

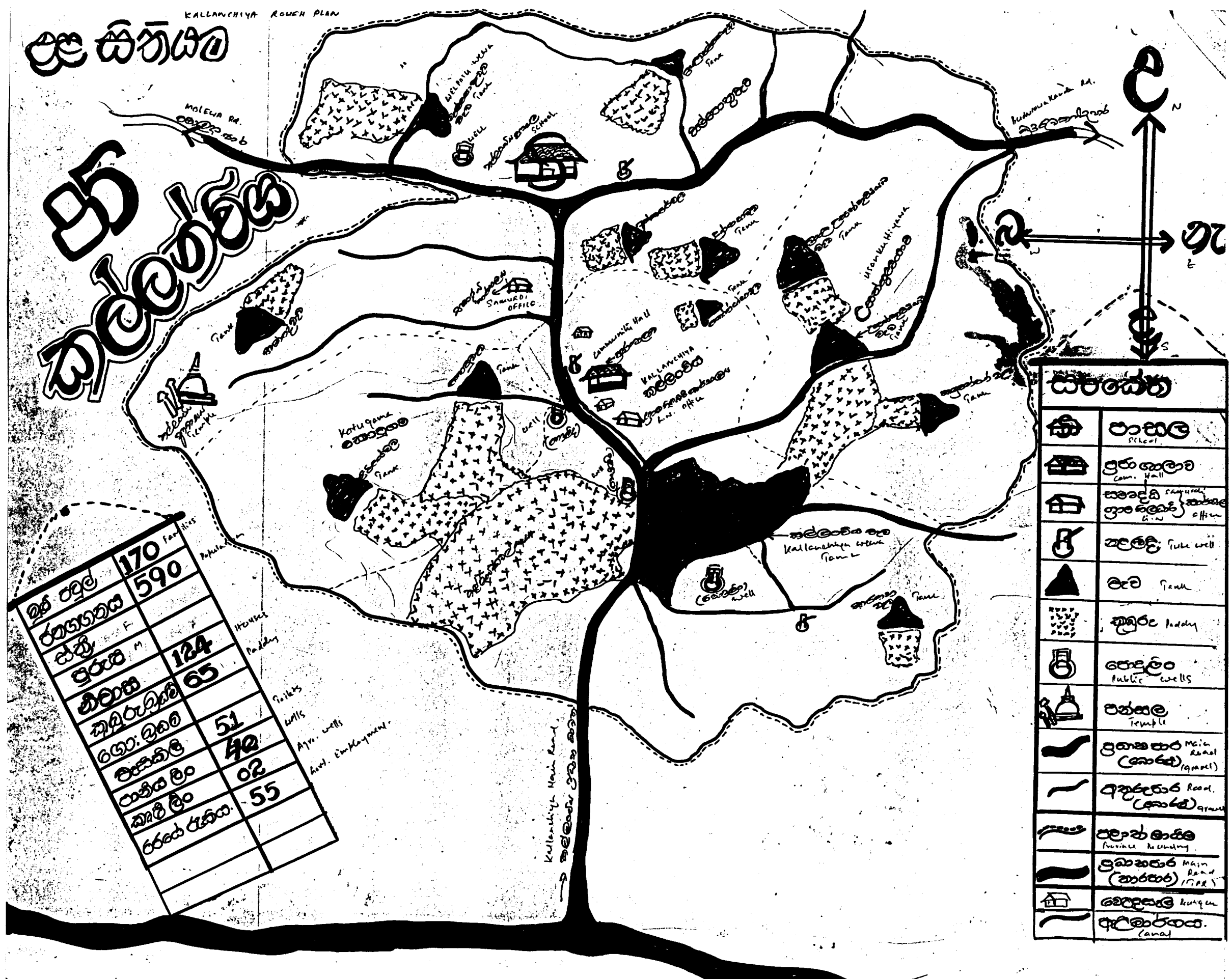
Chapter 5

MAHANANNERIYA MINOR IRRIGATION SCHEME

- Rehabilitation and Improvement Plan by Farmers -

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KALLANCHIYA ROUGH PLAN



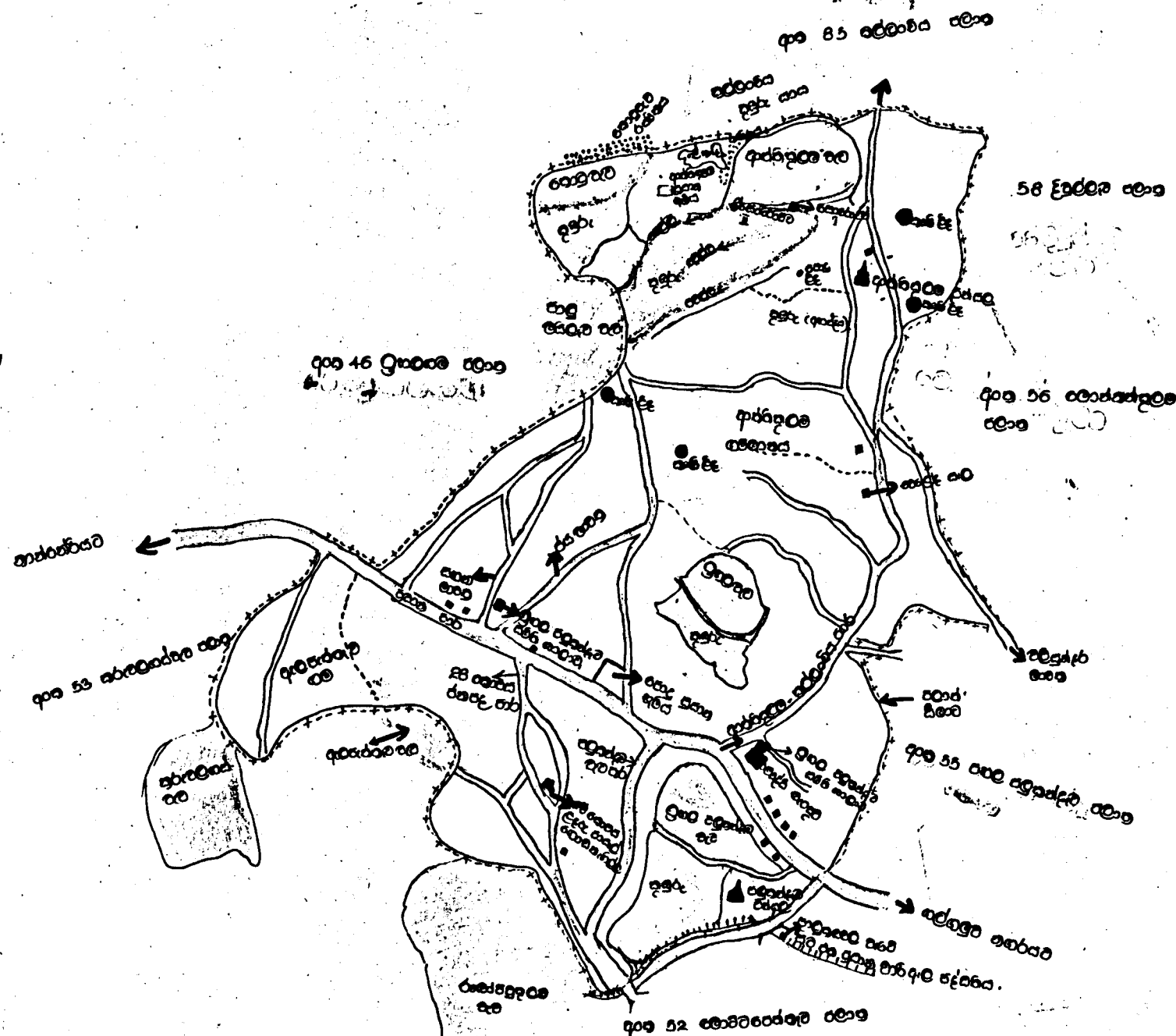
Rehabilitation Plan & Cost Estimation for
Minor Cascade Proposed by Farmers' Organization

Name of Scheme : Kallanchiya, Minor Scheme
Name of FO, etc. : Nidhahas FO, Extent of Land 8.1 ha

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others			Labour required for the work			Farmers' participation
				Requirement		Expected Cost (Rs.)	Requirement		Expected Cost (Rs.)	Expected Cost (Rs.)
1	Tank bund	Presently 10' ft wide Height 12' ft Turfing and providing a rip-rap	Length 500m Width 3.0 m	Earth Works	64 cu	32,000	Labors	142 days	24,850	24,850
				Rip rap	27 cu	81,000	Labors	60 days	10,500	10,500
				Turfing	161 sq		Labors	113 days	19,775	19,775
				Gravel	53 cu	106,000	Labors	118 days	20,650	20,650
2	spill & causeway	Construction of spill & causeway Spill is broken and there is no causeway Widen the spill and augment construction of causeway with rubble	Length of spill - 100' ft	RRM	30 cu	96,000	Skilled	23 days	6,325	
				Earth works	60 cu		Labors	233 days	40,775	40,775
			Causeway - 50' ft	Metal	5 cu	13,000	Labors	133 days	23,275	23,275
				Earth works	60 cu		Labors	11 days	1,925	1,925
