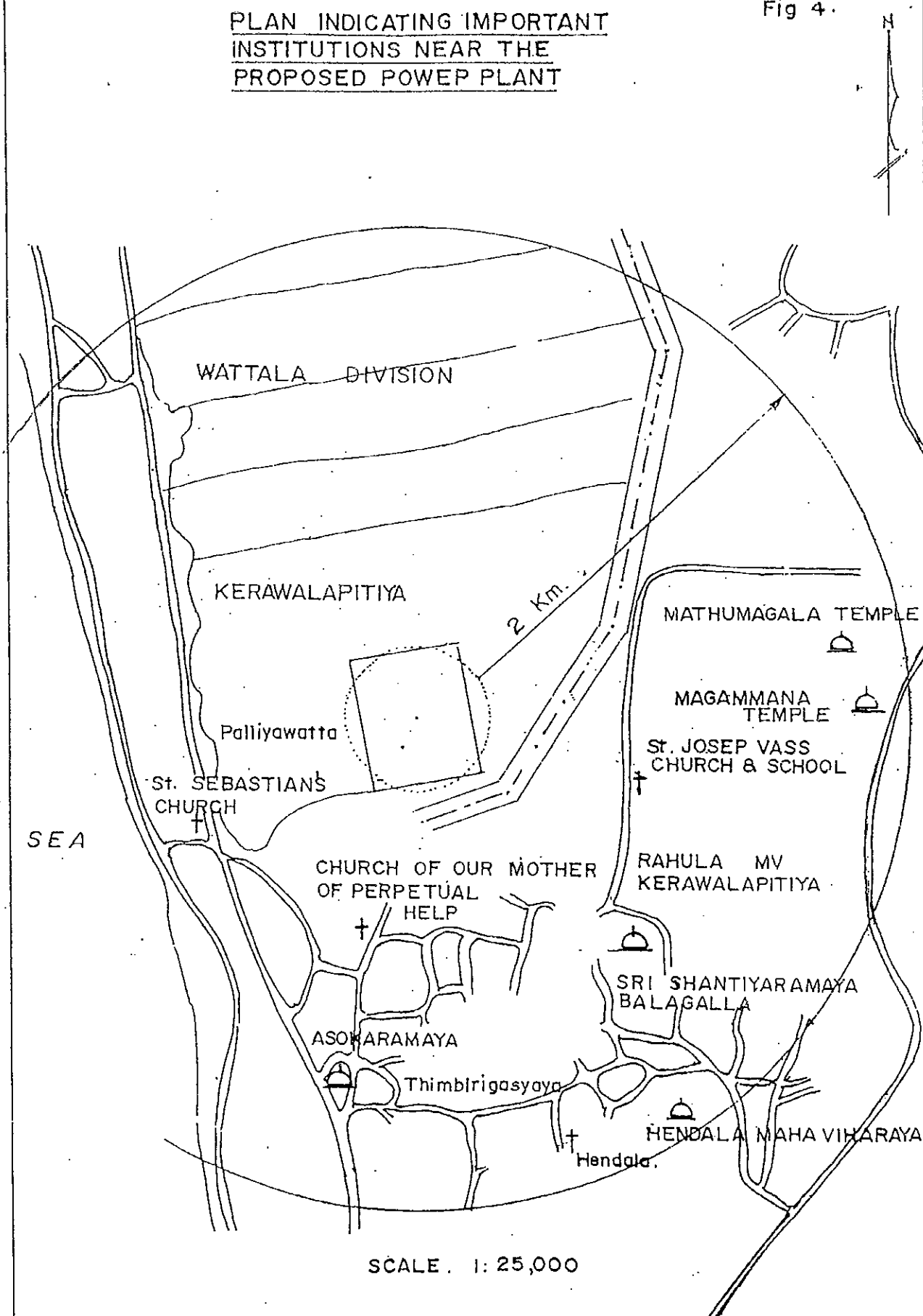
BLOCKING OUT PLAN - No. GAM/WAT/96/299.
(AWARAKOTUWA - STAGE II)



SURVEYED & DRAWN
 K.M. SARDAWATHIE
 GOVT. SURVEYOR

PLAN INDICATING IMPORTANT
INSTITUTIONS NEAR THE
PROPOSED POWER PLANT

Fig 4.



**SOCIO-ECONOMIC SURVEY OF THE INTAKE AREA
AND THE ACCESS ROAD**

CHAPTER 3: SOCIO-ECONOMIC STATUS OF RESIDENTS ALONG THE ACCESS ROAD

Schedule 3.1 to 3.7 provides data result sheets of the socio-economic survey of the access road.

3.1 Background and Proposed Access Road Improvement

The access road is called Gunasekera Mawatha, and proceeds from Kerawalapitiya and joins the Colombo-Negombo Road a little North of the Milk Food Factory at Welisara.

The width of this RDA road varies from 4.5m to 6.0m. There are permanent houses on either side of Gunasekera Mawatha. The land value is high and the respondents claim Rs.50,000.00 to Rs.100,000.00 per perch.

The residents strongly protest about road widening. A container yard functions at Kerawalapitiya and they too use the Gunasekera Mawatha causing displeasure among the residents.

Member of Parliament of Wattala informed the Consultants that Gunasekera Mawatha should not be widened as it passes through highly-developed area, and a direct access should be built through the marsh without disturbing built up areas.

Though the TOR indicated the survey area comprising of 10m on either side from edge of road, the Japanese consultants indicated that a total width of 10m is adequate for the access road.

Socio-economic survey of the access road was carried out with some difficulty, due to the lack of cooperation of the residents.

In estimating the compensation costs, it was assumed that the total road width would be 10m. Then it was possible to minimise damage, the acquisition being limited to narrow strips and demolition necessary for parapet walls only.

3.2 Socio-Economic Status of Residents

(a) Land and Housing Information

Out of 90 residents along the access road who are affected by the road widening, only 51 residents responded. There are 39 residents who have not responded as they strongly protest against the road widening. The addresses of all these residents are indicated together with the names available in schedule No.3.1A. The extent of land owned by the residents varied from as small as 3.00 perches to 50.0 perches. There 15 residents hold land 10 perches and less, 21 residents holding land from 11- 20 perches and 15 residents hold land over 20 perches in size.

Of the 51 residents, 39 residents own the land (6 of them having co-owners), 9 are on lease, 2 with state land and one encroacher.

Out of 50 respondents households 40 houses are permanent, 7 semi-permanent and only two are temporary. Schedule 3.3 gives the value of and, value of valuable trees and the value of other assets, given by the residents. These values are liable to be exaggerated due to their opposition to any acquisition. Similarly the estimated present value of the house would often be too high in schedule 3.4.

As per schedule 3.5 almost none have a drainage system, 45 out of 51 respondent households have electricity 12 out of 51 houses have telephones, source of drinking water is dug wells in 31 out of 51 households, 10 use tube wells, 6 are dependent on pipe borne water from street tap and 4 have pipe borne water connection to the house.

Of the 51 residents, there was no response from one with regard to toilet facilities, one had no toilet, another had pit latrine, one indicated "other" (not listed) and the great majority 43 out of the 46 respondent households had flush/water seal toilet facilities.

(b) Population

There is a total population of 245 in this 50 respondent households, of which 127 are males and 118 females. Among the males there 92 adults and 35 children. Among the female there are 86 adults and 32 children.

(c) Economic Information

(i) Employment

Ten of the 51 residents are engaged in trading/business, 6 of them are retired/pensioners, 4 are drivers, 4 labourers, 2 depend on foreign employment, and others are varied vocations such as manager, executive, cashier, clerk, training officer, teacher, store-keeper, bicycle repairer, supervisor, carpenter and security officer. However 8 of the 51 residents did not respond to this inquiry.

(ii) Income

Householders income varied from as small as Rs.1000.00 for a small trader to Rs.15,000.00 for a manager, executive and foreign employment. Only 9 of the households had income from other members of the family which varied from Rs.500.00 to 9,000.00 per month.

There are six recipients of poverty alleviation assistance while there were no income from farm or livestock.

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF ACCESS ROAD
SCHEDULE 3.1 : LIST OF RESIDENTS

