TN IAMWARM PROJECT

NALLAVUR SUB BASIN

DETAILED PROJECT REPORT

WATER RESOURCES DEPARTMENT

1.1. INTRODUCTION

IRRIGATED AGRICULTURAL MODERNISATION AND WATER

RESOURCES MANAGEMENT PROJECT 'IAMWARM'

1.1.1. GENERAL :

Agriculture is the heart beating of India and is the dominant sector in the Indian economy. Tamil Nadu depends largely on the surface and ground water potentials to the maximum limit and hence the future development and expansion depends only on the efficient and economical use of water potential and Resources.

The Government of Tamilnadu have taken a number of progressive actions on water resources and irrigation management, for the modernization of the Traditional Irrigation systems in TamilNadu with a loan assistance from World Bank. Under the World Bank funded project of "Irrigated Agriculture Modernization and Water Resources Management", River sub basins have been selected and proposed to be taken up under the control of Water Resources Department Wing of Public Works Department of Tamilnadu. This Project is one among them.

NALLAVUR SUB BASIN .

Accordingly a comprehensive programme has been proposed with a multi Disciplinary Approach. The very objective of this project is to attain maximum productivity from farm lands, for which serious attention is required to modernize the existing irrigation structures, anicuts, canal systems and tanks, in order to make them functionally more effective, conserve and utilize the available water from catchment's area for optimum use.

The history of the sub basin, problems in the irrigational system and the proposals to overcome the problems have been dealt in deep in the following chapters. The highlighted benefits of the project are

(i) 1466.52 Ha of registered gap ayacut will be bridged.

(ii) Depletion of ground water table will be improved and drinking water problem in the command area will be solved appreciably.

(iii) This project will promote water users participation in all aspects of water planning and management and also

(iv) improve their socio economic status.

The project cost for water resources organization is worked out to a tune of Rs.1650.26 lakhs.

1.1.2. DESCRIPTION OF THE MAIN VARAHANADHI RIVER (MAIN BASIN)

The Varahanadhi basin is one of the 17 Major rivers and is located in the Villupuram, Thiruvannamalai, and Cuddalore district of Tamil Nadu and Pondicherry Union territory. The total area of the basin is 4498.50 Sq.K.m. The Varahanadhi basin is surrounded by Bay of Bengal in the east, Palar basin in the north and Pennaiyar basin in the south and west. The total length of Vrananadhi River is about 78.50 Km. The basin is situated between north Latitude 11° 50'00'' and 12 °28'00'' and east Longitude 79° 08'00'' to 80° 10'00''.

The three individual rivers such as Varahanadhi, Ongur and Nallavur had separate catchment areas and flow separately and confluences separately ie. The Varahanadhi river confluence with Bay of Bengal, the Ongur river flows into Edayantittu Kaluveli and the Nallavur River joins the kaluveli swamp. For Water resources Assessment, water balance and water planning are done by integrating all the three rivers under Varahanadhi river basin.

This basin has been divided into three sub basins namely as follows

1. Varahanadhi
2. Ongur and
3. Nallavur

1.1.3 NALLAVUR SUB BASIN:-

The Nallavur sub basin starts near Gidangal Tank. The Catchments area of sub basin was 856.25sq.km and confluences in Kaluveli swamp. The full portion of the basin lies in Villupuram District. The Major Portion of the Basin is Located with in Marakanam and Vanur Block. There are 3 dividing Dams such as Eraiyanur, Annamputhur and Omandur and 1 anicut namely Kondamur anicut are constructed across Nallavur River,One swamp Regulator (Kaluveli). There is a seasonal flow in the river during monsoon seasons .

1.Totally 94 Irrigation Tanks and 4 Anicuts are under the control of Water Resources Department (WRD) of Public Works Department (PWD) in this sub basin. The list of Infrastructures covered with more details are furnished in the Annexure . These Infrastructures are Located within the sub basins hydraulic boundary spread over 89 Villages of 2 Taluk in Villupuram District. The total command area under these infrastructures works out to 8765.20 Ha.

2. **Command Area:-**

Non system Tank = 8765.20 Ha

Blockwise Ayacut Details

S. No.	Name of Sub Basin	Ayacut Details (in Ha)						Total Registered Ayacut (in HA)
		District	Taluk	Block	Without Project			
					FI	PI	Gap	
1.	Nallavur Sub Basin	Villupuram	Tindivanam	Olakkur	58.05	36.98	31.42	126.45
				Mailam	306.03	328.01	161.21	795.25
				Marakkkanam	2016.81	1113.51	841.57	3971.89
			Vanur	Vanur	2197.47	1241.82	432.32	3871.61
				Total	**4578.36**	**2720.32**	**1466.52**	**8765.20**

ACTIVIES OF DEPARTMENTS
CONVERGENCE TABLE

Cluster I

Sl.no	Cluster / Village	Total Aycut in Ha			Total Area in Ha		Focus Crop	WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
								Act																			
								St. TB. In M	Sluice		RE Weir	DS Chl in M	Anicuts	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
									RC	RE	Nos		Nos														
	Kollar						**Paddy, Maizes, Vegetables**							Demo		Area Expansion (Hybirde Vegetables)	19 Ha			**ABC - 1, Commodity Group - 1, IEC - 1, Drying yard - 1.**	4	Drip	2	Form Pond	1	Fodder Crop	4.00 Ha
1	**Venmani yathur**	16.92	14.83	14.72	31.75	46.47		1115	-	2	1	1500		SRI	26			SRI	26			Sprinkler	22				
2	**Kollar**	24.00	63.00	19.27	87.00	106.3		910	-	1	1	1000		G.Nut	4			Maize	12			Multicrop Threator	1				
3	**Salai**	11.00	20.00	10.95	31.00	41.95		740	1	-	-	2000		Maize	8							Powerweeder	1				
4	**Vempoondi**	20.00	39.00	25.96	59.00	84.96		-	-	-	-											Groundnut Decordicator	1				
5	**Pampoondi**	19.00	32.00	9.75	51.00	60.75		900	3		1	2300										Power tiller	2				
6	**Agoor**	20.00	31.00	10.06	51.00	61.06		950	1	-	1	1000										Form pond	1				
7	**Pattanam**	41.13	22.15	16.70	63.28	79.98		1750	2	-	1	2500															
	Total	152.05	222	107.4	374.03	481.4		6365	7	3	5	10300															

ACTIVIES OF DEPARTMENTS

Cluster II **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha			WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
								Act					Anicuts														
		FI	PI	GAP	WOP	WP	Focus Crop	St. TB. In M	Sluice RC	Sluice RE	RE Weir Nos	DS Chl in M	Nos	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
	Jakkam Pettai						Paddy, Maizes, Vegetables							Demo		Area Expansion (Hybirde Vegetables)	38 Ha			**Commodity Group - 1, IEC - 1.**	2	Drip	4	Form Pond	1	Fodder Crop	4.00 Ha
1	**Jakkam pettai Big Tank Chitteri**	78.78	47.790	31.480	126.57	158.05		2795	1	1	2	3200		SRI	36			SRI	26			Sprinkler	28				
2	**Singanur Big Tank**	25.46	16.67	7.500	42.13	49.63		2500	1	-	1	3500		G.Nut	5			Maize	16			Multicrop Threator	1				
3	**Singanur Small Tank**	45.07	24.27	12.300	69.34	81.64		1920	3	-	1	1000		Maize	8							Power weeder	1				
4	**Perumandur**	67.80	36.51	26.400	104.31	130.71		3000	2	-	2	3000										Groundnut Decordicator	1				
5	**Gidangal**	205.09	126.545	62.905	331.635	394.54		-	-	-	-											Power tiller	2				
6	**Kaveri Pakkam**	28.00	15.59	9.980	43.59	53.57		-	-	-	-											Form pond	1				
	Total	450.20	267.375	150.565	717.575	868.14		10215	7	1	6	10700															

ACTIVIES OF DEPARTMENTS

Cluster III **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha			WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
								Act					Anicuts														
		FI	PI	GAP	WOP	WP	Focus Crop	St. TB. In M	Sluice		RE Weir	DS Chl in M		Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
									RC	RE	Nos		Nos														
	Karunavur						Paddy, Maize, Vegetables						1	Demo		Area expansion (vegetables/casurina) 35Ha 43Ha				**Commodity Group-1 IEC-1**	2	Drip	4.00	Form pond	1	Fodder crop	4.00ha
1	**Karunavur Big Tank**	45.44	24.47	14.30	69.91	84.21		1220	-	-	1	1500		SRI	27			SRI	20			Sprinkler	##				
2	**Karunavur Small Tank**	44.00	24.21	16.00	68.21	84.21		940	-	-	1	500		G.Nut	3			Maize	10			Multicrop Threator	1				
3	**Tenpasiyar**	54.87	29.55	17.36	84.42	101.78		1600	1	-	1	500		Maize	9							Power weeder	1				
4	**Eraiyanur**	36.00	15.40	9.57	51.40	60.97		810	3	-	1	3000		Pulses	2							Groundnut Decordicator	1				
	Total	180.31	93.63	57.23	273.94	331.17		4570	4		4	5500	1									Power tiller Form pond	1 1				

ACTIVIES OF DEPARTMENTS

Cluster IV **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha		Focus Crop	WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
								Act					Anicuts														
		FI	PI	GAP	WOP	WP		St. TB. In M	Sluice		RE Weir	DS Chl in M		Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
									RC	RE	Nos		Nos														
	Kolliyankunam						Paddy, Maize, Groundnut									Area expansion (vegetables/spices)				**Commodity Group-1 IEC-1**	2	Drip	2	Form pond	1	Fodder crop	4.00ha
1	**Kolliyankunam**	49.36	26.58	20.28	75.94	96.22		1900	-	1	1	1200		Demo								Sprinkler	10				
2	**Kallakolathur & Veliyanur**	80.87	53.92	32.40	134.79	167.19		-	-	-	-			SRI	30	#	SRI	2				Multicrop Threator	1				
3	**T.Kenipattu**	14.00	26.00	6.14	40.00	46.14		1000	2	-	2	300		G.Nut	3	#	Maize	2				Power weeder	1				
4	**Thenkalavai**	34.35	19.00	12.30	53.35	65.65		1340	1	-	1	1000		Maize	2							Groundnut Decordicator	1				
5	**Kil idayalam**	91.16	49.08	32.10	140.24	172.34		2000	2	'	2	3000										Form pond	1				
	Total	269.74	174.58	103.22	444.32	547.54		6240	5	1	6	5500															

ACTIVIES OF DEPARTMENTS

Cluster V **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha		Focus Crop	WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
								Act					Anicuts	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
		FI	PI	GAP	WOP	WP		St. TB. In M	Sluice RC	Sluice RE	RE Weir Nos	DS Chl in M	Nos														
	Kondamur												3														
1	**Annamputhur**	58.67	31.500	37.695	90.170	127.865	Paddy, Maize, Pulses, Vegetables	-	-	-	-	-		Demo		Area expansion (vegetables/spices/fruits) 100 Ha				Commodity Group-1, IEC-1	2	Drip	10	Form pond	1	Fodder crop	4.00 Ha
2	**Vengai**	33.38	18.000	13.640	51.380	65.020		-	-	-	-	-		SRI	22			SRI	25			Sprinkler	20				
3	**Omandur**	48.50	27.130	9.000	75.630	84.630		2650	-	1	1	2750		Maize	14			Maize	4			Power weeder	1				
4	**Kil Chittamur**	34.40	19.070	12.110	53.470	65.580		2380	1	-	1	1000		Pulses	6			Pulses	4			Groundnut Decordicator	1				
5	**Tenkodippakkam**	31.32	15.000	17.720	46.320	64.040		-	-	-	-							G.nut	15			Multicrop Threator	1				
6	**Kondamur**	54.99	37.000	17.000	91.990	108.990		1600	2	-	1	2500						Bamboo	3			Power tiller Form pond	2 1				
7	**Ten siruvalur & Adanapattu**	100.47	34.585	32.400	135.055	167.455		1800	1	3	1	3250															
8	**Adanapattu Chitteri**	51.99	21.000	10.000	72.990	82.990		-	-	-	-																
9	**Kunnam**	20.14	15.000	5.460	35.140	40.600		1100	1	-	2	1300															
10	**Perumbakkam**	53.10	28.510	15.550	81.610	97.160		-	-	-	-																
11	**Parikkal Pattu**	30.51	20.000	8.870	50.510	59.380		1400	1	-	1	1000															
	Total	517.47	266.795	179.445	784.265	963.710		10930	6	4	7	11800	3														

ACTIVIES OF DEPARTMENTS

Cluster VI **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha			WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
								Act					Anicuts														
								St. TB. In M	Sluice		RE Weir	DS Chl in M		Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
		FI	PI	GAP	WOP	WP	Focus Crop		RC	RE	Nos		Nos														
	Endiyur																					Drip	26				
1	**Vitalapuram**	68.12	43.00	16.00	111.12	127.12		-	-	-	-			Demo				SRI	25			Sprinkler	30				
2	**Attur**	64.02	35.00	20.00	99.02	119.02		1100	2	-	1	1000		SRI	24			Maize	4			Power tiller Form pond	2 1				
3	**Endiyur**	23.17	12.08	6.22	35.25	41.47		1280	1	-	1	3000		Maize	12			Pulses	4			Power weeder	1				
4	**Kattalai**	42.14	22.66	12.34	64.80	77.14	Paddy, Maize, Pulses, Vegetables	1155	1	-	1	1500		Pulses	8	Area expansion (vegetables/spices/fruits)		G.nut	15	Commodity Group-1,IEC-1, Drying yard-1		Groundnut Decordicator	1				
5	**Elavalapakkam & Ten Nerkunam**	59.46	19.82	19.82	79.28	99.10		-	-	-	-							Bamboo	3			Multicrop Threator	1				
6	**Molasur**	59.70	30.81	17.24	90.51	107.75		3300	3	-	1	3000															
7	**Kovadi**	33.40	18.01	9.80	51.41	61.21		1140	2	-	2	1200															
	Total	350.01	181.38	101.42	531.39	632.81		7975	9		6	9700												Form pond	1	Fodder crop	4.00 Ha

ACTIVIES OF DEPARTMENTS

Cluster VII **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha			WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
		FI	PI	GAP	WOP	WP	Focus Crop	Act					Anicuts	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
								St. TB. In M	Sluice RC	Sluice RE	RE Weir Nos	DS Chl in M	Nos														
	Brammadesam																										
1	**Perumukkal**	71.81	37.12	22.60	108.93	131.5	Paddy, Maize, Pulses, Vegetables	400	3	-	1	1400		Demo		Area expansion (vegetables/spices/fruits)	100Ha	SRI	25	Commodity Group-1, IEC-1, Drying yard-1	3	Drip	-	Form pond	2	Fodder crop	4.00 Ha
2	**Palamukkal**	34.63	23.94	11.90	58.57	70.47		1380	1	-	1	1000		SRI	16			Maize	4			Sprinkler	10				
3	**Nallalam**	39.08	23.69	12.20	62.77	74.97		1550	-	-	1	0		Maize	8			Pulses	4			Power tiller Form pond	2 1				
4	**Nalmukkal**	23.30	14.43	10.00	37.73	47.73		1100	-	-	1	700		Pulses	4			G.nut	15			Power weeder	1				
5	**Endur**	47.38	20.31	13.90	67.69	81.59		200	-	1	1	700						Bamboo	3			Groundnut Decordicator	1				
6	**Brammadesam**	62.80	33.85	17.10	96.65	113.8		1800	-	-	1	3200										Multicrop Threator	1				
7	**Vannipper**	34.46	19.40	9.81	53.86	63.67		1200	1	-	1	1500															
8	**Alanguppam**	59.10	31.73	16.10	90.83	106.9		1500	-	1	1	900															
9	**Kurur**	22.00	13.04	9.86	35.04	44.90		1500	1	-	1	-															
	Total	394.56	217.5	123.5	612.07	735.5		10630	6	2	9	9400															

ACTIVIES OF DEPARTMENTS

Cluster VIII — **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha			WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
		FI	PI	GAP	WOP	WP	Focus Crop	Act					Anicuts	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
								St. TB. In M	Sluice RC	Sluice RE	RE Weir Nos	DS Chl in M	Nos														
	Nallavur																			**Commodity Group-1, IEC-1**	2			Form pond	2	Fodder crop	4.00 Ha
1	**Kilsiviri**	25.00	20.97	10.99	45.97	56.96	Paddy, Groundnut,Maize, Pulses, Vegetables	800	1	-	1			Demo		Area expansion (vegetables/spices/fruits)	100Ha	SRI	25			Drip	10				
2	**Peravur**	79.10	42.52	23.17	121.62	144.8		1935	3	-	4	2500		SRI	14			Maize	4			Sprinkler	25				
3	**Ulagapuram**	91.40	49.15	28.70	140.55	169.3		1400	1	-	1			Maize	6			Pulses	4			Form pond	1				
4	**Nallavur**	82.10	42.00	27.28	124.10	151.4		3300	2	-	3	2300		Pulses	4			G.nut	15			Power weeder	1				
5	**Parangani**	36.91	18.00	12.51	54.91	67.42		1200	-	2	2							Bamboo	3			Groundnut Decordicator	1				
6	**Pudukkuppam**	203.33	195.60	26.00	398.93	424.9		-	-	-	-											Multicrop Threator	1				
7	**Karattai**	32.36	10.00	5.81	42.36	48.17		1180	-	1	1																
8	**Aruvadai**	41.08	29.00	13.20	70.08	83.28		800	-	2	1	2500															
	Total	591.28	407.2	147.7	998.52	1146		10615	7	5	13	7300															

ACTIVIES OF DEPARTMENTS

Cluster IX **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha		Focus Crop	WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
								Act					Anicuts														
								St. TB. In M	Sluice		RE Weir	DS Chl in M		Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
		FI	PI	GAP	WOP	WP			RC	RE	Nos		Nos														
	Kiliyanur																										
1	**Kiliyanur Periyaeri**	78.81	49.00	28.00	127.81	155.8	Paddy, Groundnut,Maize, Pulses, Vegetables	-	-	-	-			Demo		Area expansion (vegetables/spices/fruits)	100Ha			**Commodity Group-1, IEC-1**	2	Drip	15	Form pond	2	Fodder crop	4.00 Ha
2	**Kiliyanur chitteri**	83.69	37.00	15.65	120.69	136.3		2110	2	-	3	1100		SRI	12			SRI	25			Sprinkler	10				
3	**Kiliyanur pudu eri**	57.21	30.81	14.70	88.02	102.7		1600	2	-	1	3500		Maize	9			Maize	4			Form pond	2				
4	**Ten agaram**	49.14	15.00	17.32	64.14	81.46		-	-	-	-			Pulses	5			Pulses	4			Power weeder	1				
5	**Semangalam &Elavampattu**	74.40	40.10	16.72	114.50	131.2		1400	1	-	1	1300						G.nut	15			Groundnut Decordicator	1				
6	**Terkunam**	62.10	31.00	7.73	93.10	100.8		1500	3	-	2	4000						Bamboo	3			Multicrop Threator	1				
7	**Tailapuram**	77.50	40.00	14.91	117.50	132.4		-	-	-	-																
8	**Konjumangalam**	38.85	23.00	17.00	61.85	78.85		1200	3	-	1	900															
	Total	521.70	265.9	132	787.61	919.6		7810	11		8	10800															

ACTIVIES OF DEPARTMENTS

Cluster X **CONVERGENCE TABLE**

Sl.no	Cluster / Village	Total Aycut in Ha			Total Area in Ha			WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
		FI	PI	GAP	WOP	WP	Focus Crop	Act					Anicuts	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
								St. TB. In M	Sluice RC	Sluice RE	RE Weir Nos	DS Chl in M	Nos														
	Pulicha pallam																										
1	**Pulicha pallam periya eri**	36.90	24.66	15.30	61.56	76.86	Paddy, Groundnut,Maize, Pulses, Vegetables	2200	2	-	1	3200		Demo		Area expansion (vegetables/spices/fruits)	100Ha	SRI	25	Commodity Group-1, IEC-1	2	Drip	10	Form pond	1	Fodder crop	4.00 Ha
2	**Pulichapallam chittaeri**	32.80	14.09	10.20	46.89	57.09		1300	1	-	1	500		SRI	42			Maize	4			Sprinkler	20				
3	**Kattaram bakkam**	27.42	19.00	5.63	46.42	52.05		1500	1	-	1	5500		Maize	22			Pulses	4			Power tiller Form pond	2 1				
4	**Olundiyapattu**	66.40	34.19	20.20	100.59	120.8		2280	2	-	3	3000		Pulses	12			G.nut	15			Power weeder	1				
5	**Kodur**	63.80	34.30	18.70	98.10	###		-	-	-	-							Bamboo	3			Groundnut Decordicator	1				
6	**vilvanatham**	51.36	27.66	20.16	79.02	99.18		-	-	-	-											Multicrop Threator	1				
7	**Koluvari**	28.20	20.00	7.26	48.20	55.46		1520	1	-	1	1700															
8	**Kalu perum bakkam**	26.32	18.00	10.22	44.32	54.54		-	-	-	-																
9	**Nesal Periya eri**	45.57	18.00	6.43	63.57	70.00		1200	1	-	1	1700															
10	**Raya ottai**	54.20	22.00	10.00	76.20	86.20		-	-	-	2	1000															
11	**Raya pudu pakkam**	28.04	16.00	4.00	44.04	48.04		1550	2	-	-	1700															
12	**Anbakkam**	105.20	56.65	32.30	161.85	194.2		1600	2	-	1	3300															
	Total	566.21	304.6	160.40	870.76	1031		13150	12		11	21600															

ACTIVIES OF DEPARTMENTS

Cluster XI **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha			WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
		FI	PI	GAP	WOP	WP	Focus Crop	Act					Anicuts	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
								St. TB. In M	Sluice RC	Sluice RE	RE Weir Nos	DS Chl in M	Nos														
	Vanur															Area expansion (vegetables/spices/fruits)	100Ha	SRI	25	**Commodity Group-1, IEC-1**	2	Drip	10	Form pond	1	Fodder crop	4.00 Ha
1	**Vanur periya eri**	47.90	28.00	16.00	75.90	91.90	Paddy, Maize, Pulses	2000	-	3	-	1700		Demo				Maize	4			Sprinkler	20				
2	**Vanur chitteri**	40.11	23.00	10.00	63.11	73.11		1200	1	-	-	1500		SRI	8			Pulses	4			Power tiller Form pond	2 1				
3	**Irumbai**	31.50	19.00	7.00	50.50	57.50		1140	-	1	2	1200		Maize	4			G.nut	15			Power weeder	1				
4	**Putturai**	58.95	31.00	6.00	89.95	95.95		1280	1	-	-	1500		Pulses	4			Bamboo	3			Groundunt Decordicator	1				
	Total	178.46	101.00	39.00	279.46	318.46		5620	2	4	2	5900										Multicrop Threator	1				

ACTIVIES OF DEPARTMENTS

Cluster XII — **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha		Focus Crop	WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
								Act					Anicuts														
								St. TB. In M	Sluice		RE Weir	DS Chl in M															
		FI	PI	GAP	WOP	WP			RC	RE	Nos		Nos	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
	Omipper																			Commodity Group-1, IEC-1	2	Drip	3	Form pond	1	Fodder crop	4.00 Ha
1	**Devanandal**	22.30	13.00	8.59	35.30	43.89	Paddy, Maize, Pulses	960	1	-	1			Demo		Area expansion (vegetables/spices/fruits)	100Ha	SRI	25			Sprinkler	14				
2	**Munnur**	132.30	69.37	47.73	201.67	249.40		2900	1	1	3	1900		SRI	12			Maize	4			Power tiller Form pond	2 1				
3	**Adavallikuttan**	23.18	11.20	12.64	34.38	47.02		1200	-	-	1			Maize	6			Pulses	4			Power weeder	1				
4	**Omipper**	30.42	16.00	13.70	46.42	60.12		1236	-	1	1	0		Pulses	6			G.nut	15			Groundnut Decordicator	1				
5	**Chittanapakkam**	22.49	12.40	14.09	34.89	48.98		1350	-	1	1	700						Bamboo	3			Multicrop Threator	1				
6	**Kulattur**	55.48	26.40	8.29	81.88	90.17		1100	1	-	1	0															
	Total	286.17	148.37	105.04	434.54	539.58		8746	3	3	8	2600															

ACTIVIES OF DEPARTMENTS

Cluster XIII **CONVERGENCE TABLE**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha			WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
								Act					Anicuts														
		FI	PI	GAP	WOP	WP	Focus Crop	St. TB. In M	Sluice RC	Sluice RE	RE Weir Nos	DS Chl in M	Nos	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
	Anumanthai																			Commodity Group-1, IEC-1	2	Drip	11	Form pond	1	Fodder crop	4.00 Ha
1	**Tirukkanur**	21.46	14.23	5.58	35.69	41.27	Paddy, Maize, Pulses	600	1	-	1	1300		Demo		Area expansion (vegetables/spices/fruits)	100Ha	SRI	25			Sprinkler	30				
2	**Urani Mangalatha eri**	20.42	11.30	13.70	31.72	45.42		100	-	2	1	0		SRI	20			Maize	4			Power tiller Form pond	2 1				
3	**Anumanthai Kar eri**	26.69	16.43	8.21	43.12	51.33		1580	1	-	-	2500		Maize	13			Pulses	4			Power weeder	1				
4	**Anumanthai Vanji Kuttai**	25.30	14.06	16.90	39.36	56.26		-	-	-	-	0		Pulses	6			G.nut	15			GroundnUt Decordicator	1				
5	**Kunimedu**	26.33	13.98	15.24	40.31	55.55		300	-	-	-	0						Bamboo	3			Multicrop Threator	1				
	Total	120.20	70.00	59.63	190.20	249.83		2580	2	2	2	3800															

ACTIVIES OF DEPARTMENTS
CONVERGENCE TABLE (ABASTRACT)

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha		WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
		FI	PI	GAP	WOP	WP	Focus Crop	Act						Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
								St. TB. In M	Sluice		RE Weir	DS Chl in M	Anicuts														
									RC	RE	Nos		Nos														
1	**Kollar**	152.05	221.98	107.41	374.03	481.44		6365	7	3	5	10300		Demo				SRI	299			Drip	102Ha				
2	**Jakkam pettai**	450.20	267.375	150.565	717.575	868.14		10215	7	1	6	10700		SRI	289			Maize	76			Sprink ler	272Ha				
3	**Karnavur**	180.31	93.63	57.23	273.94	331.17		4570	4		4	5500		G.Nut	15			G.Nut	135			Form Pond	15 No				
4	**Koilyangunam**	269.74	174.58	103.22	444.32	547.54		6240	5	1	6	5500															
5	**Kondamur**	517.47	266.795	179.445	784.265	963.71		10930	6	4	7	11800		Maize	108			Bamboo	27			Power Tiller	16No				
6	**Endiyur**	350.01	181.38	101.42	531.39	632.81		7975	9		6	9700		Pulses	57			Pulses	36			Power weeder	13 Nos				
7	**Brammadesam**	394.56	217.51	123.47	612.07	735.54		10630	6	2	9	9400										Groundunt Decordicator	13 Nos				
8	**Nallavur**	591.28	407.24	147.66	998.52	1146.18		10615	7	5	13	7300															
9	**Kiliyanur**	521.70	265.91	132.03	787.61	919.64		7810	11		8	10800										Multi crop Threater	13 Nos				
							Area Expenstion Paddy, Naize Pulses, Vegetables.						**4**			**Area Expenstion Paddy, maize, pulses, Vegetables**	**1060 Ha**			**IEC - 13, Commodity Group - 13, Drying Yard - 3 & ABC - 1**	**30**			**Form pond**	**15 Nos**	**Fodder crop**	**52.00.0 Ha**

Sl.no	Cluster Village	Total Aycut in Ha			Total Area in Ha			WRD						Agri		Hort		TNAU		Agri Marketing		Agri Eng		Fisheries		Animal Husbandry	
		FI	PI	GAP	WOP	WP	Focus Crop	Act					Anicuts	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha	Act	Nos/ Ha
10	**Pulicha pallam**	566.21	304.55	160.40	870.76	1031.16		13150	12		11	21600															
11	**Vanur**	178.46	101.00	39.00	279.46	318.46		5620	2	4	2	5900															
12	**Omipper**	286.17	148.37	105.04	434.54	539.58		8746	3	3	8	2600															
13	**Anumanthai**	120.20	70.00	59.93	190.20	249.83		2580	2	2	2	3800															
	Total	**4578.36**	**2720.32**	**1466.82**	**7298.68**	**8765.20**		1E+05	81	25	87	114900	4														

1.2 HYDROLOGY

1.2.1 GENERAL

Nallavur is a major tributary of Varahanadhi

LOCATION

Sub Basins Area is 856.25 Sq.km. The Taluks covered are.

1. Tindivanam Taluk of Villupuram District
2. Vanur Taluk of Villupuram District

1.2.3. CATCHMENT AREA OF SUB - BASIN

The Nallavur sub basin has a typical climate, owing to the major catchments area in plains. Nallavur Sub-Basin enjoys the benefits of mostly North East monsoon and slightly in summer season.

1.2.4 HYDRO METEOROLOGY

The Hydro Meteorology parameters include rainfall, temperature, humidity, wind velocity, evaporation and duration of sun shine which determine the climate of the basin.

1.2.5 RAIN FALL

Average annual rainfall of gauging station influencing this sub basin is as follows.

Sl. No.	Name of Rain gauge station	North East Monsoon	Summer	South West Monsoon	Winter	Annual mm
1.	Marakkanam	451.60	105.00	338.00	317.00	1211.60

a. CLIMATE

The Nallavur basin lies in a normal rainfall belt having a average rain fall of annual rain fall of 1211.60 mm. southwest monsoon contribute 338mm. while NE monsoon contribute 451.60 mm. This basin receives a major share of its rain fall during NE Monsoon. The Monsoon helps to build up storage in non system tanks.

b. LAND HOLDING

Details of farm holding and size classes prevalent in Nallavur sub Basin are given below:

Sl. No.	Category	Size of Holding	Numbers	Percentage
1.	Marginal	<1.00 Ha	4326	62 %
2.	Small	1.00 – 2.00 Ha	1442	21 %
3.	Medum	2.00 – 5.00 Ha	916	13 %
4.	Big	>5.00Ha	216	4 %

Above table revealed that the marginal farmers alone accounted for 62% percent in the sub basin followed by small farmers. Development initiatives will need to take this fact in to account.