3	Repairs to sluice	Presently in dilapidated condition Fixing a new door and hume pipes iron cages in front and back	Length 75' ft	Concrete	3 cu	24,600	Skilled	3 days	825	
							Labors	23 days	4,025	4,025
				Reinforced bar	425 kg	25,470				
				Earth works	30 cu		Labors	67 days	11,725	11,725
				Slide gate dia. 600	1 no	41,000				
				HP dia. 600mm	75 ft	52,500				
4	Rehabilitation of canal system with structures	Presently in a dilapidated condition & no structures Construction of two canals from sluice with structures Length of canals - 2000 meters	Farm Turnout - 20 nos	Metal	3 cu	7,800	Labors	7 days	1,225	1,225
				HP dia. 6 inch	140 ft	29,400				
				Concrete	20 cu	164,000	Skilled	20 days	5,500	
							Labors	155 days	27,125	27,125
5	Rehabilitation of present main canal	Digging the canal and providing a rubble masonry wall on road side	Length of canal 1000m Width 3' ft H 3 ft	Earth works	20 cu		Labors	44 days	7,700	7,700
				Metal	20 cu	52,000	Labors	44 days	7,700	7,700
				RRM	106 cu	339,200	Skilled	80 days	22,000	
							Labors	530 days	92,750	92,750
6	Construction of a feeder canal to take from Yayanluliya Pond	Opening up of a new canal by Back hoe machine removing forest & roots	Length 1500m width 10' ft	Earth works	500 cu		Labors	1110 days	194,250	194,250
				Metal	16 cu	41,600	Labors	36 days	6,300	6,300
				Clearing	2 ac.	20,000				
				Ripping	2 ac.	10,000				
	Sub-total					1,201,770		552,475	517,825	
	Grand-total					1,754,000				
	(US\$/ha)					3,050				