Serial No.	Grd Division	Local Body	Village	Name of Resident	Address
1	177 Kerage Pokuna	Wattala	Mathumagala	U. D. A. Srinananda	104, Gunasekara Mw., Mathumagala, Ragama
2	177 Kerage Pokuna	Wattala	Mathumagala	Jayantha Paliakkara	110, Gunasekara Mw., Mathumagala, Ragama
3	177 Kerage Pokuna	Wattala	Mathumagala	K. Lionel	32, Gunasekara Mw., Mathumagala
4	177 Kerage Pokuna	Wattala	Kumbagampitiya	M. W. Martin	No. 1, Kumbagampitiya, Kerawalapitiya, Handala, Wattala
5	177 Kerage Pokuna	Wattala	Mathumagala	L. A. Gunasena	160, Gunasekara Mw., Mathumagala, Ragama
6	177 Kerage Pokuna	Wattala	Mathumagala	D. J. D. Peter	53/3, Mathumagala, Ragama
7	177 Kerage Pokuna	Wattala	Mathumagala	G. A. D. Keerthirajna	110, Gunasekara Mw., Mathumagala, Ragama
8	177 Kerage Pokuna	Wattala	Mathumagala	G. V. P. Nihal	156, Gunasekara Mw., Mathumagala, Ragama
9	177 Kerage Pokuna	Wattala	Kumbagampitiya	T. M. S. Vieratne	13, Kumbagampitiya, Handala, Wattala
10	177 Kerage Pokuna	Wattala	Kumbagampitiya	M. A. Richard	25, Kumbagampitiya, Handala, Wattala
11	177 Kerage Pokuna	Wattala	Kumbagampitiya	H. Alohas	61/1, Kumbagampitiya, Handala, Wattala
12	177 Kerage Pokuna	Wattala	Kerawalapitiya	R. A. Mary Margaret	397/1, Kerawalapitiya, Handala, Wattala
13	177 Kerage Pokuna	Wattala	Mathumagala	S. H. W. Appunamy	676, Mathumagala, Ragama
14	177 Kerage Pokuna	Wattala	Mathumagala	E. V. P. Cooray	166, Gunasekara Mw., Mathumagala, Ragama
15	177 Kerage Pokuna	Wattala	Mathumagala	C. R. Jayatilake	5, Gunasekara Mw., Mathumagala, Ragama
16	177 Kerage Pokuna	Wattala	Mathumagala	M. D. Jayantha	119, Gunasekara Mw., Mathumagala, Ragama
17	177 Kerage Pokuna	Wattala	Mathumagala	B. A. S. Iddamalgoda	47/A, Gunasekara Mw., Mathumagala, Ragama
18	177 Kerage Pokuna	Wattala	Mathumagala	E. Almeida	37, Gunasekara Mw., Mathumagala, Ragama
19	177 Kerage Pokuna	Wattala	Mathumagala	Sitha Abeyesuriya	47, Gunasekara Mw., Mathumagala, Ragama
20	177 Kerage Pokuna	Wattala	Mathumagala	A. N. Almeida	79, Gunasekara Mw., Mathumagala, Ragama
21	177 Kerage Pokuna	Wattala	Mathumagala	D. A. Samarawera	15, Gunasekara Mw., Mathumagala, Ragama
22	177 Kerage Pokuna	Wattala	Mathumagala	S. K. Viktor	7/A, Gunasekara Mw., Mathumagala, Ragama
23	177 Kerage Pokuna	Wattala	Mathumagala	D. P. Jayaweera	118, Gunasekara Mw., Mathumagala, Ragama
24	177 Kerage Pokuna	Wattala	Mathumagala	Chandrasena	79, Gunasekara Mw., Mathumagala, Ragama
25	177 Kerage Pokuna	Wattala	Mathumagala	H. Dharmadasa	No. 94, Gunasekara Mw., Mathumagala, Ragama
26	177 Kerage Pokuna	Wattala	Mathumagala	K. U. Perera	35, Gunasekara Rd., Mathumagala, Ragama
27	177 Kerage Pokuna	Wattala	Mathumagala	K. A. D. Wimalada	No. 36, Gunasekara, Mathumagala, Ragama
28	177 Kerage Pokuna	Wattala	Mathumagala	P. Kumara	163, Gunasekara Mw., Mathumagala, Ragama
29	177 Kerage Pokuna	Wattala	Mathumagala	M.M. Razim	22, Gunasekara, Mathumagala, Ragama
30	177 Kerage Pokuna	Wattala	Mathumagala	S. G. U. Kurunaratne	180, Gunasekara Mw., Mathumagala, Handala, Wattala
31	177 Kerage Pokuna	Wattala	Mathumagala	D. P. L. P. Jayaweera	91 A, Gunasekara Mw., Mathumagala, Ragama
32	177 Kerage Pokuna	Wattala	Mathumagala	M. D. Leelawathie	172/1, Gunasekara Mw., Mathumagala
33	177 Kerage Pokuna	Wattala	Mathumagala	S. K. Weerasekara	184, Gunasekara Mw., Mathumagala
34	177 Kerage Pokuna	Wattala	Kerawalapitiya	G. P. Piyadasa	391/13, Kerawalapitiya, Handala, Wattala
35	177 Kerage Pokuna	Wattala	Kerawalapitiya	S. Jayasekara	391/9, Kerawalapitiya Rd., Kerawalapitiya
36	177 Kerage Pokuna	Wattala	Mathumagala	M. D. Nandawathie	682, Mathumagala, Ragama
37	177 Kerage Pokuna	Wattala	Mathumagala	S. N. R. Vijethunga	10/3, Gunasekara Mw., Mahabage, Ragama
38	177 Kerage Pokuna	Wattala	Mathumagala	C. H. Fonseka	16, Gunasekara Mw., Mathumagala, Ragama
39	177 Kerage Pokuna	Wattala	Mathumagala	W. H. Endoris	17, Gunasekara Mw., Mathumagala, Ragama
40	177 Kerage Pokuna	Wattala	Mathumagala	P.A.J.A. Francis	152, Gunasekara Mw.,
41	177 Kerage Pokuna	Wattala	Mathumagala	D. S. Jayasinghe	87, Gunasekara Mw., Mathumagala, Ragama
42	177 Kerage Pokuna	Wattala	Mathumagala	T. Athukorala	38, Gunasekara Mw., Mathumagala, Ragama
43	177 Kerage Pokuna	Wattala	Mathumagala	U.P.I. Sena Perera	84, Gunasekara Mw., Mathumagala, Ragama
44	177 Kerage Pokuna	Wattala	Mathumagala	M. M. Dharmadasa	92, Gunasekara Mw., Mathumagala, Ragama
45	177 Kerage Pokuna	Wattala	Mathumagala	M. A. Premathilaka	92/C, Gunasekara Mw., Mathumagala, Ragama
46	177 Kerage Pokuna	Wattala	Mathumagala	G. A. D. Premaratna	54, Gunasekara Mw., Mathumagala, Ragama
47	177 Kerage Pokuna	Wattala	Mathumagala	T. I. Rahim	94, Gunasekara Mw., Mathumagala, Ragama
48	177 Kerage Pokuna	Wattala	Mathumagala	R. A. Ariyadasa	142, Gunasekara Mw., Mathumagala, Ragama
49	177 Kerage Pokuna	Wattala	Mathumagala	N. Gunatillake	138, Gunasekara Mw., Mathumagala, Ragama
50	177 Kerage Pokuna	Wattala	Mathumagala	M. D. Merzoline	72, Gunasekara Mw., Mathumagala, Ragama
51	177 Kerage Pokuna	Wattala	Mathumagala	J. G. Alith	110, Gunasekara Mw., Mathumagala, Ragama

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF ACCESS ROAD
SCHEDULE 3.1 A : LIST OF RESIDENTS NOT RESPONDED

Serial No.	Grd Division	Locality	Village	Name of Resident	Address
52	177 Kerage Pokuna	Wattala	Maththumagala		340, Container Factory Building
53	177 Kerage Pokuna	Wattala	Maththumagala		405, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
54	177 Kerage Pokuna	Wattala	Maththumagala		411, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
55	177 Kerage Pokuna	Wattala	Maththumagala	Boulique	Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
56	177 Kerage Pokuna	Wattala	Maththumagala		412, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
57	177 Kerage Pokuna	Wattala	Maththumagala	Merrin Perera,	214/4, Gunasekara Mw., Hendala, Wattala
58	177 Kerage Pokuna	Wattala	Maththumagala	K. H. Victor	220/49, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
59	177 Kerage Pokuna	Wattala	Maththumagala		91/B, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
60	177 Kerage Pokuna	Wattala	Maththumagala	Hapuarachchi	106, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
61	177 Kerage Pokuna	Wattala	Maththumagala	Dharmasena	94, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
62	177 Kerage Pokuna	Wattala	Maththumagala	Pottery Industry	93, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
63	177 Kerage Pokuna	Wattala	Maththumagala	P. Liliyan	105, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
64	177 Kerage Pokuna	Wattala	Maththumagala	P. S. M. Senarathna	140, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
65	177 Kerage Pokuna	Wattala	Maththumagala	K. B. Jennona	71/1, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
66	177 Kerage Pokuna	Wattala	Maththumagala	W. Sarath Almeda	79, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
67	177 Kerage Pokuna	Wattala	Maththumagala	G. Gunasekara	144, Gunasekara Mw., Kumbagampitiya, Hendala, Wattala
68	177 Kerage Pokuna	Wattala	Maththumagala	Akbar Brothers Limited	45, Gunasekara Mw., Ragama
69	177 Kerage Pokuna	Wattala	Maththumagala	Akbar Brothers Limited	45, Gunasekara Mw., Ragama
70	177 Kerage Pokuna	Wattala	Maththumagala	Akbar Brothers Limited	45, Gunasekara Mw., Ragama
71	177 Kerage Pokuna	Wattala	Maththumagala		114, Gunasekara Mw., Ragama
72	177 Kerage Pokuna	Wattala	Maththumagala		138, Gunasekara Mw., Ragama
73	177 Kerage Pokuna	Wattala	Maththumagala		74, Gunasekara Mw., Ragama
74	177 Kerage Pokuna	Wattala	Maththumagala		76, Gunasekara Mw., Ragama
75	177 Kerage Pokuna	Wattala	Maththumagala		82, Gunasekara Mw., Ragama
76	177 Kerage Pokuna	Wattala	Maththumagala		41, Gunasekara Mw., Ragama
77	177 Kerage Pokuna	Wattala	Maththumagala	Gamage	38, Gunasekara Mw., Ragama
78	177 Kerage Pokuna	Wattala	Maththumagala		45, Gunasekara Mw., Ragama
79	177 Kerage Pokuna	Wattala	Maththumagala	Jayarathna	68, Gunasekara Mw., Ragama
80	177 Kerage Pokuna	Wattala	Maththumagala	Lakshman	31, Gunasekara Mw., Ragama
81	177 Kerage Pokuna	Wattala	Maththumagala		21, Gunasekara Mw., Ragama
82	177 Kerage Pokuna	Wattala	Maththumagala		19, Gunasekara Mw., Ragama
83	177 Kerage Pokuna	Wattala	Maththumagala		50, Gunasekara Mw., Ragama
84	177 Kerage Pokuna	Wattala	Maththumagala		52, Gunasekara Mw., Ragama
85	177 Kerage Pokuna	Wattala	Maththumagala	Thaivan Buddhist Chapter	49, Gunasekara Mw., Ragama
86	177 Kerage Pokuna	Wattala	Maththumagala		32, Gunasekara Mw., Ragama
87	177 Kerage Pokuna	Wattala	Maththumagala		8, Gunasekara Mw., Ragama
88	177 Kerage Pokuna	Wattala	Maththumagala		7, Gunasekara Mw., Ragama
89	177 Kerage Pokuna	Wattala	Maththumagala	Achila Hettiarachchi	3/1, Gunasekara Mw., Ragama
90	178 Kerage Pokuna	Wattala	Maththumagala		3, Gunasekara Mw., Ragama

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF ACCESS ROAD
SCHEDULE 3.2 : LAND OWNERSHIP INFORMATION

Serial No.	Name of the Land	Extent (Perches)	Ownership Type	No. of Co-Owners	Relationship to the Householder	Year Settled
1	No Response	18.00 Leased		No Response	No Response	1997
2	No Response	10.00 Owner		0		1992
3	No Response	26.00 Owner		0		Descended
4	No Response	20.00 Owner		0		1977
5	No Response	20.00 Co - Ownership		2	Wife	Descended
6	No Response	14.00 Leased		0		1996
7	No Response	35.00 Co - Ownership		3	Mother & Wife	1990
8	No Response	10.00 Owner		0		Descended
9	No Response	10.00 Crown		0		1997
10	No Response	20.00 Owner		0		1977
11	No Response	20.00 Owner		0		1973
12	No Response	25.00 Crown		0		1990
13	No Response	10.00 Owner		0		1955
14	No Response	32.00 Owner		0		1940
15	No Response	10.00 Owner		0		1993
16	No Response	22.00 Encroached		3	Mother & Wife	Descended
17	No Response	19.00 Owner		0		1983
18	No Response	10.00 Owner		0		Descended
19	No Response	18.00 Owner		0		1978
20	No Response	16.00 Owner		0		Descended
21	No Response	30.00 Owner		0		Descended
22	No Response	20.00 Leased		1	W. Botheju	Descended
23	No Response	42.00 Owner		0		Descended
24	No Response	5.00 Leased		0		1995
25	No Response	6.00 Leased		1	Friend	1986
26	No Response	10.00 Owner		0		Descended
27	No Response	10.00 Owner		0		Descended
28	No Response	5.00 Leased		0		1985
29	No Response	7.00 Leased		0		1996
30	No Response	24.00 Owner		0		1978
31	No Response	40.00 Owner		0		1994
32	Kongahawatta	50.00 Owner		0		1965
33	Kongahawatta	24.00 Owner		0		1975
34	No Response	20.00 Owner		0		1992
35	No Response	8.00 Owner		0		1980
36	No Response	3.00 Leased		0		1968
37	No Response	36.00 Co - Ownership		3	No Response	1977
38	No Response	20.00 Owner		0		1960
39	No Response	11.00 Owner		0		1958
40	No Response	35.00 Co - Ownership		3	Daughter & Wife	1998
41	No Response	20.00 Owner		0		Descended
42	No Response	25.00 Owner		0		1985
43	No Response	8.00 Owner		0		1985
44	No Response	35.00 Owner		0		Descended
45	No Response	12.00 Owner		2	Daughter	1991
46	No Response	20.00 Owner		0		Descended
47	No Response	20.00 Owner		0		1992
48	No Response	11.00 Owner		0		Descended
49	No Response	11.00 Co - Ownership		3	Wife & Daughter	Descended
50	No Response	18.00 Co - Ownership		3	Wife & D. G. Jayamanna	Descended
51	No Response	12.00 Leased		2	Friend Keerthirathna	1996

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF ACCESS ROAD
SCHEDULE 3.3 : LAND VALUE, VALUE OF TREES AND OTHER ASSETS