CROPPING PATTERN

Name of the sub Basin	**: Nallavur**	Fully Irrigated	4578.36	Ha
District	: Viluppuram	Partially Irrigated	2720.32	Ha
Registered Ayacut Area	: 8765.20 Ha	Gap	1466.52	Ha
		Total Ayacut Area	**8765.20**	Ha

S.No.	Crop	Without Project				With Project				Increase
		FI	PI	RF/G	TOTAL	FI	PI	RF/G	TOTAL	
I	**Perennial crop**									
1	Coconut	-	-	350.00	350.00	350.00	-	-	350.00	0.00
2	Fodder	0.00	0.00	0.00	0.00	50.00	-	-	50.00	50.00
3	Casurina	-	-	491.00	491.00	1020.00	-	-	1020.00	529.00
4	Cashew	-	500.00	50.00	550.00	590.00	-	-	590.00	40.00
5	Mango	60.00	-	150.00	210.00	225.00	-	-	225.00	15.00
	Sub Total	**60.00**	**500.00**	**1041.00**	**1601.00**	**2235.00**	**0.00**	**0.00**	**2235.00**	634.00
II	**Annual crop**									
1	Sugar Cane	350.00	75.00	-	425.00	425.00	-	-	425.00	0.00
2	Banana	100.00	-	-	100.00	140.00	-	-	140.00	40.00
	Sub Total	**450.00**	**75.00**	**0.00**	**525.00**	**565.00**	**0.00**	**0.00**	**565.00**	40.00
III	**1st crop**									
1. a	Paddy	1899.36	-	-	1899.36	-	-	-	0.00	-1899.36
b	Paddy - SRI	-	-	-	0.00	1600.00	-	-	1600.00	1600.00
2	Groundnut	1700.00	1950.32	225.52	3875.84	3255.20	-	-	3255.20	-620.64
3	Maize	250.00	150.00	-	400.00	400.00	-	-	400.00	0.00
4	Pulses	18.00	25.00	200.00	243.00	450.00	-	-	450.00	207.00
5	Bhendi	80.00	20.00	-	100.00	125.00	-	-	125.00	25.00
6	Watermelon	70.00	-	-	70.00	75.00	-	-	75.00	5.00
7	Brinjal	51.00	-	-	51.00	60.00	-	-	60.00	9.00
8	Fallows	-	-	0.00	0.00	-	-	0.00	0.00	0.00
	Sub Total	**4068.36**	**2145.32**	**425.52**	**6639.20**	**5965.20**	**0.00**	**0.00**	**5965.20**	-674.00
	Grand Total (I+II+III)	**4578.36**	**2720.32**	**1466.52**	**8765.20**	**8765.20**	**0.00**	**0.00**	**8765.20**	0.00
IV	**2 nd Crop**									
1. a	Paddy	350.00	-	-	350.00	-	-	-	0.00	-350.00
b	Paddy - SRI	-	-	-	0.00	820.00	-	-	820.00	820.00
2	Groundnut	-	200.00	-	200.00	765.13	-	-	765.13	565.13
3	Maize	-	150.00	-	150.00	950.00	-	-	950.00	800.00
4	Pulses	-	200.00	-	200.00	1550.00	-	-	1550.00	1350.00
5	Bhendi	15.00	-	-	15.00	95.00	-	-	95.00	80.00
6	Brinjal	10.00	-	-	10.00	70.00	-	-	70.00	60.00
7	Crossandra	10.00	-	-	10.00	20.00	-	-	20.00	10.00
8	Chillies	10.00	-	-	10.00	65.00	-	-	65.00	55.00
	Sub Total	**395.00**	**550.00**	**0.00**	**945.00**	**4335.13**	**0.00**	**0.00**	**4335.13**	3390.13
V	**3 rd Crop**									
	Total	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
	Great Grand Total	**4973.36**	**3270.32**	**1466.52**	**9710.20**	**13100.33**	**0.00**	**0.00**	**13100.33**	3390.13
	Cropping Intensity				**110.78%**				**149.46%**	

1.3. HYDRAULIC PARTICULARS

HYDRAULIC PARTICULARS OF WRO WATER BODY STRUCTURES
HYDRAULIC PARTICULARS OF TANKS(NON SYSTEM)

Sl. No	Name of District	Name of Taluk	Name of block	Name of Consdituency	Name of Village	Name of Tank	Regd. Ayacut		Catchment		No of Sluice	Deepest sill Level	FTL	MWL	TBL	Depth of storage	Water Spread Area MM^2	Capacity in Mcft	No.of filling	Annual Storage Mcft	Length of bund in M
							Ha	Ac	Free (Sq.Km)	Combined (Sq.Km)											
1	Villuppuram Dirstrict	Tindivanam	Olakkur	Tindivanam	Venmaniattur	Venmaniattur Tank	46.47	114.83	2.43	2.43	2	96.000	100.000	100.600	102.100	4.00	0.18	16.75	1	16.75	1115
2					Pattanam	Pattanam Tank	79.98	197.63	5.62	10.75	2	96.500	100.000	100.600	102.100	3.50	1.79	28.4	1	28.4	1749
3			Mailam		Akkur	Akkur Big Tank	61.06	150.88	5.68	5.68	1	95.940	100.000	100.600	102.100	4.06	1.17	16.85	1.5	25.28	949
4					Pampundi	Pampundi Big Tank	60.75	150.11	4.42	4.42	3	95.900	100.000	100.600	102.100	4.10	1.17	16.35	1	16.35	930
5					Salai	Salai Tank	41.95	103.66	2.33	2.33	1	96.670	100.000	100.600	102.100	3.33	0.19	10.12	1	10.12	739
6					Kollar	Kollar Tank	106.27	262.59	5.59	7.45	2	95.900	100.000	100.600	102.100	4.10	1.17	13.33	1.5	20.00	910
7					Kolliyankunam	Kolliyankunam Big Tank	96.22	237.76	3.12	6.21	1	97.150	100.000	100.600	102.100	2.85	0.68	19.81	1.5	29.72	1900
8					T.Kenipatti	T.Kenipatti Tank	46.14	114.01	2.49	2.49	2	97.200	100.000	100.600	102.100	2.80	1.01	14.38	1	14.38	1000
9					Peramandur	Peramandur Big Tank	130.71	322.98	5.06	9.22	2	96.900	100.000	100.600	102.100	3.10	1.45	20.19	2	40.38	1980
10					Vempundi	Vempundi Tank	84.96	209.94			2	97.000	100.000	100.600	102.100	3.00	0.58	15.8	1.54	23.7	1400
11					Kallakalathur	Kallakalathur Hissa Tank	167.19	413.13			2	96.250	100.000	100.600	102.100	3.75	2.16	45.6	1	45.6	2200
12			akkana		Eraiyanur	Eraiyanur Tank	60.97	150.66	3.52	3.52	3	96.850	100.000	100.600	102.100	3.15	0.308	14.99	1	14.99	810
13					Omandur	Omandur Tank	84.63	209.12	4.24	6.32	3	97.250	100.000	100.600	102.100	2.75	0.907	29.83	1	29.83	3570
14					Kilchittamur	Kilchittamur Tank	65.58	162.05	5.67	15.07	1	97.250	100.000	100.600	102.100	2.75	0.263	13.5	1.5	20.25	2380
15					Jakkam pettai	Jakkam pettai Big Tank	158.05	390.54	5.67	5.67	2	97.300	100.000	100.600	102.100	2.70	0.258	5.44	1	5.44	1490

16					Jakkampettai	Jakkampettai Chitteri		-	5.67	5.67	2	98.150	100.000	100.600	102.100	1.85	0.266	5.78	1	5.78	1305
17					Karnarur	Karnavur Big Tank	84.21	208.08	4.53	7.77	2	97.050	100.000	100.600	102.100	2.95	0.149	13.68	2	27.36	930
18					Karnavur	Karnavur Chitteri	84.21	208.08	3.89	10.1	2	96.950	100.000	100.600	102.100	3.05	0.149	13.68	2	27.36	1220
19					Singanur	Singanur Big Tank	49.63	122.64	5.67	26.13	3	97.000	100.000	100.600	102.100	3.00	0.326	10.22	1.5	15.33	2080
20					Singanur	Singanur Chitteri	81.64	201.73	3.10	8.28	3	96.900	100.000	100.600	102.100	3.10	0.41	21.1	1	21.10	1920
21					Ten kalavay	Ten kalavay Tank	65.65	162.22	0.83	3.7	1	96.650	100.000	100.600	102.100	3.35	0.346	13.52	1.5	20.28	1340
22					Ten pasiyar	Ten pasiyar Tank	101.78	251.50	2.28	3.24	1	96.790	100.000	100.600	102.100	3.21	1.09	20.96	1.5	31.44	1600
23					Attur	Attur Tank	119.02	294.10	2.59	6.21	2	97.800	100.000	100.600	102.100	2.20	0.777	22.19	1.5	31.79	1100
24					Molasur	Molasur Tank	107.75	266.25	5.59	7.45	3	97.400	100.000	100.600	102.100	2.60	0.906	16.95	12	33.90	3280
25					Endiyur	Endiyur Tank	41.47	102.47	2.33	2.33	1	96.500	100.000	100.600	102.100	3.50	0.307	12.36	1.5	18.54	990
26					Kovadi	Kovadi Tank	61.21	151.25	3.15	3.15	2	97.620	100.000	100.600	102.100	2.38	0.177	14.48	1.5	21.72	1460
27					Kattalai	Kattalai Tank	77.14	190.61	3.88	3.88	1	97.550	100.000	100.600	102.100	2.45	0.437	13.42	12	26.84	1160
28					Perumukkal	Perumukkal Tank	131.53	325.01	3.41	19.35	4	96.350	100.000	100.600	102.100	3.65	1.113	14.48	2	28.96	2010
29					Palamukkal	Palamukkal Tank	70.47	174.13	0.34	5.59	2	97.850	100.000	100.600	102.100	2.15	0.259	12.01	2	24.02	980
30					Kilsiviri	Kilsiviri Tank	56.96	140.75	0.23	0.23	1	97.100	100.000	100.600	102.100	2.90	0.647	13.07	1.5	19.61	1420
31					Nalmukkal	Nalmukkal Tank	47.73	117.94	2.33	2.33	1	97.000	100.000	100.600	102.100	3.00	0.177	7.77	2	15.54	1280
32					Vanniper	Vanniper Tank	63.67	157.33	3.75	12.4	1	98.100	100.000	100.600	102.100	1.90	0.294	9.54	2	19.08	1200
33					Kurur	Kurur Big & Chitteri	44.90	110.95	0.69	0.69	2	97.600	100.000	100.600	102.100	2.40	0.279	6.36	2	12.72	1500
34					Alankuppam	Alankuppam Tank	106.93	264.22	5.43	10.36	3	96.500	100.000	100.600	102.100	3.50	0.242	17.66	2	35.32	1490
35					Endur	Endur Tank	81.59	201.61	3.11	6.21	2	97.000	100.000	100.600	102.100	3.00	0.232	11.65	2	23.30	1760
36					Munnur	Munnur Big Tank	198.85	491.36	1.29	37.41	1	96.200	100.000	100.600	102.100	3.80	0.641	28.67	2	57.34	1800
37					Munnur	Munnur chitteri	50.55	124.91	3.45	3.45	1	96.900	100.000	100.600	102.100	3.10	0.38	13.88	1.5	20.82	1100
38					Kulattur	Kulattur Tank	90.17	222.81	2.20	2.2	1	97.310	100.000	100.600	102.100	2.69	0.362	8.83	2	17.66	1100
39					Adavallikuttan	Adavallikuttan Tank	47.02	116.19	3.10	7.95	1	97.550	100.000	100.600	102.100	2.45	0.177	9.18	1.5	13.77	1200

40					Omipper	Omipper Tank	60.12	148.56	0.26	2.33	1	97.750	100.000	100.600	102.100	2.25	0.214	9.54	2	19.08	1236
41					Chittanapakkam	Chittanapakkam Tank	48.98	121.03	1.29	10.36	1	98.150	100.000	100.600	102.100	1.85	0.206	8.48	2	16.96	1350
42					Tirukkanur	Tirukkanur Tank	41.27	101.98	3.67	3.67	1	98.100	100.000	100.600	102.100	1.90	0.195	6.36	2	12.75	600
43					Urani	Urani mangalatha Eri	45.42	112.23	2.20	5.95	3	98.400	100.000	100.600	102.100	1.60	0.187	7.06	2	14.03	955
44					Anumanthai	Anumandai Kar Eri &vanjikuttai	107.59	265.85	2.07	2.07	2.00	97.500	100.000	100.600	102.100	2.50	0.077	9.54	2	19.08	1580
45					Kunimedu	Kunimedu Tank	55.55	137.26	3.23	3.23	1	97.800	100.000	100.600	102.100	2.20	0.19	5.3	2	10.60	700
46					Kil Eadayalam	KilEdayalam Tank	172.34	425.85	7.12	17.85	3	96.100	100.000	100.600	102.100	3.90	2.04	38.8	1.5	25.20	2000
47					Brammadasem	Brammadasem	113.75	281.08	3.62	9.32	1	96.650	100.000	100.600	102.100	3.35	0.437	29.31	1	29.31	1720
48					T. Nallalam	T. Nallalam	74.97	185.25	1.91	3.36	1	97.850	100.000	100.600	102.100	2.15	0.31	10.95	1	10.95	1550
49					Kaveripakkam	Kaveripakkam Tank	53.57	132.37	1.89	4.42	2	97.300	100.000	100.600	102.100	2.70	0.325	9.54	1.5	14.31	1140
50					Elavalapakkam	Elavalapakkam Hissa Tank	99.10	244.88	4.66	7.77	4	97.650	100.000	100.600	102.100	2.35	0.204	30.61	1	30.61	1390
51					Gidangal	Gidangal Tank	394.54	974.91			5	95.250	100.000	100.600	102.100	4.75		106.46	1	106.46	3750
52					Vitalapuram	Vitalapuram Tank	127.12	314.11	3.1	6.73	2	97.270	100.000	100.600	102.100	2.73	0.517	17.66	1.5	26.49	1500
53					Annam Pudur	Annam Pudur Tank	127.86	315.94			3	96.200	100.000	100.600	102.100	3.80		39.49	1	39.49	3400
54					Vengai	Vengai Tank	65.02	160.66			2	97.250	100.000	100.600	102.100	2.75	3.5	12.5	1.5	18.75	1900
55					Kondamur	Kondamur Tank	108.99	269.31	4.53		2	97.000	100.000	100.600	102.100	3.00	0.842	34.26	1.5	51.39	2380
56					Kiliyanur	Kiliyanur puthu eri	102.72	253.82	8.29	8.29	2	97.750	100.000	100.600	102.100	2.85	0.418	27.19	1.5	40.79	1850
57					Kiliyanur	kiliyanur Chetteri	136.34	336.90	5.28	23.17	3	96.300	100.000	100.600	102.100	3.70	0.777	56.8	1	56.80	2110
58			VANUR		Kunnam	Kunnam Tank	40.60	100.32	2.12	2.12	1	97.250	100.000	100.600	102.100	2.75	0.176	12.36	1.5	18.54	1100
59					Semangalam & Elavam Pattu	Semangalam Tank	131.22	324.24	0.76	7.22	2	97.250	100.000	100.600	102.100	2.75	0.66	26.84	1.5	40.26	1590
60					Putturai	Putturai Tank	95.95	237.09	6.99	6.99	1	97.250	100.000	100.600	102.100	2.75	0.374	34.34	1	34.34	1160
61					Vanur	Vanur big Tank	91.90	227.08	4.48	4.48	3	97.250	100.000	100.600	102.100	2.75	0.288	85.17	1	85.17	2040
62					Vanur	Vanur Chitteri	73.11	180.65	5.56	5.56	2	97.250	100.000	100.600	102.100	2.75	0.242	14.83	1.5	22.25	1260
63					Pulicha pallam	Pulicha pallam big Tank	76.86	189.92	5.18	10.87	2	96.650	100.000	100.600	102.100	3.35	0.437	19.07	1	19.07	2050

64					Pulichapallam	Pulichapallam Chitteri	57.09	141.07	4.53	4.53	1	96.950	100.000	100.600	102.100	3.05	0.381	16.95	1	16.95	1260
65					Olundiyapattu	Olundiyapattu Tank	120.79	298.47	3.87	6.21	2	96.900	100.000	100.600	102.100	3.10	0.829	18.09	2	36.18	2200
66					Anbakkam	Anbakkam Tank	194.15	479.74	6.99	6.99	2	97.200	100.000	100.600	102.100	2.80	0.31	21.42	2	42.84	2950
67					T. Parangani	T. Parangani Tank	67.42	166.59	4.40	4.4	2	97.800	100.000	100.600	102.100	2.20	0.721	15.89	1.5	23.84	1200
68					Irumbai	Irumbai Tank	57.50	142.33	5.46	5.46	1	18.460	100.000	100.600	102.100	3.00	0.399	16.84	1	16.84	1140
69					Rayapudukkuppam	Rayapudukkupam Tank	48.04	118.71	1.03	1.03	2	97.750	100.000	100.600	102.100	2.25	0.201	18.46	1	18.46	1435
70					Rayaottai	Rayaottai Tank	86.20	213.00	2.48	3.36	3	96.900	100.000	100.600	102.100	3.10	0.255	15.21	1.5	22.82	1305
71					Nesal	Nesal big Tank	70.00	172.97	4.14	4.14	2	96.150	100.000	100.600	102.100	3.85	0.668	14.48	1.5	21.72	1200
72					Karattai	Karattai big Tank	48.17	119.03	2.33	2.33	2	97.300	100.000	100.600	102.100	2.70	0.29	9.36	1.5	14.04	1180
73					Aruvadai	Aruvadai Tank	83.28	205.78	3.10	8.28	3	97.700	100.000	100.600	102.100	2.30	0.314	13.68	2	27.36	800
74					Devanandal	Devanandal Tank	43.89	108.45	2.07	2.07	1	98.400	100.000	100.600	102.100	1.60	0.172	7.64	2	15.28	960
75					Konjumangalam	Konjumangalam Tank	78.85	194.84	2.06	10.84	3	97.500	100.000	100.600	102.100	2.50	0.511	13.92	2	27.84	1520
76					Koluvari	Koluvari Tank	55.46	137.04	3.88	5.36	3	97.320	100.000	100.600	102.100	2.68	0.283	9.15	2	18.30	1450
77					Kattrampakkam	Kattrampakkam Tank	52.05	128.62	2.40		1	97.400	100.000	100.600	102.100	2.60	0.381	27.55	1	27.55	1500
78					Peravur	Peravur Tank	144.79	357.78	5.05	9.19	4	96.700	100.000	100.600	102.100	3.30	1.449	23.28	2	46.56	1935
79					Ulagapuram	Ulagapuram Nagal Eri	50.27	124.22	3.95	3.95	1	97.100	100.000	100.600	102.100	2.90	0.404	13.8	1.5	58.20	1200
80					Parikalpattu	Parikalpattu Tank	59.38	146.73	1.86		1	96.650	100.000	100.600	102.100	3.35	2.748	13.77	1.5	20.66	1500
81					Tensiruvalur & Adanapattu	Adanapattu chitteri	82.99	205.07			1	97.250	100.000	100.600	102.100	2.75		25.63	1	25.63	1850
82					Terkunam	Terkunam Tank	100.83	249.15	20.25	12.77	3	96.900	100.000	100.600	102.100	3.10	0.127	31.43	1	31.43	1540
83					Nallavur	Nallavur Tank	151.38	374.06	10.14	40.09	3	97.250	100.000	100.600	102.100	2.75	0.325	19.57	1	39.14	3300
84					Ten agaram	Tenagaram Tank	81.46	201.29	2.02	10.84	2	96.050	100.000	100.600	102.100	3.95	0.543	13.77	1.5	20.66	1550
85					Ten Kodippakkam	Ten KodippakkamTank	64.04	158.24	4.14	15.48	2	96.950	100.000	100.600	102.100	3.05	0.946	19.78	1	19.78	2150
86					Tailapuram	Tailapuram Tank	132.41	327.19	3.88	5.18	3	96.850	100.000	100.600	102.100	3.15	0.609	21.9	1	21.90	2100
87					Ulagapuram	Ulagapuram Perumal Eri	118.98	294.00	3.31	14.45	1	97.250	100.000	100.600	102.100	2.75	0.251	20.48	1	20.48	1725

88					Pudukuppam	Pudukuppam Hissa eri	424.93	1050.00	7.77	121.32	4	96.400	100.000	100.600	102.100	3.60	1.088	74.87	1.5	112.31	2100
89					Tensiruvalur	Tensiruvalur Hissa Tank	167.46	413.79	5.54	7.3	4	97.250	100.000	100.600	102.100	2.75	0.906	51.72	1	51.72	1800
90					Perumbakkam	Perumbakkam	97.16	240.08	4.32	5.23	2	97.250	100.000	100.600	102.100	2.75	1.63	10.95	1	10.95	1340
91					Kodur	Kodur	116.80	288.61	7.25	7.25	2	96.250	100.000	100.600	102.100	3.75	1.088	36.08	1	36.08	3360
92					Kaluperumpakkam	Kaluperupakkam	54.54	134.77	3.23	3.23	2	96.240	100.000	100.600	102.100	3.76	0.307	13.42	1	13.42	2000
93					Kiliyanur	Kiliyanur Big Tank	155.81	385.01	33.3	42.31	4	96.750	100.000	100.600	102.100	3.25	0.814	48.12	1	48.12	1850
94					vilvanatham	vilvanatham Tank	99.18	245.07	2.59	10.32	2	97.700	100.000	100.600	102.100	2.30	0.517	22.6	1	22.60	2100
						Total	8765.20		Hec												

Nallavur Sub Basin

Hydraulic Particulars of supply channels

Sl. NO	Name of supply Channles	Lenth in m	Bed Width in m	Gradient	F.S.L. in m	Remarks
1	Akkur	2200	3.00	1/1000	0.60	
2	Pampundi	1500	3.00	1/1500	0.45	
3	Venmaniyathur	1500	3.50	1/2000	0.60	
4	Pattanam	2300	3.00	1/2000	0.30	
5	Salai	3750	3.00	1/2000	0.25	
6	Kollar	1000	4.00	1/2000	0.40	
7	Jakkampattai Big Tank	2000	3.00	1/2000	0.60	
8	Jakkampattail small Tank	500	3.00	1/2000	0.95	
9	Karnavur Big Tank	500	3.00	1/1500	0.60	
10	Karnavur Small Tank	1500	3.00	1/1000	0.45	
11	Singanur Big Tank	750	3.00	1/2000	0.30	
12	Singanur Small Tank	2000	4.00	1/1500	0.50	
13	Eraiyanur	3000	3.00	1/1000	0.45	
14	Ten Pasiyar	1500	3.00	1/1500	0.40	
15	Ten Kalavai	1000	3.00	1/2000	0.60	
16	Athur	1000	3.00	1/1500	0.30	
17	Endiyur	3000	4.00	1/2000	0.65	
18	Kattalai	2280	3.00	1/1500	0.40	
19	Molasur	3000	3.00	1/2000	0.30	
20	Kovadi	2130	3.00	1/1000	0.60	
21	Peramandur	3000	3.00	1/1500	0.45	
22	Kiledaiyalam	3000	4.00	1/1500	0.45	
23	Kilchittamur	1000	4.00	1/2000	0.45	
24	T. Kennipattu S. chl.	300	3.00	1/2000	0.45	
25	Kiliyannur Pudu eri S. chl	3500	3.00	1/2000	0.45	
26	Kiliyannur Chitteri S. chl	1100	3.00	1/2000	0.45	
27	Nesal big tank S. chl	2100	4.00	1/2000	0.45	
28	Omandur tank S. chl	5000	5.00	1/2000	0.60	
29	Kondamur tank S. chl	500	4.00	1/2000	0.60	
30	Thensiruvallur tank S. chl	1500 3500	4.00 4.00	1/2000	0.45 0.45	
31	Semangalam tank S. chl	2000	4.00	1/2000	0.45	
32	Vanur Big tank S. chl	500	4.00	1/2000	0.45	
33	Vanur Chitteri S. chl	500	4.00	1/2000	0.45	
34	Kunnam Tank S. chl	2000	4.00	1/2000	0.30	

Sl. NO	Name of supply Channles	Lenth in m	Bed Width in m	Gradient	F.S.L. in m	Remarks
35	Koluvari Tank S. chl	1700	2.50	1/2000	0.30	
36	Rayapudukkuppam Tank S. chl	1500	4.00	1/2000	0.30	
37	Pulichapallam big Tank S. chl	2200	4.00	1/2000	0.45	
38	Pulichapallam Chitteri S. chl	750	4.00	1/2000	0.45	
39	Parikkalpattu Tank S. chl	750	4.00	1/2000	0.45	
40	Kattarampakkam tank S.chl	2000	4.00	1/2000	0.45	
		3000	5.00	1/2000	0.45	
41	Kolliyangunam tank S.chl	1200	3.00	1/2000	0.45	
42	Puthurai tank S.chl	800	3.00	1/2000	0.45	
43	Irumbai tank S.chl	500	4.00	1/2000	0.45	
44	Terkunam tank S.chl	2500	4.00	1/2000	0.60	
45	Perumukkal Tank	2290	3.00	1/1000	0.60	
46	Palamukkal Tank	1950	3.00	1 / 2000	0.45	
47	Peruavur Tank	2500	5.00	1 / 1500	0.90	
48	Nallavur Tank	2300	5.00	1 / 2000	0.90	
49	Aruvadai Tank	2500	2.00	1 / 1500	0.30	
50	Konjumangalam Tank	900	3.00	1 / 1500	0.45	
51	Anbakkam Tank	2000	5.00	1 / 2000	0.60	
52	Brammadesam Tank	2000	3.00	1 / 2000	0.60	
53	Nalmukkal Tank	1500	3.00	1 / 1500	0.30	
54	Vanniper Tank	1200	3.00	1 / 1500	0.30	
55	alanguppam Tank	2150	3.00	1 / 2000	0.45	
56	Endur Tank	2280	3.00	1 / 2000	0.45	
57	kilsiviri Tank	1000	3.00	1 / 2000	0.45	
58	Munnur Big Tank	1900	4.00	1 / 1500	0.90	

HYDRAULIC PARTICULARS OF ANICUTS

Sl.No	Name of Anicut (or) Dividing Dam	Length in M.	Body wall width	M.F.Lin M	No. of Dam Stone / Falling Shutter	Size of Dam Stone (or) Falling Shutter	Discharge in Cumecs	Size and Discharge		
								Head Sluice	Scour Vents	Total Discharge in Cumecs
1	Kondamur Anicut	119.90	1.90	1.20	33 Nos	Length 3.00m depth 0.60m	261.54	1 no 0.75 x 1.20	2 Nos 1.80 x 1.60	13.59 Cumecs
2	Omandur Dividing Dam	70.5	0.6	0.9	--	--	110.08	--	--	--
3	Annamputhur Dividing Dam	19.45	1	1.5	17	0.30 x 0.23 x 0.15	65.8	2 Nos	1 x1x2.75x2.50 1x2x2.20x3.30	33.13
4	Eraiyanur Dividing Dam	40.00	40.00	0.6	--	--	76.84	--	--	--

1.4 PARTICIPATORY IRRIGATION MANAGEMENT (PIM)

1.1 SALIENT FEATURES OF IMPLEMENTATION OF PIM IN NALLAVUR SUB-BASIN

1. **The Sub-Basin:** This is one of the Three sub-basins of the Vrahanadhi River Basin. Totally 94 irrigation tanks and 4 Anicuts under the control of Water Resources Organization (WRO) of Public Works Department (PWD) in this sub-basin. The list of Infrastructures covered with more details are furnished in the **Annexure -1**. These Infrastructures are located within the Sub-Basin's hydraulic boundary spread over 89 villages of 2 Taluks in Villupuram Districts. The Total Command area under these Infrastructures worksout to 8765.20 Ha. **(Anniexure1).**
2. **Command area :**

Under System Tanks	:	NIL
Under Non system tanks	:	8765.20 Ha
Anicuts	:	NIL
Total	:	8765.20 Hectare

3. **An Assessment of number of WUAs.**

i)	WUA's are formed already in WRCP	NIL
ii)	Associates proposed to be formed under IAMWARM Project covering 94 tanks, & 4 Anicuts in 89 Villages only.	85 Nos. (8765.20) Hectare.
iii)	The Total command area covered by the about (85) WUAs works out to 94 Tanks.	8765.20 Hectare.
iv)	More details about formation of WUA's in the Sub-Basin are made available in the Annexure-1	

4. **An account of "Awareness creation" among the farming community: Activities undertaken and "Walkthrough Survey" carried out :**

i) There are 94 Tanks & 4 Anicuts in the Sub-Basin spread over 89 villages as detailed out in Annexure – 01. All these Villages were visited by the WRO officials and awareness about various activities, contemplated under IAMWARM project has been created.

ii) Details of villages covered, walkthrough surveys conducted, farmers attended, list of works suggested by the farmers, list of works analyzed and finalized by WRO officials, are all furnished in the Annexure -02 and Annexure -03:

5. **Schedule for completion of delineation and preparation for WUA documents, comprising of :**

i) Form – I : Details to be notified by Districted Collectors (End of Feb -2009)

ii) Form – II : WUA document to be notified by District Collectors (End of May – 2009)

iii) Completion of preparatory works for the conduct of Elections for WUAs (End of June -2009)

6. **Schedule for conduct of Elections in the Sub-Basin for forming Management Committees (July – 2009)**

7. **Support Organization (SOs).**

   i) Initiating and completing the process of publishing EOI to hire Support Organisation at Sub-Basin level Feb'- 2009.

   ii) Short listing and Providing Request for Proposals (RFPs) p all the short listed agencies, and obtaining Technical and Cost Proposals April – 2009.

   iii) Selection and deployment of Support Organization to the Sub-Basin June – 2009.

8. Appointment and the Role of Competent Authorities:

i) Section 26 of the Tamil Nadu Farmer's Management of Irrigation Systems (TNFMIS) Act provides for the appointment of "Competent Authorities" to assist the respective Organiztion (WUA, Distributory Committee and Project Committee), in the Implementation and execution of all decisions taken by such farmers organization. Similarly, every farmer's organization shall extend such co-operation or assistance, as may be required by the competent Authority, for carrying out all the tasks related to implementation of TNFMIS Act.

ii) Appointment of Competent Authorities for the WUAs proposed to be formed under IAMWARM project is based on the "WRO section Officer wise" distribution as indicated below.

Name of the WRO Sub Divisional Officers working in the Nallavur Sub-Basin:

a. Special Project Sub – Division I. Tindivanam.
b. Special Project Sub Division II. Gingee.
c. Special Project Division, III. Gingee.

a.	Section Officer, WRD, Special Project Section 2. Sub Division. 1. Tindivanam.	WUAs 56 to 71
b.	Section Officer, WRD, Special Project Section 4 Sub Division. 2. Gingee.	WUAs 72 to 85
c.	Section Officer, WRD, Special Project Section 2. Sub Division. 2. Gingee.	WUAs 13 to 26
d.	Section Officer, WRD, Special Project Section 2. Sub Division. 2. Ginge.	WUAs 27 to 40
e.	Section Officer, WRD, Special Project Section 3. Sub Division. 2. Gingee.	WUAs 41 to 55
f.	Section Officer, WRD, Special Project Section 3. Sub Division. 2. Gingee.	WUAs 1 to 12

9. Involvement of farmers in the preparation "Scheme Modernization Plans".

i) Based on the outcome of the "Awareness Creation Programme" and walkthrough survey carried out with the involvement of farmers, a list of tasks proposed to be taken up for "Modernization" under IAMWARM Project was discussed with 304 Nos. of farmers from 89 Villages. The final list of tasks was also prepared and exhibited in the Notice Board of the Village Administrative Officers Office and Panchayat Office.

ii) During the meeting, the farmers present were also informed that soon after finalization of contract for carrying out "Modernization of Irrigation Systems" a "Notice Board" with the details about the nature of works, its cost, period of contract and Name of the contractor will all be fixed at the site of work, as well as the Executive Engineer of WRO, who has been designated as the Nodal Officer for the Sub-Basin concerned.

iii) The field Officers of WRO are all aware of the problems in handing over the operation and maintenance responsibilities to the farmers concerned, if the tasks as desired by the farmers in the command area are not included in the modernization of the system and also in case, some of the tasks already included and planned are not implemented due to some reasons or other.

iv) The WRO officers were also informed that they are personally responsible for handing over the irrigation systems, under IAMWARM Project.

10. Current status of Recovery of water charges :

i) An enquiry conduced with the “Village Administrative Officers” (VAOs) of randomly selected villages (15 Nos out of 89 Villages) located with in the Sub-Basin the normal water charges recovery as informed by the VAO, works out to 40-50% only, about the expected percentage of 80-90%.

ii) With the proposal to form new WUAs under IAMWARM in “Nallavur Sub-Basin” the Managing Committee will be trained to take up the responsibility of improving the water charges recovery percentage. These will be followed up, after completing the modernization tasks and handing over of the O & M responsibilities to WUAs.

11. “Capacity Building” of the WUA farmers:

i) The “Support Organization Group” will prepare “Training Modules” required for building the capacity of the WUA farmers, based on a “Training Needs” Analysis. They will also organize various “Capacity Building” programs at suitable locations within the Sub-Basin command area, to benefit the farmers of the WUAs in the Sub-Basin.

ii) The “Support Organization” will also arrange for organization the “Study Tours” both within and outside the state to enhance their knowledge and experiences which will help them to improve the crop productivity and there by the farmer’s income.

iii) The support Organization will also conduct necessary “Awareness programme” and impart training to educate the farmers of the WUAs in all aspects of the TNFMIS Act, TNFMS Rules and Election procedures for constituting the “Managing Committee” of the WUAs.