- කෘෂි උවුණු ඇගුණු Agro- Wells
- බුද්ධාගාරය Boutiques
- මහාමාර්ගයේ ස්ථාන D.S. Hall
- ස්වයංක්‍රීය ධාරා Sluice
- පොදු ප්‍රවාහන මාර්ගය Cemetery
- සමූහික භාණ්ඩාගාර Samudhi Bank
- ▲ පොදු ප්‍රවාහන Reservoir
- අනෙකුත් මාර්ග Other roads
- = ප්‍රධාන මාර්ග Main Road
- රේඛා සීමාව R.N. S. Boundary
- - - පාද මාර්ග Foot Path
- පොදු ප්‍රවාහන Tank
- පොදු ප්‍රවාහන Paddy
- පොදු ප්‍රවාහන (පුනරුත්ථාපන) Irrig. Canal
- පොදු ප්‍රවාහන (පුනරුත්ථාපන) Canals



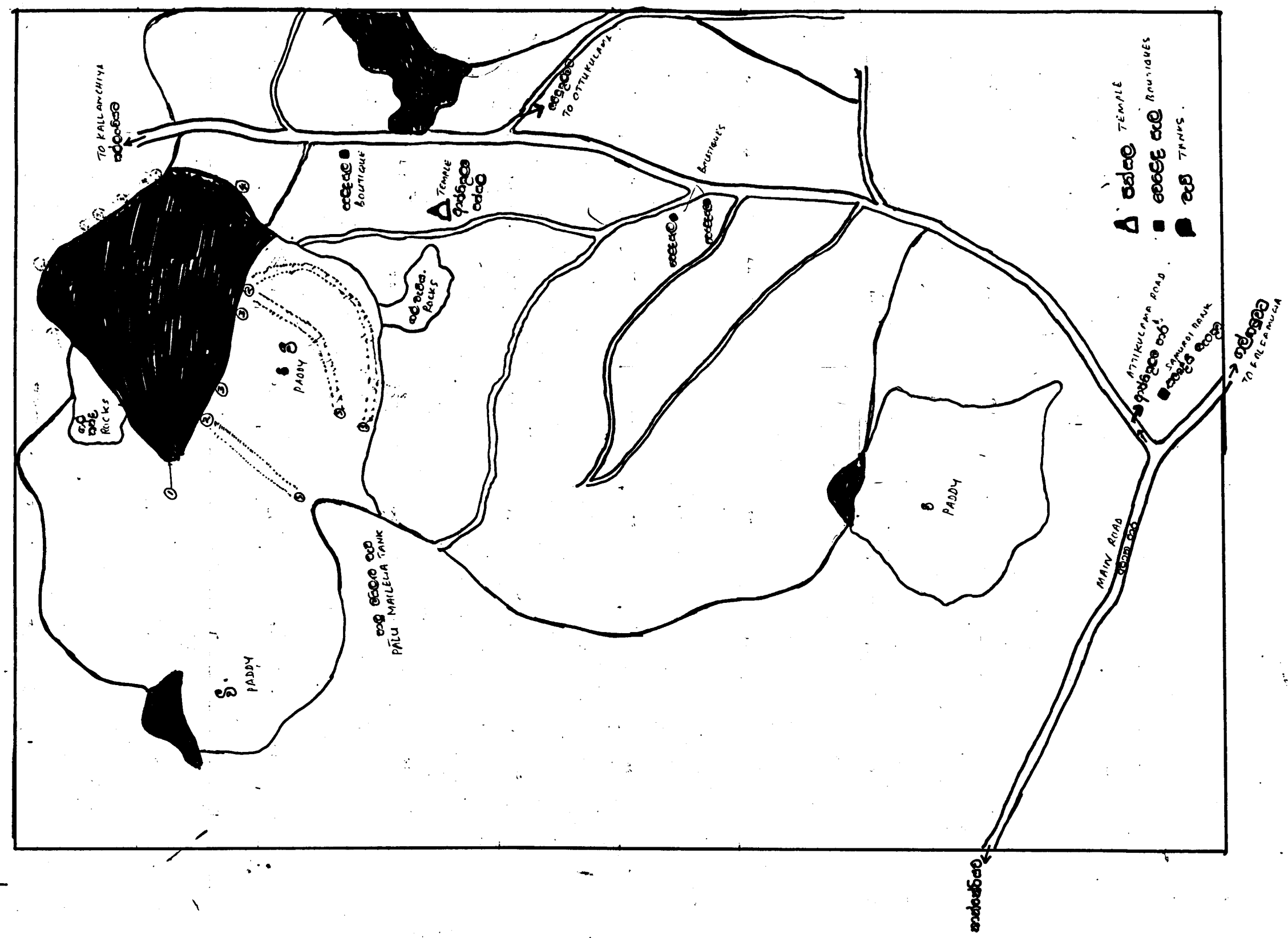
INCLUDED VILLAGES

ඇතුළත් ගම්පොළ

1. ආරාමපොළ - AATHIKULAMA
2. ඉහළ පළාතේ පොළ SHALA PALUWANGELA
3. දැමුණිපොළ ELAPETTEWA