Serial No.	Estimated Present Value of the Land	Total Value of Valuable Trees	Total Value of Other Assets of the Land
1	1,200,000.00	0.00	0.00
2	1,000,000.00	0.00	0.00
3	2,000,000.00	0.00	0.00
4	1,000,000.00	3,000.00	13,000.00
5	1,500,000.00	1,800.00	6,000.00
6	100,000.00	0.00	0.00
7	2,850,000.00	150.00	5,000.00
8	750,000.00	2,100.00	3,000.00
9	500,000.00	0.00	0.00
10	1,000,000.00	0.00	7,000.00
11	1,000,000.00	3,250.00	6,000.00
12	125,000.00	0.00	5,000.00
13	1,000,000.00	0.00	0.00
14	2,500,000.00	0.00	0.00
15	750,000.00	0.00	0.00
16	1,650,000.00	0.00	0.00
17	1,425,000.00	0.00	0.00
18	750,000.00	0.00	0.00
19	1,350,000.00	0.00	0.00
20	1,200,000.00	0.00	0.00
21	2,250,000.00	0.00	8,000.00
22	1,500,000.00	0.00	4,000.00
23	3,150,000.00	0.00	2,000.00
24	375,000.00	0.00	0.00
25	450,000.00	0.00	0.00
26	750,000.00	0.00	1,000.00
27	750,000.00	0.00	0.00
28	375,000.00	0.00	0.00
29	525,000.00	0.00	0.00
30	1,800,000.00	0.00	23,000.00
31	2,000,000.00	0.00	10,000.00
32	2,500,000.00	2,200.00	0.00
33	720,000.00	0.00	0.00
34	600,000.00	0.00	0.00
35	0.00	0.00	0.00
36	1,500,000.00	0.00	0.00
37	2,500,000.00	1,200.00	3,000.00
38	1,500,000.00	0.00	0.00
39	800,000.00	0.00	0.00
40	2,500,000.00	600.00	5,000.00
41	1,500,000.00	600.00	6,000.00
42	200,000.00	1,200.00	3,000.00
43	600,000.00	0.00	0.00
44	250,000.00	0.00	0.00
45	900,000.00	1,200.00	4,000.00
46	1,500,000.00	0.00	0.00
47	1,500,000.00	0.00	0.00
48	825,000.00	0.00	0.00
49	825,000.00	0.00	0.00
50	1,350,000.00	0.00	0.00
51	900,000.00	0.00	0.00

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF ACCESS ROAD
SCHEDULE 3.4 : CHARACTERISTICS AND INFORMATION ON HOUSING

Serial No.	Structure of House	Part of House	Ownership of House	Floor Area	Estimated Present Value
1	Permanent	Single Unit	Rent/Lease	1050	300,000.00
2	Temporary	Single Unit	Rent/Lease	500	300,000.00
3	Permanent	Single Unit	Owner	1050	500,000.00
4	Permanent	Single Unit	Owner	840	300,000.00
5	Permanent	Single Unit	Owner	750	500,000.00
6	Temporary	Single Unit	Rent/Lease	500	300,000.00
7	Permanent	Single Unit	Owner	1200	500,000.00
8	Semi-Permanent	Single Unit	Owner	1500	2,000.00
9	Semi-Permanent	Single Unit	Owner	1100	150,000.00
10	Semi-Permanent	Single Unit	Owner	450	60,000.00
11	Semi-Permanent	Single Unit	Owner	770	100,000.00
12	Semi-Permanent	Single Unit	Without Permission	200	25,000.00
13	Permanent	Single Unit	Owner	750	400,000.00
14	Permanent	Single Unit	Owner	1200	2,000,000.00
15	Permanent	Single Unit	Owner	850	500,000.00
16	Temporary	Annexed	Owner	144	20,000.00
17	Permanent	Single Unit	Owner	1200	3,000,000.00
18	Permanent	Single Unit	Owner	300	100,000.00
19	Permanent	Single Unit	Owner	660	500,000.00
20	Permanent	Single Unit	Owner	450	500,000.00
21	Permanent	Single Unit	Owner	500	75,000.00
22	Permanent	Single Unit	Owner	480	100,000.00
23	Permanent	Single Unit	Owner	1600	700,000.00
24	Semi-Permanent	Single Unit	Rent/Lease	800	20,000.00
25	Permanent	Single Unit	Rent/Lease	216	100,000.00
26	Semi-Permanent	Annexed	Other	300	300,000.00
27	Permanent	Annexed	Owner	420	3,000,000.00
28	Permanent	Annexed	Rent/Lease	80	150,000.00
29	Permanent	Single Unit	Rent/Lease	640	250,000.00
30	Permanent	Single Unit	Owner	770	50,000.00
31	Permanent	Single Unit	Owner	1350	200,000.00
32	Permanent	Single Unit	Owner	840	430,000.00
33	Permanent	Single Unit	Owner	1500	500,000.00
34	Permanent	Single Unit	Owner	500	250,000.00
35	Permanent	Single Unit	Owner	70	30,000.00
36	Permanent	Single Unit	Rent/Lease	200	400,000.00
37	Permanent	Single Unit	Other	1050	400,000.00
38	Permanent	Single Unit	Owner	750	400,000.00
39	Permanent	Single Unit	Owner	1050	300,000.00
40	Permanent	Single Unit	Without Permission	1200	500,000.00
41	Permanent	Single Unit	Owner	1350	500,000.00
42	Permanent	Single Unit	Owner	1200	500,000.00
43	Permanent	Single Unit	Owner	500	500,000.00
44	Permanent	Annexed	Owner	1050	500,000.00
45	Permanent	Single Unit	Owner	1000	600,000.00
46	Permanent	Single Unit	Owner	500	400,000.00
47	Permanent	Single Unit	Owner	1200	600,000.00
48	Permanent	Single Unit	Owner	1400	400,000.00
49	Permanent	Single Unit	Not Paying Rent	750	500,000.00
50	Permanent	Single Unit	Owner	1350	500,000.00
51	Permanent	Single Unit	Rent/Lease	500	400,000.00

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF ACCESS ROAD
SCHEDULE 3.5 : AVAILABILITY OF OTHER FACILITIES

Serial No.	A. Drinking System	Availability of Electricity	Availability of Telephone	Source of Drinking Water	Latrine Facilities
1	NO	YES	YES	Dug Well	Flush
2	NO	YES	NO	Dug Well	Flush
3	NO	YES	YES	Dug Well	Flush
4	NO	YES	NO	Piped born street	Flush
5	NO	YES	NO	Dug Well	Flush
6	NO	YES	NO	Tube Well	Flush
7	NO	YES	NO	Dug Well	Flush
8	NO	YES	NO	Dug Well	Flush
9	NO	NO	NO	Piped born street	Other
10	NO	YES	NO	Piped born at Home	Flush
11	NO	YES	NO	Piped born street	Flush
12	NO	NO	NO	Piped born street	Pit
13	NO	YES	NO	Dug Well	Other
14	NO	YES	NO	Tube Well	Flush
15	NO	YES	YES	Tube Well	Flush
16	NO	NO	NO	Tube Well	Pit
17	NO	YES	YES	Dug Well	Flush
18	NO	YES	YES	Dug Well	Flush
19	NO	YES	NO	Dug Well	Flush
20	NO	YES	NO	Dug Well	Flush
21	NO	YES	NO	Dug Well	Flush
22	NO	NO	NO	Dug Well	No Response
23	NO	YES	NO	Dug Well	Flush
24	NO	YES	NO	Piped born street	Other
25	NO	YES	NO	Dug Well	Flush
26	YES	YES	NO	Dug Well	Flush
27	NO	YES	NO	Tube Well	Flush
28	NO	YES	NO	Tube Well	Flush
29	NO	YES	NO	Tube Well	Flush
30	NO	YES	NO	Dug Well	Flush
31	NO	YES	YES	Tube Well	Flush
32	NO	YES	NO	Piped born at Home	Flush
33	NO	YES	YES	Piped born at Home	Flush
34	NO	YES	NO	Piped born at Home	Water seal
35	NO	NO	NO	Piped born street	Water seal
36	NO	YES	NO	Dug Well	No
37	NO	YES	NO	Dug Well	Flush
38	NO	NO	NO	Dug Well	Flush
39	NO	YES	NO	Dug Well	Flush
40	NO	YES	NO	Dug Well	Flush
41	NO	YES	YES	Dug Well	Flush
42	NO	YES	NO	Dug Well	Flush
43	NO	YES	YES	Dug Well	Flush
44	NO	YES	NO	Dug Well	Flush
45	NO	YES	YES	Tube Well	Flush
46	NO	YES	NO	Dug Well	Flush
47	NO	YES	YES	Dug Well	Flush
48	NO	YES	NO	Dug Well	Flush
49	NO	YES	NO	Tube Well	Flush
50	NO	YES	YES	Dug Well	Flush
51	NO	YES	NO	Dug Well	Other

DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF ACCESS ROAD
SCHEDULE 3.6 : POPULATION INFORMATION

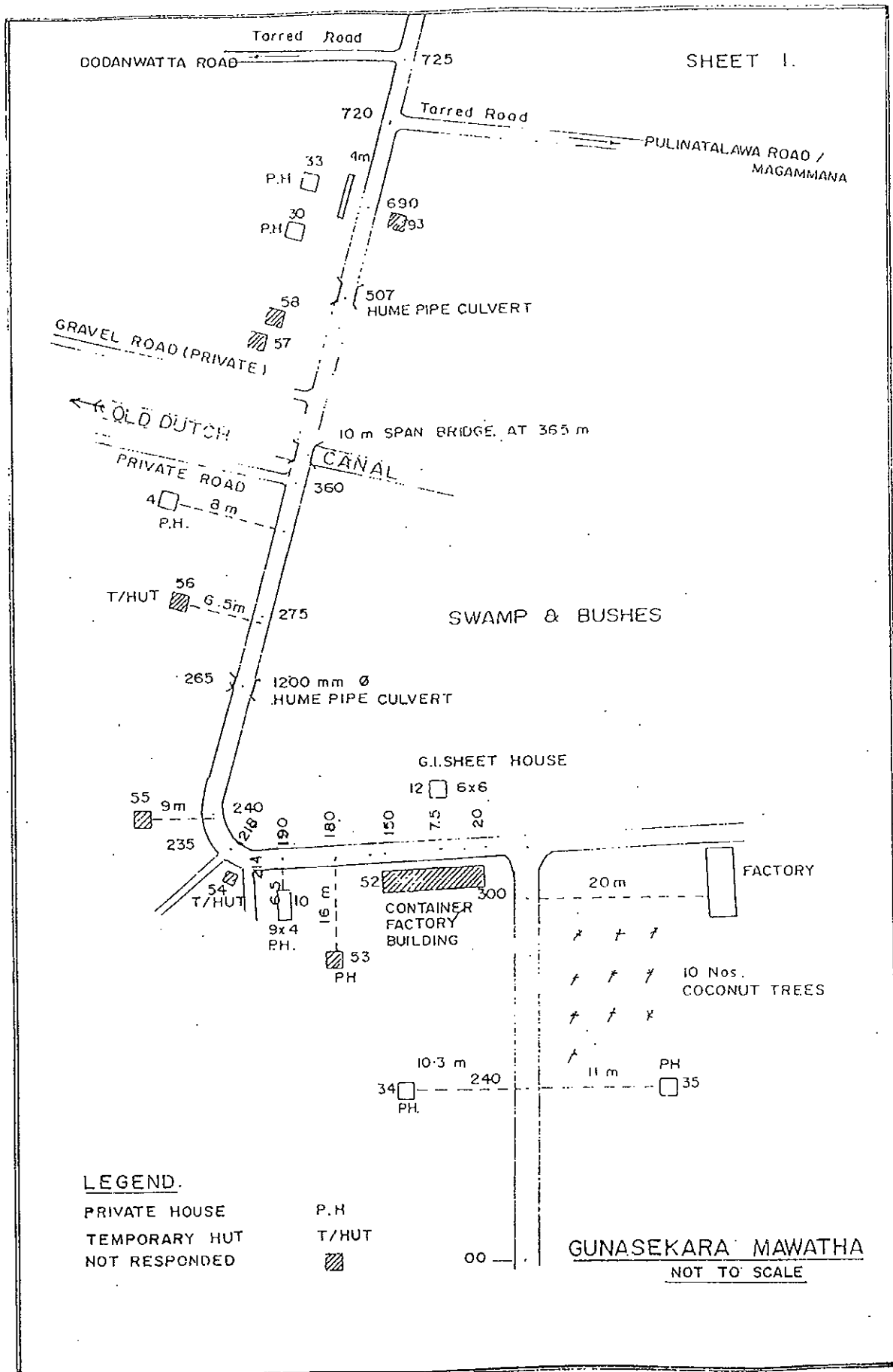
Serial No.	House Holding Population Male - Elder	House Holding Population Male Children	Male Total	House Holding Population Female Elder	House Holding Population Female Children	Female Total	Grand Total
1	1	2	3	1	0	1	4
2	1	0	1	2	1	3	4
3	3	1	4	3	0	3	7
4	3	0	3	3	1	4	7
5	1	0	1	1	2	3	4
6	1	0	1	2	0	2	3
7	1	0	1	1	3	4	5
8	1	0	1	1	0	1	2
9	1	0	1	1	3	4	5
10	4	0	4	3	0	3	7
11	2	0	2	3	0	3	5
12	2	2	4	2	1	3	7
13	3	0	3	2	0	2	5
14	4	0	4	2	1	3	7
15	1	0	1	2	1	3	4
16	1	1	2	2	2	4	6
17	2	0	2	3	0	3	5
18	4	3	7	2	2	4	11
19	1	0	1	1	0	1	2
20	1	1	2	1	1	2	4
21	1	1	2	1	0	1	3
22	3	1	4	2	0	2	6
23	5	1	6	2	0	2	8
24	2	0	2	0	0	0	2
25	1	2	3	1	2	3	6
26	1	2	3	2	0	2	5
27	2	2	4	2	0	2	6
28	1	0	1	0	0	0	1
29	3	1	4	3	1	4	8
30	2	0	2	1	0	1	3
31	1	1	2	1	1	2	4
32	1	0	1	1	0	1	2
33	1	0	1	2	0	2	3
34	2	3	5	2	1	3	8
35	2	0	2	0	0	0	2
36	2	1	3	2	0	2	5
37	2	0	2	2	2	4	6
38	1	0	1	1	0	1	2
39	3	0	3	2	0	2	5
40	1	0	1	1	0	1	2
41	2	0	2	2	0	2	4
42	2	1	3	2	0	2	5
43	1	1	2	2	0	2	4
44	1	0	1	3	1	4	5
45	3	2	5	2	0	2	7
46	1	1	2	2	1	3	5
47	1	1	2	1	2	3	5
48	2	2	4	2	1	3	7
49	3	2	5	4	1	5	10
50	1	0	1	1	0	1	2
51	0	0	0	0	0	0	0

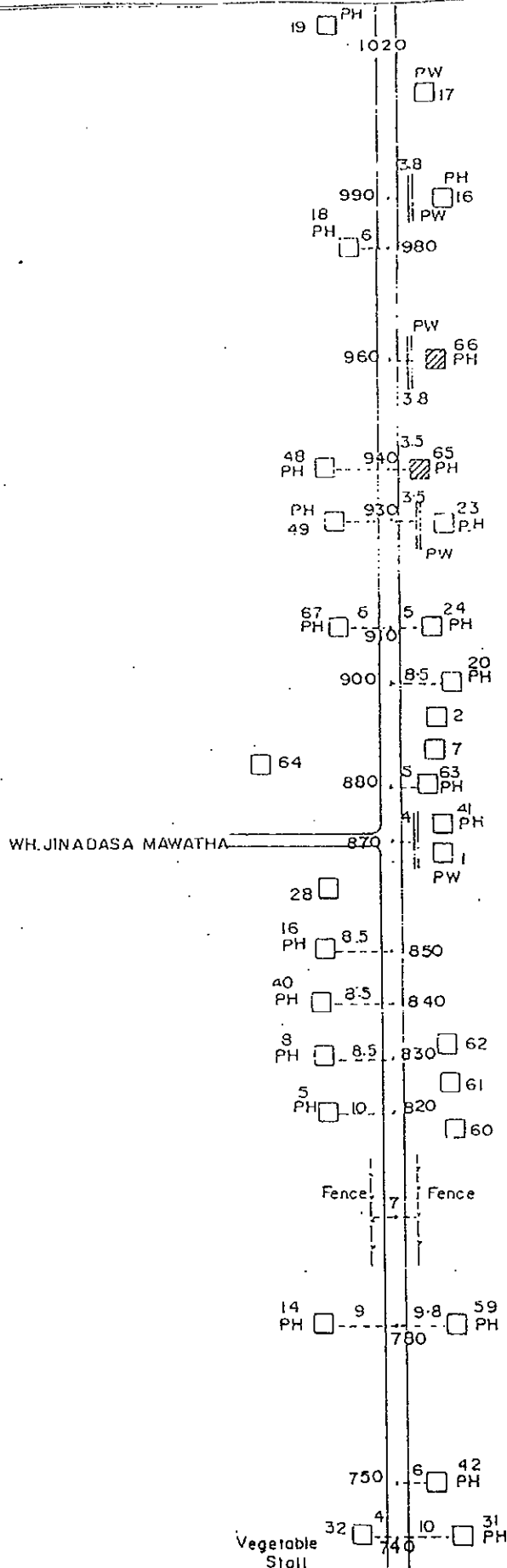
DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF ACCESS ROAD
SCHEDULE 3.7 : OCCUPATION AND INCOME

Serial No.	Householder's Occupation	Householder's Income	Other Income	Family Total Income
1	Trade	10,000.00	0.00	10,000.00
2	Trade	1,000.00	0.00	1,000.00
3	Retired	5,000.00	0.00	5,000.00
4	Repairing Bicycle	2,000.00	6,000.00	8,000.00
5	Business	5,000.00	0.00	5,000.00
6	Retired	3,200.00	0.00	3,200.00
7	Supervisor	6,000.00	0.00	6,000.00
8	Labour	3,000.00	0.00	3,000.00
9	Trading	3,500.00	0.00	3,500.00
10	No Response	0.00	5,000.00	5,000.00
11	Labour	3,500.00	500.00	4,000.00
12	No Response	0.00	9,000.00	9,000.00
13	Trading	5,000.00	0.00	5,000.00
14	Security Service	3,000.00	0.00	3,000.00
15	Driver	6,000.00	0.00	6,000.00
16	Business	4,000.00	0.00	4,000.00
17	Trading	3,000.00	0.00	3,000.00
18	No Response	0.00	0.00	0.00
19	Retired	9,000.00	0.00	9,000.00
20	Driver	6,000.00	0.00	6,000.00
21	Clerk	5,000.00	0.00	5,000.00
22	Cashier (Hotel)	2,500.00	0.00	2,500.00
23	Retired	13,000.00	0.00	13,000.00
24	Carpenter	4,000.00	0.00	4,000.00
25	Trading	3,500.00	0.00	3,500.00
26	Machine Operator	2,200.00	0.00	2,200.00
27	No Response	0.00	3,500.00	3,500.00
28	Trading	3,000.00	0.00	3,000.00
29	Trading	3,500.00	0.00	3,500.00
30	Private Teacher	1,500.00	0.00	1,500.00
31	Training Officer	7,000.00	4,000.00	11,000.00
32	No Response	0.00	0.00	0.00
33	Executive	15,000.00	0.00	15,000.00
34	Driver	5,000.00	5,000.00	10,000.00
35	Labour	3,000.00	0.00	3,000.00
36	Retired	3,500.00	0.00	3,500.00
37	Driver	5,000.00	4,000.00	9,000.00
38	Retired Teacher	4,500.00	0.00	4,500.00
39	Trading	1,200.00	0.00	1,200.00
40	No Response	0.00	0.00	0.00
41	Business	4,000.00	0.00	4,000.00
42	Foreign Employment	15,000.00	0.00	15,000.00
43	Labourer	5,000.00	3,000.00	8,000.00
44	Retired	4,000.00	0.00	4,000.00
45	Retired	4,000.00	0.00	4,000.00
46	Manager	15,000.00	0.00	15,000.00
47	Foreign Employment	7,000.00	0.00	7,000.00
48	No Response	0.00	0.00	0.00
49	Store Keeper	5,000.00	0.00	5,000.00
50	No Response	0.00	0.00	0.00
51	Trading	3,000.00	0.00	3,000.00

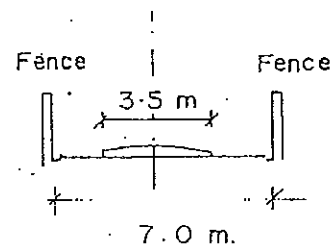
DATA RESULT SHEET OF SOCIO-ECONOMIC SURVEY OF ACCESS ROAD
SCHEDULE 3.7 : OCCUPATION AND INCOME CONTINUED

Serial No.	Poverty Deprivation	Farm	Livestock	Foreign Employment	Other	Total
1	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00
12	500.00	0.00	0.00	0.00	0.00	500.00
13	0.00	0.00	0.00	0.00	0.00	0.00
14	500.00	0.00	0.00	0.00	0.00	500.00
15	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00
18	500.00	0.00	0.00	0.00	0.00	500.00
19	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00
26	500.00	0.00	0.00	0.00	0.00	500.00
27	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00
30	500.00	0.00	0.00	0.00	0.00	500.00
31	0.00	0.00	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00	0.00	0.00
37	0.00	0.00	0.00	0.00	0.00	0.00
38	0.00	0.00	0.00	0.00	0.00	0.00
39	0.00	0.00	0.00	0.00	0.00	0.00
40	0.00	0.00	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00	0.00	0.00
42	0.00	0.00	0.00	0.00	0.00	0.00
43	0.00	0.00	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00
48	200.00	0.00	0.00	0.00	0.00	200.00
49	0.00	0.00	0.00	0.00	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00	0.00
51	0.00	0.00	0.00	0.00	0.00	0.00





Av. Width of Platform = 7.0 m.