12. The “Component Authorities” appointed for the Sub-Basin will also be trained to effectively to interact with WUA farmers and maintain good report and relationship with the farming community in the Sub-Basin.

WALK THROUGH SURVEY

Sl No	Date	Location (Name of Village)	Name of Tank Visited	Name of Department	Formers request	Technical Solution	Proposed in the Plan	Remarks
1	2	3	4	5	6	7	8	9
1	7.10.2008	Kollar	Kollar Tank	WRO	Rehabilitation work in the tank bund, sluice, supply channels, Repairs to weir.	Demands raised by the farmers are essential	Rehabilitation work proposed in the proposal.	
2				Agriculture Department	Fertilizers recommendation, Government aid, and demonstration etc.,	Proposed for SRI	Yes Included in the proposal	
3				Horticulture Department	Hybrid seeds, Demo, Subsidy, plantation at free of cost etc.,	Proposed for area expansion	Yes Included in the proposal	
4				AGRI, ENGG	Farm implements, drip, sprinkler raised by farmer	Proposed for drip & Sprinkler	Yes Included in the proposal	
5				AGRI University	Demo, subsidy, plants by free of cost are the demands.	SRI Proposed	Yes Included in the proposal	
6				AGRI Marketing	Market building, storage Godown , drying yards are the demands	Commodity Group for SRI, Maize Proposed.	Yes Included in the proposal	
7				Animal Husbandry	Doctors regular visit, fodder crop, vaccination represented.	Artificial immunization Proposed .	Yes Included in the proposal	
8				Fisheries	--	--	--	

1	**10.10.2008**	**Koliangunam Omandur**	**Koliangunam Omandur**	WRO	Desilting the water spread area, lining the field channels, repairs to sluice & weir represented	Proposed to prepare detailed estimate for the relevant demands.	Yes Included in the proposal	
2				Agriculture Department	Subsidy details, plantation by free of cost inputs etc.,	Proposed for Demo, SRI, Maize.	Yes Included in the proposal	
3				Horticulture Department	Hybrid Plantation, vegetables. Pulses, Demo are raised by the farmers.	Proposed for area expansion for pulses, Maize.	Yes Included in the proposal	
4				AGRI, ENGG	Farm implements by free of cost, farm pond thrashing floor.	Proposed farm Pond.	Yes Included in the proposal	
5				AGRI University	Demo, subsidy, Hybrid plantation by free of cost.	Proposed Demo for Maize.	Yes Included in the proposal	
6				AGRI Marketing	Market building, storage Godown, shelter etc.,	Proposed for commodity group, formation and training.	Yes Included in the proposal	
7				Animal Husbandry	Sub centre, fodder, doctors regular visit etc.,	Proposed for fodder & Artificial Immunization.	Yes Included in the proposal	
8				Fisheries	--	--	--	

1	**13.10.2008**	**Jakkam Pettai Endiyur**	**Jakkam Pettai Endiyur**	WRO	Tank rehabilitation works, supply channel lining work, repairs to weir and sluice	Proposed to prepare detailed estimate for the relevant demands raised by the farmers.	Yes Included in the proposal	
2				Agriculture Department	Plant Protection, Fertilizers, inputs by free of cost etc.,	Proposed for Demo SRI, Pulses & Maize.	Yes Included in the proposal	
3				Horticulture Department	Hybrid varieties, subsidy, Demonstration etc.,	Area expansion for paddy, Vegetables etc.,	Yes Included in the proposal	
4				AGRI, ENGG	Farm implements by free of cost, farm pond, thrashing floor etc.,	Proposed farm Pond.	Yes Included in the proposal	
5				AGRI University	Demo, subsidy, hybrid plants by free of cost, Technical solution etc.,	Proposed for SRI.	Yes Included in the proposal	
6				AGRI Marketing	Market building.	Proposed for commodity group for Maize and pulses.	Yes Included in the proposal	
7				Animal Husbandry	Sub centre, fodder, Artificial immunization, Doctor regular visit etc.,	Proposed for fodder	Yes Included in the proposal	
8				Fisheries	Fish pond requested.	Proposed for farm bond.	Yes Included in the proposal	

1	**14.10.2008**	**Bramma desam**	**Bramma desam**	WRO	Tank rehabilitation works, repairs to sluice and weirs, field channel lining etc.,	Proposed to prepare detailed estimate for the relevant demands.	Yes Included in the proposal	
2				Agriculture Department	Bio- Chemicals, Plant Protection recommendations, inputs by free of cost etc.,	Proposed for Demo.	Yes Included in the proposal	
3				Horticulture Department	Hybrid seeds, Demo plant visit etc.,	Proposed for area expansion pulses and maize.	Yes Included in the proposal	
4				AGRI, ENGG	Farm implements by free of cost, drip & sprinkler subsidy etc.,	Proposed for drip and sprinkler and Rotovators.	Yes Included in the proposal	
5				AGRI University	Hybrid seeds, Demo, subsidy etc.,	Proposed for precision forming.	Yes Included in the proposal	
6				AGRI Marketing	Market building , Demo	Proposed for Demo and training.	Yes Included in the proposal	
7				Animal Husbandry	Regular visit by Doctor, fodder etc.,	Proposed for fodder	Yes Included in the proposal	
8				Fisheries	Fish culture in the tanks, fishing in the farm ponds.	Form ponds Proposed .	Yes Included in the proposal	

1	**17.10.2008**	**Kilianur**	**Killianur Big Tak and Small tank Kiliyanur pudu eri**	WRO	Tank rehabilitation works, Shutter arrangement for sluices, field lining and supply channel protection walls.	Proposed to prepare detailed estimate for the relevant demands.	Yes Included in the proposal	
2				Agriculture Department	Subsidy, inputs by free of cost SRI etc.,	SRI Demo.	Yes Included in the proposal	
3				Horticulture Department	Hybrid Plants for vegetables and pulses demo etc.,	Proposed for area expansion.	Yes Included in the proposal	
4				AGRI, ENGG	Lining improvement, drip, sprinkler, farm implements etc.,	Proposed for drip and sprinkler and Rotovators etc.,	Yes Included in the proposal	
5				AGRI University	Demo, subsidy etc.,	Precision forming Proposed.	Yes Included in the proposal	
6				AGRI Marketing	Market building , Go down etc.,	Commodity Group Proposed.	Yes Included in the proposal	
7				Animal Husbandry	Subcentre Regular visit by Doctor etc.,	Proposed for fodder and artificial immunization.	Yes Included in the proposal	
8				Fisheries	Farm ponds.	Proposed for Form bonds.	Yes Included in the proposal	

1	**20.10.2008**	**Vanur**	**Vanur**	WRO	Tank rehabilitation works, sluices repair, field channel lining and Shutter arrangements.	Proposed for Rehabilitation works.	Yes Included in the proposal	
2				Agriculture Department	Subsidy, inputs by free of cost, SRI etc.,	Proposed Demo for SRI, Pulses, Maize.	Yes Included in the proposal	
3				Horticulture Department	Hybrid Fruits, minimum water required cultivation plants and method etc.,	Proposed for area expansion.	Yes Included in the proposal	
4				AGRI, ENGG	Farm implements by free of cost, farm pond etc.,	Proposed for drip and sprinkler and form ponds.	Yes Included in the proposal	
5				AGRI University	Demo, subsidy etc.,	SRI Proposed.	Yes Included in the proposal	
6				AGRI Marketing	Market building.	Proposed for Commodity Group	Yes Included in the proposal	
7				Animal Husbandry	Doctor Regular visit, Vaccination, fodder etc.,	Proposed for fodder and Vaccination.	Yes Included in the proposal	
8				Fisheries	Farm ponds.	Proposed for Frm bonds.	Yes Included in the proposal	

1	**21.10.2008**	**Nallavur Thailapuram**	**Nallavur Thailapuram**	WRO	Desilting the water spread area, lining the field channels, repairs to sluice & weir represented	Proposed to prepare detailed estimate for the relevant demands.	Yes Included in the proposal		
2				Agriculture Department	Subsidy details, plantation by free of cost inputs etc.,	Proposed for Demo, SRI, Maize.	Yes Included in the proposal		
3				Horticulture Department	Hybrid Plantation, vegetables. Pulses, Demo are raised by the farmers.	Proposed for area expansion for pulses, Maize.	Yes Included in the proposal		
4				AGRI, ENGG	Farm implements by free of cost, farm pond thrashing floor.	Proposed farm Pond.	Yes Included in the proposal		
5				AGRI University	Demo, subsidy, Hybrid plantation by free of cost.	Proposed Demo for Maize.	Yes Included in the proposal		
6				AGRI Marketing	Market building, storage Godown, shelter etc.,	Proposed for commodity group, formation and training.	Yes Included in the proposal		
7				Animal Husbandry	Subcentre, fodder, doctors regular visit etc.,	Proposed for fodder & Artificial Immunization.	Yes Included in the proposal		
8				Fisheries	--	--	Yes Included in the proposal		

1	**22.10.2008**	**Anumanthai**	**Anumanthai**	WRO	Tank rehabilitation works, supply channel lining work, repairs to weir and sluice	Proposed to prepare detailed estimate for the relevant demands raised by the farmers.	Yes Included in the proposal	
2				Agriculture Department	Plant Protection, Fertilizers, inputs by free of cost etc.,	Proposed for Demo SRI, Pulses & Maize.	Yes Included in the proposal	
3				Horticulture Department	Hybrid varieties, subsidy, Demonstration etc.,	Area expansion for paddy, Vegetables etc.,	Yes Included in the proposal	
4				AGRI, ENGG	Farm implements by free of cost, farm pond, thrashing floor etc.,	Proposed farm Pond.	Yes Included in the proposal	
5				AGRI University	Demo, subsidy, hybrid plants by free of cost, Technical solution etc.,	Proposed for SRI.	Yes Included in the proposal	
6				AGRI Marketing	Market building	Proposed for commodity group for Maize and pulses.	Yes Included in the proposal	
7				Animal Husbandry	Sub centre, fodder, Artificial immunization, Doctor regular visit etc.,	Proposed for fodder	Yes Included in the proposal	
8				Fisheries	Fish pond requested.	Proposed for farm bond.	Yes Included in the proposal	

1	**23.10.2008**	**Pulicha pallam**	**Pulicha pallam**	WRO	Tank rehabilitation works, repairs to sluice and weirs, field channel lining etc.,	Proposed to prepare detailed estimate for the relevant demands.	Yes Included in the proposal	
2				Agriculture Department	Bio- Chemicals, Plant Protection recommendations, inputs by free of cost etc.,	Proposed for Demo.	Yes Included in the proposal	
3				Horticulture Department	Hybrid seeds, Demo plant visit etc.,	Proposed for area expansion pulses and maize.	Yes Included in the proposal	
4				AGRI, ENGG	Farm implements by free of cost, drip & sprinkler subsidy etc.,	Proposed for drip and sprinkler and Rotovators.	Yes Included in the proposal	
5				AGRI University	Hybrid seeds, Demo, subsidy etc.,	Proposed for precision forming.	Yes Included in the proposal	
6				AGRI Marketing	Market building , Demo	Proposed for Demo and training.	Yes Included in the proposal	
7				Animal Husbandry	Regular visit by Doctor, fodder etc.,	Proposed for fodder	Yes Included in the proposal	
8				Fisheries	Fish culture in the tanks, fishing in the farm ponds.	Form ponds Proposed .	Yes Included in the proposal	

1	**3.2.2009**	**Parikkalpattu**	**Parikkalpattu**	WRO	Tank rehabilitation works, repairs to sluice and weirs, field channel lining etc.,	Proposed to prepare detailed estimate for the relevant demands.	Yes Included in the proposal	
2				Agriculture Department	Bio- Chemicals, Plant Protection recommendations, inputs by free of cost etc.,	Proposed for Demo.	Yes Included in the proposal	
3				Horticulture Department	Hybrid seeds, Demo plant visit etc.,	Proposed for area expansion pulses and maize.	Yes Included in the proposal	
4				AGRI, ENGG	Farm implements by free of cost, drip & sprinkler subsidy etc.,	Proposed for drip and sprinkler and Rotovators.	Yes Included in the proposal	
5				AGRI University	Hybrid seeds, Demo, subsidy etc.,	Proposed for precision forming.	Yes Included in the proposal	
6				AGRI Marketing	Market building , Demo	Proposed for Demo and training.	Yes Included in the proposal	
7				Animal Husbandry	Regular visit by Doctor, fodder etc.,	Proposed for fodder	Yes Included in the proposal	
8				Fisheries	Fish culture in the tanks, fishing in the farm ponds.	Form ponds Proposed .	Yes Included in the proposal	

1	**5.2.2009**	**Kovadi, Kattalai**	**Kovadi, Kattalai**	WRO	Tank rehabilitation works, repairs to sluice and weirs, field channel lining etc.,	Proposed to prepare detailed estimate for the relevant demands.	Yes Included in the proposal	
2				Agriculture Department	Bio- Chemicals, Plant Protection recommendations, inputs by free of cost etc.,	Proposed for Demo.	Yes Included in the proposal	
3				Horticulture Department	Hybrid seeds, Demo plant visit etc.,	Proposed for area expansion pulses and maize.	Yes Included in the proposal	
4				AGRI, ENGG	Farm implements by free of cost, drip & sprinkler subsidy etc.,	Proposed for drip and sprinkler and Rotovators.	Yes Included in the proposal	
5				AGRI University	Hybrid seeds, Demo, subsidy etc.,	Proposed for precision forming.	Yes Included in the proposal	
6				AGRI Marketing	Market building , Demo	Proposed for Demo and training.	Yes Included in the proposal	
7				Animal Husbandry	Regular visit by Doctor, fodder etc.,	Proposed for fodder	Yes Included in the proposal	
8				Fisheries	Fish culture in the tanks, fishing in the farm ponds.	Form ponds Proposed .	Yes Included in the proposal	

1	**6.2.2009**	**Kolliyangunam T. Kanipattu**	**Kolliyangunam T. Kanipattu**	WRO	Tank rehabilitation works, repairs to sluice and weirs, field channel lining etc.,	Proposed to prepare detailed estimate for the relevant demands.	Yes Included in the proposal	
2				Agriculture Department	Bio- Chemicals, Plant Protection recommendations, inputs by free of cost etc.,	Proposed for Demo.	Yes Included in the proposal	
3				Horticulture Department	Hybrid seeds, Demo plant visit etc.,	Proposed for area expansion pulses and maize.	Yes Included in the proposal	
4				AGRI, ENGG	Farm implements by free of cost, drip & sprinkler subsidy etc.,	Proposed for drip and sprinkler and Rotovators.	Yes Included in the proposal	
5				AGRI University	Hybrid seeds, Demo, subsidy etc.,	Proposed for precision forming.	Yes Included in the proposal	
6				AGRI Marketing	Market building , Demo	Proposed for Demo and training.	Yes Included in the proposal	
7				Animal Husbandry	Regular visit by Doctor, fodder etc.,	Proposed for fodder	Yes Included in the proposal	
8				Fisheries	Fish culture in the tanks, fishing in the farm ponds.	Form ponds Proposed .	Yes Included in the proposal	

Details of WUA Proposed in Nallavur Sub Basin (NSB)

Sl. No	WUA	Blocks and Villages it covers	Name of WUA	Ayacut area in Ha
I		**Olakkur Block**		
1	NSB 1	Venmaniyathur	Venmaniyathur Tank WUA	46.47
2	NSB 2	Pattanam	Pattanam Tank WUA	79.98
			Total	**126.45**
II		**Mailam Tank**		
3	NSB 3	Agoor	Agoor Big Tank WUA	61.06
4	NSB 4	Pampundi	Pampundi Big Tank WUA	60.75
5	NSB 5	Salai	Salai Tank WUA	41.95
6	NSB 6	Kollar	Kollar Tank WUA	106.27
7	NSB 7	Vempoondi	Vempoondi Tank WUA	84.96
8	NSB 8	Kallakolathur&veliyanur	Kallakolathur Hissa Tank WUA	167.19
9	NSB 9	Kolliyankunam	Kolliyankunam Big & Chitteri Tank WUA	96.22
10	NSB 10	Peramandur	peramandur Tank WUA	130.71
11	NSB 11	T. Kenipattu	T. Kenipattu Tank WUA	46.14
			Total	**795.25**
III		**Marakanam Block**		
12	NSB 12	Kidangal	Kidangal Tank WUA	394.54
13	NSB 13	Kaveri pakkam	Kaveripakkam Tank WUA	53.57
14	NSB 14	Eraiyanur	Eraiyanur Tank WUA	60.97
15	NSB 15	Annamputhur	Annamputhur Tank WUA	127.87
16	NSB 16	Omandur	Omandur Tank WUA	84.63
17	NSB 17	Kilchittamur	Kilchittamur Tank WUA	65.58
18	NSB 18	Vengai	Vengai Tank WUA	65.02
19	NSB 19	KilEdayalam	KilEdayalam Tank WUA	172.34

20	NSB 20	Jakkampettai	Jakkampettai Big & Chitteri Tank WUA	158.05
21	NSB 21	Karnavur	Karnavur Big & Chitteri Tank WUA	168.42
22	NSB 22	singanur	Singanur Big & Chitteri Tank WUA	131.27
23	NSB 23	Thenkalavai	Thenkalavai Tank WUA	65.65
24	NSB 24	Thenpasiyar	Thenpasiyar Tank WUA	101.78
25	NSB 25	vittalapuram	Vittralapuram Tank WUA	127.12
26	NSB 26	Attur	Attur Tank WUA	119.02
27	NSB 27	Molasur	Molasur Tank WUA	107.75
28	NSB 28	Endiyur	Endiyur Big Tank WUA	41.47
29	NSB 29	Elavalapakkam & Ten Nerkunam	Elvalapakkam Hissa Tank WUA	99.10
30	NSB 30	Kovadi	Kovadi Tank WUA	61.21
31	NSB 31	Kattalai	Kattalai Tank WUA	77.14
32	NSB 32	Perumukkal	Perumukkal Tank WUA	131.53
33	NSB 33	Palamukkal	Palamukkal Tank WUA	70.47
34	NSB 34	Kilsiviri	Kilsiviri Tank WUA	56.96
35	NSB 35	T. Nallalam	T. Nallalam Tank WUA	74.97
36	NSB 36	Nalmukkal	Nalmukkal Tank WUA	47.73
37	NSB 37	Brammadesam	Brammadesam Tank WUA	113.75
38	NSB 38	Vanniper	Vanniper Tank WUA	63.67
39	NSB 39	Kurur	kurur Big & Chitteri Tank WUA	44.90
40	NSB 40	Alankuppam	Alakuppam Tank WUA	106.93
41	NSB 41	Endur	Endur Tank WUA	81.59
42	NSB 42	Munnur	Munnur Big & Chitteri Tank WUA	249.40
43	NSB 43	Kulathur	Kulathur Tank WUA	90.17
44	NSB 44	Adavallikuttan	Adavallikuttan Tank WUA	47.02
45	NSB 45	Omipper	Omipper Tank WUA	60.12
46	NSB 46	chittanapakkam	Chittanapakkam Tank WUA	48.98
47	NSB 47	Thirukkanur	Thirukkanur Tank WUA	41.27
48	NSB 48	Urani	Urani mangalatha Eri WUA	45.42

49	NSB 49	Anumandhai	Anumandhai Kar Eri & Vanji Kuttai Tank WUA	107.59
50	NSB 50	Kunimedu	Kunimedu Tank WUA	55.55
51	NSB 51	Nallavur	Nallavur Tank WUA	151.38
			Total	**3971.89**
IV		**Vanur Block**		
52	NSB 52	Thenkodipakkam	Thenkodipakkam Tank WUA	64.04
53	NSB 53	Perumbakkam	Perumpakkam Tank WUA	97.16
54	NSB 54	Parikkal pattu	Parikkalpattu Tank WUA	59.38
55	NSB 55	Adanapattu	Adanapattu Tank WUA	82.99
56	NSB 56	Thensiruvalur & Adhanapattu	Thensiruvalur Hissa Tank WUA	167.46
57	NSB 57	Terkunam	Terkunam Tank WUA	100.83
58	NSB 58	Kondamur	Kondamur Tank WUA	108.99
59	NSB 59	Kiliyanur	Kiliyanur Big - Small and Pudu Eri Tank WUA	394.87
60	NSB 60	Kunnam	Kunnam Tank WUA	40.60
61	NSB 61	Semangalam &elavampattu	Semangalam Tank WUA	131.22
62	NSB 62	Putturai	Putturai Tank WUA	95.95
63	NSB 63	Vanur	Vanur Big & Small Tank WUA	165.01
64	NSB 64	Pulichapallam	Pulichappalam Big & Chitteri Tank WUA	133.95
65	NSB 65	Kattaram Pakkam	Kattaram Pakkam Tank WUA	52.05
66	NSB 66	Olundiyapattu	Olundiyapattu Tank WUA	120.79
67	NSB 67	Anbakkam	Anbakkam Tank WUA	194.15
68	NSB 68	Peravur	Peravur Tank WUA	144.80
69	NSB 69	Ulagapuram	Ulagapuram Perumal Eri & Nagal Eri WUA	169.25
70	NSB 70	T. Parangani	T.Parangani Tank WUA	67.42
71	NSB 71	Irumbai	Irumbai Tank WUA	57.50
72	NSB 72	Rayapudupakkam	Rayapudupakkam Tank WUA	48.04
73	NSB 73	Raya ottai	Raya ottai Tank WUA	86.20
74	NSB 74	Kodur	Kodur Tank WUA	116.80
75	NSB 75	Nesal	Nesal Big Tank WUA	70.00

76	NSB 76	Karattai	karattai Big Tank WUA	48.17
77	NSB 77	Aruvadai	Aruvadai Tank WUA	83.28
78	NSB 78	Konjumangalam	Konjumangalam Tank WUA	78.85
79	NSB 79	Koluvari	Koluvari Tank WUA	55.46
80	NSB 80	Kaluperumpakkam	Kaluperumpakkam Tank WUA	54.54
81	NSB 81	Tailapuram	Tailapuram Tank WUA	132.41
82	NSB 82	Thenagaram	Thenagaram Tank WUA	81.46
83	NSB 83	Vilvanatham	Vilvanatham Big & Chitteri Tank WUA	99.18
84	NSB 84	Devanandal	Devanandal Tank WUA	43.89
85	NSB 85	Pudukuppam, Edacheri, Uppu Velur	Pudukkupam Hissa Tank WUA	424.93
			Total	**3871.61**
			Grand Total	**8765.20**

Annexure: 1

AN ASSESSMENT OF COMMAND AREA AND WUAs UNDER THE CONTROL OF WRO OF PWD IN NALLAVUR SUB - BASIN

WUA No	Name of Irrigation Systems and Tanks	Command Area in (Ha)	Location of the Command Area			Coverage of Command area under different projects (Ha)		Status of formation of WUAs in the Sub-Basin	
			Villages	Taluk	District	WRCP and Others	IAMWARM	Formed under WRCP	To be formed under IAMWARM
NSB 1	Venmaniyathur Tank WUA	46.47	Venmaniyathur	Tindivanam	Villupuram	---	46.47	---	Yes
NSB 2	Pattanam Tank WUA	79.98	Pattanam	Tindivanam	Villupuram	---	79.98	---	Yes
NSB 3	Agoor Big Tank WUA	61.06	Agoor	Tindivanam	Villupuram	---	61.06	---	Yes
NSB 4	Pampundi Big Tank WUA	60.75	Pampundi	Tindivanam	Villupuram	---	60.75	---	Yes
NSB 5	Salai Tank WUA	41.95	Salai	Tindivanam	Villupuram	---	41.95	---	Yes
NSB 6	Kollar Tank WUA	106.27	Kollar	Tindivanam	Villupuram	---	106.27	---	Yes
NSB 7	Vempoondi Tank WUA	84.96	Vempoondi	Tindivanam	Villupuram	---	84.96	---	Yes
NSB 8	Kallakolathur Hissa Tank WUA	167.19	Kallakolathur&veliyanur	Tindivanam	Villupuram	---	167.19	---	Yes
NSB 9	Kolliyankunam Big & Chitteri Tank WUA	96.22	Kolliyankunam	Tindivanam	Villupuram	---	96.22	---	Yes
NSB 10	peramandur Tank WUA	130.71	Peramandur	Tindivanam	Villupuram	---	130.71	---	Yes
NSB 11	T. Kenipattu Tank WUA	46.14	T. Kenipattu	Tindivanam	Villupuram	---	46.14	---	Yes

NSB 12	Kidangal Tank WUA	394.54	Kidangal	Tindivanam	Villupuram	---	394.54	---	Yes
NSB 13	Kaveripakkam Tank WUA	53.57	Kaveri pakkam	Tindivanam	Villupuram	---	53.57	---	Yes
NSB 14	Eraiyanur Tank WUA	60.97	Eraiyanur	Tindivanam	Villupuram	---	60.97	---	Yes
NSB 15	Annamputhur Tank WUA	127.87	Annamputhur	Tindivanam	Villupuram	---	127.87	---	Yes
NSB 16	Omandur Tank WUA	84.63	Omandur	Tindivanam	Villupuram	---	84.63	---	Yes
NSB 17	Kilchittamur Tank WUA	65.58	Kilchittamur	Tindivanam	Villupuram	---	65.58	---	Yes
NSB 18	Vengai Tank WUA	65.02	Vengai	Tindivanam	Villupuram	---	65.02	---	Yes
NSB 19	KilEdayalam Tank WUA	172.34	KilEdayalam	Tindivanam	Villupuram	---	172.34	---	Yes
NSB 20	Jakkampettai Big & Chitteri Tank WUA	158.05	Jakkampettai	Tindivanam	Villupuram	---	158.05	---	Yes
NSB 21	Karnavur Big & Chitteri Tank WUA	168.42	Karnavur	Tindivanam	Villupuram	---	168.42	---	Yes
NSB 22	Singanur Big & Chitteri Tank WUA	131.27	singanur	Tindivanam	Villupuram	---	131.27	---	Yes
NSB 23	Thenkalavai Tank WUA	65.65	Thenkalavai	Tindivanam	Villupuram	---	65.65	---	Yes
NSB 24	Thenpasiyar Tank WUA	101.78	Thenpasiyar	Tindivanam	Villupuram	---	101.78	---	Yes
NSB 25	Vittralapuram Tank WUA	127.12	vittalapuram	Tindivanam	Villupuram	---	127.12	---	Yes
NSB 26	Attur Tank WUA	119.02	Attur	Tindivanam	Villupuram	---	119.02	---	Yes
NSB 27	Molasur Tank WUA	107.75	Molasur	Tindivanam	Villupuram	---	107.75	---	Yes
NSB 28	Endiyur Big Tank WUA	41.47	Endiyur	Tindivanam	Villupuram	---	41.47	---	Yes
NSB 29	Elvalapakkam Hissa Tank WUA	99.10	Elavalapakkam & TenNerkunam	Tindivanam	Villupuram	---	99.10	---	Yes
NSB 30	Kovadi Tank WUA	61.21	Kovadi	Tindivanam	Villupuram	---	61.21	---	Yes
NSB 31	Kattalai Tank WUA	77.14	Kattalai	Tindivanam	Villupuram	---	77.14	---	Yes
NSB 32	Perumukkal Tank WUA	131.53	Perumukkal	Tindivanam	Villupuram	---	131.53	---	Yes
NSB 33	Palamukkal Tank WUA	70.47	Palamukkal	Tindivanam	Villupuram	---	70.47	---	Yes
NSB 34	Kilsiviri Tank WUA	56.96	Kilsiviri	Tindivanam	Villupuram	---	56.96	---	Yes
NSB 35	T. Nallalam Tank WUA	74.97	T. Nallalam	Tindivanam	Villupuram	---	74.97	---	Yes

NSB 36	Nalmukkal Tank WUA	47.73	Nalmukkal	Tindivanam	Villupuram	---	47.73	---	Yes
NSB 37	Brammadesam Tank WUA	113.75	Brammadesam	Tindivanam	Villupuram	---	113.75	---	Yes
NSB 38	Vanniper Tank WUA	63.67	Vanniper	Tindivanam	Villupuram	---	63.67	---	Yes
NSB 39	kurur Big & Chitteri Tank WUA	44.90	Kurur	Tindivanam	Villupuram	---	44.90	---	Yes
NSB 40	Alakuppam Tank WUA	106.93	Alankuppam	Tindivanam	Villupuram	---	106.93	---	Yes
NSB 41	Endur Tank WUA	81.59	Endur	Tindivanam	Villupuram	---	81.59	---	Yes
NSB 42	Munnur Big & Chitteri Tank WUA	249.40	Munnur	Tindivanam	Villupuram	---	249.40	---	Yes
NSB 43	Kulathur Tank WUA	90.17	Kulathur	Tindivanam	Villupuram	---	90.17	---	Yes
NSB 44	Adavallikuttan Tank WUA	47.02	Adavallikuttan	Tindivanam	Villupuram	---	47.02	---	Yes
NSB 45	Omipper Tank WUA	60.12	Omipper	Tindivanam	Villupuram	---	60.12	---	Yes
NSB 46	Chittanapakkam Tank WUA	48.98	chittanapakkam	Tindivanam	Villupuram	---	48.98	---	Yes
NSB 47	Thirukkanur Tank WUA	41.27	Thirukkanur	Tindivanam	Villupuram	---	41.27	---	Yes
NSB 48	Urani mangalatha Eri WUA	45.42	Urani	Tindivanam	Villupuram	---	45.42	---	Yes
NSB 49	Anumandhai Kar Eri & Vanji Kuttai Tank WUA	107.59	Anumandhai	Tindivanam	Villupuram	---	107.59	---	Yes
NSB 50	Kunimedu Tank WUA	55.55	Kunimedu	Tindivanam	Villupuram	---	55.55	---	Yes
NSB 51	Nallavur Tank WUA	151.38	Nallavur	Tindivanam	Villupuram	---	151.38	---	Yes
NSB 52	Thenkodipakkam Tank WUA	64.04	Thenkodipakkam	Tindivanam	Villupuram	---	64.04	---	Yes
NSB 53	Perumpakkam Tank WUA	97.16	Perumbakkam	Tindivanam	Villupuram	---	97.16	---	Yes
NSB 54	Parikkalpattu Tank WUA	59.38	Parikkal pattu	Tindivanam	Villupuram	---	59.38	---	Yes
NSB 55	Adanapattu Tank WUA	82.99	Adanapattu	Tindivanam	Villupuram	---	82.99	---	Yes
NSB 56	Thensiruvalur Hissa Tank WUA	167.46	Thensiruvalur & Adhanapattu	Tindivanam	Villupuram	---	167.46	---	Yes
NSB 57	Terkunam Tank WUA	100.83	Terkunam	Tindivanam	Villupuram	---	100.83	---	Yes
NSB 58	Kondamur Tank WUA	108.99	Kondamur	Tindivanam	Villupuram	---	108.99	---	Yes
NSB 59	Kiliyanur Big - Small and Pudu Eri Tank WUA	394.87	Kiliyanur	Tindivanam	Villupuram	---	394.87	---	Yes

NSB 60	Kunnam Tank WUA	40.60	Kunnam	Tindivanam	Villupuram	---	40.60	---	Yes
NSB 61	Semangalam Tank WUA	131.22	Semangalam &elavampattu	Tindivanam	Villupuram	---	131.22	---	Yes
NSB 62	Putturai Tank WUA	95.95	Putturai	Tindivanam	Villupuram	---	95.95	---	Yes
NSB 63	Vanur Big & Small Tank WUA	165.01	Vanur	Tindivanam	Villupuram	---	165.01	---	Yes
NSB 64	Pulichappalam Big & Chitteri Tank WUA	133.95	Pulichapallam	Tindivanam	Villupuram	---	133.95	---	Yes
NSB 65	Kattaram Pakkam Tank WUA	52.05	Kattaram Pakkam	Tindivanam	Villupuram	---	52.05	---	Yes
NSB 66	Olundiyapattu Tank WUA	120.79	Olundiyapattu	Tindivanam	Villupuram	---	120.79	---	Yes
NSB 67	Anbakkam Tank WUA	194.15	Anbakkam	Tindivanam	Villupuram	---	194.15	---	Yes
NSB 68	Peravur Tank WUA	144.79	Peravur	Tindivanam	Villupuram	---	144.79	---	Yes
B 69	Ulagapuram Perumal Eri & Nagal Eri WUA	169.25	Ulagapuram	Tindivanam	Villupuram	---	169.25	---	Yes
NSB 70	T.Parangani Tank WUA	67.42	T. Parangani	Tindivanam	Villupuram	---	67.42	---	Yes
NSB 71	Irumbai Tank WUA	57.50	Irumbai	Tindivanam	Villupuram	---	57.50	---	Yes
NSB 72	Rayapudupakkam Tank WUA	48.04	Rayapudupakkam	Tindivanam	Villupuram	---	48.04	---	Yes
NSB 73	Raya ottai Tank WUA	86.20	Raya ottai	Tindivanam	Villupuram	---	86.20	---	Yes
NSB 74	Kodur Tank WUA	116.80	Kodur	Tindivanam	Villupuram	---	116.80	---	Yes
NSB 75	Nesal Big Tank WUA	70.00	Nesal	Tindivanam	Villupuram	---	70.00	---	Yes
NSB 76	karattai Big Tank WUA	48.17	Karattai	Tindivanam	Villupuram	---	48.17	---	Yes
NSB 77	Aruvadai Tank WUA	83.28	Aruvadai	Tindivanam	Villupuram	---	83.28	---	Yes
NSB 78	Konjumangalam Tank WUA	78.85	Konjumangalam	Tindivanam	Villupuram	---	78.85	---	Yes
NSB 79	Koluvari Tank WUA	55.46	Koluvari	Tindivanam	Villupuram	---	55.46	---	Yes
NSB 80	Kaluperumpakkam Tank WUA	54.54	Kaluperumpakkam	Tindivanam	Villupuram	---	54.54	---	Yes
NSB 81	Tailapuram Tank WUA	132.41	Tailapuram	Tindivanam	Villupuram	---	132.41	---	Yes
NSB 82	Thenagaram Tank WUA	81.46	Thenagaram	Tindivanam	Villupuram	---	81.46	---	Yes
NSB 83	Vilvanatham Big & Chitteri Tank WUA	99.18	Vilvanatham	Tindivanam	Villupuram	---	99.18	---	Yes

NSB 84	Devanandal Tank WUA	43.89	Devanandal	Tindivanam	Villupuram	---	43.89	---	Yes
NSB 85	Pudukkupam Hissa Tank WUA	424.93	Pudukuppam, Edacheri, Uppu Velur	Tindivanam	Villupuram	---	424.93	---	Yes
		8765.20					**8765.20**		

ABSTRACT

1	Command Area already covered under WRCP and other Project / Schemes	Nil
2	Command Area proposed to be covered under IAMWARM Project	8765.20 Hectares
3	Total command area controlled by WRO of PWD in the Sub Basin	8765.20 Hectares
4	Total No. of WUAs already formed under WRCP	Nil
5	Total No. of WUAs proposed to be formed under IAMWARM	85 Nos.
6	Total No. of WUAs that will cover the entire Sub-Basin	85 Nos.