අංක 54 ඉහළ පළාතේ ඉහළ පළාතේ ප්‍රධාන ප්‍රවාහන

ආත්තිකුලම ගෙව් දිව සැලැස්ම VILLAGE PLAN OF AATHIKULAMA



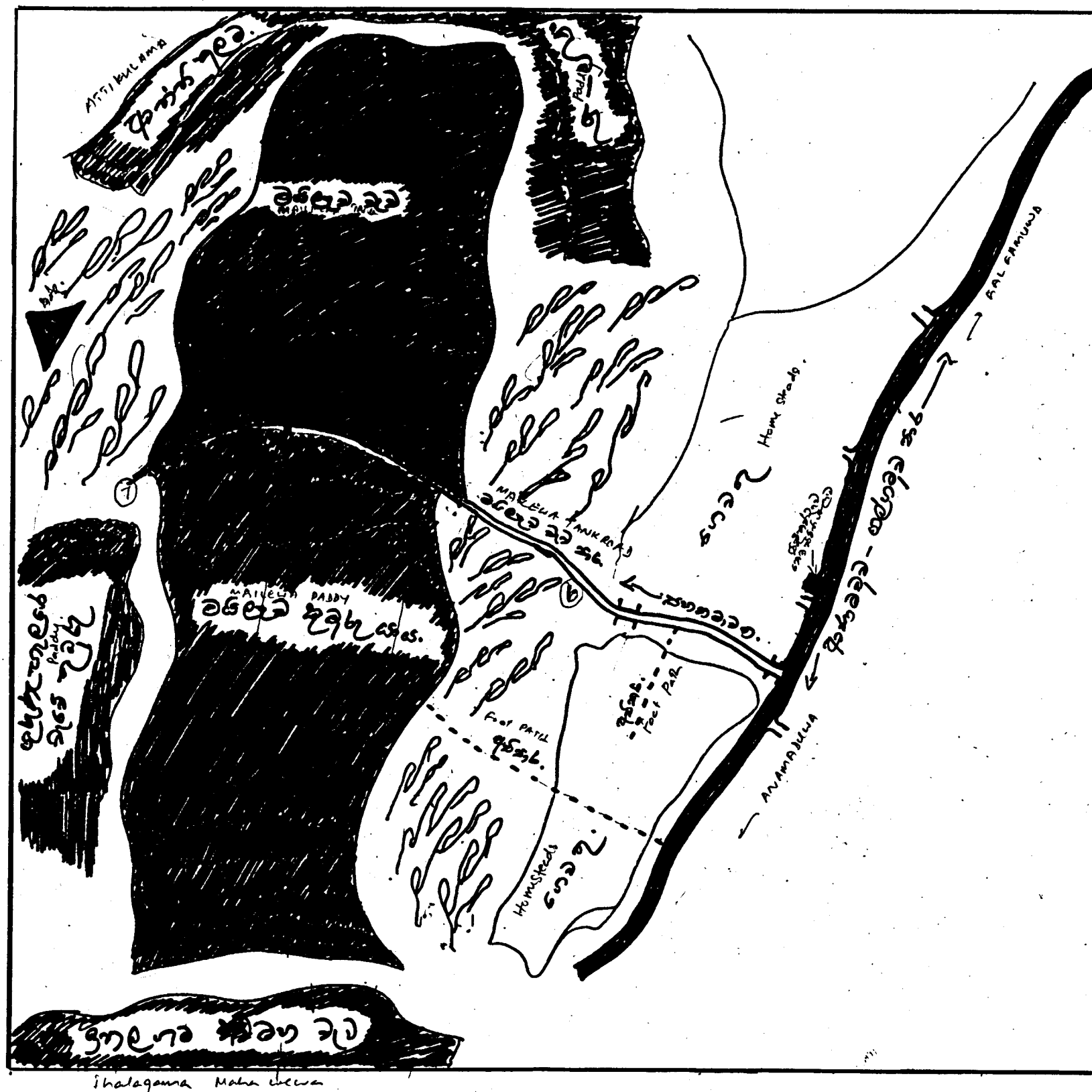
Rehabilitation Plan & Cost Estimation for
Minor Cascade Proposed by Farmers' Organization