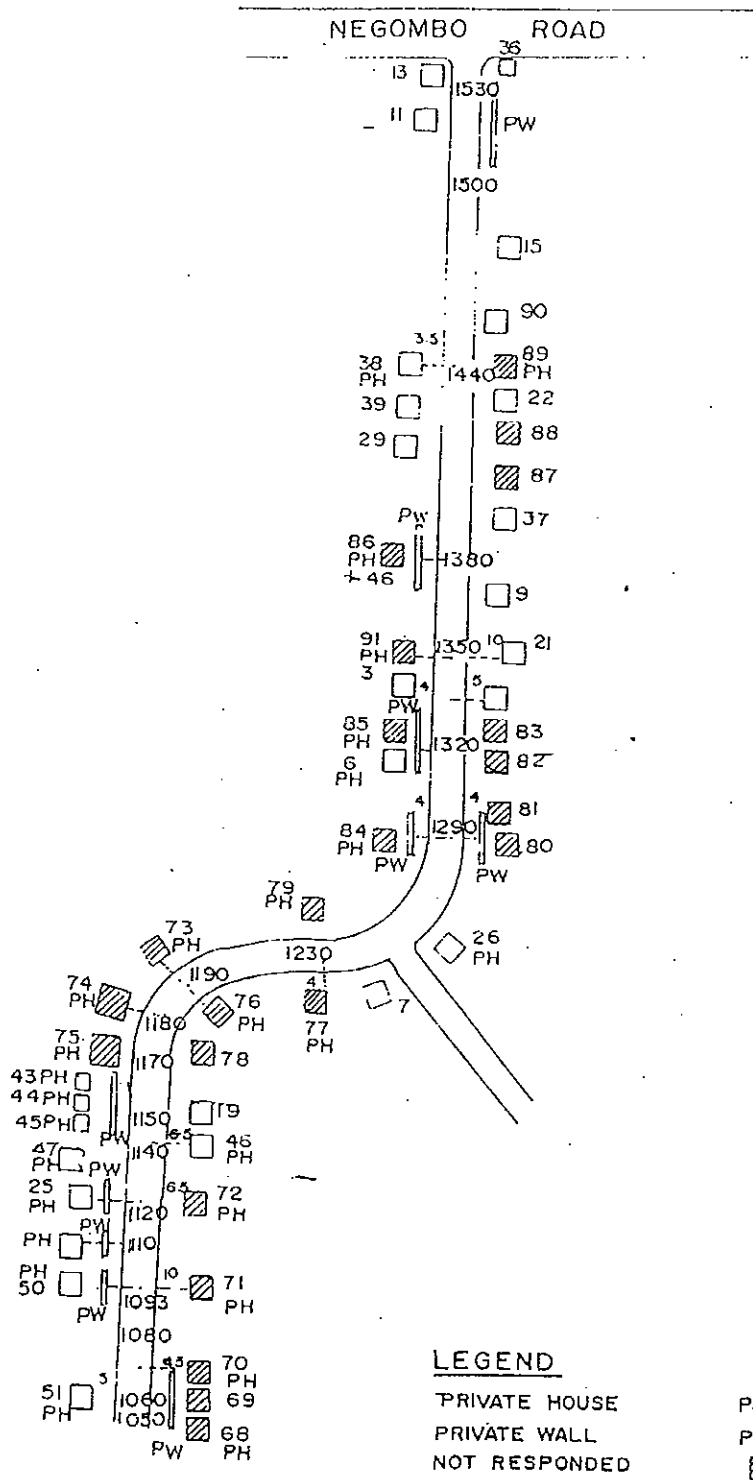
TYPE CROSS SECTION OF ROAD

LEGEND

Not Responded
Private House
Private Wall

PH.
P.W.

DISTRIBUTION MAP FOR ACCESS ROAD



PART II: COSTS RELATED TO RESETTLEMENT AND LAND ACQUISITION

CHAPTER 4: INTAKE AREA

4.1 Valuer's Estimate of Compensation Costs

a. Estimation of Compensation Costs on the basis of acquisition under the Land Acquisition Act.

The estimation is done in two parts, (i) for Land Area East of the Hamilton Canal (land side) and (ii) for Land Area West of the Hamilton Canal (sea side).

i. Compensation Costs for land and houses East of Hamilton Canal.

			Rs.
Land	368 perches @ Rs.30,000/-		11,040,000.00
Permanent Houses	3 nos. @ Rs.200,000/-	600,000.00	
Semi-permanent houses	4 nos. @ Rs.150,000/-	600,000.00	
Temporary houses	5 nos. @ Rs.100,000/-	500,000.00	1,700,000.00
			Rs. 12,740,000.00

ii. Compensation Costs for land and houses West of Hamilton Canal

			Rs.
Land	110 perches @ Rs.20,000/-		2,200,000.00
Semi permanent houses	7 nos. @ Rs.150,000/-	1,050,000	
Temporary houses	6 nos. @ Rs. 100,000/-	600,000	1,600,000.00
			Rs. 3,800,000.00

b. Resettlement on Alternative Land

i. The total cost of this alternative land is: 478 perches
 @ Rs.30,000/- Rs. 14,340,000.00

Permanent houses	3 nos. @ Rs.300,000/-	Rs. 900,000.00
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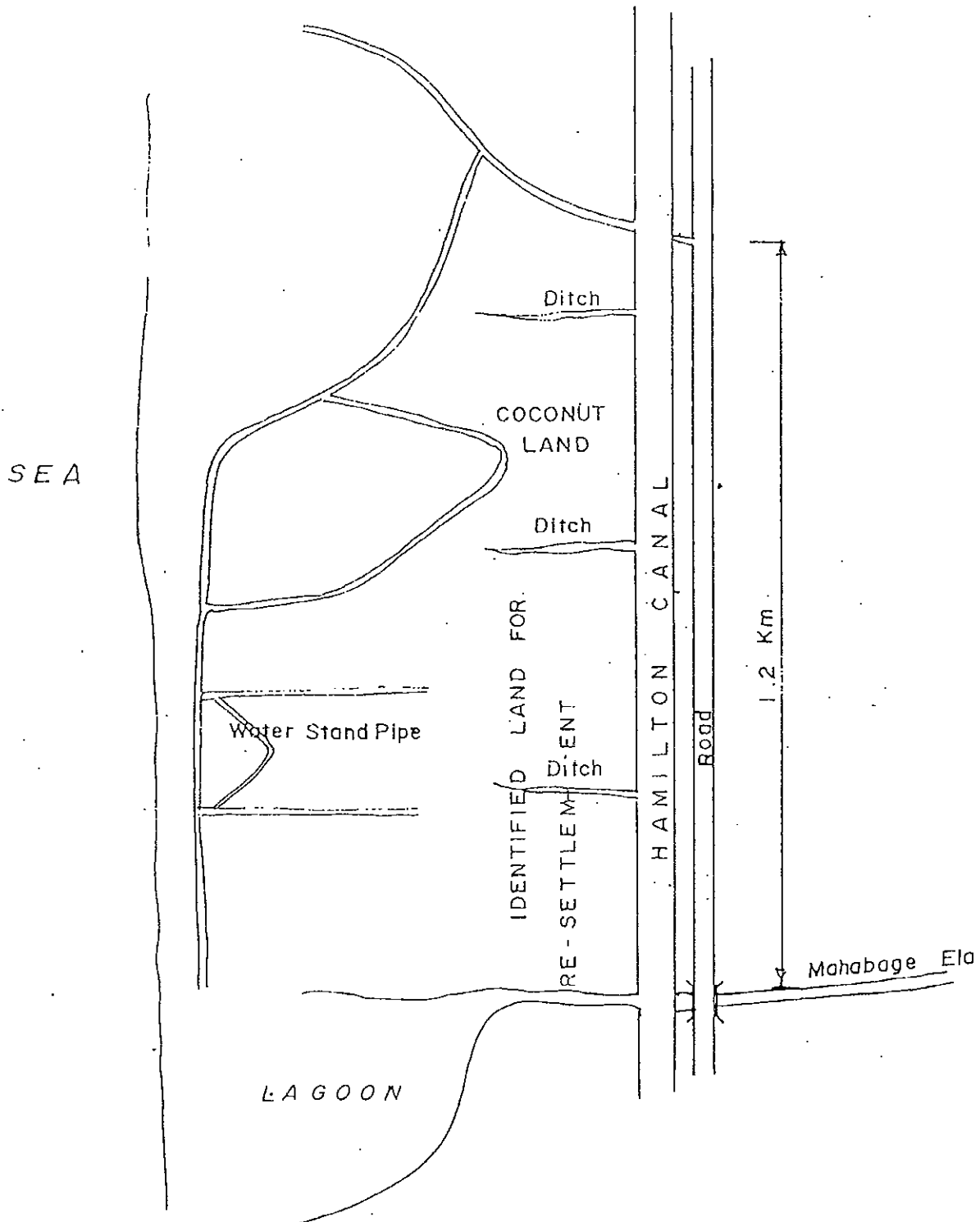
Semi permanent houses	11 nos. @ Rs.200,000/-	Rs.2,200,000.00
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Temporary houses	11 nos. @ Rs.150,000/-	Rs.1,650,000.00
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41

Fig 5.

SKETCH PLAN OF
ALTERNATIVE SITE FOR RE-SETTLEMENT



iii. The Cost of Construction of Infrastructure

Surveying and blocking out	Rs. 30,000.00
Construction of Access Road as an extension to the road from Beach road including filling of Marsh (200m.)	Rs.200,000.00
Construction of Internal Roads and Paths (1000m)	Rs.300,000.00
Provision of Water supply distribution system (50mm dia. - 800 lm)	Rs.100,000.00
Provision of Electricity supply (3 Phase 700 lm. of distribution line)	Rs.350,000.00

Total	Rs.980,000.00
	=====

Note: The above system of compensation and system of resettlement package is proposed by Mr. B.L. Ariyathilake, BSc. (Hon), Cey: BSc (Hon. Estate Mngt. & Valuation, (London), Chartered Valuer (former Chief Valuer)

CHAPTER 5: ACCESS ROAD

5.1 Valuer's Estimate of Compensation Costs

On the basis of limiting the widening of Gunasekera Mawatha to 10m., only narrow strips of land on either side of the road need to be acquired, together with demolition of all the parapet walls. It is possible to avoid demolition of any part of houses.

Estimate of compensation costs for Access Road :

i.	Land (narrow)	345 perches @ Rs.10,000/-*	Rs.	3,450,000.00
ii.	Damages to Parapet Walls and other structures	10 nos. @ Rs.50,000/-	Rs.	500,000.00
			Rs.	3,950,000.00
				=====

* This rate is payable for narrow strips of land which has less market value after normal government acquisition procedure.

If the land is to be purchased under private treaty from the residents, the costs per perch of land has to be estimated at Rs.30,000/-.

Note: 1. This estimate is prepared by Mr. B.L. Ariyathilake.

2. 1 perch = 26.61 sq. m.

PART III: LAWS, PROCEDURES AND OPTIONS AVAILABLE FOR ACQUISITION AND COMPENSATION

Lands required for the project could be obtained by two ways:

1. Direct Purchase from Owners
2. Compulsory Acquisition under Statutory Powers of the State

1. Direct Purchase from Owners

Ceylon Electricity Board, being a corporate body can purchase, hold and sell immovable properties under authority of their incorporation's or under Articles of Association. The Board deals direct with the owners and enter into negotiation for the purchase of their lands. For this purpose owners have to be identified and deeds persued. They should have marketable title. The basic documents for negotiation should be a Valuation Report from a recognised Valuer who would have to give all particulars relating to the land. If agreement is reached between the owner and the Board, notorial deeds in favour of the board could be executed by a Notary.

2. Compulsory Acquisition under Statutory Powers of the State

In this case acquisition work has to be handed over to an Acquisition Officer who invariably will be the Divisional Secretary of the area. An estimate of the cost of acquisition has to be obtained from the Chief Government Valuer and arrange with the Acquiring Officer. It may be that the Acquiring Officer will call for an advance based on the estimate of the chief Valuer, when an application for acquisition is made to him. The procedure is as follows:

- i. The Minister decides a land is required for public purpose. Acquiring Officer who is the government agent or the Divisional Secretary of the area publishes a notice to this effect.
- ii. Investigations are made as to the suitability of the land.
- iii. Minister makes a decision and all owners are informed. The Grama Sevaka provides the names of the owners as far as he is aware.
- iv. Owners have a right to make objections to the acquisition.
- v. After inquiry and in case the Minister decides to proceed with the acquisition, a declaration is made in the gazette.
- vi. Surveyor General prepares the plan for the land to be taken.
- vii. Notice is published calling upon the owners to substantiate their ownership and to submit claims for compensation before a specified date.
- viii. Acquiring Officer holds an inquiry into title and claims.