NALLAVUR SUB BASIN
Annexure-2

DETAILS OF "AWARNESS CREATION ACTIVITIES AND WALK THROUGH SURVEY"

Sl. No	Date of visit	Name of the Village Visited	Awareness programme (No.of Farmer's Attended)	Walk through Survey (No.of Farmer's Participated)	Remarks
1	07.10.2008	Kollar	**25**	**16**	
2	10.10.2008	Kolliyankunam	**10**	**14**	
3	10.10.2008	Omandur	**12**	**18**	
4	13.10.2008	Jakkam pettai	**37**	**24**	
5	13.10.2008	Endiyur	**43**	**30**	
6	14.10.2008	Brammadesam	**24**	**15**	
7	17.10.2008	Kiliyanur	**13**	**6**	
8	20.10.2008	Vanur	**15**	**14**	
9	21.10.2008	Nallavur	**31**	**21**	
10	21.10.2008	Taila Puram	**16**	**10**	
11	22.10.2008	Anumandai	**16**	**9**	
12	23.10.2008 & 3.2.2009	Pulichapallam	**4** **12**	**7** **12**	

13	3.2.2009	Parikkal Pattu	**8**	**8**	
14	05.02.2009	Kovadi	**18**	**15**	
15	05.02.2009	Kattalai	**7**	**6**	
16	06.02.2009	T. Kenipattu	**37**	**20**	

Annexure-03

Details of Modernization works as suggested by the farmers and as finalized by the officials of WRO

Sl. No	Date of Visit	Names of the Villages Visited	Outcome of Walk through survey and discussions with farmers	
			Works Suggested by Farmers	Works finalized by WRO Officials
1	07-10-2008	Kollar	Rehabilitation work in the tank bund, sluice, supply channels, Repairs to weir.	Demands raised by the farmers are essential
2.	10.10.2008	Kolliyankunam, Omandur	Desilting the water spread area, lining the field channels, repairs to sluice & weir represented	Proposed to prepare detailed estimate for the relevant demands.
3.	13.10.2008	Jakkampettai, Endiyur	Tank rehabilitation works, supply channel lining work, repairs to weir and sluice	Proposed to prepare detailed estimate for the relevant demands raised by the farmers.
4.	14.10.2008	Brammadesam	Tank rehabilitation works, repairs to sluice and weirs, field channel lining etc.,	Proposed to prepare detailed estimate for the relevant demands.

5.	17.10.2008	Kiliyanur	Tank rehabilitation works, Shutter arrangement for sluices, field lining and supply channel protection walls.	Proposed to prepare detailed estimate for the relevant demands.
6.	20.10.2008	Vanur	Tank rehabilitation works, sluices repair, field channel lining and Shutter arrangements.	Proposed for Rehabilitation works.

7.	21.10.2008	Nallavur, Thailapuram	Desilting the water spread area, lining the field channels, repairs to sluice & weir represented	Proposed to prepare detailed estimate for the relevant demands.
8.	22.10.2008	Anumandai	Tank rehabilitation works, supply channel lining work, repairs to weir and sluice	Proposed to prepare detailed estimate for the relevant demands raised by the farmers.
9.	23.10.2008	Pulicha Pallam	Tank rehabilitation works,	Proposed to prepare

			repairs to sluice and weirs, field channel lining etc.,	detailed estimate for the relevant demands.
10.	3.2.2009	Parikkal Pattu	Tank rehabilitation works, repairs to sluice and weirs, field channel lining etc.,	Proposed to prepare detailed estimate for the relevant demands.
11.	5.2.2009	Kovadi, Kattalai	Tank rehabilitation works, repairs to sluice and weirs, field channel lining etc.,	Proposed to prepare detailed estimate for the relevant demands.
12.	6.2.2009	Kolliyankunam, T. Kenipattu	Tank rehabilitation works, repairs to sluice and weirs, field channel lining etc.,	Proposed to prepare detailed estimate for the relevant demands.

1.5 IRRIGATION INFRASTRUCTURE

LIST OF ANICUTS

Sl. No.	District	Taluk	Block	Village	Name of the Anicuts
1	2	3	4	5	6
1	Villupuram	Tindivanam	Marakanam	Eraiyanur	Eraiyanur dividing dam
2				Annampudur	Annampudur Dividing dam
3				Omandur	Omandur dividing dam
4		Vanur	Vanur	Kondamur	Kondamur
5				Peravur	Peravur

List of Tanks(Non System)

Tank No/ Anicuts	Name of Tank	Ayacut area in Ha
1	Venmaniyathur Tank	46.47
2	Pattanam Tank	79.98
3	Agoor Big Tank	61.06
4	Pampundi Big Tank	60.75
5	Salai Tank	41.95
6	Kollar Tank	106.27
7	Vempoondi Tank	84.96
8	Kallakolathur Hissa Tank	167.19
9	Kolliyankunam Big & Chitteri Tank	96.22
10	peramandur Tank	130.71
11	T. Kenipattu Tank	46.14
12	Kidangal Tank	394.54
13	Kaveripakkam Tank	53.57
14	Eraiyanur Tank	60.97
15	Annamputhur Tank	127.865
16	Omandur Tank	84.63
17	Kilchittamur Tank	65.58
18	Vengai Tank	65.02
19	KilEdayalam Tank	172.34
20	Jakkampettai Big Tank	158.05
21	Jakkampettai Chitteri	
22	Karnavur Big Tank	84.21
23	Karnavur Chitteri	84.21
24	Singanur Big Tank	49.63
25	Singanur Chitteri	81.64
26	Thenkalavai Tank	65.65
27	Thenpasiyar Tank	101.78
28	Vittralapuram Tank	127.12
29	Attur Tank	119.02
30	Molasur Tank	107.75
31	Endiyur Big Tank	41.47
32	Elvalapakkam Hissa Tank	99.10
33	Kovadi Tank	61.21
34	Kattalai Tank	77.14
35	Perumukkal Tank	131.53
36	Palamukkal Tank	70.47
37	Kilsiviri Tank	56.96
38	T. Nallalam Tank	74.97
39	Nalmukkal Tank	47.73
40	Brammadesam Tank	113.75
41	Vanniper Tank	63.67
42	kurur Big & Chitteri Tank	44.90
43	Alakuppam Tank	106.93
44	Endur Tank	81.59

45	Munnur Big Tank	198.85
46	Munnur Chitteri	50.55
47	Kulathur Tank	90.17
48	Adavallikuttan Tank	47.02
49	Omipper Tank	60.12
50	Chittanapakkam Tank	48.98
51	Thirukkanur Tank	41.27
52	Urani mangalatha Eri	45.42
53	Anumandhai Kar Eri	51.33
54	Anumandhai Vanji Kuttai	56.26
55	Kunimedu Tank	55.55
56	Nallavur Tank	151.38
57	Thenkodipakkam Tank	64.04
58	Perumpakkam Tank	97.16
59	Parikkalpattu Tank	59.38
60	Adanapattu Tank	82.99
61	Thensiruvalur Hissa Tank	167.46
62	Terkunam Tank	100.83
63	Kondamur Tank	108.99
64	Kiliyanur Big Tank	155.81
65	Kiliyanur Small Tank	136.34
66	Kiliyanur Pudu Eri	102.72
67	Kunnam Tank	40.60
68	Semangalam Tank	131.22
69	Putturai Tank	95.95
70	Vanur Big Tank	76.86
71	Vanur Chitteri	57.09
72	Pulichappalam Big Tank & Chitteri	
73	Pulichappalam Chitteri	133.95
74	Kattaram Pakkam Tank	52.05
75	Olundiyapattu Tank	120.79
76	Anbakkam Tank	194.15
77	Peravur Tank	144.795
78	Ulagapuram Perumal Eri & Nagal Eri	169.25
79	T.Parangani Tank	67.42
80	Irumbai Tank	57.50
81	Rayapudupakkam Tank	48.04
82	Raya ottai Tank	86.20
83	Kodur Tank	116.80
84	Nesal Big Tank	70.00
85	karattai Big Tank	48.17
86	Aruvadai Tank	83.28
87	Konjumangalam Tank	78.85
88	Koluvari Tank	55.46
89	Kaluperumpakkam Tank	54.54
90	Tailapuram Tank	132.41
91	Thenagaram Tank	81.46
92	Vilvanatham Big & Chitteri Tank	99.18
93	Devanandal Tank	43.89
94	Pudukkupam Tank	424.93

1.5.2 List OF Channels.

Sl. No	NAME OF THE CHANNEL	NAME OF THE TANKS FEEDED
1	Akkur	Akkur
2	Pampundi	Pampundi
3	Venmaniyathur	Venmaniyathur
4	Pattanam	Pattanam
5	Salai	Salai
6	Kollar	Kollar
7	Jakkampattai Big Tank	Jakkampattai Big Tank
8	Jakkampattail small Tank	Jakkampattail small Tank
9	Karnavur Big Tank	Karnavur Big Tank
10	Karnavur Small Tank	Karnavur Small Tank
11	Singanur Big Tank	Singanur Big Tank
12	Singanur Small Tank	Singanur Small Tank
13	Eraiyanur	Eraiyanur
14	Ten Pasiyar	Ten Pasiyar
15	Ten Kalavai	Ten Kalavai
16	Athur	Athur
17	Endiyur	Endiyur
18	Kattalai	Kattalai
19	Molasur	Molasur
20	Kovadi	Kovadi
21	Peramandur	Peramandur
22	Kiledaiyalam	Kiledaiyalam
23	Kilchittamur	Kilchittamur
24	T. Kennipattu	T. Kennipattu
25	Kiliyannur Pudu eri	Kiliyannur Pudu eri
26	Kiliyannur Chitteri	Kiliyannur Chitteri
27	Olinthiyapattu tank	Olinthiyapattu tank
28	Nesal big tank	Nesal big tank
29	Omandur tank	Omandur tank
30	Kondamur tank	Kondamur tank
31	Thensiruvallur tank	Thensiruvallur tank
32	Semangalam tank	Semangalam tank
33	Vanur Big tank	Vanur Big tank
34	Vanur Chitteri	Vanur Chitteri
35	Kunnam Tank	Kunnam Tank
36	Koluvari Tank	Koluvari Tank
37	Rayapudukkuppam Tank	Rayapudukkuppam Tank
38	Pulichapallam big Tank	Pulichapallam big Tank
39	Pulichapallam Chitteri	Pulichapallam Chitteri
40	Parikkalpattu Tank	Parikkalpattu Tank
41	Kattarampakkam tank	Kattarampakkam tank
42	Kolliyangunam tank	Kolliyangunam tank

43	Puthurai tank	Puthurai tank
44	Irumbai tank	Irumbai tank
45	Terkunam tank	Terkunam tank
46	Perumukkal Tank	Perumukkal Tank
47	Palamukkal Tank	Palamukkal Tank
48	Peruavur Tank	Peruavur Tank
49	Nallavur Tank	Nallavur Tank
50	Aruvadai Tank	Aruvadai Tank
51	Konjumangalam Tank	Konjumangalam Tank
52	Anbakkam Tank	Anbakkam Tank
53	Brammadesam Tank	Brammadesam Tank
54	Nalmukkal Tank	Nalmukkal Tank
55	Vanniper Tank	Vanniper Tank
56	alanguppam Tank	alanguppam Tank
57	Endur Tank	Endur Tank
58	Munnur Big Tank	Munnur Big Tank

ABSTRACT ON THE DETAILS OF IRRIGATION INFRASTRUCTURE AVAILABLE AND WORKS TAKEUP UNDER IAMWARM PROJECT

Name of Sub Basin: Nallavur

Sl. No	Details	Anicut			System Tank			Non System Tank			Any other Supply Channel		Remarks
		Nos	Supply Channel in KM	Direct Ayacut	Nos	Supply Channel in Km	Ayacut	Nos	Supplu channel in KM	Ayacut	Length	Direct Ayacut	
1	Available Infrastructure in Sub Basin	5	--	--	--	-	--	94	155.50	8765.20	--	--	
2	Infrastructure excluded in iamwarm project since works carried out under various schemes from 2000	--	--	--	--	--	--	19	40.60	2603.92	--	--	
3	Infrastructures that dose not require any rehabilitation works	--	--	--	--	--	--	--	--	--	--	--	
4	Works taken up in Iamwarm Project	5	--	--	--	--	--	75	114.90	6161.28	--	--	

1. Certified that the Panchayat Union Tanks are not considered in this Project.
2. Certified that the tanks executed under various schemes(Viz, WRCP I, NABARD, PART II Schemes etc.,) since 2000 were not proposed in this Project.

1.6. REHABILITATION OF IRRIGATION INFRASTRUCTURE

A. REHABILITATION OF IRRIGATION INFRASTRUCTURE OF THE SUB - BASIN

1.6.1 STRUCTURAL STATUS & DEFICIENCIES IN THE SYSTEM

The following are the present structural condition of the Nallavur sub basin system.

1. This system is an old system existing for more than 100 Years as such requires Rehabilitation.
2. Heavy Accumulation of silt due to contour nature of canal system.
3. Lack of adequate control or regulating structures like Anicuts. Sluices, Sand **/** Scour vents etc.,
4. The damaged (or) dilapidated condition of the existing Anicuts diversion head works etc. and supply channels causes to poor standard of the entire conveyance system.
5. The System and Non system tanks are to be rehabilitated.

Salient Features of the Proposal.

In order to improve the conveyance and Operational Efficiency in Irrigation, It Is now proposed to Improve and modernize the Irrigation Infrastructures in Nallavur Sub Basin:.

1. Training the River by removing the Shoals accumulated in the U/s and D/s of the Anicuts & Evicting the encroachments by earthwork excavation using machineries.
2. Repairs to the damaged Anicut such as repairs to body wall, apron and forming flood bank etc.,
3. Desilting the supply channels & surplus courses by earthwork excavation using machineries.

4. Providing revetments and Retaining walls in selective area of the supply channels.
5. Providing model sections to maintain the bed level of the supply channel (bed bar) at every 200 mt interval.
6. Providing culverts across the supply channels for easy approach to the fields by the farmers and cattle's wherever necessary.
7. Repairing, Restoring the traditional water bodies (i.e. tanks)
   a. Strengthening the bunds of the tanks and channels wherever necessary for effectively storing the water and conveying it to the entire command area and also for conveying agriculture inputs to the field.
   b. Repairs to the damaged weirs
   c. Reconstruction of Collapsed Sluices
   d. Repairs to the damaged Sluices
   e. Providing revetments and Retaining walls in selective area of the tanks
   f. Providing S.G. Shutter / Plug arrangements to Sluices, Head sluices, etc.,
   g. Providing Turfing in entire slope and length of tank bund in downstream
8. Provision of lining feild channel at the length of 50 meter in the downsteram of irrigation sluice are made.
9. Providing Granolythic Pattern Floor finish of 25mm thick with PCC 1:2:4

1.6.2 Outcome of the Project

1. Increase in conveyance efficiency from 53% to 56%.
2. The present Gap area of 1466.52 Ha. is to be converted as a full irrigated area and the ayacut stabilized,
3. The following irrigation infrastructure development works are proposeci in the Nallavur sub basin.

Rehabilitation of 4 Anicuts.

Rehabilitation works for 75 tanks.

Rehabilitation of Supply channel for 109.18 km

Name of work:Rehabilitation and modernisation of 16 tanks and supply channels covered under NALLAVUR sub basin in Mailam, Olakkur and Marakkanam blocks in Thindivanam taluk , Villupuram District

Package No.01/IAMWARM/WRD/NLR/Works/III/2009-2010

ABSTRACT OF PACKAGE

Sl no	Name of tank	Estimate Amount for repairs to Tank Bund,Sluice,Weir, Supply channel	Estimate Amount for Turfing	Estimate Amount for Field Channel	Estimate Amount for construction of flow measuring Device	Amount of Estimate
1	2	3	4	5	4	6
1	Akkur	18.20	0.73	1.32	0.15	20.4
2	Pampundi	20.23	0.35	3.96	0.45	24.99
3	Vemmaniyattur	18.71	0.5	2.64	0.3	22.15
4	Pattanam	24.39	0.66	2.64	0.3	27.99
5	Salai	14.63	0.25	1.32	0.15	16.35
6	Kollar	10.3	0.43	1.32		12.05
7	Jakkam pettai big	22.27	0.2	1.32		23.79
8	Jakkampettai Chitteri	14.99	0.2	3.96		19.15
9	Karnarur big	21.46	0.73	2.64	0.3	25.13
10	Karnavur small	18.06	0.47	2.64	0.15	21.32
11	Singanur big	28.44	0.82	3.96	0.45	33.67
12	Singanur small	30.02	0.71	3.96	0.45	35.14
13	Peramandur	22.58	0.82	2.64	0.3	26.34
14	Ten pasiyar	17.95	0.82	1.32	0.15	20.24
15	Eraiyanur	15.46	0.82	2.64	0.3	19.22
16	Molasur - Palapattu	43.05	0.82	3.96	0.45	48.28
	Total	**340.74**	**9.33**	**42.24**	**3.9**	**396.21**

Name of work:Rehabilitation and modernisation of 12 tanks and supply channels, 2 Anicuts covered under NALLAVUR sub basin in Mailam, Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District

Package No.02/IAMWARM/WRD/NLR/Works/III/2009-2010

ABSTRACT OF PACKAGE

Sl no	Name of tank	Estimate Amount for repairs to Tank Bund,Sluice,Weir, Supply channel	Estimate Amount for Turfing	Estimate Amount for Field Channel	Estimate Amount for construction of flow measuring Device	Amount of Estimate
1	2	3	4	5	4	6
1	Kolliyankunam Tank	13.73	1.16	1.32	0.12	16.33
2	T.Kenipattu	11.4	0.8	2.64		14.84
3	Ten kalavay	10.15	1.06	1.32	0.12	12.65
4	Kil Edaiyalam	19.98	1.62	3.96	0.12	25.68
5	Omandur	17.47	2.83	3.96		24.26
6	Kilchittamur	16.93	1.92	1.32	0.12	20.29
7	Tensiruvalur	27.86	1.49	5.28	0.12	34.75
8	Parikkalpattu	12.96	1	1.32	0.12	15.4
9	Kunnam	15.78	0.85	1.32	0.24	18.19
10	Kondamur	26.62	1.21	2.64	0.36	30.83
11	Terkunam	27.51	1.89	3.96	0.24	33.6
12	Semangalam	22.13	1.29	2.64		26.06
13	Anamputhur Dividing Dam	18.11				18.11
14	Omandur Anicut	11.09				11.09
	Total	**251.72**	**17.12**	**31.68**	**1.56**	**302.08**

Name of work:Rehabilitation and modernisation of 19 tanks and supply channels, 1 Anicuts covered under NALLAVUR sub basin in Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District

Package No.03/IAMWARM/WRD/NLR/Works/III/2009-2010

ABSTRACT OF PACKAGE

Sl no	Name of tank	Estimate Amount for repairs to Tank Bund,Sluice,Weir, Supply channel	Estimate Amount for Turfing	Estimate Amount for Field Channel	Estimate Amount for construction of flow measuring Device	Amount of Estimate
1	2	3	4	5	4	6
1	Attur	15.72	0.78	2.64	0.15	19.29
2	Kattalai	20.1	1.03	2.64	0.3	24.07
3	Endiyur	13.82	0.71	1.32	0.15	16
4	Kovadi	19.47	1.16	2.64	0.3	23.57
5	Perumukkal	14.81		5.28	0.6	20.69
6	Palamukkal	15.25	0.77	3.96	0.3	20.28
7	Kilsiviri	9.79	0.99	1.32	0.15	12.25
8	Nalmukkal	11.18	0.81	1.32	0.15	13.46
9	Endur	9.1	0.99	2.64	0.3	12.94
10	Brammadesam	15.96	1.33	1.32	0.15	18.76
11	Alanguppam	21.99	1.17	3.96	0.3	27.42
12	Kurur Big & small Tank	12.09	1.21	2.64	0.15	16.09
13	Vanniper	15.96	0.97	2.64	0.3	19.87
14	Kulattur	11	0.89	1.32	0.15	13.36
15	Munnur Big Tank	13.83		1.32	0.15	15.3
16	Munnur Chitteri	10.94	0.89	1.32	0.15	13.3
17	Adavallikuttan	11.65	0.85	1.32	0.15	13.97
18	Omipper	8.4	0.88	1.32		10.6
19	Chittanapakkam	13.32		1.32	0.15	14.79
20	Eraiyanur Dividing Dam	9				9
	Total	273.37	15.43	42.24	4.05	**335.09**

Name of work:Rehabilitation and modernisation of 16 tanks Supply channels covered under NALLAVUR sub basin in Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District

Package No.04/IAMWARM/WRD/NLR/Works/III/2009-2010

ABSTRACT OF PACKAGE

Sl no	Name of tank	Estimate Amount for repairs to Tank Bund,Sluice,Weir, Supply channel	Estimate Amount for Turfing	Estimate Amount for Field Channel	Estimate Amount for construction of flow measuring Device	Amount of Estimate
1	2	3	4	5	4	6
1	Tirukkanur	7.53	0.2	1.32	0.12	9.17
2	Uranimangalatha Eri	5.33	0.14	2.64	0.12	8.23
3	Anumanthai Kar eri	17.69	0.76	2.64	0.12	21.21
4	Kunimedu	1.71		1.32		3.03
5	Putturai	11.96	0.42	1.32	0.12	13.82
6	Irumbai	14.31	0.46	1.32	0.12	16.21
7	Vanur big tank	23.76	0.82	2.64	0.24	27.46
8	Vanur small tank	9.25	0.48	1.32	0.12	11.17
9	Pulicha pallam big tank	27.32	0.82	2.64	0.24	31.02
10	Pulichapallam small tank	14.03	0.5	1.32	0.12	15.97
11	Rayapudukkuppam	24.61	0.48	2.64	0.12	27.85
12	Raya ottai	3.52		1.32		4.84
13	Kattaram pakkam Tank	18.34	0.48	1.32	0.12	20.26
14	Olundiyapattu	24.11	1.27	2.64	0.24	28.26
15	Anbakkam	24.79	1.49	2.64	0.12	29.04
16	Nesal big tank	16.52	0.52	2.64	0.12	19.8
	Total	244.78	8.84	31.68	2.04	287.29

Name of work:Rehabilitation and modernisation of 12 tanks Supply channels and 1 Anicut covered under NALLAVUR sub basin in Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District

Package No.05/IAMWARM/WRD/NLR/Works/III/2009-2010

ABSTRACT OF PACKAGE

Sl no	Name of tank	Estimate Amount for repairs to Tank Bund,Sluice,Weir, Supply channel	Estimate Amount for Turfing	Estimate Amount for Field Channel	Estimate Amount for construction of flow measuring Device	Amount of Estimate
1	2	3	4	5	4	6
1	Nallavur	34.85	2.59	2.64	0.24	40.32
2	Peravur Tank	30.12	1.46	5.28	0.24	37.1
3	Karattai big tank	6.96	0.81	2.64		10.41
4	Aruvadai	5.82	0.65	3.96		10.43
5	Devanandal	9.44	0.68	1.32	0.12	11.56
6	Koluvari	22.29	1.13	2.64	0.12	26.18
7	Konjumangalam	17.79	0.83	3.96	0.36	22.94
8	Parangani	12.56	0.83	2.64	0.12	16.15
9	Ulagapuram Nagal eri	10.63	0.42	1.32	0.12	12.49
10	T. Nallam Tank	8.76	1.08	1.32		11.16
11	Kiliyanur Pudu eri	23.35	1.48	2.64	0.24	27.71
12	Kiliyanur Chitteri	29.4	1.41	2.64	0.24	33.69
13	Kondamur Anicut	54.49				54.49
	Total	266.44	13.37	33	1.8	314.59

Details of Proposals in Each Infrastructure of the Sub Basin. PACKAGE NO.1

Name of work:Rehabilitation and modernisation of 16 tanks and supply channels covered under NALLAVUR sub basin in Mailam, Olakkur and Marakkanam blocks in Thindivanam taluk , Villupuram District

Sl. No	Name of Tank / Anicut / Reservoir	Strengthening of Bund			Turffing on rear slope of Bund		Reconstruction of sluice		Repair to Sluice		Linning of Field Channel		Flow Measuring Device		Weir Repair		Desilting of Supply channel			Anicut Repairs		Amount
		Length in m	Quantity in m3	Amount	Quantity in m2	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	Length in m	Quantity in m3	Amount	No.	Amount	
1	Akkur	949	9000	7.84	7250	0.73	1	4.96			1	1.32	1	0.15	2	3.82	1200 1000	2350 2200	1.58			20.40
2	Pampundi	930	10000	7.87	3500	0.35	3	10.14			3	3.96	3	0.45	1	1.18	1500	2950	1.04			24.99
3	Vemmaniyattur	1115	11500	9.09	4950	0.50	2	7.13			2	2.64	2	0.30	1	1.54	1500	2950	0.95			22.15
4	Pattanam	1749	16000	14.07	6500	0.66	2	7.41			2	2.64	2	0.30	1	1.37	2300	4500	1.54			27.99
5	Salai	739	7000	7.16	2500	0.25	1	3.05			1	1.32	1	0.15	1	1.88	2000 750 1000	3900 1500 2600	2.54			16.35
6	Kollar	910	9500	8.63	4300	0.43	---	---			1	1.32	---	---	1	0.88	1000	2200	0.79			12.05
7	Jakkam pettai big	1490	15970	11.57	2000	0.20	---	---			1	1.32	---	---	2	8.49	2000	5200	2.21			23.79
8	Jakkampettai Chitteri	1305	13500	9.92	2000	0.20	---	---			3	3.96	---	---	1	4.5	500	1300	0.57			19.15
9	Karnarur big	930	8600	8.71	7250	0.73	2	9.10			2	2.64	2	0.30	1	3.03	500	1300	0.62			25.13
10	Karnavur small	1220	13200	11.49	4600	0.47	1	3.08			2	2.64	1	0.15	1	2.44	1500	2950	1.05			21.32
11	Singanur big	2080	17000	13.86	8100	0.82	3	9.75			3	3.96	3	0.45	1	3.93	750	1500	0.9			33.67
12	Singanur small	1920	16950	13.97	7000	0.71	3	9.03			3	3.96	3	0.45	1	4.63	2000	5200	2.39			35.14
13	Peramandur	1980	9000	10.21	3200	0.82	2	9.22			2	2.64	2	0.30	1	0.94	2000 1000	3900 2600	2.21			26.34
14	Ten pasiyar	1600	17200	12.29	5000	0.82	1	4.31			1	1.32	1	0.15	--- ---	--- ---	1000 500	2200 1300	1.35			20.24
15	Eraiyanur	810	8900	7.44	3000	0.82	2	5.78			2	2.64	2	0.30	1	0.69	3000	5450	1.55			19.22
16	Molasur - Palapattu	3280	32800	23.39	14000	0.82	3	12.93			3	3.96	3	0.45	1	4.25	3000	7850	2.48			48.28
	Total	**23007**	**2E+05**	**177.5**	**85150**	**##**	**26**	**95.89**			**32**	**42.2**	**26**	**3.90**	**17**	**43.57**	**30000**	**65900**	**23.77**			**396.21**

Details of Proposals in Each Infrastructure of the Sub Basin. PACKAGE NO.2

Name of work:Rehabilitation and modernisation of 12 tanks and supply channels, 2 Anicuts covered under NALLAVUR sub basin in Mailam, Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District

Sl. No	Name of Tank / Anicut / Reservoir	Strengthening of Bund			Turffing on rear slope of Bund		Reconstruction of sluice		Repair to Sluice		Linning of Field Channel		Flow Measuring Device		Weir Repair		Desilting of Supply channel			Anicut Repairs		Amount
		Length in m	Qty in m3	Amount	Qty in m2	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	Length	Qty in m3	Amount	No.	Amount	
1	Kolliyankunam Tank	1900	18350	13.26	11500	1.16	---	---	---	---	1	1.3	---	---	---	---	1200	2600	0.59	---	---	16.33
2	T.Kenipattu	1000	9000	7.29	7900	0.8	1	3.99	---	---	2	2.6	1	0.12	---	---	---	---	---	---	---	14.84
3	Ten kalavay	1340	12400	9.4	10500	1.06	---	---	---	---	1	1.3	---	---	1	0.36	1000	2200	0.51	---	---	12.65
4	Kil Edaiyalam	2000	20400	14.28	16000	1.62	1	3.7	---	---	3	4	1	0.12	1	0.23	3000	8000	1.77	---	---	25.68
5	Omandur	1140	8850	8.99	28000	2.83	---	---	1	1	3	3.96	1	0.12	1	2.45	5000	17300	4.5	---	---	24.26
6	Kilchittamur	2380	24600	16.15	19000	1.92	---	---	---	---	1	1.3	---	---	1	0.28	1000	2800	0.62	---	---	20.29
7	Tensiruvalur	1850	15000	13.22	14800	1.49	1	4.7	---	---	4	5.28	1	0.12	3	6.19	1500	4200	3.75	---	---	34.75
																	3500	9900		---	---	
8	Parikkalpattu	1500	11340	8.68	9900	1	---	---	1	3	1	1.32	1	0.12	1	0.93	750	2150	0.58	---	---	15.40
9	Kunnam	1100	9000	7.59	8400	0.85	1	4.23	---	---	1	1.3	1	0.12	1	2.53	2000	5800	1.55	---	---	18.19
10	Kondamur	2380	12500	16.27	12000	1.21	2	8.11	---	---	2	2.6	2	0.24	1	1.6	500	1500	0.76	---	---	30.83
11	Terkunam	1540	20000	10.25	18700	1.89	3	10.5	---	---	3	3.96	3	0.36	2	4.69	1000	2800	1.92	---	---	33.60
																	1500	4350		---	---	
12	Semangalam	1590	13300	11.4	12830	1.29	2	6.82	---	---	2	2.6	2	0.24	1	2.11	2000	5800	1.56	---	---	26.06
13	Anamputhur Dividing Dam		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	18.1	18.11
14	Omandur Anicut	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	11.1	11.09
	Total	**19720**	**2E+05**	**136.78**	**169530**	**17.1**	**11**	**42**	**2**	**4**	**24**	**32**	**13**	**1.56**	**13**	**21.37**	**23950**	**69400**	**18.11**	**2**	**29**	**302.08**