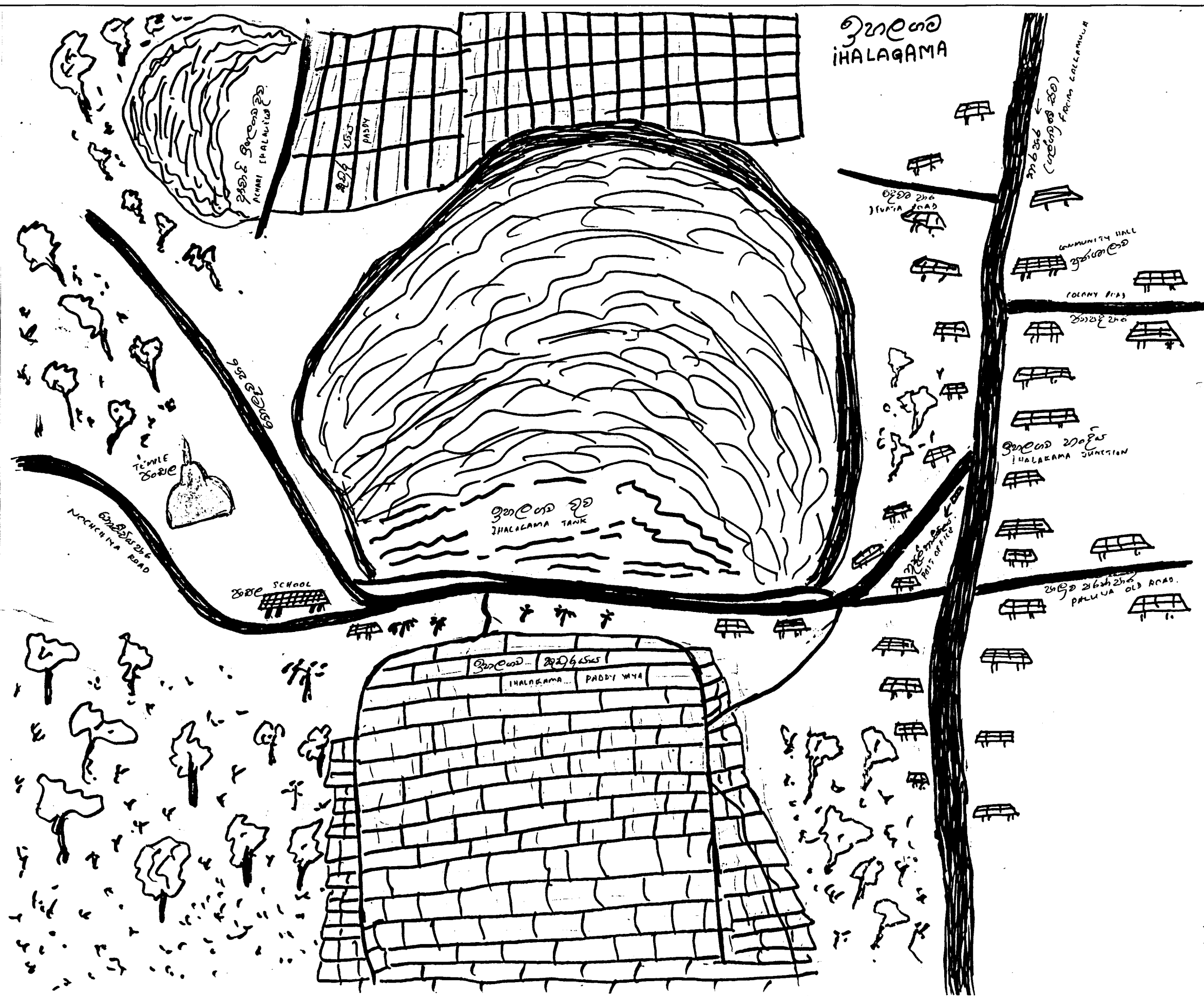
Name of Scheme : Arthikulama, Minor Scheme

Name of FO, etc. : Samagi FO, Extent of Land 12.1 ha

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others			Labour required for the work			Farmers' participation			
				Requirement		Expected Cost (Rs.)	Requirement		Expected Cost (Rs.)	Expected Cost (Rs.)			
1	Tank bund	Since the existing tank bund is not strong enough, earth work is necessary To prevent erosion of tank bund should turf the bund	L 350 m	Earth Works	41 cu	20,500	Labors	91 days	15,925	15,925			
			W 1.8 m	Rip rap	19 cu	57,000	Labors	42 days	7,350	7,350			
			H 3.35 m	Gravel	22 cu	44,000	Labors	49 days	8,575	8,575			
2	Two sluices	Since both sluice doors and leaking should repair or replace	L 350m, W 30' ft	Turfing	344 sq		Labors	241 days	42,175	42,175			
			L 60 ft - 2 nos	Concrete	6 cu	49,200	Skilled	6 days	1,650	8,225			
							Labors	47 days	8,225				
				Reinforced bar	849 kg	50,940	Labors	133 days	23,275				
				Earth works	60 cu								
				Slide gate dia. 600	2 nos	82,000							
				HP dia. 600mm	120 ft	84,000							
Metal	8 cu	20,800	Labors	18 days	3,150	3,150							
3	Construction of two bathing steps	It is required to construct 2 new bathing step for villages	L 25' ft, W 10' ft, x 2	Concrete	10 cu	82,000	Skilled	10 days	2,750	13,650			
							Labors	78 days	13,650				
				Earth works	30 cu		Labors	67 days	11,725				
				Metal	2 cu	5,200	Labors	4 days	700				
4	Tank spill	Repairs to between down places since it is not in good condition	L 50' ft, W 3' ft, H 1' ft	RRM	15 cu	48,000	Skilled	11 days	3,025	13,125			
							Labors	75 days	13,125				
				Earth works	30 cu		Labors	67 days	11,725				
				Metal	3 cu	7,800	Labors	7 days	1,225				
5	Canal system structures & construction of 2 causeways Canals 1 300m 2 400m 3 300m length 1000m width 2m	Canal system structures & construction of 2 causeways	Farm Turnout - 10 nos	HP dia. 6 inch	70 ft	14,700	Skilled	10 days	2,750	13,650			
				Concrete	10 cu	82,000					Labors	78 days	13,650
				Earth works	10 cu						Labors	22 days	3,850
				Metal	10 cu	26,000					Labors	22 days	3,850
			Causeways - 2 nos	HP dia. 600mm	40 ft	28,000	Skilled	4 days	1,100	5,425			
				Concrete	4 cu	32,800					Labors	31 days	5,425
				Earth works	20 cu						Labors	44 days	7,700
				Metal	2 cu	5,200					Labors	4 days	700
Sub-total					740,140		207,275	196,000					
Grand-total					947,000								
(US\$/ha)					1,102								