- ix. Acquiring Officer's decision on ownership - If there is a dispute as to title he refers the matter to district Court.
- x. The Acquiring Officer makes his award of compensation.
- xi. An aggrieved claimant, as to the quantum of compensation, can appeal to the Land Acquisition Board of Review within 3 weeks.
- xii. A further appeal is possible to Court of Appeal on a matter of law.
- xiii. The land is normally taken over by the State only after these procedures are completed.
- xiv. However, there is provision in law for the State to take possession of land after the initial notices. This can only be done on grounds of urgency.
- xv. This process takes a long time, apart from administrative delays, certain steps could be taken only after a lapse of minimum statutory periods. Of course possession of the lands could be taken on a notice published under Section 38A of the Act on grounds of urgency.

3. Resettlement Strategy for Intake Area (Headworks Area)

We have spoken to the people occupying the lands involved. Number of families affected are comparatively small. They are ready to move out provided that they are resettled elsewhere nearby. Hence, a resettlement package could be offered in the first instance.

No. of families affected

Total extent occupied by them.

1. Alternative land as identified on the opposite side of the canal be purchased or acquired.
2. Block Plan to be made in extents occupied by them now.
3. Payments be made to construct houses based on the in situ value of the existing buildings.
4. Areas vacant and not occupied to be purchased or acquired under L.A. Act.

4. Approach Road

This road has to be widened. Lands needed will be strips on either side of the road. No buildings are involved, but a few parapet walls may get affected. Lands can be acquired under the Land Acquisition Act or Purchased by private treaty.

Owners would benefit by private treaty as full market value could be given. If acquired under the Land Acquisition Act, compensation would be depressed because lots acquired will be strips of land with low market value. Compensation for the few parapet walls could be assessed and paid.

SURVEY OF THE TRANSMISSION LINE

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CHAPTER 1: INTRODUCTION AND METHODOLOGY OF WORK

The Ceylon Electricity Board (CEB) proposes to establish a 150 mw Combined Cycle Power Plant at Kerawalapitiya in the Muthurajawela reclaimed area, about 10 km north of Colombo in the Wattala Divisional Secretary's Division, in the Gampaha District.

The power plant consisting of possibly two Combustion Turbine Generation (gas) and one steam turbine including the fuel storage system, cooling water system, electricity generating equipment and high voltage switch gear, water treatment plant and waste treatment plant are to be sited on a 30 ha reclaimed land area.

The sea water intake and discharge pipelines and fuel pipes is to be sited on a 50 metre wide stretch of land located from between the two groynes on the beach, aligned in an easterly direction and turning south east towards the proposed head works.

The proposed 220 KVA Transmission Line would traverse north almost parallel to the old Dutch canal upto Ambalanmulla and proceed South of North East to the Kotugoda sub-station. The total length of the transmission line is estimated at 17.35 km.

1.2 Methodology of Work

The methodology work adopted was slightly different from what was proposed by the Consultants as 1:10,000 maps were not available. The Proposed Transmission Line traverses boggy swamps making access most difficult. Access was through minor side roads first identified in the 1:50,000 sheet, distance marked and reached by travelling in vehicle/boat or foot.

The procedure adopted is described below:

- i. Identifying on the field access points marked on the map.
- ii. Traverse the whole transmission route which is accessible identifying on ground important features, km points and turning points.
- iii. Traverse the transmission route with available land-use map (as far as is accessible) marking changes or additions in land-use, with distances for the purpose of preparing distribution sheets.
- iv. Identifying residential areas in addition to those specified in the TOR and prepare inventory of number of houses and valuable trees. Special note was made of any tall buildings, structures, railway line, roads, rivers/streams and power lines.

- v. The geologist inspect the transmission route after studying geological maps, in making observations and arriving at conclusions on the general geology and land stability along the route.
- vi. The survey of fauna is conducted through line transect surveys and spot surveys. Two line transect surveys carried out along the corridor of the transmission line route between locations 7 -14 and 16-18. Spot surveys were carried out between locations 1-7 and 14-16, where short transects (approx. 100m) were carried out at 1 km intervals.
- vii. Vegetation along the transmission line corridor was examined using transects wherever possible, and in some places the existing paths have been used to reach the location as close as possible. In compiling the report the existing data (Environmental Profile of Muthurajawela and Negombo Lagoon, 1991 and Master Plan of Muthurajawela and Negombo Lagoon, 1991) were used.

CHAPTER 2: GEOLOGY AND LAND STABILITY

2.1 Introduction

The Proposed Transmission Line traverses generally northwards, roughly parallel to the old Dutch Canal (Negombo Canal), crossing the Dandugan Oya near Kinigama and traversing north eastwards, crossing the Dandugan Oya again and passing close to Alawatupitiya Railway Station to reach the Kotugoda Sub-station.

2.2 General Geology

The Proposed Transmission Line which runs parallel to the old Dutch Canal passes through low lying, largely abandoned paddy tracts bordering the marsh upto the turning point at Ambalanmulla after the first crossing over Dandugan Oya.

The Muthurajawela marsh area including Negombo Lagoon in the northern part, was formed in the Holocene Era. It is indicated that the upper layer of the conventional marsh area includes 3 types of peat; red and sedge type peat, shrub and tree type peat, and humus type peat.

Environmental Profile of Muthurajawela and Negombo Lagoon (1991) indicates that soil in the Muthurajawela marsh area is basically classified into three types: poorly drained organic soil, bog soils; dark brown waterlogged mineral subsoil and mineral soil with large amount of organic matter, bog soils and humus soil.

Inspection of the site just south of the first Dandugan Oya crossing indicate a superficial layer of calcareous unconsolidated mud, overlying a peaty layer 1.0m to 2.0m thick, which overlies a 2.0m. to 3.0m. thick loose shelly soil which is overlying a red soil and had terminated in partially rounded white sandy soil over weathered micaceous gneiss. Fragments of these are available at the homestead near the location.

To the north from Alawatupitiya swamp area (photo no.18) are grey sands with patches of cinnamon sands quartz sands akin to glass sands and in higher elevated areas it changes typically to "Red Earth" or "Red Beds" cover (photo no.19). Whilst the grey to white sandy areas are low lying with a high water table appearing near surface the "Red Earth" assemblages are well drained. The higher relief area with spot heights ranging between 10m and 11m above sea level between Dambadure and Kotugoda area is largely composed of this material and would classify as a well drained sandy clay soil favourable for construction. The low lying area west of the Kotugoda substation forms part of the flood channels between the Dandugan and its head waters of Diyaella Oya which also connects with the Attanagalu Oya in their anastomosing network Bolanda area south of Kotugoda. So that power line area across Nekettagalla has strong erosive currents developed during flood times (photo no. 20).

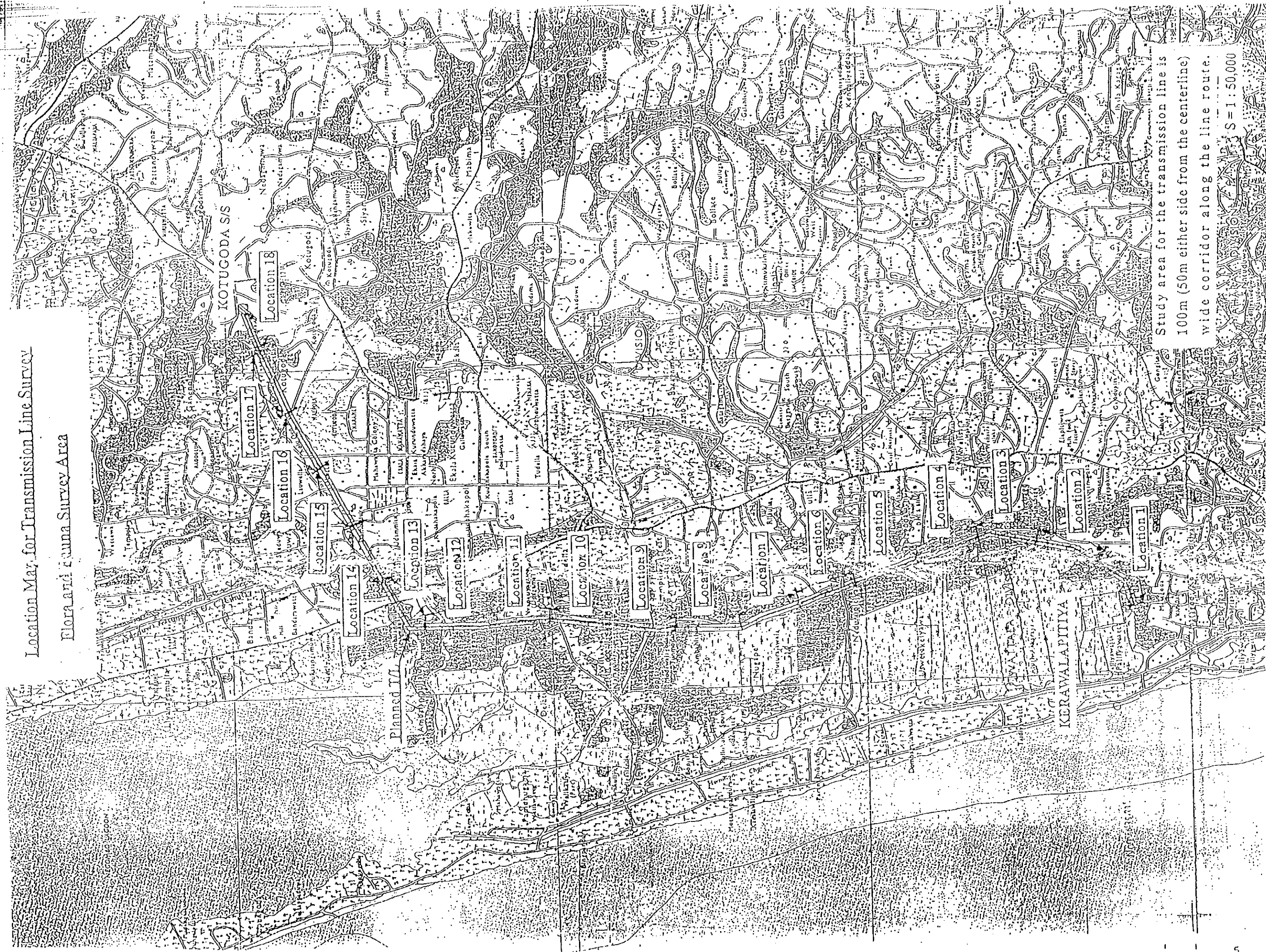
In conclusion it may be stated that the transmission line route laid parallel to the old Dutch Canal is in unconsolidated, compressible, mobile, superficial strata to depths possibly greater than 3m. in most of the area between location 2 and location 14.

More stable superficial cover can be expected between location 14 and 17.

It is recommended that bore hole logs from test borings used in the Proposed Expressway be obtained from the relevant authority, as this will throw more light on the nature and the composition of strata along the Proposed Transmission Line route.

Location Map for Transmission Line Survey

Flora and Fauna Survey Area



Study area for the transmission line is 100m (50m either side from the centerline) wide corridor along the line route.

S = 1:50,000

Figure

CHAPTER 3: SURVEY OF FLORA ALONG THE TRANSMISSION LINE ROUTE

3.1 Introduction & Methodology

The objectives of the survey of flora along transmission line route is to examine transects at 1km intervals, to identify, classify and map the existing habitats, and to identify the endemic and threatened plants along the 100m corridor. Where adverse environmental impacts are foreseen, the study will propose outline mitigatory measures.

The survey has been carried out during the month of May 1998 through field visits. The vegetation along the transmission line corridor has been examined using transects wherever possible, and in some places sampling was carried out using the existing paths and reaching the locations as close as possible.

Locations 16 to 18 have been studied almost throughout the corridor. Locations 9 to 12 was covered by going through the old Dutch Canal by boat, and visiting the land as well.