Details of Proposals in Each Infrastructure of the Sub Basin. PACKAGE NO.3

Name of work:Rehabilitation and modernisation of 19 tanks and supply channels, 1 Anicuts covered under NALLAVUR sub basin in Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District

Sl. No	Name of Tank / Anicut / Reservoir	Strengthening of Bund			Turffing on rear slope of Bund		Reconstruction of sluice		Repair to Sluice		Linning of Field Channel		Flow Measuring Device		Weir Repair		Desilting of Supply channel			Anicut Repairs		Amount
		Length	Qty in m3	Amount	Qty in m2	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	Length	Qty in m3	Amount	No.	Amount	
1	Attur	1100	10500	7.08	7700	0.78	1	3.6	---	---	2	2.6	1	0.15	1	3.75	1000	2700	1.32	---	---	19.29
2	Kattalai	1160	12000	8.97	10200	1.03	2	7.5	---	---	2	2.6	2	0.3	1	2.22	2280	5300	1.44	---	---	24.07
3	Endiyur	990	10500	7.44	7000	0.71	1	4.1	---	---	1	1.3	1	0.15	1	0.82	2220	5500	1.46	---	---	16.00
4	Kovadi	1460	14300	9.44	11500	1.16	2	7.2	---	---	2	2.6	2	0.3	2	1.35	2130	5500	1.47	---	---	23.57
5	Perumukkal	2010	4600	3.81	---	---	---	---	4	9	4	5.3	4	0.6	1	0.6	2290	5300	1.44	---	---	20.69
6	Palamukkal	980	9300	7.04	7600	0.77	2	5.6	---	---	3	4	2	0.3	1	1.22	1950	5000	1.37	---	---	20.28
7	Kilsiviri	1420	4500	4.5	9800	0.99	1	4.1	---	---	1	1.3	1	0.15	1	0.5	1080	2600	0.7	---	---	12.25
8	Nalmukkal	1280	13500	8.83	8000	0.81	---	---	1	0	1	1.3	1	0.15	1	0.91	1000 500	2300 1200	0.95	--- ---	--- ---	13.46
9	Endur	1760	2700	2.82	9800	0.99	2	4.07	---	---	2	2.6	2	0.3	1	0.66	2280	5400	1.46	---	---	12.94
10	Brammadesam	1720	16500	11.08	13200	1.33	--- ---	--- ---	1	1	1	1.3	1	0.15	1	2.81	1000 1000	2200 2800	1.38	--- ---	--- ---	18.76
11	Alanguppam	1490	16500	11	11600	1.17	2	8	---	---	3	4	2	0.3	1	1.5	2150	5513	1.49	---	---	27.42
12	Kurur Big & small Tank	1500	10500	7.63	12000	1.21	1	3.3	---	---	2	2.6	1	0.15	2	1.13	---	---	---	---	---	16.09
13	Vanniper	1200	9000	6.3	9600	0.97	2	7.7	---	---	2	2.6	2	0.3	1	0.92	1000	3200	1.02	---	---	19.87
14	Kulattur	1100	9500	6.72	8835	0.89	1	4.3	---	---	1	1.3	1	0.15	---	---	---	---	---	---	---	13.36
15	Munnur Big Tank	---	---	0	---	---	1	4.5	---	---	1	1.3	1	0.15	1	7.75	2000	4300	1.61			15.30
16	Munnur Chitteri	1100	9400	6.29	8800	0.89	1	4	---	---	1	1.3	1	0.15	2	0.65	---	---	---	---	---	13.30
17	Adavallikuttan	1200	9500	6.52	8400	0.85	1	4.2	---	---	1	1.3	1	0.15	1	0.93	---	---	---	---	---	13.97
18	Omipper	1236	9000	6.6	8700	0.88	---	---	---	---	1	1.3	---	---	1	1.8	---	---	---	---	---	10.60
19	Chittanapakkam	1350	13000	9.12	---	---	1	3.1	---	---	1	1.3	1	0.15	1	1.08	---	---	---	---	---	14.79
20	Eraiyanur Dividing Dam	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	9	9.00
	Total	**24056**	**2E+05**	**131.19**	**152735**	**15.4**	**21**	**75**	**6**	**10**	**32**	**42**	**27**	**4.05**	**21**	**30.6**	**23380**	**58813**	**17.11**	**1**	**9**	**335.09**

Details of Proposals in Each Infrastructure of the Sub Basin. PACKAGE NO.4

Name of work:Rehabilitation and modernisation of 16 tanks Supply channels covered under NALLAVUR sub basin in Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District

Sl. No	Name of Tank / Anicut / Reservoir	Strengthening of Bund			Turffing on rear slope of Bund		Reconstruction of sluice		Repair to Sluice		Linning of Field Channel		Flow Measuring Device		Weir Repair		Desilting of Supply channel			Anicut Repairs		Amount
		Length	Qty in m3	Amount	Qty in m2	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	Length	Qty in m3	Amount	No.	Amount	
1	Tirukkanur	600	4400	4.15	2000	0.2	1	2.7	---	---	1	1.3	1	0.12	1	0.69	---	---	---	---	---	9.17
2	Uranimangalatha Eri	300	2065	1.91	1350	0.14	1	2.72	---	---	2	2.6	1	0.12	1	0.7	---	---	---	---	---	8.23
3	Anumanthai Kar eri	1580	15200	11.84	7500	0.76	1	4.6	---	---	2	2.6	1	0.12	1	1.28	---	---	---	---	---	21.21
4	Kunimedu	300	1965	1.71	---	---	---	---	---	---	1	1.3	---	---	---	---	---	---	---	---	---	3.03
5	Putturai	1160	9845	7.7	4200	0.42	---	---	1	0	1	1.3	1	0.12	2	3.6	800	1450	0.51	---	---	13.82
6	Irumbai	1140	10500	8.38	4560	0.46	1	5.06	---	---	1	1.3	1	0.12	1	0.47	500	1500	0.4	---	---	16.21
7	Vanur big tank	2040	18500	13.91	8160	0.82	2	7.55	---	---	2	2.6	2	0.24	2	1.9	500	1500	0.4	---	---	27.46
8	Vanur small tank	1260	10800	8.65	4800	0.48			1	0	1	1.3	1	0.12			500	1500	0.4	---	---	11.17
9	Pulicha pallam big tank	2050	16500	12.23	8080	0.82	2	10	---	---	2	2.6	2	0.24	1	3.64	2200	4300	1.42	---	---	31.02
10	Pulichapallam small tank	1260	9800	7.59	4960	0.5	1	4.9	---	---	1	1.3	1	0.12	1	1.01	750	1550	0.53	---	---	15.97
11	Rayapudukkuppam	1435	9500	7.65	4800	0.48	2	8.6	---	---	2	2.6	1	0.12	1	7.56	1500	2950	0.78	---	---	27.85
12	Raya ottai	---	---		---	---	---	---	---	---	1	1.3	---	---	2	3.52	---	---	---	---	---	4.84
13	Kattaram pakkam Tank	1500	13000	9.53	4800	0.48	1	3.8	--- ---	--- ---	1	1.3	1	0.12	1	1.4	2000 3000	4000 7250	3.61	--- ---	--- ---	20.26
14	Olundiyapattu	2200	18000	13.13	12600	1.27	2	9.9	---	---	2	2.6	2	0.24	2	1.05	---	---	---	---	---	28.26
15	Anbakkam	2980	2200	16.93	14750	1.49	1	4.4	---	---	2	2.6	1	0.12	1	2.19	2000	5000	1.28	---	---	29.04
16	Nesal big tank	1305	12000	8.7	5120	0.52	1	4.5	---	---	2	2.6	1	0.12	1	1.81	2100	4450	1.52	---	---	19.8
																				---	---	
	Total	**21110**	**154275**	**134.01**	**87680**	**8.84**	**16**	**69**	**2**	**0**	**24**	**32**	**17**	**2.04**	**18**	**30.82**	**15850**	**35450**	**10.85**			**287.29**

Details of Proposals in Each Infrastructure of the Sub Basin. PACKAGE NO.5

Name of work:Rehabilitation and modernisation of 12 tanks Supply channels and 1 Anicut covered under NALLAVUR sub basin in Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District

Sl. No	Name of Tank / Anicut / Reservoir	Strengthening of Bund			Turffing on rear slope of Bund		Reconstruction of sluice		Repair to Sluice		Linning of Field Channel		Flow Measuring Device		Weir Repair		Desilting of Supply channel			Anicut Repairs		Amount
		Length	Qty in m3	Amount	Qty in m2	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	No.	Amount	Length	Qty in m3	Amount	No.	Amount	
1	Nallavur	3300	27700	19.49	25600	2.59	2	8.1	---	---	2	2.6	2	0.24	1	5.46	2000	5250	1.8	---	---	40.32
2	Peravur Tank	1935	13100	10.25	14480	1.46	2	8.4	---	---	4	5.3	2	0.24	4	4.87	2550	5300	2.11	1	4.5	37.1
3	Karattai big tank	1180	7950	6.17	8050	0.81	---	---	---	---	2	2.6	---	---	1	0.79	---	---	---	---	---	10.41
4	Aruvadai	800	4600	4.03	6400	0.65	---	---	---	---	3	4	---	---	1	0.49	2000	3550	1.3	---	---	10.43
5	Devanandal	960	6800	5.47	6720	0.68	1	3.4	---	---	1	1.3	1	0.12	1	0.57	---	---	---	---	---	11.56
6	Koluvari	1450	11600	8.69	11280	1.13	1	6.1	---	---	2	2.6	1	0.12	3	3.55	2500	4650	3.98	---	---	26.18
									---	---							1000	2000		---	---	
									---	---							1500	3100		---	---	
7	Konjumangalam	1520	13100	8.81	8250	0.83	2	6.9	1	0	3	4	3	0.36	1	1.11	950	1650	0.82			22.94
8	Parangani	1200	7500	6.39	8200	0.83	1	3.67	---	---	2	2.6	1	0.12	2	2.5	---	---	---	---	---	16.15
9	Ulagapuram Nagal eri	1200	9300	6.53	4200	0.42	1	3.8	---	---	1	1.3	1	0.12	1	0.28	---	---	---	---	---	12.49
10	T. Nallam Tank	1550	10750	8.44	10700	1.08			---	---	1	1.32			1	0.32	---	---	---	---	---	11.16
11	Kiliyanur Pudu eri	1850	15000	10.59	14700	1.48	2	7.2	---	---	2	2.6	2	0.24	1	3.91	2000	3800	1.63	---	---	27.71
12	Kiliyanur Chitteri	2110	18100	12.15	14000	1.41	2	7.7	---	---	2	2.6	2	0.24	2	8.44	1500	2550	1.12	---	---	33.69
13	Kondamur Anicut	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	1	54	54.49
	Total	**19055**	**145500**	**107.01**	**132580**	**13.4**	**14**	**55**	**1**	**0**	**25**	**33**	**15**	**1.8**	**19**	**32.29**	**16000**	**31850**	**12.76**	**2**	**59**	**314.59**

Package Abstract

Sl no	Name of Work	Cost in Lakhs
1	Package No.1 Name of work:Rehabilitation and modernisation of 16 tanks and supply channels covered under NALLAVUR sub basin in Mailam, Olakkur and Marakkanam blocks in Thindivanam taluk , Villupuram District	396.21
2	Package No.2 Name of work:Rehabilitation and modernisation of 12 tanks and supply channels, 2 Anicuts covered under NALLAVUR sub basin in Mailam, Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District	302.08
3	Package No.3 Name of work:Rehabilitation and modernisation of 19 tanks and supply channels, 1 Anicuts covered under NALLAVUR sub basin in Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District	335.09
4	Package No.4 Name of work:Rehabilitation and modernisation of 16 tanks Supply channels covered under NALLAVUR sub basin in Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District	287.29
5	Package No.5 Name of work:Rehabilitation and modernisation of 12 tanks Supply channels and 1 Anicut covered under NALLAVUR sub basin in Marakkanam and Vanur blocks in Thindivanam and Vanur taluks , Villupuram District	314.59
6	Environmental Cell	15.00
7	Total	**1650.26**

B.WRO COST TABLE

Sl.No	DESCRIPTION OF WORK	QUANTITY		AMOUNT IN LAKHS
1 . Tank Component				
1	Improvements to Weirs (Nos)	88Nos	88Nos	158.65
2	Improvements to Bunds (Nos)	106958 RM	875435m^3	750.61
3	Reconstruction of Sluice (Nos)	88Nos	88Nos	339.01
4	Repairs to Sluice (Nos)	11Nos	11Nos	14.82
5	Measuring Device (Nos)	57Nos	57Nos	11.55
6	Repairs to the Anicuts including Providing,Head and Scour Vent and Shutter Arrangement , Flood Banks etc.,(Nos)	4Nos	4Nos	97.18
7	Improvement to Supply Channel(M)	109180RM	261413m^3	82.60
8	Lining of Field Channel adjacent to Sluices	6850Rm	6850Rm	180.84
9	Total			**1635.26**
10	Environment Cell			**15.00**
	Ground Water			Nil
	Total(9+10)			**1650.26**

Superintending Engineer PWD/WRD,
Pennaiyar Basin Circle
Thiruvannnamalai

C.(PHYSICAL AND FINACIAL PROGRAMME)

SL. No	Description	Ist Year		2 nd Year	
		Quantity (Physical)	Amount (Financial) in Lakhs	Quantity (Physical)	Amount (Financial) in Lakhs
I	**ANICUTS**				
A)	Improvements to Anicuts	2	67.98	2	29.20
II	**TANKS**				
a)	Improvement to weir	30	64.94	58	93.71
b)	Improvement to Bund	66783	487.36	40165	263.25
c)	Reconstruction of sluice	37	137.97	51	201.04
d)	Lining of Field Channel adjacent to Sluices	3500	92.40	3350	88.44
e)	Repairs to Sluice	8	14.33	3	0.50
f)	Measuring device			57	11.55
g)	Improvement to supply Channel	77330	58.99	31850	23.66
	Total		**923.90**		**711.36**

C.(PHYSICAL AND FINACIAL PROGRAMME)

SL. No	Description	Ist Year		2 nd Year	
		Quantity (Physical)	Amount (Financial) in Lakhs	Quantity (Physical)	Amount (Financial) in Lakhs
I	**ANICUTS**				
A)	Improvements to Anicuts	2	67.98	2	29.20
II	**TANKS**				
a)	Improvement to weir	30	64.94	58	93.71
b)	Improvement to Bund	66783	487.36	40165	263.25
c)	Reconstruction of sluice	37	137.97	51	201.04
d)	Lining of Field Channel adjacent to Sluices	3500	92.40	3350	88.44
e)	Repairs to Sluice	8	14.33	3	0.50
f)	Measuring device			57	11.55
g)	Improvement to supply Channel	77330	58.99	31850	23.66
	Total		**923.90**		**711.36**

TANK DETAILS WITH FREE BOARD PROVIDED

Sl. No	Name of Tank	Height of Bund in M	Free Board		Length of Bund in M
			Existing	Provided now	
1	Venmaniattur Tank	6.10	1.25	1.50	1115
2	Pattanam Tank	5.60	1.25	1.50	1749
3	Akkur Tank	6.16	1.25	1.50	949
4	Pampundi Big Tank	6.20	1.25	1.50	930
5	Salai Tank	5.43	1.25	1.50	739
6	Kollar Tank	6.20	1.25	1.50	910
7	Kolliyankunam Big Tank	4.95	1.25	1.50	1900
8	Kenipattu Tank	4.90	1.25	1.50	1000
9	Peramandur Big Tank	5.20	1.25	1.50	1980
10	Eraiyanur Tank	5.25	1.25	1.50	810
11	Omandur Tank	4.85	1.25	1.50	3570
12	Kilchittamur Tank	4.85	1.25	1.50	2380
13	Jakkam pettai Big Tank	4.80	1.25	1.50	1490
14	Jakkampettai Chitteri	3.95	1.25	1.50	1305
15	Karnarur Big Tank	5.05	1.25	1.50	930
16	Karnavur Chitteri	5.15	1.25	1.50	1220
17	Singanur Big Tank	5.10	1.25	1.50	2080
18	Singanur Chitteri	5.20	1.25	1.50	1920
19	Ten kalavay Tank	5.45	1.25	1.50	1340
20	Ten pasiyar Tank	5.31	1.25	1.50	1600
21	Attur Tank	4.30	1.25	1.50	1100
22	Molasur- Palapattu Tank	4.70	1.25	1.50	3280
23	Endiyur Tank	5.60	1.25	1.50	990
24	Kovadi Tank	4.48	1.25	1.50	1460
25	Kattalai Tank	4.55	1.25	1.50	1160
26	Perumukkal Tank	5.75	1.25	1.50	2010
27	Palamukkal Tank	4.25	1.25	1.50	980
28	Kilsiviri Tank	5.00	1.25	1.50	1420
29	Nalmukkal Tank	5.10	1.25	1.50	1280
30	Vanniper Tank	4.00	1.25	1.50	1200

Sl. No	Name of Tank	Height of Bund in M	Free Board		Length of Bund in M
			Existing	Provided now	
31	Kurur Big & Chitteri	4.50	1.25	1.50	1500
32	Alankuppam Tank	5.60	1.25	1.50	1490
33	Endur Tank	5.10	1.25	1.50	1760
34	Munnur Big Tank	5.90	1.25	1.50	1800
35	Munnur chitteri	5.20	1.25	1.50	1100
36	Kulattur Tank	4.79	1.25	1.50	1100
37	Adavallikuttan Tank	4.55	1.25	1.50	1200
38	Omipper Tank	4.35	1.25	1.50	1236
39	Chittanapakkam Tank	3.95	1.25	1.50	1350
40	Tirukkanur Tank	4.00	1.25	1.50	600
41	Urani mangalatha Eri	3.70	1.25	1.50	955
42	Anumandai Kar Eri	4.60	1.25	1.50	1580
43	Kunimedu Tank	4.30	1.25	1.50	700
44	KilEdayalam Tank	6.00	1.25	1.50	2000
45	Brammadasem	5.45	1.25	1.50	1720
46	T. Nallalam	4.25	1.25	1.50	1550
47	Kondamur Tank	5.10	1.25	1.50	2380
48	Kiliyanur puthu eri	4.95	1.25	1.50	1850
49	kiliyanur Chetteri	5.80	1.25	1.50	2110
50	Kunnam Tank	4.85	1.25	1.50	1100
51	Semangalam Tank	4.85	1.25	1.50	1590
52	Putturai Tank	4.85	1.25	1.50	1160
53	Vanur big Tank	4.85	1.25	1.50	2040
54	Vanur Chitteri	4.85	1.25	1.50	1260
55	Pulicha pallam big Tank	4.45	1.25	1.50	2050
56	Pulichapallam Chitteri	5.15	1.25	1.50	1260
57	Olundiyapattu Tank	5.20	1.25	1.50	2200
58	Anbakkam Tank	4.90	1.25	1.50	2980
59	T. Parangani Tank	4.30	1.25	1.50	1200
60	Irumbai Tank	5.10	1.25	1.50	1140
61	Rayapudupakkam Tank	4.35	1.25	1.50	1435
62	Nesal big Tank	5.95	1.25	1.50	1305

Sl. No	Name of Tank	Height of Bund in M	Free Board		Length of Bund in M
			Existing	Provided now	
63	Karattai big Tank	4.80	1.25	1.50	1180
64	Aruvadai Tank	4.40	1.25	1.50	800
65	Devanandal Tank	3.70	1.25	1.50	960
66	Konjumangalam Tank	4.60	1.25	1.50	1520
67	Koluvari Tank	4.78	1.25	1.50	1450
68	Kattrampakkam Tank	4.70	1.25	1.50	1500
69	Peravur Tank	5.40	1.25	1.50	1935
70	Ulagapuram Nagal Eri	5.00	1.25	1.50	1200
71	Parikalpattu Tank	5.45	1.25	1.50	1500
72	Tensiruvalur Hissa Tank	4.85	1.25	1.50	1850
73	Terkunam Tank	5.20	1.25	1.50	1540
74	Nallavur Tank	4.85	1.25	1.50	3300
75	Rayaottai tank	5.20	1.25	1.50	1305

PACKAGE- I

Calculation of machineries Requirement

Works proposed through this package

1	Earth work for bund	281770	m3
2	Earth work for desilting supply channel	63700	m3
3	Earth work cut open bund	32350	m3
4	M 10 Concrete	986	m3
5	M 15 Concrete	1895	m3
6	M 20 Concrete	560	m3

Out turn of 1 pocalin and 10 tippers per day (10tipper x 2 loads/hrx6hr/dayx 4m3/trip) 480 m3/day working Days per month - 20

Tippers - 10

For 1 month the quantity of earth work can be executed 9600 m3/month/ per Hydraulic Excavator & 10 tippers

Total quantity of earth work to be excuted 281770 m3

No of Hydraulic Excavators required to complete the tank bund earthwork 3

working period for earth work 10 Months

Quantity of earth work to be executed by the Hydraulic Excavator in 10 months period 10 x 3x 9600 = 2,88,000m3

Machineries required for earth work

1	Power Roller	2	No
2	Hydraulic Excavator	3	No
3	Tippers	15	No
4	Vibrated compactors	1	No
5	Water lorrries	3	No

Mixer machine 2m3/hr 6hr/day 12m3/day 10days/month 360 m3/month

Total quantity of concrete to be executed 3441 10 months

Mixer machine required 3 Time required to complete the concrete - 10months

Materials conveyance		Tippers/Lorries		
Cement	10	mt /trip	1 trip/day	10.00 mt /day
sand	5.66	mt /trip	2 trip /day	11.32 m3 /day
Meatl/ stone	5.60	mt /trip	2 trip /day	11.20 m3/ day
Total quantity of cement	1300	MT		
Lorry required	130			130
Total quantity of sand	2400			
Lorry required	2400	11.32	212	212
Total quantity of stone	5400			

Lorry required	5400	11.20	482			482	
Total Tippers/ Lorrries required for conveyance						824	
No of days required to transport the materials			824		5	165	days
Tippers required for conveyance			15	nos		165	days

Machineries required for Masonry works

1	Mixer machine	3	
2	Needle vibrator	2	
3	Tippers	5	
4	Water lorrries	1	
5	5 HP Diesel engine with pumset	1	

PACKAGE- II

Calculation of machineries Requirement

Works proposed through this package

1	Earth work for bund	174740	m3
2	Earth work for desilting supply channel	116610	m3
3	Earth work cut open bund	15510	m3
4	M 10 Concrete	408	m3
5	M 15 Concrete	1177	m3
6	M 20 Concrete	294	m3

Out turn of 1 pocalin and 10 tippers per day (10tipper x 2 loads/hrx6hr/dayx Tippers - 10 4m3/trip) 480 m3/day working Days per month - 20

For 1 month the quantity of earth work can be executed 9600 m3/month/ per Hydraulic Excavator & 10 tippers

Total quantity of earth work to be excuted 174740 m3

No of Hydraulic Excavators required to complete the tank bund earthwork 2

working period for earth work 10 Months

Quantity of earth work to be executed by the Hydraulic Excavator in 10 months period 10 x 2x 9600 = 1,92,000m3

Machineries required for earth work

1	Power Roller	1	No
2	Hydraulic Excavator	2	No
3	Tippers	12	No
4	Vibrated compactors	1	No
5	Water lorrries	2	No

Mixer machine	2m3/hr	6hr/day	12m3/day	10days/month		360	m3/month
Total quantity of concrete to be executed			1879			5	months
Mixer machine required	3	Time required to complete the concrete - 5months					
Materials conveyance			Tippers/Lorries				

Cement	10	mt /trip	1 trip/day			10.00 mt /day	
sand	5.66	mt /trip	2 trip /day			11.32 m3 /day	
Meatl/ stone	5.60	mt /trip	2 trip /day			11.20 m3/ day	
Total quantity of cement	1879	MT					
Lorry required	188					188	
Total quantity of sand	1550						
Lorry required	1550	11.32	137			137	
Total quantity of stone	3100						
Lorry required	3100	11.20	277			277	
Total Tippers/ Lorrries required for conveyance						602	
No of days required to transport the materials			602		5	120	days
Tippers required for conveyance			15	nos		120	days

Machineries required for Masonry works

1	Mixer machine	3
2	Needle vibrator	2
3	Tippers	5
4	Water lorrries	1
5	5 HP Diesel engine with pumset	1

PACKAGE- III

Calculation of machineries Requirement

Works proposed through this package

1	Earth work for bund	203750	m3
2	Earth work for desilting supply channel	74500	m3
3	Earth work cut open bund	26600	m3
4	M 10 Concrete	600	m3
5	M 15 Concrete	1200	m3
6	M 20 Concrete	500	m3

Out turn of 1 pocalin and 10 tippers per day — working Days per month - 20

Tippers - 10	(10tipper x 2 loads/hrx6hr/dayx 4m3/trip)	480	m3/day	
For 1 month the quantity of earth work can be executed	9600	m3/month/ per Hydraulic Excavator & 10 tippers		
Total quantity of earth work to be excuted	203750	m3		
No of Hydraulic Excavators required to complete the tank bund earthwork	3			
working period for earth work	8	Months		
Quantity of earth work to be executed by the Hydraulic Excavator in 8 months period			8 x 3x 9600 = 230400m3	

Machineries required for earth work

1	Power Roller	2	No
2	Hydraulic Excavator	3	No

3	Tippers	15	No
4	Vibrated compactors	1	No
5	Water lorrries	3	No

Mixer machine	2m3/hr	6hr/day	12m3/day	10days/month	360	m3/month
Total quantity of concrete to be executed			2300		6	months
Mixer machine required	3	Time required to complete the concrete - 6months				
Materials conveyance			Tippers/Lorries			
Cement	10	mt /trip	1 trip/day		10.00 mt /day	
sand	5.66	mt /trip	2 trip /day		11.32 m3 /day	
Meatl/ stone	5.60	mt /trip	2 trip /day		11.20 m3/ day	
Total quantity of cement	915	MT				
Lorry required	92				92	
Total quantity of sand	1600					
Lorry required	1600	11.32	141		141	
Total quantity of stone	3600					
Lorry required	3600	11.20	321		321	
Total Tippers/ Lorrries required for conveyance					554	
No of days required to transport the materials			554	5	111	days
Tippers required for conveyance			15	nos	111	days

Machineries required for Masonry works

1	Mixer machine	3	
2	Needle vibrator	2	
3	Tippers	5	
4	Water lorrries	1	
5	5 HP Diesel engine with pumset	1	

PACKAGE- IV

Calculation of machineries Requirement

Works proposed through this package

1	Earth work for bund	174000	m3
2	Earth work for desilting supply channel	82800	m3
3	Earth work cut open bund	20300	m3
4	M 10 Concrete	450	m3
5	M 15 Concrete	1200	m3
6	M 20 Concrete	350	m3

Out turn of 1 pocalin and 10 tippers per day				working Days per month -
Tippers - 10	(10tipper x 2 loads/hrx6hr/dayx 4m3/trip)	480	m3/day	20
For 1 month the quantity of earth work can be executed	9600	m3/month/ per Hydraulic Excavator & 10 tippers		
Total quantity of earth work to be excuted	174000	m3		

No of Hydraulic Excavators required to complete the tank bund earthwork 2

working period for earth work 10 Months

Quantity of earth work to be executed by the Hydraulic Excavator in 10 months period 10 x 2x 9600 = 192000m3

Machineries required for earth work

1	Power Roller	2	No
2	Hydraulic Excavator	2	No
3	Tippers	12	No
4	Vibrated compactors	1	No
5	Water lorrries	2	No

Mixer machine	2m3/hr	6hr/day	12m3/day	10days/month	360	m3/month	
Total quantity of concrete to be executed			2000		6	months	
Mixer machine required	3	Time required to complete the concrete - 6months					
Materials conveyance			Tippers/Lorries				
Cement	10	mt /trip	1 trip/day		10.00 mt /day		
sand	5.66	mt /trip	2 trip /day		11.32 m3 /day		
Meatl/ stone	5.60	mt /trip	2 trip /day		11.20 m3/ day		
Total quantity of cement	770	MT					
Lorry required	77				77		
Total quantity of sand	1400						
Lorry required	1400	11.32	124		124		
Total quantity of stone	4300						
Lorry required	4300	11.20	384		384		
Total Tippers/ Lorrries required for conveyance					585		
No of days required to transport the materials			585	5	117	days	
Tippers required for conveyance			15	nos	117	days	

Machineries required for Masonry works

1	Mixer machine	3	
2	Needle vibrator	2	
3	Tippers	5	
4	Water lorrries	1	
5	5 HP Diesel engine with pumset	1	

PACKAGE- V

Calculation of machineries Requirement

Works proposed through this package

1	Earth work for bund	149000	m3
2	Earth work for desilting supply channel	52000	m3
3	Earth work cut open bund	19500	m3
4	M 10 Concrete	1350	m3
5	M 15 Concrete	1100	m3
6	M 20 Concrete	650	m3

Out turn of 1 pocalin and 10 tippers per day (10tipper x 2 loads/hrx6hr/dayx 4m3/trip) 480 m3/day working Days per month - Tippers - 10 20

For 1 month the quantity of earth work can be executed 9600 m3/month/ per Hydraulic Excavator & 10 tippers

Total quantity of earth work to be excuted 149000 m3

No of Hydraulic Excavators required to complete the tank bund earthwork 2

working period for earth work 8 Months

Quantity of earth work to be executed by the Hydraulic Excavator in 8 months period 8 x 2x 9600 = 153600m3

Machineries required for earth work

1	Power Roller	2	No
2	Hydraulic Excavator	2	No
3	Tippers	12	No
4	Vibrated compactors	1	No
5	Water lorrries	2	No

Mixer machine 2m3/hr 6hr/day 12m3/day 10days/month 360 m3/month

Total quantity of concrete to be executed 2000 6 months

Mixer machine required 3 Time required to complete the concrete - 6months

Materials conveyance			Tippers/Lorries	
Cement	10	mt /trip	1 trip/day	10.00 mt /day
sand	5.66	mt /trip	2 trip /day	11.32 m3 /day
Meatl/ stone	5.60	mt /trip	2 trip /day	11.20 m3/ day

Total quantity of cement	1135	MT		
Lorry required	114			114
Total quantity of sand	2100			
Lorry required	2100	11.32	186	186
Total quantity of stone	6500			
Lorry required	6500	11.20	580	580
Total Tippers/ Lorrries required for conveyance				879

No of days required to transport the materials		879		5	176	days
Tippers required for conveyance		15	nos		176	days