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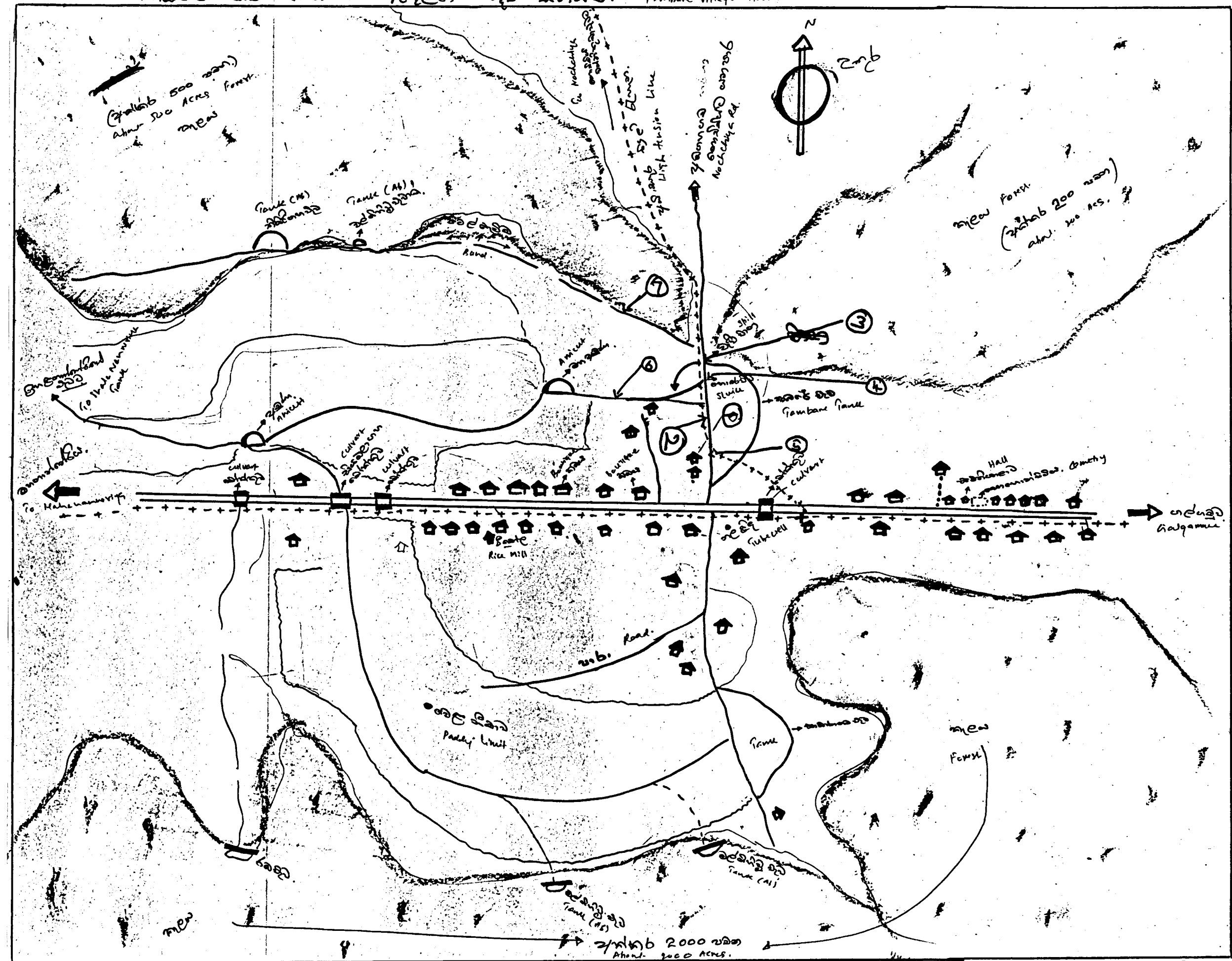


Rehabilitation Plan & Cost Estimation for
Minor Cascade Proposed by Farmers' Organization