In compiling this report, the existing data has also been used (Environmental Profile and Negombo Lagoon, 1991 and Master Plan of Muthurajawela, 1991). Especially data from plot no.3A to 3E (Heart, 1990) has been studied and incorporated. The list of Phytoplankton species present in Muthurajawela was prepared using the EIA report on Proposed LPG Import Terminal - Kerawalapitiya, 1996.

3.2 Description of the Site

The following three main vegetation types can be identified within the study area:

- i. Marsh vegetation
- ii. Aquatic vegetation
- iii. Inland vegetation

As the main concentration in this study is on habitats, the following habitats were identified within the different vegetation types based on the plant community characters.

- a. Marsh proper - a typical marsh wetland, poorly drained, temporarily flooded during the monsoon season and with a substrate mainly of peat. It can be considered as an unstable plant community (to a greater extent naturalized), representing one of the final stages of succession towards a dry land formation. The main species includes *Carex sp.*, *Ishaemum sp.*, *Typha sp.* and patches of the fern *Achrosticum*.

- b. Disturbed marsh or Abandoned paddy fields - abandoned during the past few decades and are in close vicinity of home gardens. Most of the common paddy field weeds were found here. Access is possible and human interactions are still there.
- c. Disturbed Mangrove vegetation - Areas under this category were highly disturbed leaving one or two individual mangrove plants.
- d. Aquatic vegetation in open canals and streams (Irrigation and drainage canals) - Most of the canals examined were covered with free floating aquatic macrophytes such as *Salvinia*, *Lemna* etc. Apart from this some parts of the canals were filled and had vegetation similar to a marsh.
- e. Aquatic plants in ponds and pools, small deeper water bodies in the marsh had both free floating and rooted floating leaved species like *Nymphaea* and submerged species like *Aponogeton* and *Najas*.
- f. Home gardens and other land filled sites - Apart from the common weed species found, the attention was also given to tree species as some of these might be removed during the construction processes.

With the limited access it is not possible to map the habitats very accurately, however table 3.1 indicate a fair representation of the habitats that have been encountered. A brief description of these localities is given in Table 3.2.

A list of all the shrub, herb and climbing species recorded are given in table 3.3. The species recorded during this survey are indicated with ** and the species recorded in the references are indicated with *.

In this table 81 species including five endemics and 3 introduced are listed. The endemic species listed here are, *Ardisia willisii*, *Eleocharis lankana*, *Fimbristylis zeylanica*, *Lucas zeylanica* and *Walidda antidysenterica*. None of these species are considered as threatened species. The introduced species are *Annona glabra* (a woody invasive species spreading very fast in the marsh) and *Mikania caudata* (an invasive climber found in disturbed land).

Since the project will affect the trees more than the shrubs and herbs, the tree species recorded are given separately in Table 3.4 (species that can grow over four meter in height.) Thirty tree species including four endemic and two introduced species are listed here. The endemic tree species recorded are *Bridelia moonii*, *Dillenia retusa*, *Garcinia quaesita* and *Phoenix zeylanica*. None of these are considered as threatened and as a whole, the area has a very low density of trees. Therefore the project does not seem to have much effect on trees.

Table 3.1 Different Habitats at Different Locations

Location	Marsh proper	Disturbed Marsh or Abandoned Paddy	Disturbed mangrove	Canals/streams	Pond/ Pools	Home Gardens/ Land filled sites
1		+		+		+
2		+				+
3		+		+	+	+
4		+				+
5	+	+		+	+	+
6	+	+		+	+	+
7	+	+		+	+	+
8		+				
9		+		+	+	+
10		+		+		+
11		+	+	+		+
12		+	+	+		+
13		+		+	+	+
14		+		+		+
15		+		+		+
16		+		+		+
17		+		+		+
18		+				+

Table 3.2 Brief description of Location 1 to 18

Location	Description
1 & 2	Extends from the land filled site at Kerawalapitiya and the line goes across a disturbed marsh covered with <i>Panicum repens</i> , <i>Typha angustifolia</i> and other paddy field weeds such as <i>Ludwigia</i> sp, <i>Bacopa monnieri</i> etc. <i>Phragmites karka</i> <i>Acrosticum aurium</i> etc. are found along the nearby drainage canal.
3 & 4	Disturbed marsh with some land filled sites and home gardens. Access was not possible to some parts of the marsh. Extends towards a less disturbed marsh in Location 5
5	Line goes through the marsh with very little access. Therefore the marsh would have had time to develop into a marsh proper.
6	Transect at Madurupitiya. Goes through a land filled site with coconut plants. The nearby canal had aquatic species like <i>Pistia</i> , <i>Lemna</i> and also <i>Salvinia</i> . Marsh on either side of the road is disturbed. The main species found are <i>Thun hiriya</i> pan and <i>Polygonum</i> species.
7	Transect was taken at Kalaeliya. Disturbed marsh, home garden with coconut plants. In the ponding area <i>Olu</i> and <i>Najans</i> were found. However it must be noted that both locations, 6 & 7 partly go through the marsh proper.
8	Mainly disturbed marsh. On either side of the Dutch canal, <i>Annona glabra</i> was found (forming the land). Nearby ponding area had both <i>Nymphaea nauchali</i> and <i>N. pubescens</i> . The study area is in close vicinity of the marsh proper.
9 & 10	Disturbed areas with land filled sites and home gardens. Include a coconut plantation. Other tree species present are <i>Alstonia macrophylla</i> , <i>Alstonia scholaris</i> <i>Maduca longifolia</i> and <i>Mangifera indica</i> . Parts of the Old Dutch canal is covered with reeds and grasses. In more deeper places both species of <i>Nymphaea</i> and <i>Aponogeton</i> were found.
11 & 12	The area along the Old Dutch canal starting from the Muthurajawela study center towards the Dandugan oya was examined. The area is a disturbed mangrove area leaving behind few trees of <i>Bruguiera</i> , <i>Cerbera manghas</i> and planted coconut trees. Main grass species in this area is <i>Panicum repens</i> and <i>Eleocharis dulcis</i> . In the canal, species of <i>Nymphaea</i> , <i>Cabomba</i> and <i>Najans</i> were found.

Location	Description
13 & 14	Disturbed marsh, land filled sites and home gardens. Location 14 at Alawathupitiya station. The home gardens near this had common species like, Mango, Kashew and coconut. In addition a few trees of Lunumiddela were also found.
15 & 16	Abandoned paddy land with a <i>Laginandra</i> , <i>Ardesia</i> , <i>Osbekia</i> and <i>Syzygium</i> community. In this patch a population of <i>Utricularia</i> was found. Location 15 goes through a remnant patch of forest dominated by <i>Vitex altissima</i> , <i>Litsea glutinosa</i> etc. Although it is in the vicinity of home gardens ,if possible these trees should be saved.
17	Land filled site, Kurundu plantation and abandoned paddy field. Between 16 and 17 patches of <i>Calamus</i> sp was found. Although this project might not directly affect these plants, <i>Calamus</i> as a whole is a genus being threatened due to over exploitation. Therefore this can be used for buffer zone activities of Muthurajawela.
18	Land filled site with some common weeds and Bu-ambilla bushes.

Table 3.3 Shrub, Herb and climbing species recorded to be present along the transmission line

Scientific Name	Common name	Endemic / Introduce	Reported in references	Reported in this survey
Acrosticum aurium	Karan Koku		*	**
Alternanthera sessilis				**
Annona glabra	Wel atha	In	*	**
Antidesma ghaesembilla	Bu-embilla			**
Ardisia willisii	Balu dan	En		**
Asparagus falcata	Hathawariya			**
Asteracantha longifolia				**
Bacopa monnieri	Lunuwila			**
Calamus sp.				**
Centella asiatica			*	**
Carex indica				**
Cassia alata				**
Cassia tora				**
Ceratopteris sp				**
Cinamomum verum	Kurundu			**
Coffea arabica.	Kopi			**
Coix sp.	Kikirindiya			**
Commelina diffusa	Gira Pala		*	**
Crinum sp.				**
Cuscuta chinensis			*	**
Cyperus pilosus				**
Cyperus spiralis			*	**
Derris uliginosa	Kala wel		*	**
Dolichandrone spathesia				**
Eclipta prostrata				**
Eleocharis geniculata	Kikirindiya			**
Eleocharis dulcis	Boru pan			**
Eleocharis lankana		En	*	**
Eriocaulon thwaitzii			*	**
Eriocaulon sp				**
Eupatorium odoratum		In	*	**
Fimbristylis consanguinea			*	**
Fimbristylis zeylanica		En	*	**
Flagellaria indica			*	**
Fulrena sp				**
Hanguana malayana			*	**
Hygrophila spinosa	Neeramulli			**
Hyptis capitata				**
Impatiens sp.				**
Ipomoea aquatica	Kankun		*	**
Ipomoea triloba				**
Isachne globosa				**
Ischaemum rugosum	Kudu kadu			**
Ixora coccinea				**
Loranthus sp				**
Ludwigia decurrens			*	**
Ludwigia peruviana				**
Lagynandra thwaitzii			*	**
Lantana camera				**
Lepironia articulata	Elu pan			**
Limnophila repens				**

Table 3.4 Tree species recorded from the study area

Scientific name	Common name	Endemic/introduced
Alstonia macrophylla	Hawarinuga	En
Alstonia scholaris	Rukaththana	
Anacardium occidentale	Kadgu	
Azadirachta indica	Kohomba	
Barringtonia racemosa	Diya midella	
Bridelia moonii	Patkela	
Bruguiera sexangula	Kuda Kadol	
Callophyllum inophyllum	Domba	
Caralia bracteata	Dawata	
Cerbera manghas	Kaduru	
Cocos nucifera	Pol	
Dillenia retusa	Goda para	
Ficus tsjahela	Nuga	
Garcinia quaesita	Goraka	En
Lagestromia speciosa	Murutha	En In
Litsea glutinosa	Bomi	
Mangifera indica	Amba	
Melia dubia	Lunu midella	
Maduca longifolia	Mee	
Musa x	Banana	
Nauclea orientalis	Bakmi	
Phoenix zeylanica	Wal indi	
Phyllanthus acidus	Rata nelli	
Sterculia foetida	Thelabu	
Symplocos cochinchinensis	Bombu	
Syzygium cumini	Ma-Dan	
Tamarindus indicus	Siyambala	
Terminalia arjuna	Kumbuk	In
Terminalia catappa	Kottamba	
Vitex altissima	Milla	

The open canals and ponds are rich in aquatic macrophytes as well as microscopic phytoplanktons. A list of Phytoplankton species recorded from Muthurajawela is given in Table 3.5. The aquatic plants (true aquatic species) found in this survey are listed in Table 3.6.

3.3 Conclusion

Although some parts of the transmission line pass through the marsh proper most of it goes through highly disturbed areas. Total of 7 endemic species have been recorded and none are considered as threatened. Prevention of habitat fragmentation and the preservation of micro habitat conditions can be achieved by not altering the existing soil formations and drainage conditions. For example if it is necessary to fill the land during the construction process, it should be carried out in a way so that it will not alter the existing drainage pattern especially in the marsh proper (The corridor runs along the boarder of the Muthurajawela conservation area).

Ecologically the following locations can be considered as important:

Location 5&6 which include part of marsh proper

Location 15 - although there are houses in this location, there are few trees of milla (*Vitex altissima*), *Litsea glutinosa*, *Walidda antidysenterica*, representing a remnant patch of a forest community. Although these are not threatened plants, leaving this patch intact will at least show the existence of such a community in this area (Provided there is no human interference !)