Machineries required for Masonry works

1	Mixer machine	3
2	Needle vibrator	2
3	Tippers	5
4	Water lorrries	1
5	5 HP Diesel engine with pumset	1

REQUIREMENT OF EQUIPMENTS AND MATERIALS

PACKAGE NUMBER	Machineires required							Material required						
	Hydraulic Excavator 0.90m3/0.30m3 capacity	Power Roller 8-10T capacity	Vibarting power roller short width ± 0.90m	Tipper /Trucks	Water Tanker ± 10000litres	Concrete Mixer Machine 14/10 or 10/7cft	Concrete Vibrators (Needle Vibrators)	Cement in MT	Sand IN m^3	Steel IN M.T.	Metal 40MM IN m^3	Metal 20MM IN m^3	RR IN m^3	Remarks
Package No.01/NLR/VPM	3	2	1	15	3	3	3	1300	2400	13	3000	2400	2300	
Package No.02/NLR/VPM	2	1	1	12	3	3	3	820	1600	9	900	800	3200	
Package No.03/NLR/VPM	3	2	1	15	3	3	3	950	1600	15	900	600	1600	
Package No.04/NLR/VPM	2	2	1	12	2	3	3	800	1500	6	1000	800	2500	
Package No.05/NLR/VPM	2	2	1	12	2	3	3	1200	2250	6	1500	1300	3700	

Package no. 01/IAMWARM/WRD/NLR/Works/III/2009-2010

CONSTRUCTION METHODOLOGY - 18 Months

Sl No	Description of Item	Working period					Rainy season				Working period									Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Earth work excavation																			
1	Tank Bund	20000	20000	20000	20000	20000					20000	20000	20000	20000	20000	20000	20000	20000	21000	281000
2	Channel		5000	5000	5000	5000					5000	5000	5000	5000	5000	5000	5000	5000	3700	63700
3	Foundation		3000	3000	3000	3000						3000	3000	3000	3000	3000	3000	2350		32350
	Concrete																			
4	M 10 grade		65	65	65	65						65	65	65	65	65	65	65		715
5	M 15 grade		200	200	200	200						200	150	150	150	150	150	150		1900
6	M 20 grade		45	45	45	45						50	50	50	50	50	50	50	30	560
7	Random rubble masonry		200	200	200	200						200	200	150	150	150	150	150	150	2100

Package no. 02/IAMWARM/WRD/NLR/Works/III/2009-2010

CONSTRUCTION METHODOLOGY - 18 Months

Sl No	Description of Item	Working period					Rainy season				Working period									Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Earth work excavation																			
1	Tank Bund	13000	13000	13000	13000	13000					13000	13000	13000	13000	13000	13000	13000	13000	6000	175000
2	Channel	8000	8000	8000	8000	8000					8000	9000	9000	9000	9000	9000	8000	8000	8000	117000
3	Foundation		1500	1500	1500	1500						1500	1500	1500	1500	1500	1500	600		15600
	Concrete																			
4	M 10 grade	25	35	35	35	35						35	35	35	35	35	35	35		410
5	M 15 grade		200	200	200	200						200	150	150	150	150	150	150		1900
6	M 20 grade		10	25	25	25						30	30	30	30	30	30	30		295
7	Random rubble masonry		100	100	150	150						150	150	150	150	150	150	150	150	1700

Package no. 03/IAMWARM/WRD/NLR/Works/III/2009-2010

CONSTRUCTION METHODOLOGY - 18 Months

Sl No	Description of Item	Working period					Rainy season				Working period									Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Earth work excavation																			
1	Tank Bund	12000	15000	15000	15000	15000					15000	15000	15000	15000	15000	15000	15000	15000	12000	204000
2	Channel		5000	6000	6000	6000					6000	6000	6000	6000	6000	6000	6000	6000	3700	74700
3	Foundation		2000	2000	3000	3000						3000	3000	3000	2000	2000	2000	2000		27000
	Concrete																			
4	M 10 grade		50	50	50	50						50	50	50	55	65	65	65		600
5	M 15 grade		100	100	100	100						100	100	150	150	100	100	100		1200
6	M 20 grade		40	40	40	40						45	45	45	45	45	45	40	30	500
7	Random rubble masonry		150	150	150	150						150	100	100	100	100	100	100	50	1400

Package no. 04/IAMWARM/WRD/NLR/Works/III/2009-2010

CONSTRUCTION METHODOLOGY - 18 Months

Sl No	Description of Item	Working period					Rainy season				Working period									Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Earth work excavation																			
1	Tank Bund	12000	12000	12000	15000	15000					12000	12000	12000	12000	12000	12000	12000	12000	12000	174000
2	Channel		6000	7000	7000	7000					6000	7000	7000	7000	7000	6000	6000	6000	4000	83000
3	Foundation		2000	2000	2000	2000						2000	2000	2000	2000	2000	2000	1000		21000
	Concrete																			
4	M 10 grade		40	40	40	50						40	40	40	40	40	40	40		450
5	M 15 grade		100	100	100	100						100	100	150	150	100	100	100		1200
6	M 20 grade		25	25	30	30						30	30	30	30	30	30	30	30	350
7	Random rubble masonry		100	100	100	100						100	100	100	100	100	50	50	50	1050

Package no. 05/IAMWARM/WRD/NLR/Works/III/2009-2010

CONSTRUCTION METHODOLOGY - 18 Months

Sl No	Description of Item	Working period					Rainy season				Working period									Total
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	
	Earth work excavation																			
1	Tank Bund	12000	12000	12000	12000	12000					12000	12000	12000	12000	12000	11000	6000	6000	6000	149000
2	Channel		4000	4000	4000	4000					4000	4000	4000	4000	4000	4000	4000	4000	4000	52000
3	Foundation		2000	2000	2000	2000						2000	2000	2000	2000	2000	1000	1000		20000
	Concrete																			
4	M 10 grade		100	100	100	100					150	150	150	100	100	100	100	100		1350
5	M 15 grade		100	100	100	100						100	100	100	100	100	100	100		1100
6	M 20 grade		60	60	60	60					60	50	50	50	50	50	50	50	30	680
7	Random rubble masonry		100	100	100	100					150	150	150	100	100	100	100	100	50	1400

Sl. No.	Description of Items
1	Clearing Scrub jungle complete as per standard specifications.
2	Dismantling, with out damaging the near by structures if any clearing away and carefully stacking material useful for reuse for any thickness of brick or stone masonry in Cement Mortar walls under 3 (Three) meters high complying with standard specification and as directed by the Engineer..
3	Dismantling with out damaging the near by structures if any ,clearing away plain cement concrete as directed by the Engineer in charge of the works as per technical Specification and as directed by the Engineer..
4	Earth work excavation in all kind of soils except rock requiring blasting for open excavation and depositing the earth in places shown by the engineer with all leads and lifts including dewatering by baling , pumping, diverting water wherever necessary and spreading the earth at site in layers not exceeding 250 mm thickness breaking clods neat sectioning etc. including watering as desired by the engineer in charge based on the work for cut open the bund
5	Earthwork excavation for foundation in all soils and depositing on bank inclusive of shoring, strutting and bailing out water wherever necessary, well rammed, consolidated and depositing the surplus earth in places as shown by the departmental officers with an initial lead of 10 (Ten) metres and initial lift of 2 (Two) metres and clearing, leveling the site complete as per standard specifications.
6	Earthwork in all soils except hard rock requiring blasting and conveying for formation of bund with lead of **0 to 300 metre** deploying earth moving machinery and tippers for formation of bund in layers of suitable thickness, depending upon type of compaction equipment deployed, and not exceeding 23 cm thickness, benching of slopes prior to placement of earth fill, breaking clods, watering to OMC (optimum moisture content) and compaction of each layer to 95% Proctor density through deployment of appropriate compaction equipment (8-10 T power roller / vibratory deployment of appropriate width (+ 0.90 m width drum) power roller or vibratory power roller / fuel-operated or elect – operated vibratory plate compactors, ensuring compaction of designed bund section including side slopes, complete as per specification.
7	Earthwork deploying earth moving machinery for de-silting channels, depositing earth on banks for forming bund , well consolidated and dressed, including sectioning and jungle clearance etc. complete. (**having width upto 3 m)** complying with the standard specification
8	Turfing in slopes of bund including watering and fixing with a lead of up to 3 KMCT complete as per standard specifications.
9	Providing and placing in Position of Cement concrete M7.5 grade with well graded aggregates and the nominal maximum size of coarse aggregate of 40 mm mixing by mixer machine including dewatering by bailing/pumping wherever necessary laying the concrete in layers and in bays with all leads and lifts , compacting and finishing the surface watering curing, so as to attain the profile and strength specified in the drawings for various depths below ground level and various heights above ground level as per the direction of the Engineer and complying with standard specification
10	Reinforced Cement concrete M20 grade for Cement Concrete works with well graded hard aggregates and the nominal maximum of coarse aggregate of 20 mm gauge weigh batching the ingredients and mixing in approved mixers/batching plant (to produce concrete of the specified characteristic strength of 20N/mm^2 at 28days) including dewatering of placement site by bailing/pumping and by diverting wherever necessary

	laying the concrete in layers and in bays, compacting and finishing the surface water curing so as to attain the profile and strength specified in the approved drawing and specification and including the cost component of providing rigid and smooth centering and shuttering wherever necessary but excluding cost component of providing fabrication of reinforcements for various depths below ground level and various heights above ground level as per the direction of the Engineer complete in all respect but excluding the cost and placing of reinforced grill in position complying with standard specification
11	Supplying, fabricating & placing in position of ribbed tor steel grills for Reinforcement of RCC works including cost of steel and binding wire and labour charges for de-coiling, cutting, bending and tying the grills complete as per standard specifications.
12	Providing cut stone roughly dressed and set in cement mortar 1:3 (one cement and three sand) including fixing in position etc complete as directed by the Engineer in charge of work complying with the standard specification
13	Random rubble masonry in cement mortar 1:4 (one cement and four sand)mixed using mixer machine using new hard rough stone bond stones for various depth and height below and above ground level with all leads and lifts including simultaneous flush pointing the exposed surface with same mortar and withal incidental charges such as scaffolding and dewatering by baling pumping and diverting water wherever required water wherever required finishing curing complete so as to attain the profile and strength in the drawing and specification including providing shrinkage ,construction joint for closing the days work at intervals specified wherever required and as directed by the Engineer complete complying with specification
14	Plastering with Cement Mortar 1:4 (One cement and four sand) 20mm thick including all incidental chares such as scaffolding finishing curing for various depth and height below and above ground level etc complete as directed by the Engineer in charge of work complying with the standard specification
15	Refilling with excavated earth (other than sand) available at site with all leads and lifts for filling the cut open portion wherever necessary including breaking clods sectioning etc. including extra watering and compaction of Earth Fill layers earth fill layers to specified density of 95% of proctor density through deployment of appropriate compaction equipment as directed by the Engineers and complying with standard specification
16	Rough stone dry packing for apron and revetment using new hard granite stone including stacking the stones for Pre-measurements complying with standard specification.
17	Supplying demarcation R.C.C. pre cast post in Cement concrete M15 grade with well graded aggregates and the nominal maximum size of coarse aggregate of size 20 mm of size 0.20 x 0.20 x 1.30 M and fixing the post 40 Cm depth below ground level, the post includes using 4 numbers of 8 mm RTS main rod to a length of 1.325 M, using 6 mm MS 9 numbers as strips with steel centering and painting the post with enamel paint to a height of 0.80 M around the post etc. complete and conveying the post to the site of demarcation boundary such as tank bund and foreshore including earth work excavation for foundation in HSC, and the post embedded by using Cement concrete M7.5 grade with well graded aggregates and the nominal maximum size of coarse aggregate of 40 mm, as per the direction of the Engineers and complying with standard specification
18	Supplying and fixing of 'V' notch made up of steel plate of 6 mm thick and fixing it in concrete of grade M-10 using 20 mm grade metal to IS specified to the profile specified in the drawing including the cost of earthwork and all materials etc. complete as per the direction of the Engineers and complying with standard specification for Measuring device.

19	Fabricating, supplying and fixing of steel screw gearing shutters of following sizes made out of 75 x 40 mm M.S. Medium Channel for outer frame with same section of vertical stiffeners 3 Nos. with 10mm skin plate. The grooves 2 Nos. to a required height made out of 100 x 50 mm M.S. Channel with hold fast arrangements. The Top Beam to be made out of 200 x 100mm R.S. joists 2 Nos. to a width of shutter plus 0.60mm to a width of shutter plus 0.30M for bearing. Screw Gearing arrangements to be made using 80mm dia M.S. shaft to a required height duly threaded with capstain head arrangements [heavy type] with ball bearing arrangements suitable to operate the screw gearing rod with operating key. Necessary bed bolts and fish plates to be provided for anchorage arrangements to place the R.S.Joist in position. All the components to be painted with two coats of A.C. Black paint over one coat of quality red oxide (for Weir and Sluices) for the size of shutter 1.00 m X 1.00m.
20	Providing and placing in Position of Cement concrete of grade M10 using well graded aggregates and with maximum nominal size of 20mm to I.S. specified grading mixing in mixer machine (to produce concrete of the specified characteristic strength of 10N/mm2 at 28 days) including dewatering the placement site laying Vibrating, compacting and finishing the surface with all leads and lifts watering, curing complete so as to attain the profile and strength specified in the drawing and specification for various height above ground level complete as directed by the Engineer complying with standard specification..
21	Cement concrete M15 grade with well graded aggregates and the nominal maximum size of coarse aggregate of size 20mm weigh batching the ingredients and mixing in approved mixers/batching plant (to produce concrete of the specified characteristic strength of 15N/mm^2 at 28days) including dewatering the placement site by bailing/pumping and by diverting wherever necessary laying the concrete in layers and in bays vibrating, compacting and finishing the surface water curing so as to attain the profile and strength specified in the approved drawing and specification and including the cost component of providing rigid and smooth centering and shuttering wherever necessary various heights above and below ground level and as per the direction of the Engineers complying with standard specification.
22	Earthwork in all soils except hard rock requiring blasting and conveying for formation of bund with lead of **0 to 100 metre** deploying earth moving machinery and tippers for formation of bund in layers of suitable thickness, depending upon type of compaction equipment deployed, and not exceeding 23 cm thickness, benching of slopes prior to placement of earth fill, breaking clods, watering to OMC (optimum moisture content) and compaction of each layer to 95% Proctor density through deployment of appropriate compaction equipment (8-10 T power roller / vibratory deployment of appropriate width (+ 0.90 m width drum) power roller or vibratory power roller / fuel-operated or elect – operated vibratory plate compactors, ensuring compaction of designed bund section including side slopes, complete as per specification for forming foreshore bund.
23	Earth work excavating and depositing on bank with a lead of 10 m & initial lift of 2 m in Hard stiff clay, stiff black cotton, hard red earth, shales, murram, gravel, stoney earth and earth mixed with small size of boulders hard gravelly soil with a lead of 0 to 3 KM CT, complying with standard specification and as directed by the departmental officers, complete including extra watering and compaction of earth fill layers to specified density of 95% of proctor density @ OMC through deployment of appropriate compaction equipment including trimming the side slope for side compaction t (standard 8-10 ton power roller; short width drum vibratory power roller; vibratory power roller; fuel-operated vibratory plate compactor of adequate capacity, as per space available for compaction) for forming flood bank.

24	Cement concrete M20 grade with well graded aggregates and the nominal maximum size of coarse aggregate of size 20mm weigh batching the ingredients and mixing in approved mixers/batching plant (to produce concrete of the specified characteristic strength of 15N/mm^2 at 28days) including dewatering the placement site by bailing/pumping and by diverting wherever necessary laying the concrete in layers and in bays vibrating, compacting and finishing the surface water curing so as to attain the profile and strength specified in the approved drawing and specification and including the cost component of providing rigid and smooth centering and shuttering wherever necessary various heights above and below ground level and as per the direction of the Engineers complying with standard specification.
25	Pointing with cement mortar 1:3(one cement and three sand) for flush pointing in Random rubble masonry using mixer machine for mixing water complying with standard specification.
26	Fabricating and supply of Teak wood plug size of 60 cm height . The plug rod with 63 mm mild steel rod size of 5 m height.The plug rod top side , middle, center and bottom side covered iron stap – 3 nos. Plate thickness size 3mm steel plate . The plug hold size 12 cm to 15 cm Dia. The plug rod fittings top side 2 numbers 200 X 100 mm channel total length of 1.80 metre -2 nos. and anchor bolt with plate 2 sets and the headset with thrust bearing type with Hexagonal nuts one set, with locking arrangements key one number the plug painted and conveyance to the work site including loading, unloading . (The rates should be inclusive of all taxes and duties and including fixing charges etc., complete complying specification and ad directed by the Engineer.)
27	Centering and sofitts of Reinforced concrete slabs plain surface including structing upto 3m height M.S sheet of size 90 cm x 60cm and B.G 10 Gauge screws with welding M.S Angle of size 25mm x 25mm lide over silver oad (country wood) joist of size 6.5cm spaced at about 90cm c/c and supported casurnia poles of 10cm to 13cm dia. Complying with standard specification.
28	Supplying and fixing of TBL stones and B.M. stones the exposed surface neatly dressed to a height of 15 cm including cutting letters 10x10x25 cm.as directed by the departmental officers.
29	Clean removal of lime plaster from walls and racking out joints 20 mm deep and Plastering with cement Mortar 1:4 (One cement and four sand) 20 mm thickness etc., complete complying with standard specification.

30	Providing Granolythic patern floor finish of 25mm thick with plain cement concrete 1:2:4(one part of cement , Two part of sand and four part of HBG Stone Jelly using 10mm-12mm size HBG Stone jelly and top rutted smooth and finishing (a) spacing not exceeding 3m in both direction using groove cutting machinery etc., complete complying with standard specification

No	T No / A	WUA	Name	Village	Block	District	Type of work	Remarks
1	1	NSB 1	Venmaniyathur Tank WUA	Venmaniyathur	Olakkur	Villupuram	St.TB, RE Sluices, RE weir, DSchl	
2	2	NSB 2	Pattanam Tank WUA	Pattanam	Olakkur	Villupuram	St.TB, RC Sluices, REweir,DSchl	
3	3	NSB 3	Agoor Big Tank WUA	Agoor	Mailam	Villupuram	St.TB, Rc Sluices,RE weir DSchl	
4	4	NSB 4	Pampundi Big Tank WUA	Pampundi	Mailam	Villupuram	St.TB, RC sluice, RE weir, DSchl	
5	5	NSB 5	Salai Tank WUA	Salai	Mailam	Villupuram	St.TB, RC Sluices,, DSchl	
6	6	NSB 6	Kollar Tank WUA	Kollar	Mailam	Villupuram	St.TB,, RE sluice, RE weir, DSchl	
7	7	NSB 7	Vempoondi Tank WUA	Vempoondi	Mailam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
8	8	NSB 8	Kallakolathur Hissa Tank WUA	Kallakolathur&veliyanur	Mailam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
9	9	NSB 9	Kolliyankunam Big & Chitteri Tank WUA	Kolliyankunam	Mailam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
10	10	NSB 10	peramandur Tank WUA	Peramandur	Mailam	Villupuram	St.TB, RC Sluices, , RE weir DSchl	
11	11	NSB 11	T. Kenipattu Tank WUA	T. Kenipattu	Mailam	Villupuram	St.TB, RC Sluices, , RE weir DSchl	
12	12	NSB 12	Kidangal Tank WUA	Kidangal	Marakkanam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
13	13	NSB 13	Kaveripakkam Tank WUA	Kaveri pakkam	Marakkanam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
14	14	NSB 14	Eraiyanur Tank WUA	Eraiyanur	Marakkanam	Villupuram	St.TB, RC sluice, RE weir, DSchl	
14	14	NSB 14	Eraiyanur Dividing Dam	Eraiyanur	Marakkanam	Villupuram	Rep.to Anicut, Streng the flood banks, Protworks(Retaining walls & Revetment), Renewal of SG Shutter Arrange	
15	15	NSB 15	Annamputhur Tank WUA	Annamputhur	Marakkanam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
16	16	NSB 16	Omandur Tank WUA	Omandur	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
17	17	NSB 17	Kilchittamur Tank WUA	Kilchittamur	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
18	18	NSB 18	Vengai Tank WUA	Vengai	Marakkanam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
19	19	NSB 19	KilEdayalam Tank WUA	KilEdayalam	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
20	20	NSB 20	Jakkampettai Big Tank	Jakkampettai	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
20	20	NSB 20	Jakkampattai Chitteri Tank WUA	Jakkampettai	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
21	21	NSB 21	Karnavur Big Tank	Karnavur	Marakkanam	Villupuram	St.TB, RE weir ,DSchl	
21	21	NSB 21	Karnavur Chitteri Tank WUA	Karnavur	Marakkanam	Villupuram	RE sluice	
22	22	NSB 22	Singanur Big	singanur	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
22	22	NSB 22	Singanur Chitteri Tank WUA	singanur	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
23	23	NSB 23	Thenkalavai Tank WUA	Thenkalavai	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
24	24	NSB 24	Thenpasiyar Tank WUA	Thenpasiyar	Marakkanam	Villupuram	St.TB, RE Sluices, RE weir, DSchl	
25	25	NSB 25	Vittralapuram Tank WUA	vittalapuram	Marakkanam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
26	26	NSB 26	Attur Tank WUA	Attur	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
27	27	NSB 27	Molasur Tank WUA	Molasur	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
28	28	NSB 28	Endiyur Big Tank WUA	Endiyur	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
29	29	NSB 29	Elvalapakkam Hissa Tank WUA	Elavalapakkam &Ten Nerkunam	Marakkanam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	

30	30	NSB 30	Kovadi Tank WUA	Kovadi	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir DSchl	
31	31	NSB 31	Kattalai Tank WUA	Kattalai	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir DSchl	
32	32	NSB 32	Perumukkal Tank WUA	Perumukkal	Marakkanam	Villupuram	RC Sluices, RE weir DSchl	
33	33	NSB 33	Palamukkal Tank WUA	Palamukkal	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir,DSchl	
34	34	NSB 34	Kilsiviri Tank WUA	Kilsiviri	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir.	
35	35	NSB 35	T. Nallalam Tank WUA	T. Nallalam	Marakkanam	Villupuram	St.TB, RE weir, DSchl	
36	36	NSB 36	Nalmukkal Tank WUA	Nalmukkal	Marakkanam	Villupuram	St.TB, RE sluice, RE weir,DSchl	
37	37	NSB 37	Brammadesam Tank WUA	Brammadesam	Marakkanam	Villupuram	St.TB, RE weir ,DSchl	
38	38	NSB 38	Vanniper Tank WUA	Vanniper	Marakkanam	Villupuram	St.TB, RC Sluices, RC weir, DSchl	
39	39	NSB 39	kurur Big & Chitteri Tank WUA	Kurur	Marakkanam	Villupuram	St.TB, RC Sluices, RE sluice, RE weir.	
40	40	NSB 40	Alakuppam Tank WUA	Alankuppam	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
41	41	NSB 41	Endur Tank WUA	Endur	Marakkanam	Villupuram	RE sluice, RE weir, DSchl	
42	42	NSB 42	Munnur Big	Munnur	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
42	42	NSB 42	Munnur Chitteri Tank WUA	Munnur	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
43	43	NSB 43	Kulathur Tank WUA	Kulathur	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir	
44	44	NSB 44	Adavallikuttan Tank WUA	Adavallikuttan	Marakkanam	Villupuram	St.TB, RE weir	
45	45	NSB 45	Omipper Tank WUA	Omipper	Marakkanam	Villupuram	St.TB, RC Sluices, RE sluice, RC weir, DSchl	
46	46	NSB 46	Chittanapakkam Tank WUA	chittanapakkam	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
47	47	NSB 47	Thirukkanur Tank WUA	Thirukkanur	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir	
48	48	NSB 48	Urani mangalatha Eri WUA	Urani	Marakkanam	Villupuram	RE Sluices, RE weir.	
49	49	NSB 49	Anumandhai Kar Eri	Anumandhai	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
49	49	NSB 49	Anumandhai Vanji Kuttai Tank WUA	Anumandhai	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
50	50	NSB 50	Kunimedu Tank WUA	Kunimedu	Marakkanam	Villupuram	St.TB(part)	
51	51	NSB 51	Nallavur Tank WUA	Nallavur	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
52	52	NSB 52	Thenkodipakkam Tank WUA	Thenkodipakkam	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
53	53	NSB 53	Perumpakkam Tank WUA	Perumbakkam	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
54	54	NSB 54	Parikkalpattu Tank WUA	Parikkal pattu	Vanur	Villupuram	St.TB, RC sluice,Reweir, DSchl	
55	55	NSB 55	Adanapattu Tank WUA	Adanapattu	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
56	56	NSB 56	Thensiruvalur Hissa Tank WUA	Thensiruvalur & Adhanapattu	Vanur	Villupuram	St.TB, RC Sluices, RE sluice, RE weir, DSchl	
57	57	NSB 57	Terkunam Tank WUA	Terkunam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
58	58	NSB 58	Kondamur Tank WUA	Kondamur	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
59	59 A	NSB 59	Kiliyanur Big	Kiliyanur	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
59	59 B	NSB 59	Kiliyanur Small Tank	Kiliyanur	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
59	59 C	NSB 59	Kiliyanur Pudu eri WUA	Kiliyanur	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	

60	60	NSB 60	Kunnam Tank WUA	Kunnam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
61	61	NSB 61	Semangalam Tank WUA	Semangalam &elavampattu	Vanur	Villupuram	St.TB, RC Sluices, RE weir,DSchl	
62	62	NSB 62	Putturai Tank WUA	Putturai	Vanur	Villupuram	St.TB, RC Sluices, RE weir,DSchl	
63	63	NSB 63	Vanur Big Tank	Vanur	Vanur	Villupuram	St.TB, RE sluice, DSchl	
63	63 A	NSB 63	Vanur Small Tank WUA	Vanur	Vanur	Villupuram	St.TB, RE sluice, DSchl	
64	64	NSB 64	Pulichappalam Big WUA	Pulichapallam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
64	64 A	NSB 64	Pulichappalam Chitteri	Pulichapallam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
65	65	NSB 65	Kattaram Pakkam Tank WUA	Kattaram Pakkam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
66	66	NSB 66	Olundiyapattu Tank WUA	Olundiyapattu	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
67	67	NSB 67	Anbakkam Tank WUA	Anbakkam	Vanur	Villupuram	St.TB, RC sluice, RE weir, DSchl	
68	68	NSB 68	Peravur Tank WUA	Peravur	Vanur	Villupuram	St.TB, RC Sluices, RE sluice,REweir DSchl	
69	69	NSB 69	Ulagapuram Perumal Eri & Nagal Eri WUA	Ulagapuram	Vanur	Villupuram	St.TB, RC Sluices, RE weir.	
70	70	NSB 70	T.Parangani Tank WUA	T. Parangani	Vanur	Villupuram	St.TB, RE sluice, RE weir.	
71	71	NSB 71	Irumbai Tank WUA	Irumbai	Vanur	Villupuram	St.TB, RE sluice, DSchl	
72	72	NSB 72	Rayapudupakkam Tank WUA	Rayapudupakkam	Vanur	Villupuram	St.TB, RC sluice, DSchl	
73	73	NSB 73	Raya ottai Tank WUA	Raya ottai	Vanur	Villupuram	RC weir, DSchl	
74	74	NSB 74	Kodur Tank WUA	Kodur	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
75	75	NSB 75	Nesal Big Tank WUA	Nesal	Vanur	Villupuram	St.TB, RC sluice,REweir, DSchl	
76	76	NSB 76	karattai Big Tank WUA	Karattai	Vanur	Villupuram	St.TB, RE sluice, RE weir.	
77	77	NSB 77	Aruvadai Tank WUA	Aruvadai	Vanur	Villupuram	St.TB, RE sluice,REweir, DSchl	
78	78	NSB 78	Konjumangalam Tank WUA	Konjumangalam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
79	79	NSB 79	Koluvari Tank WUA	Koluvari	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
80	80	NSB 80	Kaluperumpakkam Tank WUA	Kaluperumpakkam	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
81	81	NSB 81	Tailapuram Tank WUA	Tailapuram	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
82	82	NSB 82	Thenagaram Tank WUA	Thenagaram	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
83	83	NSB 83	Vilvanatham Big & Chitteri Tank WUA	Vilvanatham	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
84	84	NSB 84	Devanandal Tank WUA	Devanandal	Vanur	Villupuram	St.TB, RC Sluices, RE weir	
85	85	NSB 85	Pudukkupam Hissa Tank WUA	Pudukuppam, Edacheri, Uppu Velur	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	

No	Cluster	ID	Tank Name	Village	Block	District	Type of work	Remarks
1	Cluster I	1	Venmaniyathur	Venmaniyathur	Olakkur	Villupuram	St.TB, RE Sluices, RE weir, DSchl	
1	Cluster I	6	Kollar	Kollar	Mailam	Villupuram	St.TB,, RE sluice, RE weir, DSchl	
1	Cluster I	5	Salai	Salai	Mailam	Villupuram	St.TB, RC Sluices,, DSchl	
1	Cluster I	7	Vempoondi	Vempoondi	Mailam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
1	Cluster I	4	Pampoondi	Pampoondi	Mailam	Villupuram	St.TB, RC sluice, RE weir, DSchl	
1	Cluster I	3	Agoor	Agoor	Mailam	Villupuram	St.TB, Rc Sluices,RE weir DSchl	
1	Cluster I	2	Pattanam	Pattanam	Olakkur	Villupuram	St.TB, RC Sluices, REweir,DSchl	
2	Cluster II	20, 21	Jakkam pettai Big Tank & Chitteri	Jakkam pettai	Marakkanam	Villupuram	St.TB, RE Sluices,RE weir, DSchl	
2	Cluster II	24, 25	Singanur Big & Small Tank	Singanur	Marakkanam	Villupuram	St.TB, RC sluice, DSchl	
2	Cluster II	10	Perumandur	Perumandur	Mailam	Villupuram	St.TB, RC Sluices, , RE weir DSchl	
2	Cluster II	12	Gidangal	Tindivanam	Marakkanam	Villupuram	St.TB,, RE sluice, RE weir, DSchl	
2	Cluster II	13	Kaveri Pakkam		Marakkanam	Villupuram	St.TB, RC Sluices,, DSchl	
3	Cluster III	22 ,23	Karunavur Big & Small Tank	Karunavur	Marakkanam	Villupuram	St.TB, RE Sluices, RE weir, DSchl	
3	Cluster III	27	Tenpasiyar	Tenpasiyar	Marakkanam	Villupuram	RC Sluices, RE weir, St.TB, DSchl	
3	Cluster III	14	Eraiyanur	Eraiyanur	Marakkanam	Villupuram	St.TB, RC Sluices, RE Weir, DSchl	
4	Cluster IV	9	Kolliyankunam Big & Small TANk	Kolliyankunam	Mailam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
4	Cluster IV	8	Kallakolathur Hissa Tank	Kallakolathur & Velliyanur	Mailam	Villupuram	St.TB, RC Sluices, RE sluice, RE weir, DSchl	
4	Cluster IV	11	T.Kenipattu	T.Kenipattu	Mailam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
4	Cluster IV	26	Thenkalavai	Thenkalavai	Marakkanam	Villupuram	St.TB, RC Sluices, RE Weir, DSchl	
4	Cluster IV	19	Kil idayalam	Kil idayalam	Marakkanam	Villupuram	St.TB, RC sluice, RE weir, DSchl	
5	Cluster V	15	Annamputhur	Annamputhur	Marakkanam	Villupuram	St.TB, RC sluice, RE weir, DSchl	
5	Cluster V	18	Vengai	Vengai	Marakkanam	Villupuram	St.TB, Rc Sluices,RE weir DSchl	
5	Cluster V	16	Omandur	Omandur	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
5	Cluster V	17	Kil Chittamur	Kil Chittamur	Marakkanam	Villupuram	St.TB,RE weir, DSchl, RE sluice	
5	Cluster V	57	Tenkodippakkam	Tenkodippakkam	Vanur	Villupuram	St.TB, RC Sluices, REweir,DSchl	
5	Cluster V	63	Kondamur	Kondamur	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
5	Cluster V	61	Ten siruvalur Hissa Tank	Ten siruvalur & Adanapattu	Vanur	Villupuram	St.TB,RE sluice, RC Sluice, RE weir, Dschl	
5	Cluster V	60	Adanapattu Chitteri	Adanapattu	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
5	Cluster V	67	Kunnam	Kunnam	Vanur	Villupuram	St.TB, RC Sluices, RE Weir, DSchl	
5	Cluster V	58	Perumbakkam	Perumbakkam	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	