Name of Scheme : Palumailawa (Mailewa), Minor Scheme

Name of FO, etc. : Ekamuthu FO, Extent of Land 22.0 ha

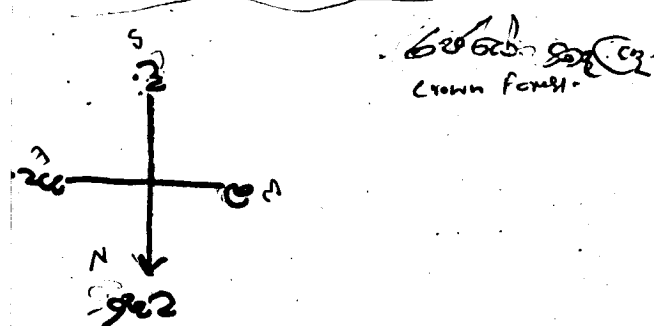
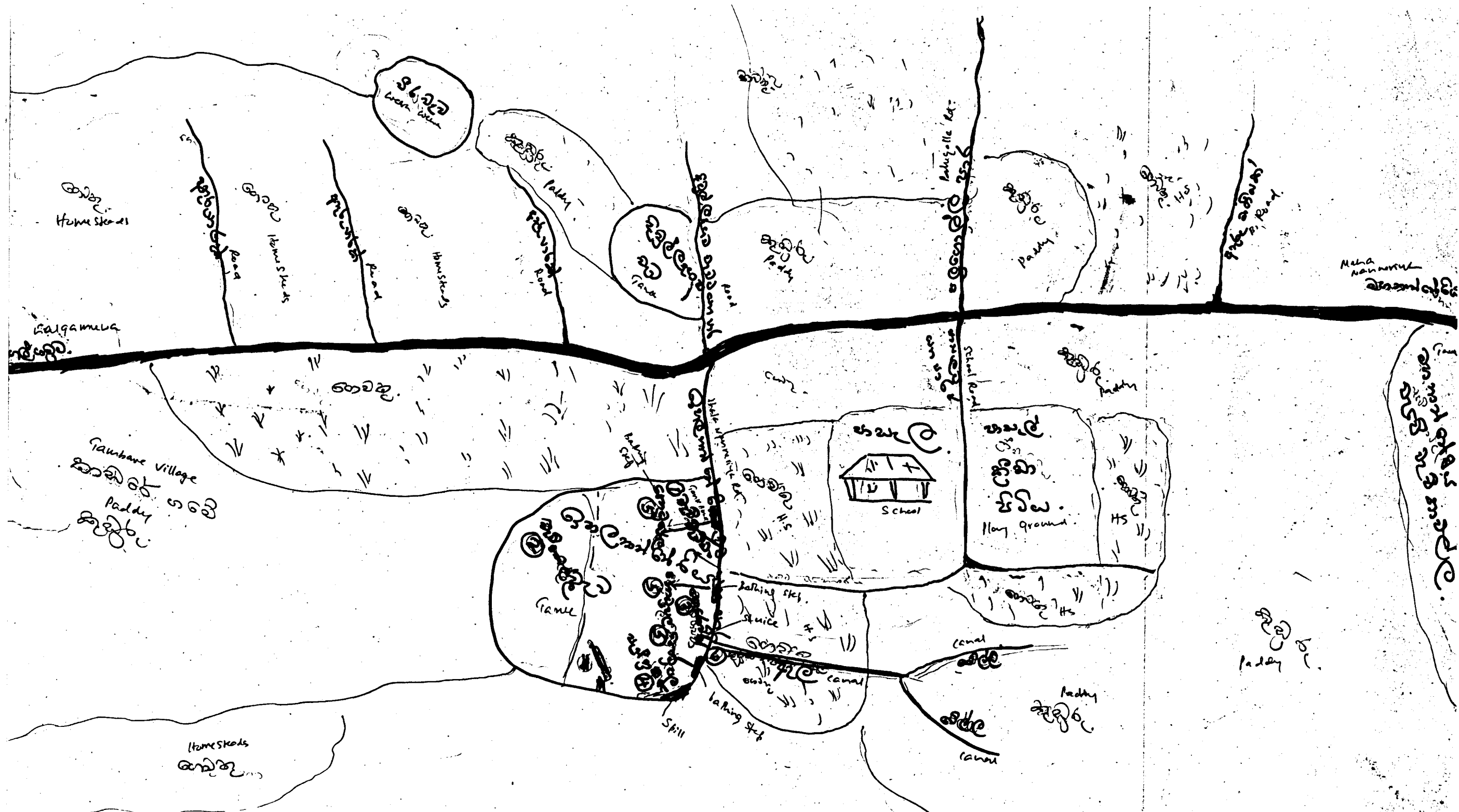
No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participatio
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	Sluice (MID)	Construction of a new sluice since the old one in no good.	Length of the sluice - 60 ft Height of concrete wall - 5 ft	Concrete 3 cu	24,600	Skilled 3 days	825	4,025
				Reinforced bar 425 kg	25,470	Labors 23 days	4,025	
				Earth works 30 cu		Labors 67 days	11,725	
				Slide gate dia. 600 1 nos	41,000			
				HP dia. 600mm 60 ft	42,000			
				Metal 2 cu	5,200	Labors 4 days	700	700
2	Canal	Filling the bunds with earth repairing, compacting & turfing	L 1/2 km, both sides W 3' ft, H 3' ft	Earth 170 cu	42,500	Labors 377 days	65,975	65,975
				Turfing 137 sq		Labors 96 days	16,800	16,800
3	Anicut & Canal	Filling the bunds with earth compacting and turfing	L 1/2 km, both sides W 3' ft, H 3' ft	Earth 170 cu	42,500	Labors 1062 days	185,850	185,850
				Turfing 137 sq		Labors 96 days	16,800	16,800
4	Anicut & Canal	Filling the bunds with earth compacting and turfing	L 1/2 km, both sides W 3' ft, H 3' ft	Earth 170 cu	42,500	Labors 377 days	65,975	65,975
				Turfing 137 sq		Labors 96 days	16,800	16,800
5	Tank bund	Filling the Tank bund with earth and turfing	L 1 km Top W 7' ft, H 2.95 m	Earth 104 cu	26,000	Labors 231 days	40,425	40,425
				Gravel 74 cu	148,000	Labors 164 days	28,700	28,700
				Turfing 710 sq		Labors 497 days	86,975	86,975
6	Agricultural Roads	Rehabilitation of existing road Fill washed out places, make side drains, surface.	L 2 km W 12' ft	Earth works 382 cu	191,000	Labors 848 days	148,400	148,400
				Gravel 254 cu	508,000	Labors 564 days	98,700	98,700
7	Spill & Spill Canal	Clearing and deepening the spill canal and rehabilitation	L 3 km W 10' ft, depth 8' ft	Clearing 4 ac.	40,000			
				Earth Excavation 3,180 cu	636,000			
	Sub-total				1,814,770		788,675	787,850
	Grand-total				2,603,000			
	(US\$/ha)				1,666			



Rehabilitation Plan & Cost Estimation for
Minor Cascade Proposed by Farmers' Organization

Name of Scheme : Palumailawa (Mailewa), Minor Scheme
Name of FO, etc. : Ekamuthu FO, Extent of Land 22.0 ha