Table 3.5 PHYTOPLANKTON SPECIES RECORDED FROM
THE MUTHURAJAWELA AREA

BLUE GREEN ALGAE

Anabaena sp.
Chroococcus sp.
Lyngbya sp.
Merismopedia sp.
Microcystis sp.
Oscillatoria sp.
Rivularia sp.

GREEN ALGAE

Chlorella sp.
Chladophora sp.
Closterium sp.
Cosmerium sp.
Mougeotia sp.
Pediastrum sp.
Scenedesmus sp.
Spirogyra sp.
Volvox sp.

DIATOMS

Amphora sp.
Achnanthes sp.
Biddulphia sp.
Campylosira sp.
Coscinodiscus sp.
Cyclotella sp.
Cymbella sp.
Diatoma sp.
Diploneis sp.
Gramatophora sp.
Licmophora sp.
Melosida sp.
Navicula sp.
Nitzschia sp.
Pinnularia sp.
Pleurosigma sp.
Prorocentrum sp.
Surirella sp.
Tabellaria sp.

DINOFLAGELLATES

Ceratium sp.
Gymnodinium sp.
Peridinium sp.

Source: "Proposed LPG Import Terminal - Sri Lanka at Kerawalapitiya EIA Report" (1996)

Table 3.6 AQUATIC MACROPHYTES RECORDED FROM THE MUTURAJAWLA

SCIENTIFIC NAME	Common Name	Reported In References	Reported In This Survey	Endemic Introduced
Azolla pinnata			**	
Aponogeton crispes	Kekatiya	*	**	
Cabomba sp			**	
Eichhornia crassipes	Water hyacinth	*	**	In
Hydrilla verticillata	Hydrilla		**	In
Lemna sp.	Duckweed	*	**	
Limnocharis flava	Diya gova		**	
Monochoria vaginalis			**	
Najans sp			**	
Nymphaea pubescence	Olu		**	
Nymphaea nauchali	Manel			
Pistia stratiotes			**	
Salvinia molesta		*	**	In

CHAPTER 4: SURVEY OF THE FAUNA ALONG THE TRANSMISSION LINE ROUTE

4.1 Introduction

The objectives of the survey of terrestrial and aquatic fauna along transmission line route is to examine transects at 1km intervals, to identify, classify and map the existing habitats, and to identify the endemic and threatened faunal species along the 100m corridor. The second objective was to identify any possible environmental impacts due to the proposed transmission line, and to propose mitigation measures to overcome these problems.

The survey has been carried out during the month of May 1998 through field visits. The sampling techniques used for this purpose were, line transects along the transmission line corridor. Two line transects surveys were carried out along the corridor of the transmission line route, between locations 7 and 14, and 16 and 18. Spot surveys were carried out between locations 1 and 7, and 14 and 16, where short transects (approximately 100m) were carried out at 1 km intervals of the proposed transmission line route. The faunal species observed and their relative densities were recorded. As the actual survey was carried out during a short time interval, faunal species reordered from the study area during previous surveys were also taken into consideration when compiling the species list.

4.2 Description of the Habitat Types

Several habitat types were identified along the corridor of the transmission line route. The different habitat types found can be described as follows:

- Marsh proper: Typical marsh habitat with little or no human activity
- Disturbed marsh: Marsh area with high human activity including settlements
- Disturbed mangroves: Mangrove with high human activity including settlements
- Home gardens: Land associated with houses.
- Plantations: Large scale plantations. Two such plantations were encountered along the transmission line route. One was a coconut plantation (Location 9) and the other was a cinnamon plantation (Location 15).
- Land fills: Marsh area reclaimed by filling with soil or sand.
- Canals and waterways: The transmission line corridor are given in Table 4.1.

Table 4.1: Distribution of various habitat types along the Transmission line corridor

Location	MP	DM	DMan	HG	Plant	LF	CW
1						+	
2		+		+			
3		+					
4		+					+
5	+	+		+			+
6	+	+					+
7	+	+					+
8	+	+					+
9		+		+	+		+
10		+		+	+		+
11			+	+			+
12			+	+			+
13			+	+			+
14		+		+			
15		+		+	+		
16				+			
17		+					+
18		+				+	

MP: Marsh proper; DM: Disturbed marsh; Dman: Disturbed mangrove; HG: Home garden; Plant: Plantations; LF: Land fills; CW: Canals and Waterways.

4.3 Vertebrate Fauna:

More than 60% of the proposed transmission line corridor runs along the old Dutch canal through the Muthurajawela marsh. Muthurajawela marsh and the associated areas support a diverse group of vertebrates. This includes 31 species of mammals (1 endemic species), 86 species of birds, 37 species of reptiles (4 endemic species), 16 species of amphibians (3 endemic species), and 37 species of fish (2 endemic species). In addition it serves as a important habitat for the migrant birds. A total of 39 species of migrant birds have been recorded from the Muthurajawela-Negombo lagoon area which comprise 23% of the migrants birds that visit Sri Lanka. Although a number of endemic and threatened species occur in this area, none of these species are restricted to this habitat alone. The rest of the transmission line corridor runs through home gardens and disturbed marsh habitats.

A summary of the vertebrate species that have been recorded from the area coming under the proposed transmission line corridor and their conservation status is given in Table 2. A list of the vertebrate species that have been recorded from the study area is given in Annex 1.

Table 2. Summary of the vertebrate species recorded from the area coming under proposed transmission line corridor.

Group of Vertebrates	Island wide			At Muthurajawela		
	Total	Endemic	Threat.	Total	Endemic	Threat.
Mammals	122	14	39	31	1	6
Birds - Resident	227	23	51	86		4
Birds - Migrant	194		5	39		
Reptiles	173	82	113	37	4	13
Amphibians	53	31	29	16	3	4
Fish	116	29	25	37	2	2

4.4 Invertebrate fauna:

As in the case of vertebrates, the most number of invertebrates that occur within the proposed transmission line corridor are restricted to the Muthurajawela marsh. However, unlike the vertebrates these invertebrates are not being studied in detail except the butterflies and dragon flies. A total of 67 species of butterflies (9 endemic species) and 34 species of dragon flies (8 endemic species) have been recorded from Muthurajawela marsh area. Most important groups of invertebrates found in the Muthurajawela marsh includes, planktonic species, crustaceans, molluscs, worms, aquatic insects, butterflies, and dragon flies.

4.5 Aquatic fauna:

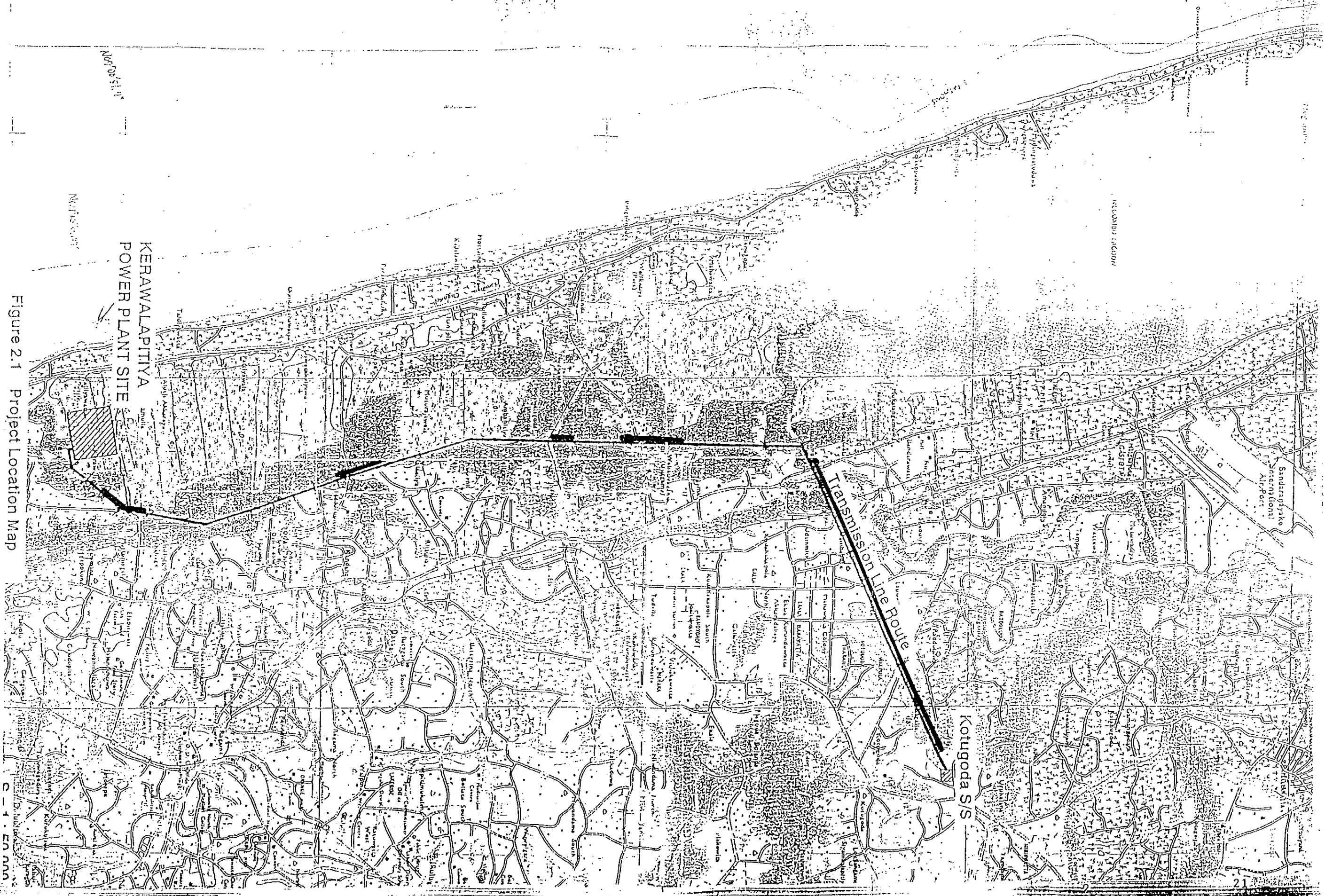
The proposed transmission line corridor runs along the old Dutch canal within the Muthurajawela marsh. Furthermore, it crosses two large waterways, namely, the Ja-Ela and Dandugam oya. In addition to these water ways the transmission line runs over several small canals and marshes. Therefore, a better part of the proposed transmission line is going to be located on habitats that are semi aquatic. These habitats have been shown to support a diverse fauna, both vertebrate and invertebrate. The vertebrate component includes fish, amphibians, water snakes, and water birds. The invertebrate fauna consists of planktonic species, molluscs, crustaceans, aquatic insects, and aquatic larval forms of many insects.

4.6 Possible impacts by the proposed project:

A major part of the proposed transmission line corridor runs along the Muthurajawela conservation area and the buffer zone of the Muthurajawela marsh. However, it is unlikely that the proposed transmission line will have a significant impact on the environment as it is restricted to a narrow corridor of 100 m along the periphery of the conservation zone. Furthermore, since it is a static body, once constructed it will have very little effect on the environment. The highest amount of impact is expected to occur during the construction phase, especially by the part of the corridor that runs through the Muthurajawela marsh area. However, it is difficult to comment on the nature and the extent of damage that will take place, as the details regarding the placement of the transmission towers and the mode of construction is not available at this time.

The following two mitigatory measures can be proposed to minimize the potential environmental impacts that may result due to the proposed transmission line corridor.

- Avoid any construction work within the Muthurajawela marsh area during the migration period (August-February) of birds.
- To place the transmission towers with minimum damage to the surrounding environment.



KERAWALAPITIYA
POWER PLANT SITE

Transmission Line Route

Kotugoda S/S

Figure 2.1 Project Location Map

Residential Areas