5	Cluster V	59	Parikkal Pattu	Parikkal Pattu	Vanur	Villupuram	St.TB, RC sluice, RE weir, DSchl	
6	Cluster VI	28	Vitalapuram	Vitalapuram	Marakkanam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
6	Cluster VI	29	Attur	Attur	Marakkanam	Villupuram	St.TB, RC Sluice, RE Weir, DSChl	
6	Cluster VI	31	Endiyur	Endiyur	Marakkanam	Villupuram	St. TB , RC Sluice, RE Weir, DSChl	
6	Cluster VI	34	Kattalai	Kattalai	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
6	Cluster VI	32	Elavalapakkam Hissa Tank	Elavalapakkam & Ten Nerkunam	Marakkanam	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
6	Cluster VI	30	Molasur	Molasur	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
6	Cluster VI	33	Kovadi	Kovadi	Marakkanam	Villupuram	St.TB, RC sluice, Re weir, DSchl	
7	Cluster VII	35	Perumukkal	Perumukkal	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
7	Cluster VII	36	Palamukkal	Palamukkal	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir,	
7	Cluster VII	38	Nallalam	Nallalam	Marakkanam	Villupuram	St.TB, RE weir	
7	Cluster VII	39	Nalmukkal	Nalmukkal	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
7	Cluster VII	44	Endur	Endur	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
7	Cluster VII	40	Brammadesam	Brammadesam	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
7	Cluster VII	41	Vannipper	Vannipper	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
7	Cluster VII	43	Alanguppam	Alanguppam	Marakkanam	Villupuram	St.TB, RC Sluices, RE sluice, RE weir, DSchl	
7	Cluster VII	42	Kurur Big & Small Tank	Kurur	Marakkanam	Villupuram	St.TB, RE sluice, RE weir	
8	Cluster VIII	37	Kilsiviri	Kilsiviri	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
8	Cluster VIII	77	Peravur	Peravur	Vanur	Villupuram	St.TB, RC sluice, RE weir, DSchl	
8	Cluster VIII	78	Ulagapuram Perumal Eri & Nagal eri	Ulagapuram	Vanur	Villupuram	St.TB, RC Sluices, RE sluice, RE weir, DSchl	
8	Cluster VIII	56	Nallavur	Nallavur	Vanur	Villupuram	St.TB, RC sluice, RE weir, DSchl	
8	Cluster VIII	79	Parangani	Parangani	Vanur	Villupuram	St.TB, RE sluice, DSchl, RE weir	
8	Cluster VIII	94	Pudukkuppam	Pudukkuppam	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
8	Cluster VIII	85	Karattai	Karattai	Vanur	Villupuram	St.TB, RE sluice, RE Weir	
8	Cluster VIII	86	Aruvadai	Aruvadai	Vanur	Villupuram	St.TB, RE sluice, RE weir, DSchl	
9	Cluster IX	64,65,66	Kiliyanur Periya eri , Chitteri & Pudu eri	Kiliyanur	Vanur	Villupuram	St.TB, RE sluice, RE weir, DSchl	
9	Cluster IX	91	Ten agaram	Ten agaram	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
9	Cluster IX	68	Semangalam Hissa eri	Semangalam & Elavampattu	Vanur	Villupuram	St.TB, RC Sluices, DSchl	
9	Cluster IX	62	Terkunam	Terkunam	Vanur	Villupuram	St.TB, RC Sluices, RE sluice, RE weir, DSchl	
9	Cluster IX	90	Tailapuram	Tailapuram	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
9	Cluster IX	87	Konjumangalam	Konjumangalam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
10	Cluster X	72, 73	Pulicha pallam periya eri & Chitteri	Pulicha pallam	Vanur	Villupuram	St.TB, RC Sluices, RE Weir, DSchl	

10	Cluster X	74	Kattaram bakkam	Kattaram bakkam	Vanur	Villupuram	St.TB, RC Sluices, RE Weir, DSchl	
10	Cluster X	75	Olundiyapattu	Olundiyapattu	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
10	Cluster X	83	Kodur	Kodur	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
10	Cluster X	92	vilvanatham	vilvanatham	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
10	Cluster X	88	Koluvari	Koluvari	Vanur	Villupuram	St.TB, RC Sluices,RE weir, DSchl	
10	Cluster X	89	Kalu perum bakkam	Kalu perum bakkam	Vanur	Villupuram	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
10	Cluster X	84	Nesal Periya eri	Nesal	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
10	Cluster X	82	Raya ottai	Raya ottai	Vanur	Villupuram	RE weir, DSchl	
10	Cluster X	81	Raya pudu Kuppam	Raya pudu Kuppam	Vanur	Villupuram	St.TB, RC Sluices, Dschl	
10	Cluster X	76	Anbakkam	Anbakkam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
11	Cluster XI	70, 71	Vanur periya eri & Chitteri	Vanur	Vanur	Villupuram	St.TB, RC Sluices, DSchl	
11	Cluster XI	80	Irumbai	Irumbai	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
11	Cluster XI	69	Putturai	Putturai	Vanur	Villupuram	St.TB, RE Sluices, DSchl	
12	Cluster XII	93	Devanandal	Devanandal	Vanur	Villupuram	St.TB, RC Sluices, RE weir,	
12	Cluster XII	45, 46	Munnur Big & Small Tank	Munnur	Marakkanam	Villupuram	St.TB, RC Sluices, RE sluice, RE weir, DSchl	
12	Cluster XII	48	Adavallikuttan	Adavallikuttan	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
12	Cluster XII	49	Omipper	Omipper	Marakkanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
12	Cluster XII	50	Chittanapakkam	Chittanapakkam	Marakkanam	Villupuram	St.TB, RC Sluices,RE weir, DSchl	
12	Cluster XII	47	Kulattur	Kulattur	Marakkanam	Villupuram	St.TB, RC Sluices, RE sluice, RE weir, DSchl	
13	Cluster XIII	51	Tirukkanur	Tirukkanur	Marakkanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
13	Cluster XIII	52	Urani Mangalatha eri	Urani	Marakkanam	Villupuram	St.TB, RE Sluices, RE weir, DSchl	
13	Cluster XIII	53	Anumanthai Kar eri & Vanji kuttai	Anumanthai	Marakkanam	Villupuram	St.TB, RC sluice, RE weir, DSchl	
13	Cluster XIII	55	Kunimedu	Kunimedu	Marakkanam	Villupuram	St.TB,	

No.	Name of Tank	Village	Block	District	Ayacut	Type of work	Remarks
1	Venmaniyathur Tank	Venmaniattur	Olakur	Villupuram	46.47	St.TB, RE Sluices, RE weir, DSchl	
2	Pattanam Tank	Pattanam	Olakur	Villupuram	79.98	St.TB, RC Sluices, REweir,DSchl	
3	Agoor Big Tank	Akkur	Mailam	Villupuram	61.06	St.TB, Rc Sluices,RE weir DSchl	
4	Pampundi Big Tank	Pampundi	Mailam	Villupuram	60.75	St.TB, RC sluice, RE weir, DSchl	
5	Salai Tank	Salai	Mailam	Villupuram	41.95	St.TB, RC Sluices,, DSchl	
6	Kollar Tank	Kollar	Mailam	Villupuram	106.27	St.TB,, RE sluice, RE weir, DSchl	
7	Vempoondi Tank	Vempoondi	Mailam	Villupuram	84.96	St.TB, RE sluice, RE weir, DSchl	
8	Kallakolathur Hissa Tank	Kallakolathur	Mailam	Villupuram	167.19	St.TB, RC Sluices, , RE weir DSchl	
9	Kolliyankunam Big & Chitteri Tank	Kolliyankunam	Mailam	Villupuram	96.22	St.TB, RC Sluices, , RE weir DSchl	
10	peramandur Tank	Peramandur	Mailam	Villupuram	130.71	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
11	T. Kenipattu Tank	kenipattu	Mailam	Villupuram	46.14	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
12	Kidangal Tank	Tindivanam	Marakanam	Villupuram	394.54	St.TB, RC sluice, RE weir, DSchl	
13	Kaveripakkam Tank	Tindivanam	Marakanam	Villupuram	53.57	St.TB, RE sluice, RE weir, DSchl	
14	Eraiyanur Tank	Eraiyanur	Marakanam	Villupuram	60.97	St.TB, RC Sluices, RE weir, DSchl	
15	Annamputhur Tank	Annamputhur	Marakanam	Villupuram	127.865	St.TB, RE Sluices,RE weir, DSchl	
16	Omandur Tank	Omandur	Marakanam	Villupuram	84.63	St.TB, RC Sluices, RE weir, DSchl	
17	Kilchittamur Tank	Kilchittamur	Marakanam	Villupuram	65.58	St.TB, RE weir ,DSchl	
18	Vengai Tank	Vengai	Marakanam	Villupuram	65.02	RE sluice	
19	KilEdayalam Tank	Kiledayalam	Marakanam	Villupuram	172.34	St.TB, RC sluice, DSchl	
20	Jakkampettai Big Tank	Jakkam pettai	Marakanam	Villupuram		St.TB, RC Sluices, RE weir, DSchl	
21	Jakkampettai Chitteri	Jakkampettai	Marakanam	Villupuram	158.05	St.TB, RC Sluices, RE weir, DSchl	
22	Karnavur Big Tank	Karnarur	Marakanam	Villupuram	84.21	St.TB, RE Sluices, RE weir, DSchl	
23	Karnavur Chitteri	Karnavur	Marakanam	Villupuram	84.21	St.TB, RC Sluices, RE weir, DSchl	
24	Singanur Big Tank	Singanur	Marakanam	Villupuram	49.63	St.TB, RC Sluices, RE weir, DSchl	
25	Singanur Chitteri	Singanur	Marakanam	Villupuram	81.64	St.TB, RC Sluices, RE weir, DSchl	
26	Thenkalavai Tank	Ten kalavay	Marakanam	Villupuram	65.65	St.TB, RC Sluices, RE weir DSchl	
27	Thenpasiyar Tank	Ten pasiyar	Marakanam	Villupuram	101.78	St.TB, RC Sluices, RE weir DSchl	
28	Vittalapuram Tank	Vittalaparum	Marakanam	Villupuram	127.12	RC Sluices, RE weir DSchl	
29	Attur Tank	Attur	Marakanam	Villupuram	119.02	St.TB, RC Sluices, RE weir,DSchl	
30	Molasur Tank	Molasur	Marakanam	Villupuram	107.75	St.TB, RC Sluices, RE weir.	
31	Endiyur Big Tank	Endiyur	Marakanam	Villupuram	41.47	St.TB, RE sluice, RE weir,DSchl	

32	Elvalapakkam Hissa Tank	Elavalapakkam	Marakanam	Villupuram	99.1	St.TB, RC Sluices, RC weir, DSchl	
33	Kovadi Tank	Kovadi	Marakanam	Villupuram	61.21	St.TB, RC Sluices, RE sluice, RE weir.	
34	Kattalai Tank	Kattalai	Marakanam	Villupuram	77.14	St.TB, RE sluice, RE weir, DSchl	
35	Perumukkal Tank	Perumukkal	Marakanam	Villupuram	131.53	RE sluice, RE weir, DSchl	
36	Palamukkal Tank	Palamukkal	Marakanam	Villupuram	70.47	St.TB, RE sluice, RE weir, DSchl	
37	Kilsiviri Tank	Kilsiviri	Marakanam	Villupuram	56.96	St.TB, RC Sluices, RE weir	
38	T. Nallalam Tank	Nallalam	Marakanam	Villupuram	74.97	St.TB, RC Sluices, RE weir	
39	Nalmukkal Tank	Nalmukkal	Marakanam	Villupuram	47.73	St.TB, RE weir	
40	Brammadesam Tank	Brammadasem	Marakanam	Villupuram	113.75	St.TB, RC Sluices, RE sluice, RC weir, DSchl	
41	Vanniper Tank	Vanniper	Marakanam	Villupuram	63.67	St.TB, RE sluice, RE weir, DSchl	
42	kurur Big & Chitteri Tank	Kurur	Marakanam	Villupuram	44.9	St.TB, RC Sluices, RE weir	
43	Alakuppam Tank	Alankuppam	Marakanam	Villupuram	106.93	RE Sluices, RE weir.	
44	Endur Tank	Endur	Marakanam	Villupuram	81.59	St.TB, RC Sluices, RE weir, DSchl	
45	Munnur Big Tank	Munnur	Marakanam	Villupuram	198.85	St.TB(part)	
46	Munnur Chitteri	Munnur	Marakanam	Villupuram	50.55	St.TB, RC Sluices, RE weir, DSchl	
47	Kulathur Tank	Kulattur	Marakanam	Villupuram	90.17	St.TB, RE weir ,DSchl	
48	Adavallikuttan Tank	Adavallikuttan	Marakanam	Villupuram	47.02	St.TB, RE weir, DSchl	
49	Omipper Tank	Omipper	Marakanam	Villupuram	60.12	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
50	Chittanapakkam Tank	Chittanapakkam	Marakanam	Villupuram	48.98	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
51	Thirukkanur Tank	Tirukkanur	Marakanam	Villupuram	41.27	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
52	Urani mangalatha Eri	Urani	Marakanam	Villupuram	45.42	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
53	Anumandhai Kar Eri	Anumanthai	Marakanam	Villupuram	51.33	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
54	Anumandhai Vanji Kuttai	Anumanthai	Marakanam	Villupuram	56.26	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
55	Kunimedu Tank	Kunimedu	Vanur	Villupuram	55.55	St.TB, RC Sluices, RE weir, DSchl	
56	Nallavur Tank	Nallavur	Vanur	Villupuram	151.38	St.TB, RC Sluices, RE weir, DSchl	
57	Thenkodipakkam Tank	ThenKodipakkam	Vanur	Villupuram	64.04	St.TB, RC Sluices, RE weir, DSchl	
58	Perumpakkam Tank	Perumapakkam	Vanur	Villupuram	97.16	St.TB, RC Sluices, RE weir, DSchl	
59	Parikkalpattu Tank	Parikalpattu	Vanur	Villupuram	59.38	St.TB, RC Sluices, RE weir,DSchl	
60	Adanapattu Tank	Adanapattu	Vanur	Villupuram	82.99	St.TB, RC Sluices, RE weir,DSchl	
61	Thensiruvalur Hissa Tank	Thensiruvalur	Vanur	Villupuram	167.46	St.TB, RE sluice, DSchl	

62	Terkunam Tank	Terkunam	Vanur	Villupuram	100.83	St.TB, RC Sluices, DSchl	
63	Kondamur Tank	Kondamur	Vanur	Villupuram	108.99	St.TB, RC Sluices, RE weir, DSchl	
64	Kiliyanur Big Tank	Kiliyanur	Vanur	Villupuram	155.81	St.TB, RC Sluices, RE weir, DSchl	
65	Kiliyanur Small Tank	Kiliyanur	Vanur	Villupuram	136.34	St.TB, RC Sluices, RE weir, DSchl	
66	Kiliyanur Pudu Eri	Kiliyanur	Vanur	Villupuram	102.72	St.TB, RC sluice, RE weir, DSchl	
67	Kunnam Tank	Kunnam	Vanur	Villupuram	40.6	St.TB, RE sluice, RE weir.	
68	Semangalam Tank	Semangalam & Elavam Pattu	Vanur	Villupuram	131.22	St.TB, RE sluice, DSchl	
69	Putturai Tank	Putturai	Vanur	Villupuram	95.95	St.TB, RC sluice, DSchl	
70	Vanur Big Tank	Vanur	Vanur	Villupuram	76.86	RC weir, DSchl	
71	Vanur Chitteri	Vanur	Vanur	Villupuram	57.09	St.TB, RC sluice,REweir, DSchl	
72	Pulichappalam Big Tank & Chitteri	Pulicha pallam	Vanur	Villupuram	133.95	St.TB, RE sluice, RE weir.	
73	Pulichappalam Chitteri	Pulichapallam	Vanur	Villupuram	133.95	St.TB, RE sluice,REweir, DSchl	
74	Kattaram Pakkam Tank	Kattaram pakkam	Vanur	Villupuram	52.05	St.TB, RC Sluices, RE weir	
75	Olundiyapattu Tank	Olundiyapattu	Vanur	Villupuram	120.79	St.TB, RC Sluices, RE weir, DSchl	
76	Anbakkam Tank	Anbakkam	Vanur	Villupuram	194.15	St.TB, RC Sluices, RE weir, DSchl	
77	Peravur Tank	Peravur	Vanur	Villupuram	144.795	St.TB, RC Sluices, RE weir, DSchl	
78	Ulagapuram Perumal Eri & Nagal Eri	Ulagapuram	Vanur	Villupuram	169.25	St.TB, RC Sluices, RE sluice,REweir DSchl	
79	T.Parangani Tank	Parangani	Vanur	Villupuram	67.42	St.TB, RC Sluices, RE weir.	
80	Irumbai Tank	Irumbai	Vanur	Villupuram	57.5	St.TB, RC sluice,Reweir, DSchl	
81	Rayapudupakkam Tank	Rayapudupakkam	Vanur	Villupuram	48.04	St.TB, RC Sluices, RE sluice, RE weir, DSchl	
82	Raya ottai Tank	Rayaottai	Vanur	Villupuram	86.2	St.TB, RC Sluices, RE weir, DSchl	
83	Kodur Tank	Kodur	Vanur	Villupuram	116.8	St.TB, RC Sluices, RE weir, DSchl	
84	Nesal Big Tank	Nesal	Vanur	Villupuram	70	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
85	karattai Big Tank	Karattai	Vanur	Villupuram	48.17	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
86	Aruvadai Tank	Aruvadai	Vanur	Villupuram	83.28	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
87	Konjumangalam Tank	Konjumangalam	Vanur	Villupuram	78.85	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	
88	Koluvari Tank	Koluvari	Vanur	Villupuram	55.46	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.	

89	Kaluperumpakkam Tank	Kaluperumpakkam	Vanur	Villupuram	54.54	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.
90	Tailapuram Tank	Tailapuram	Vanur	Villupuram	132.41	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.
91	Thenagaram Tank	Thenagaram	Vanur	Villupuram	81.46	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.
92	Vilvanatham Big & Chitteri Tank	Vilavanatham	Vanur	Villupuram	99.18	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.
93	Devanandal Tank	Devanandal	Vanur	Villupuram	43.89	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.
94	Pudukkupam Tank	Pudukuppam	Vanur	Villupuram	424.93	This Tank work was carried out under various scheme since 2000 Hence not included in this Project.

Special Project Division,
Tindivanam.

PWD/WRO

Pennaiyar Basin Circle,
Tiruvannamalai.

IAM WARM PROJECT - WRO

Nallavur Sub Basin

1) Details of the WRO Infrastructures Existing in the Sub Basin

5 Package Map

Sl No.	No of Package	No	Tank Name	Village	Block	District	Type of work	Remarks
1	Package I	1	Venmaniattur Tank	Venmaniattur	Olakur	Villupuram	St.TB, RE sluice, RE weir, DSchl	
2	Package I	2	Pattanam Tank	Pattanam	Olakur	Villupuram	St.TB, RC Sluices, RE weir, Dschl	
3	Package I	3	Akkur Big Tank	Akkur	Mailam	Villupuram	St.TB, RC Sluices, RE weir, Dschl	
4	Package I	4	Pampundi Big Tank	Pampundi	Mailam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
5	Package I	5	Salai Tank	Salai	Mailam	Villupuram	St.TB, RC Sluices, DSchl	
6	Package I	6	Kollar Tank	Kollar	Mailam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
7	Package II	9	Kolliyankunam Big Tank	Kolliyankunam	Mailam	Villupuram	St.TB, RE sluice, DSchl, RE Weir	
8	Package II	11	T.Kenipatti Tank	T.Kenipatti	Mailam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
9	Package I	10	Peramandur Big Tank	Peramandur	Mailam	Villupuram	St.TB, DSchl, RE Sluice, REWeir	
10	Package III	14	Eraiyanur Tank	Eraiyanur	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, Dschl	
11	Package II	16	Omandur Tank	Omandur	Marakanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
12	Package II	17	Kilchittamur Tank	Kilchittamur	Marakanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
13	Package I	20	Jakkam pettai Big Tank	Jakkam pettai	Marakanam	Villupuram	St.TB, RE sluice, DSchl, RE Weir	
14	Package I	21	Jakkampettai Chitteri	Jakkampettai	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
15	Package I	22	Karnavur Big Tank	Karnarur	Marakanam	Villupuram	St.TB, DSchl	
16	Package I	23	Karnavur Chitteri	Karnavur	Marakanam	Villupuram	St.TB, RE Sluices, RE weir, DSchl	
17	Package I	24	Singanur Big Tank	Singanur	Marakanam	Villupuram	St.TB, RE Sluices, RE weir, DSchl	
18	Package I	25	Singanur Chitteri	Singanur	Marakanam	Villupuram	St.TB, RE sluice, DSchl	
19	Package II	26	Ten kalavay Tank	Ten kalavay	Marakanam	Villupuram	St.TB, DSchl, Re Sulice, RE Weir	
20	Package I	27	Ten pasiyar Tank	Ten pasiyar	Marakanam	Villupuram	St.TB, RC Sluices, RC weir, DSchl	
21	Package III	29	Attur Tank	Attur	Marakanam	Villupuram	St.TB, RC Sluices, RE sluice, RC weir, DSchl	
22	Package III	30	Molasur Tank	Molasur	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
23	Package III	31	Endiyur Tank	Endiyur	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
24	Package III	33	Kovadi Tank	Kovadi	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
25	Package III	34	Kattalai Tank	Kattalai	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
26	Package III	35	Perumukkal Tank	Perumukkal	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	

27	Package III	36	Palamukkal Tank	Palamukkal	Marakanam	Villupuram	St.TB, RC Sluices, RE weir	
28	Package III	37	Kilsiviri Tank	Kilsiviri	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
29	Package III	39	Nalmukkal Tank	Nalmukkal	Marakanam	Villupuram	St.TB, RE weir, DSchl	
30	Package III	41	Vanniper Tank	Vanniper	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
31	Package III	42	Kurur Big & Chitteri	Kurur	Marakanam	Villupuram	St.TB, RC Sluices, RE weir,	
32	Package III	43	Alankuppam Tank	Alankuppam	Marakanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
33	Package III	44	Endur Tank	Endur	Marakanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
34	Package III	45	Munnur Big Tank	Munnur	Marakanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
35	Package III	46	Munnur chitteri	Munnur	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
36	Package III	47	Kulattur Tank	Kulattur	Marakanam	Villupuram	St.TB, RC sluice, Re Weir	
37	Package III	48	Adavallikuttan Tank	Adavallikuttan	Marakanam	Villupuram	St.TB, RE weir, DSchl	
38	Package III	49	Omipper Tank	Omipper	Marakanam	Villupuram	St.TB, RE weir, DSchl, RE sluice	
39	Package III	50	Chittanapakkam Tank	Chittanapakkam	Marakanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
40	Package IV	51	Tirukkanur Tank	Tirukkanur	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
41	Package IV	52	Urani mangalatha Eri	Urani	Marakanam	Villupuram	St.TB, RE sluice, RE weir, DSchl	
42	Package IV	53	Anumandai Kar Eri	Anumanthai	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
43	Package IV	55	Kunimedu Tank	Kunimedu	Marakanam	Villupuram	St.TB,	
44	Package II	19	KilEdayalam Tank	Kil Eadayalam	Marakanam	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
45	Package III	40	Brammadasem	Brammadasem	Marakanam	Villupuram	St.TB, RE weir, DSchl	
46	Package V	38	T. Nallalam	T. Nallalam	Marakanam	Villupuram	St.TB, RE Weir	
47	Package II	63	Kondamur Tank	Kondamur	Vanur	Villupuram	St.TB, RC Sluices, RC weir. DSchl	
48	Package II	66	Kiliyanur puthu eri	Kiliyanur	Vanur	Villupuram	St.TB, RC Sluices, DSchl. RE weir	
49	Package II	65	kiliyanur Chetteri	Kiliyanur	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
50	Package II	67	Kunnam Tank	Kunnam	Vanur	Villupuram	St.TB, RC sluice, DSchl, REWeir	
51	Package II	68	Semangalam Tank	Semangalam & Elavam Pattu	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
52	Package IV	69	Putturai Tank	Putturai	Vanur	Villupuram	St.TB, RE sluice, DSchl	
53	Package IV	70	Vanur big Tank	Vanur	Vanur	Villupuram	St.TB, RE Sluices, DSchl	
54	Package IV	71	Vanur Chitteri	Vanur	Vanur	Villupuram	St.TB, RC Sluices, DSchl	
55	Package IV	72	Pulicha pallam big Tank	Pulicha pallam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
56	Package IV	73	Pulichapallam Chitteri	Pulichapallam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
57	Package IV	75	Olundiyapattu Tank	Olundiyapattu	Vanur	Villupuram	St.TB, RC sluice, DSchl, RE weir	
58	Package IV	76	Anbakkam Tank	Anbakkam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	

59	Package V	79	T. Parangani Tank	T. Parangani	Vanur	Villupuram	St.TB, RE Sluices, RE weir,DSchl	
60	Package IV	80	Irumbai Tank	Irumbai	Vanur	Villupuram	St.TB, RE Sluices, DSchl. RE weir	
61	Package IV	81	Rayapudukkupam Tank	Rayapudukkuppam	Vanur	Villupuram	St.TB, RC Sluices,DS chl	
62	Package IV	82	Rayaottai Tank	Rayaottai	Vanur	Villupuram	RE weir, DSchl	
63	Package IV	84	Nesal big Tank	Nesal	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
64	Package V	85	Karattai big Tank	Karattai	Vanur	Villupuram	St.TB, RE Sluices, RE Weir	
65	Package V	86	Aruvadai Tank	Aruvadai	Vanur	Villupuram	St.TB, RE sluice, RE weir, DSchl	
66	Package V	93	Devanandal Tank	Devanandal	Vanur	Villupuram	St.TB,RE sluice, RE weir	
67	Package V	87	Konjumangalam Tank	Konjumangalam	Vanur	Villupuram	RC sluice, ST. TB, RE weir, DSchl	
68	Package V	88	Koluvari Tank	Koluvari	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
69	Package IV	74	Kattrampakkam Tank	Kattrampakkam	Vanur	Villupuram	St.TB, RC sluice, RE weir, DS chl	
70	Package V	77	Peravur Tank	Peravur	Vanur	Villupuram	St.TB, RC sluice, RE weir, DS chl	
71	Package V	78	Ulagapuram Nagal Eri	Ulagapuram	Vanur	Villupuram	St.TB, RC Sluices, RE sluice, RE weir, DSchl	
72	Package II	59	Parikalpattu Tank	Parikalpattu	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
73	Package II	61	Tensiruvalur Hissa Tank	Tensiruvalur & Adanapattu	Vanur	Villupuram	St.TB, RC Sluices, RE sluice, RE weir, DSchl	
74	Package II	62	Terkunam Tank	Terkunam	Vanur	Villupuram	St.TB, RC Sluices, RE weir, DSchl	
75	Package V	56	Nallavur Tank	Nallavur	Vanur	Villupuram	St.TB, RC sluice, DSchl, RE weir	
76	Package III	14 A	Eraiyanur dividing dam	Eraiyanur	Marakanam	Villupuram	Repairs to Anicut, Strengthening the flood banks, Protection works(Retaining walls & Revetment), Renewal of SG Shutter Arrangements	
77	Package II	16 A	Annampudur Dividing dam	Annampudur	Marakanam	Villupuram	Repairs to Anicut, Strengthening the flood banks, Protection works(Retaining walls & Revetment), Renewal of SG Shutter Arrangements	
78	Package II	15 A	Omandur dividing dam	Omandur	Marakanam	Villupuram	Repairs to Anicut, Strengthening the flood banks, Protection works(Retaining walls & Revetment), Renewal of SG Shutter Arrangements	
79	Package II	63 A	Kondamur Anicut	Kondamur	Vanur	Villupuram	Repairs to Anicut, Strengthening the flood banks, Protection works(Retaining walls & Revetment), Renewal of SG Shutter Arrangements	

No.	Name of Anicut	Village	Block	District	Type of work	Remarks
I	Eraiyanur dividing dam	Eraiyanur	Marakanam	Villupuram	Repairs to Anicut, Strengthening the flood banks, Protection works(Retaining walls & Revetment), Renewal of SG Shutter Arrangements	
II	Annampudur Dividing dam	Annampudur	Marakanam	Villupuram	Repairs to Anicut, Strengthening the flood banks, Protection works(Retaining walls & Revetment), Renewal of SG Shutter Arrangements	
III	Omandur dividing dam	Omandur	Marakanam	Villupuram	Repairs to Anicut, Strengthening the flood banks, Protection works(Retaining walls & Revetment), Renewal of SG Shutter Arrangements	
IV	Kondamur	Kondamur	Vanur	Villupuram	Repairs to Anicut, Strengthening the flood banks, Protection works(Retaining walls & Revetment), Renewal of SG Shutter Arrangements	

List of Tanks with Details of WUA

WUA No	Name of Irrigation Systems and Tanks	Command Area in (Ha)	Location of the Command Area			Coverage of Command area under different projects (Ha)		Status of formation of WUAs in the Sub-Basin	
			Villages	Taluk	District	WRCP and Others	IAMWARM	Formed under WRCP	To be formed under IAMWARM
NSB 1	Venmaniyathur Tank WUA	46.47	Venmaniyathur	Tindivanam	Villupuram	---	46.47	---	Yes
NSB 2	Pattanam Tank WUA	79.98	Pattanam	Tindivanam	Villupuram	---	79.98	---	Yes
NSB 3	Agoor Big Tank WUA	61.06	Agoor	Tindivanam	Villupuram	---	61.06	---	Yes
NSB 4	Pampundi Big Tank WUA	60.75	Pampundi	Tindivanam	Villupuram	---	60.75	---	Yes
NSB 5	Salai Tank WUA	41.95	Salai	Tindivanam	Villupuram	---	41.95	---	Yes
NSB 6	Kollar Tank WUA	106.27	Kollar	Tindivanam	Villupuram	---	106.27	---	Yes
NSB 7	Vempoondi Tank WUA	84.96	Vempoondi	Tindivanam	Villupuram	---	84.96	---	Yes
NSB 8	Kallakolathur Hissa Tank WUA	167.19	Kallakolathur&veliyanur	Tindivanam	Villupuram	---	167.19	---	Yes
NSB 9	Kolliyankunam Big & Chitteri Tank WUA	96.22	Kolliyankunam	Tindivanam	Villupuram	---	96.22	---	Yes
NSB 10	peramandur Tank WUA	130.71	Peramandur	Tindivanam	Villupuram	---	130.71	---	Yes
NSB 11	T. Kenipattu Tank WUA	46.14	T. Kenipattu	Tindivanam	Villupuram	---	46.14	---	Yes
NSB 12	Kidangal Tank WUA	394.54	Kidangal	Tindivanam	Villupuram	---	394.54	---	Yes
NSB 13	Kaveripakkam Tank WUA	53.57	Kaveri pakkam	Tindivanam	Villupuram	---	53.57	---	Yes
NSB 14	Eraiyanur Tank WUA	60.97	Eraiyanur	Tindivanam	Villupuram	---	60.97	---	Yes
NSB 15	Annamputhur Tank WUA	127.87	Annamputhur	Tindivanam	Villupuram	---	127.87	---	Yes