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work		Farmers' participatio
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)
1	Sluice (MID)	Construction of a new sluice since the old one in no good.	Length of the sluice - 60 ft Height of concrete wall - 5 ft	Concrete 3 cu	24,600	Skilled 3 days	825	4,025
				Reinforced bar 425 kg	25,470	Labors 23 days	4,025	
				Earth works 30 cu		Labors 67 days	11,725	
				Slide gate dia. 600 1 nos	41,000			
				HP dia. 600mm 60 ft	42,000			
				Metal 2 cu	5,200	Labors 4 days	700	700
2	Canal	Filling the bunds with earth repairing, compacting & turfing	L 1/2 km, both sides W 3' ft, H 3' ft	Earth 170 cu	42,500	Labors 377 days	65,975	65,975
				Turfing 137 sq		Labors 96 days	16,800	16,800
3	Anicut & Canal	Filling the bunds with earth compacting and turfing	L 1/2 km, both sides W 3' ft, H 3' ft	Earth 170 cu	42,500	Labors 1062 days	185,850	185,850
				Turfing 137 sq		Labors 96 days	16,800	16,800
4	Anicut & Canal	Filling the bunds with earth compacting and turfing	L 1/2 km, both sides W 3' ft, H 3' ft	Earth 170 cu	42,500	Labors 377 days	65,975	65,975
				Turfing 137 sq		Labors 96 days	16,800	16,800
5	Tank bund	Filling the Tank bund with earth and turfing	L 1 km Top W 7' ft, H 2.95 m	Earth 104 cu	26,000	Labors 231 days	40,425	40,425
				Gravel 74 cu	148,000	Labors 164 days	28,700	28,700
				Turfing 710 sq		Labors 497 days	86,975	86,975
6	Agricultural Roads	Rehabilitation of existing road Fill washed out places, make side drains, surface.	L 2 km W 12' ft	Earth works 382 cu	191,000	Labors 848 days	148,400	148,400
				Gravel 254 cu	508,000	Labors 564 days	98,700	98,700
7	Spill & Spill Canal	Clearing and deepening the spill canal and rehabilitation	L 3 km W 10' ft, depth 8' ft	Clearing 4 ac.	40,000			
				Earth Excavation 3,180 cu	636,000			
	Sub-total				1,814,770		788,675	787,850
	Grand-total				2,603,000			
	(US\$/ha)				1,666			



IHALA NANNERIYA VILLAGE PLAN
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 පිටියම.

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Rehabilitation Plan & Cost Estimation for
Minor Cascade Proposed by Farmers' Organization

Name of Scheme : Ihala Nanneriya, Minor Scheme

Name of FO, etc. : Eksath FO, Extent of Land 26.0 ha

No.	Place to be repaired	Existing Condition / How to repair	Description	Materials/Others		Labour required for the work			Farmers' participation
				Requirement	Expected Cost (Rs.)	Requirement	Expected Cost (Rs.)	Expected Cost (Rs.)	
1	Tank bund	Should clean and augment the bund by about one foot with earth filling since there is a village on the other side of the bund the bund should be graveled and make motorable Some places should be widened because of bathing 4 places are damaged. Because of cattle, sluice to spill section is damaged. Out side of the bund is damaged near the sluice because of cattle since the tank is silted should remove the silt and deepen the tank 1. Length of the bund about 1000m 2. Width of the bund about 2 1/2 m 3. Height of the bund about 3 1/2 m	Tank bund	Earth Works 129 cu	64,500	Labors 286 days	50,050	50,050	
				Rip rap 53 cu	159,000	Labors 118 days	20,650	20,650	
				Gravel 86 cu	172,000	Labors 191 days	33,425	33,425	
				Turfing 323 sq		Labors 226 days	39,550	39,550	
			Desilting	1,000 cu	400,000				
2	Sluice	Existing sluice is made about 30 yrs back. Since the door is worn water is leaking because of this a large amount of water 90 waste the sluice should be repaired. Since the control arm (iron) is rotted it is difficult to open and close the sluice	1. Sluice door	Concrete 3 cu	24,600	Skilled 3 days	825	4,025	
			2. Iron Bar			Labors 23 days	4,025		
			3. Bar and nails	Reinforced bar 425 kg	25,470				
			4. Padlocks	Earth works 30 cu		Labors 67 days	11,725		
			5. Water measuring device	Slide gate dia. 600 1 no	41,000				
			HP dia. 600mm 60 ft	42,000					
			Metal 2 cu	5,200	Labors 4 days	700	700		
3	Spill	The existing spill is in a very run-down stage. There is a continuous leak. Since the spill is in a low elevation can not stock much water in the tank. If should be raised by about 1 foot. It is better to construct a new spill	1. Length - 100 ft	Concrete 9 cu	73,800	Skilled 9 days	2,475	12,250	
			2. Width - 1 foot			Labors 70 days	12,250		
			3. Height - 4 feet	Reinforced bar 1,274 kg	76,410	Labors 133 days	23,275		
				Earth works 60 cu		Labors 13 days	2,275		
				Metal 6 cu	15,600				
4	Bathing steps	The existing two bathing steps are dilapidated Should construct 3 new bathing steps 1. Length of a Bathing step - 25 feet 2. Width of a Bathing step -10 feet						12,250	
				Concrete 9 cu	73,800	Skilled 9 days	2,475		
				Reinforced bar 1,274 kg	76,410	Labors 70 days	12,250		
				Earth works 45 cu		Labors 100 days	17,500		
				Metal 3 cu	7,800	Labors 7 days	1,225		
5	Canal System	Repair the existing irrigation canal system which provides water to paddy fields. Two pipe lines should be repaired since they are leaking from joints.	1. Length of canal 800 m	HP dia. 600mm 100 ft	70,000			105,350	
			2. Width of canal 1m	Earth Works 271 cu	67,750	Labors 602 days	105,350		
	Sub-total				1,395,340		340,025	334,250	
	Grand-total				1,735,000				
	(US\$/ha)				940				