NSB 16	Omandur Tank WUA	84.63	Omandur	Tindivanam	Villupuram	---	84.63	---	Yes
NSB 17	Kilchittamur Tank WUA	65.58	Kilchittamur	Tindivanam	Villupuram	---	65.58	---	Yes
NSB 18	Vengai Tank WUA	65.02	Vengai	Tindivanam	Villupuram	---	65.02	---	Yes
NSB 19	KilEdayalam Tank WUA	172.34	KilEdayalam	Tindivanam	Villupuram	---	172.34	---	Yes
NSB 20	Jakkampettai Big & Chitteri Tank WUA	158.05	Jakkampettai	Tindivanam	Villupuram	---	158.05	---	Yes
NSB 21	Karnavur Big & Chitteri Tank WUA	168.42	Karnavur	Tindivanam	Villupuram	---	168.42	---	Yes
NSB 22	Singanur Big & Chitteri Tank WUA	131.27	singanur	Tindivanam	Villupuram	---	131.27	---	Yes
NSB 23	Thenkalavai Tank WUA	65.65	Thenkalavai	Tindivanam	Villupuram	---	65.65	---	Yes
NSB 24	Thenpasiyar Tank WUA	101.78	Thenpasiyar	Tindivanam	Villupuram	---	101.78	---	Yes
NSB 25	Vittralapuram Tank WUA	127.12	vittalapuram	Tindivanam	Villupuram	---	127.12	---	Yes
NSB 26	Attur Tank WUA	119.02	Attur	Tindivanam	Villupuram	---	119.02	---	Yes
NSB 27	Molasur Tank WUA	107.75	Molasur	Tindivanam	Villupuram	---	107.75	---	Yes
NSB 28	Endiyur Big Tank WUA	41.47	Endiyur	Tindivanam	Villupuram	---	41.47	---	Yes
NSB 29	Elvalapakkam Hissa Tank WUA	99.10	Elavalapakkam & Ten Nerkunam	Tindivanam	Villupuram	---	99.10	---	Yes
NSB 30	Kovadi Tank WUA	61.21	Kovadi	Tindivanam	Villupuram	---	61.21	---	Yes
NSB 31	Kattalai Tank WUA	77.14	Kattalai	Tindivanam	Villupuram	---	77.14	---	Yes
NSB 32	Perumukkal Tank WUA	131.53	Perumukkal	Tindivanam	Villupuram	---	131.53	---	Yes
NSB 33	Palamukkal Tank WUA	70.47	Palamukkal	Tindivanam	Villupuram	---	70.47	---	Yes
NSB 34	Kilsiviri Tank WUA	56.96	Kilsiviri	Tindivanam	Villupuram	---	56.96	---	Yes
NSB 35	T. Nallalam Tank WUA	74.97	T. Nallalam	Tindivanam	Villupuram	---	74.97	---	Yes
NSB 36	Nalmukkal Tank WUA	47.73	Nalmukkal	Tindivanam	Villupuram	---	47.73	---	Yes
NSB 37	Brammadesam Tank WUA	113.75	Brammadesam	Tindivanam	Villupuram	---	113.75	---	Yes
NSB 38	Vanniper Tank WUA	63.67	Vanniper	Tindivanam	Villupuram	---	63.67	---	Yes
NSB 39	kurur Big & Chitteri Tank WUA	44.90	Kurur	Tindivanam	Villupuram	---	44.90	---	Yes
NSB 40	Alakuppam Tank WUA	106.93	Alankuppam	Tindivanam	Villupuram	---	106.93	---	Yes
NSB 41	Endur Tank WUA	81.59	Endur	Tindivanam	Villupuram	---	81.59	---	Yes
NSB 42	Munnur Big & Chitteri Tank WUA	249.40	Munnur	Tindivanam	Villupuram	---	249.40	---	Yes

NSB 43	Kulathur Tank WUA	90.17	Kulathur	Tindivanam	Villupuram	---	90.17	---	Yes
NSB 44	Adavallikuttan Tank WUA	47.02	Adavallikuttan	Tindivanam	Villupuram	---	47.02	---	Yes
NSB 45	Omipper Tank WUA	60.12	Omipper	Tindivanam	Villupuram	---	60.12	---	Yes
NSB 46	Chittanapakkam Tank WUA	48.98	chittanapakkam	Tindivanam	Villupuram	---	48.98	---	Yes
NSB 47	Thirukkanur Tank WUA	41.27	Thirukkanur	Tindivanam	Villupuram	---	41.27	---	Yes
NSB 48	Urani mangalatha Eri WUA	45.42	Urani	Tindivanam	Villupuram	---	45.42	---	Yes
NSB 49	Anumandhai Kar Eri & Vanji Kuttai Tank WUA	107.59	Anumandhai	Tindivanam	Villupuram	---	107.59	---	Yes
NSB 50	Kunimedu Tank WUA	55.55	Kunimedu	Tindivanam	Villupuram	---	55.55	---	Yes
NSB 51	Nallavur Tank WUA	151.38	Nallavur	Tindivanam	Villupuram	---	151.38	---	Yes
NSB 52	Thenkodipakkam Tank WUA	64.04	Thenkodipakkam	Tindivanam	Villupuram	---	64.04	---	Yes
NSB 53	Perumpakkam Tank WUA	97.16	Perumbakkam	Tindivanam	Villupuram	---	97.16	---	Yes
NSB 54	Parikkalpattu Tank WUA	59.38	Parikkal pattu	Tindivanam	Villupuram	---	59.38	---	Yes
NSB 55	Adanapattu Tank WUA	82.99	Adanapattu	Tindivanam	Villupuram	---	82.99	---	Yes
NSB 56	Thensiruvalur Hissa Tank WUA	167.46	Thensiruvalur & Adhanapattu	Tindivanam	Villupuram	---	167.46	---	Yes
NSB 57	Terkunam Tank WUA	100.83	Terkunam	Tindivanam	Villupuram	---	100.83	---	Yes
NSB 58	Kondamur Tank WUA	108.99	Kondamur	Tindivanam	Villupuram	---	108.99	---	Yes
NSB 59	Kiliyanur Big - Small and Pudu Eri Tank WUA	394.87	Kiliyanur	Tindivanam	Villupuram	---	394.87	---	Yes
NSB 60	Kunnam Tank WUA	40.60	Kunnam	Tindivanam	Villupuram	---	40.60	---	Yes
NSB 61	Semangalam Tank WUA	131.22	Semangalam &elavampattu	Tindivanam	Villupuram	---	131.22	---	Yes
NSB 62	Putturai Tank WUA	95.95	Putturai	Tindivanam	Villupuram	---	95.95	---	Yes
NSB 63	Vanur Big & Small Tank WUA	165.01	Vanur	Tindivanam	Villupuram	---	165.01	---	Yes
NSB 64	Pulichappalam Big & Chitteri Tank WUA	133.95	Pulichapallam	Tindivanam	Villupuram	---	133.95	---	Yes
NSB 65	Kattaram Pakkam Tank WUA	52.05	Kattaram Pakkam	Tindivanam	Villupuram	---	52.05	---	Yes
NSB 66	Olundiyapattu Tank WUA	120.79	Olundiyapattu	Tindivanam	Villupuram	---	120.79	---	Yes
NSB 67	Anbakkam Tank WUA	194.15	Anbakkam	Tindivanam	Villupuram	---	194.15	---	Yes
NSB 68	Peravur Tank WUA	144.79	Peravur	Tindivanam	Villupuram	---	144.79	---	Yes
NSB 69	Ulagapuram Perumal Eri & Nagal Eri WUA	169.25	Ulagapuram	Tindivanam	Villupuram	---	169.25	---	Yes
NSB 70	T.Parangani Tank WUA	67.42	T. Parangani	Tindivanam	Villupuram	---	67.42	---	Yes

NSB 71	Irumbai Tank WUA	57.50	Irumbai	Tindivanam	Villupuram	---	57.50	---	Yes
NSB 72	Rayapudupakkam Tank WUA	48.04	Rayapudupakkam	Tindivanam	Villupuram	---	48.04	---	Yes
NSB 73	Raya ottai Tank WUA	86.20	Raya ottai	Tindivanam	Villupuram	---	86.20	---	Yes
NSB 74	Kodur Tank WUA	116.80	Kodur	Tindivanam	Villupuram	---	116.80	---	Yes
NSB 75	Nesal Big Tank WUA	70.00	Nesal	Tindivanam	Villupuram	---	70.00	---	Yes
NSB 76	karattai Big Tank WUA	48.17	Karattai	Tindivanam	Villupuram	---	48.17	---	Yes
NSB 77	Aruvadai Tank WUA	83.28	Aruvadai	Tindivanam	Villupuram	---	83.28	---	Yes
NSB 78	Konjumangalam Tank WUA	78.85	Konjumangalam	Tindivanam	Villupuram	---	78.85	---	Yes
NSB 79	Koluvari Tank WUA	55.46	Koluvari	Tindivanam	Villupuram	---	55.46	---	Yes
NSB 80	Kaluperumpakkam Tank WUA	54.54	Kaluperumpakkam	Tindivanam	Villupuram	---	54.54	---	Yes
NSB 81	Tailapuram Tank WUA	132.41	Tailapuram	Tindivanam	Villupuram	---	132.41	---	Yes
NSB 82	Thenagaram Tank WUA	81.46	Thenagaram	Tindivanam	Villupuram	---	81.46	---	Yes
NSB 83	Vilvanatham Big & Chitteri Tank WUA	99.18	Vilvanatham	Tindivanam	Villupuram	---	99.18	---	Yes
NSB 84	Devanandal Tank WUA	43.89	Devanandal	Tindivanam	Villupuram	---	43.89	---	Yes
NSB 85	Pudukkupam Hissa Tank WUA	424.93	Pudukuppam, Edacheri, Uppu Velur	Tindivanam	Villupuram	---	424.93	---	Yes
		8765.20					**8765.20**		

Blockwise Ayacut Details

Sl. No	Name of Sub Basin	Ayacut Details (in Ha)						Total Registered Ayacut (in HA)
		District	Taluk	Block	Without Project			
					FI	PI	Gap	
1	Nallavur	Villupuram		Olakkur	58.05	36.98	31.42	126.45

	Sub Basin		Tindivanam	Mailam	306.03	328.01	161.21	795.25
				Marakkkanam	2016.81	1113.51	841.57	3971.89
			Vanur	Vanur	2197.47	1241.82	432.32	3871.61
				Total	**4578.36**	**2720.32**	**1466.52**	**8765.2**

1.7. ENVIRONMENTAL COMPONENT

Report to accompany the estimate for the work of Environmental Component in Detailed Project Report for NALLAUR SUB BASIN of Varahanadhi River Basin" under TN – IAMWARM PROJECT

Estimate Amount: Rs 15.00 Lakhs

Under TNWRCP, with World Bank assistance, special emphasis was given for the first time to assess the Environmental Status and degradation caused for all River basins in Tamil Nadu. Soil Assessment study has been conducted by **Environment Protection Training and Research Institute (EPTRI), Hyderabad**. This institute has identified the Environmental issues, mitigatory measures and given their recommendations on the following issues.

i) Environmental Issues : - Soil Erosion, Sand Mining
- Water Pollution due to Industries
- Encroachment of river and tank beds
- Poor solid waste management

ii) Social Issues:
- Dry Land Agriculture
- Reduction in Livestock
- Women empowerment-SHG's
- No storing facilities.
- Health problems due to industrial water pollution

iii) Mitigatory Measures: - Non-judicial and excessive sand mining have to be controlled and regulated.
-Livestock services delivery and management
-Common storage facilities may be established

iv) Agency: - The above measures can be improved by the combined working of Environmental Cell wing and Animal Husbandry Department.

The Environmental Cell of WRO assessed the Environmental impact on the quality of Surface and Ground water and Soil by collecting water & soil samples and testing them, preparation of Micro level Environmental Status Reports for all the River basins with the World Bank assistance for these works up to March 2004.

Also few Awareness programs & workshops were conducted to create Awareness on the Environmental issues & remedies among the public, farmers, Govt. officials and NGOs. Seminars were conducted to find out new techniques and methods developed recently to solve the Environmental problems.

Now under IAMWARM Project, focus is at each Sub Basin level to identify and prioritize the requirements for improvements to storage structures, rehabilitation, new schemes

for water harvest, and diversification of crops. Any new schemes or rehabilitation of existing one, consideration of the Environmental issues pertaining to that area and remedial action to overcome the problems is must. Accordingly, Environmental issues prevailing in the Thurinjalar Sub basin is taken up under IAMWARM Project.

DESCRIPTION OF THE MAIN VARAHANADHI RIVER

The Varahanadhi basin is one of the 17 Major rivers and is located in the Villupuram, Thiruvannamalai, and Cuddalore district of Tamil Nadu and Pondicherry Union territory. The total area of the basin is 4498.50 Sq.K.m. The Varahanadhi basin is surrounded by Bay of Bengal in the east, Palar basin in the north and Pennaiyar basin in the South and West. The total length of Vrananadhi River is about 78.50 Km. The basin is situated between North Latitude 11° 50'00'' and 12 °28'00'' and East Longitude 79° 08'00'' to 80° 10'00''.

The three individual rivers such as Varahanadhi, Ongur and Nallavur had separate catchment areas and flow separately and confluences separately ie the Varahanadhi river confluence with Bay of Bengal, the Ongur river flows into Edayantittu Kaluveli and the Nallavur River joins the kaluveli swamp. For Water resources Assessment, water balance and water planning are done by integrating all the three rivers under Varahanadhi river basin.

This basin has been divided into three sub basins namely as follows

4. Varahanadhi
5. Ongur and
6. Nallavur

NALLAVUR SUB BASIN

The Nallavur sub basin starts near Gidangal Tank. The Catchment area of sub basin is 856.25sq.km and confluences in Kaluveli Swamp. The full portion of the basin lies in Villupuram District. The Major Portion of the Basin is located with in Marakanam and Vanur Block. Three dividing Dams such as Eraiyanur, Annamputhur and Omandur and 1 Anicut namely Kondamur Anicut are constructed across Nallavur River, One swamp Regulator (Kaluveli) and one Anicut across Peravur surplus course. There is a seasonal flow in the river during monsoon seasons.

SOIL EROSION

Soil erosion causes depletion of fertility through removal of valuable surface soil and lead to reduction in the effective arable soil depth and hence it is one of limiting factors for crop production.

SAND MINING

One of the major problem in river basin related to Sand Mining as it poses major threat to River Bed. Sand quarrying for construction and other purposes is growing at an alarming rate which causes failure of Anicuts and Diversion structures, stagnation of water in the deep mined river bed causing consequent health hazards.

This needs to be prevented by all means. Sand mining has now come under the control of WRD. Sand is being collected only at the approved site and the Regular Water Resources Division is closely monitoring and regulating the sand mining.

AQUATIC WEEDS

It is observed that the Aquatic weeds growth Ipomoea locally known as Kadal Palai and prosopis Juliflora are found to be in almost 80% of the tanks. The plant growth varies from 40% to 80% in various tanks. In general weeds growth restricts the water storage and loss in capacity of the tanks.

INDUTRIAL POLLUTION

The effluent from industries located in this sub basin are let into ditches and water drains which ultimately reach the River or supply channels of tanks or lands. Special attention is needed for treating the effluent to avoid water pollution in the sub basin.

SOLID WASTE DISPOSAL:

The problem of Garbage collection and its disposal has assumed importance, in the context of rapid growth of population, urbanization, industrial growth and development. There is no organized scientific method of disposal in all the Municipalities and Panchayats in this sub basin.

SEWAGE DISPOSAL LET INTO WATER BODIES:

In almost all the village no safe disposal of sewage or proper treatment method is adopted. This affect the near by water source directly or affecting the ground water potential indirectly.

So, creating awareness among the Presidents of the local bodies is essential and to motivate them to adapt Solid waste management and Sewage management, wherever required. Workshop including field visits, exclusively for them is to be conducted under the IAMWARM project.

ACTIVTIES PROPOSED:

River Basin Monitoring:-

To monitor the quality of water and soil and create database regarding the environmental status for the sub basin, the following activities are proposed at the sub basin level.

Collection and testing of water and soil samples:

Water samples will be collected and tested in the sub basin at identified sampling points regularly. Continuance of collection and testing of water samples is essential, as good and long range data will enable to understand the problems more precisely.

Hence, now it is proposed to collect and test water samples for a period of **Three years** to assess the environmental impact on the quality of surface water of this sub basin more accurately. Water samples at the following location (vide statement enclosed) will be collected once in 3 months.

In addition to the above identified locations, water samples will also be collected from tanks to estimate the level of pollution in selected locations, where untreated sewage

is directly let into tanks and Channels. These samples will be tested, to assess the impact on the quality of surface and ground water.

Soil samples are to be collected from selected locations to assess the impact on the quality of soil due to various Environmental problems like use of chemical fertilizer and using the polluted water. From these locations numbers of samples at regular interval have to be collected and tested to determine precisely the impact on the degradation of the quality of the soil. Therefore testing soil samples are essential.

Under this item following provisions have been made.

1 Testing charges for the water& soil samples.

2 Provision of Labour charges, purchase of materials, conveyance, driver salary and computer operator.

Transfer of technical know-how for solid waste management system including source segregation, recycle of dry waste and linkage with user agencies.

Now a new scheme for solid waste management plan is under implementation in all municipalities and Panchayats. Under this scheme, collection tank for disposal and non-disposable garbage have been constructed in most of the local bodies. But recycling the waste and converting the solid waste into manure and production of energy from them are yet to be come up.

Hence demonstration and action programs are planned with user agencies and necessary field visits are programmed to transfer of technical know how for solid waste management system.

Awareness Programs

Awareness Programs are necessary to create awareness among the public about environmental aspects and the action to be taken by them to remove or reduce the impacts due to the environmental problems.

Hence, to create and motivate the people, Awareness programmes are to be conducted in the villages where sewage is directly let into water bodies. It is also proposed to conduct awareness meetings in School/ Institutions during the project period of three years covering the following subjects in addition to placing Stickers, tin sheets and Pamphlets containing messages about Environmental Awareness.

- Sanitation. Solid waste treatment.
- Sewage treatment and converting the same into Gas.
- Natural farming.
- Conversion of aquatic weeds into manure etc.

Mode of Execution:

All the works proposed are to be carried out by outsourcing through an Educational Institution.

Total Cost.

The total Proposal cost works out to **Rs.15.00 Lakhs. (Rupees Fifteen Lakhs Only).**

PWD / WRO

PLAN FORMULATION WING

IAMWARM PROJECT

(ENVIRONMENTAL COMPONENT)

Name of River Basin	**Varahanadhi River Basin**	
Name of Sub Basin	**Nallavur Sub Basin**	
Number of WUA	To be formed under IAMWARM	
Name of Division	Special Project Division . Tindivanam.	
Name of Sub-Division	1. Special Project Sub – Division I. Tindivanam.	
	2. Special Project Sub Division II. Gingee.	
	3 Special Project Division, III. Gingee.	
District	**Villupuram**	
Taluk	1) Tindivanam	2 . Vanur
Block	1.Olakkur	Vanur
	2 .Mailam	
	3 .Marakkkanam	
Name of Tanks/Anaicuts Severly affected by weeds	List enclosed	
Domestic Sewage (Name of River/ Tank with specific location polluted by Domestic sewage)	Domestic Sewage is directly let in to tanks and channels	
Municipal Solid Waste (Name of River/ Tank with specific location where Municipal solid waste is dumped)	Solid waste generated is dumped in te open area	
Water Quality Status:		
i) Ground Water	Moderate to good.	
ii)Surface Water	Water can be utilized for irrugation purpose,however it need treatment before using drinking purpose.	

Name of Work :
Environmental Activities in Nallavur Sub-Basin of Varahanadhi River Basin under **IAMWARM PROJECT**

DETAILED ESTIMATE

Sl No	Description of work	No	Measurement			Contents
			L	B	D	
I. Environmental Social Monitoring of river basin including peroidical water and soil quality testing and documentation. (By fixing nodel agency or any educational instituition)						
1	Collection and testing of water samples and Soil samples					
a)	Water samples collected from river & tanks for a period of **Three years**					20 Nos
b)	Soil samples collected from irrigation fields for a period of **Three years**					8 Nos
c)	Hiring jeep driver on service contract basis for the department vehicle	1 No	3 x 2 = 6 months			6 months
d)	Collection and conveyance charges including all purchases like cans, chemicals,Documentation of test results including labour charges.					LS
II	**Environmental Social knowledge base analysis and development (By fixing nodel agency or any educational instituition)**					
	Preparation of Impact Assessment report with expert analysis for 3 yrs @ every 6 months and documentation for					
a)	Impacts due to project investment.					LS
b)	Other impacts obsered in the river basin.					LS
III.	**Transfer of technical know how for solid waste management system including source segregation, recycle of dry waste and linkage with user agencies. (By fixing nodel agency or any educational instituition)**					
a)	Motivating the local bodies for Soild waste management project and Sewage treatment plants to prevent pollution of water sources and using for irrigation by transfering technical know how through demonstration Documentary film and Technical visit	LS				LS

b)	Promoting Entrepreneurship Policy for Eradication for weeds by setting up Bio gas Plant / Vermi compost By WUA through Awareness creation, Demonstration and consultative meeting and pilot study.					LS
c)	Herbal garden in institutions	1 x 2				2 Nos
IV.	**Conducting Environmental and social Awareness meeting, programme, demonstration and Exhibitions on various environmental and social related issues including capacity building.(By fixing nodel agency or any educational instituition)**					
a)	Engaging Computer Operator grade-II for the preparation of reports,Documents etc..	1 X 4				4 Months
b)	Printing Stickers, Pamphlets, Tin sheets, Providing Banners for Propagating Environmental Awareness among public	LS				LS
c)	Conducting Awareness Programs for Public	2 Nos.				2 Nos.
d)	Conducting meetings in school/Institutions	1 x 3				3 Nos
e)	Environmental Fair / Exihibition, benchmarking, recognition of good Eco friendly practices and Green Awards	LS				LS
f)	Preparing and publishing Environmental Atlas for the Sub Basin for the use of Line departments / Institutions for better Management of Sub basin	LS				LS
g)	Exposure to field visit and Eco-friendly practices and environmental monitoring.					LS
h)	Environmental related books / jounal, publishing annual reports for the sub basin maps for all size	LS				LS
i)	Documentation of the entire activities,Video films,Cd's,Preparation of Sub-basin Maps of all size.	LS				LS
V	Unforseen Items	LS				LS

Name of Work :

Environmental Activities in Nallavur Sub-Basin of Varahanadhi River Basin under **IAMWARM PROJECT**

ABSTRACT ESTIMATE

S.No	Qty		Description of Work	Rate	Per	Amount
I. Environmental Social Monitoring of river basin including peroidical water and soil quality testing and documentation. (By fixing nodel agency or any educational instituition)						
a)	20	Nos	Testing charges for Water samples	6441	Each	128820
b)	6	Nos	Testing charges for soil samples from polluted site	10964	Each	65784
c)	6	months	Hiring Jeep driver for the Dept Vehicle @ Rs 151.80/day (26 days)	151.80	/Day	23681
d)	LS		Collection and conveyance charges including all purchases like cans, bottles,chemicals,Documentation of test results including labour charges.	LS		5000
II	**Environmental Social knowledge base analysis and development (By fixing nodel agency or any educational instituition)**					
			Preparation of Impact Assessment report with expert analysis for 3 yrs @ every 6 months and documentation for			
a)	LS		Impacts due to project investment.	LS		300000
b)	LS		Other impacts observed in the river basin.	LS		50000
III.	**Transfer of technical know how for solid waste management system including source segregation, recycle of dry waste and linkage with user agencies. (By fixing nodel agency or any educational instituition)**					
a)	L.S.		Motivating the local bodies for Soild waste management project and Sewage treatment plants to prevent pollution of water sources and using for irrigation by transfering technical know how through demonstration Documentary film and Technical visit	LS		75000

b)	L.S.	Promoting Entrepreneurship Policy for Eradication for weeds by setting up Bio gas Plant / Vermi compost By WUA through Awareness creation, Demonstration and consultative meeting and pilot study.	LS		75000
c)	2 Nos	Herbal garden in institutions	30000	Each	60000
IV.	**Conducting Environmental and social Awareness meeting, programme, demonstration and Exhibitions on various environmental and social related issues including capacity building. (By fixing nodel agency)**				
a)	4 Months	Engaging Computer Operator grade-II for the preparation of reports,Documents etc..	204	/day	21216
b)	LS	Printing Stickers, Pamphlets, Tin sheets, Providing Banners for Propagating Environmental Awareness among public	LS		30000
c)	2 Nos	Conducting Awareness Programs for Public	LS		200000
d)	3 Nos	Conducting meetings in school/Institutions	20000		60000
e)	LS	Environmental Fair / Exihibition, benchmarking, recognition of good Eco friendly practices and Green Awards			60000
f)	LS	Preparing and publishing Environmental Atlas for the Sub Basin for the use of Line departments / Institutions for better Management of Sub basin	LS		150000
g)	LS	Exposure to field visit and Eco-friendly practices and environmental monitoring.	LS		100000
h)	LS	Environmental related books / jounal, publishing annual reports for the sub basin maps for all size	LS		10000
i)	LS	Documentation of the entire activities, Videofilms,hire purchase of LCD,Preparation of sub-basin maps of all size & Upgradation of computer and accessories.	LS		60000
V	LS	Unforseen Items			25499
		Total			**1500000**

(Rupees fifteen Lakhs Only)

Name of Work :

Environmental Activities in Nallavur Sub-Basin of Varahanadhi River Basin under **IAMWARM PROJECT**

Working Sheet

Water Samples

1	Testing Charges rate as per ground water division (Dept) (Partly)		650.00	/Sample
2	Testing Charges rate as per SGS Laboratory (private) (Total Coliform,Faecal Coliform, Pesticides Residual) (Partly)		5250.00	/Sample
3	Service Charges @ 10.30 %		540.75	
		TOTAL	6440.75	(or)
			6441	

Soil Samples

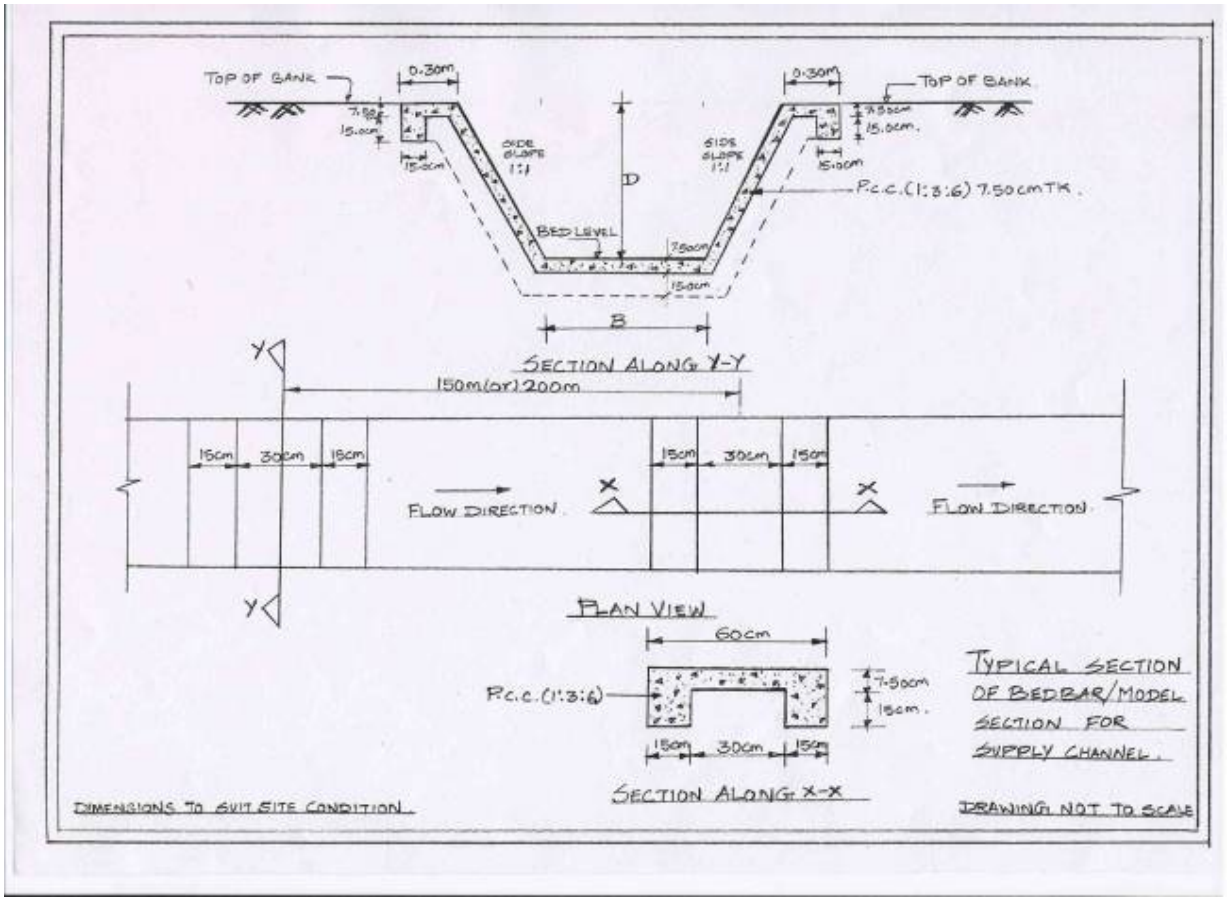
1	Testing Charges rate as per SM & R Division (Dept) (Partly)		6000	/Sample
2	Testing Charges rate as per SGS Laboratory (private) (Pesticides Residual) (Partly)		4500	/Sample
	Service Charges @ 10.3 %		463.50	
		TOTAL	10963.5	(or)
			10964	

ANNEXURE

BASE LINE ENVIRONMENTAL AND
SOCIAL PARAMETERS INFORMATION

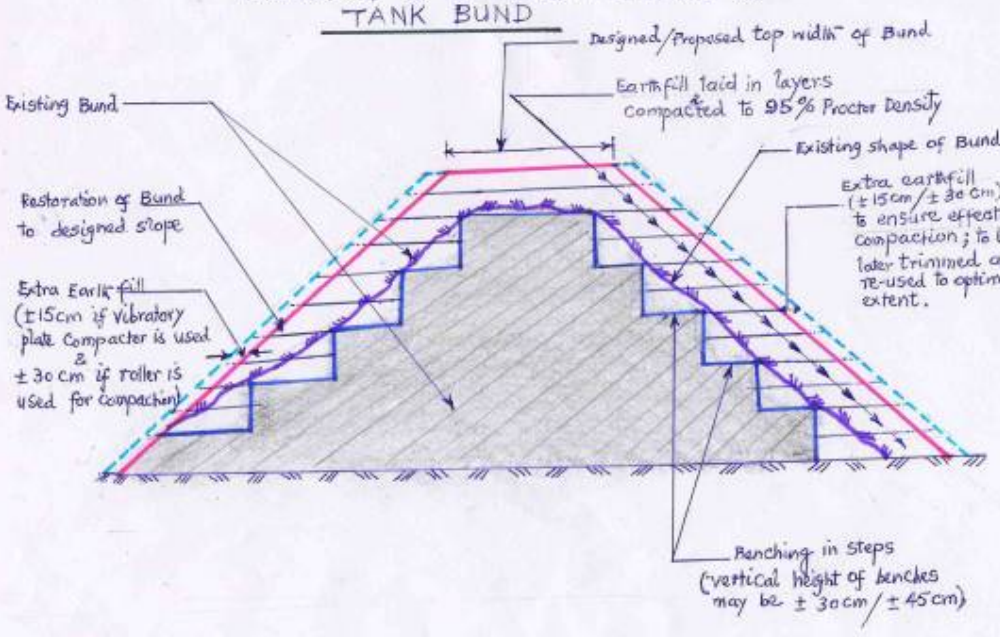
1. Demography
2. Location
3. Hydrology
4. Hydrogeology
5. Geology
6. Ground water potential
7. Stage of ground water exploitation
8. Surface water potential
9. Surface water quality
10. Ground water quality
11. Climate and Rainfall
12. Industries
13. Fertilizer and Pesticides
14. Sewage and Solid waste
15. Forest coverage
16. Agriculture
17. Marketing facilities
18. Water weeds
19. Sedimentation
20. Sand mining
21. Sea water intrusion / Erosion
22. Encroachments
23. Fisheries
24. Seismic zones
25. Live stock
26. Seasonal migration
27. Estuary and creek
28. Diseases.

DESIGN AND DRAWING

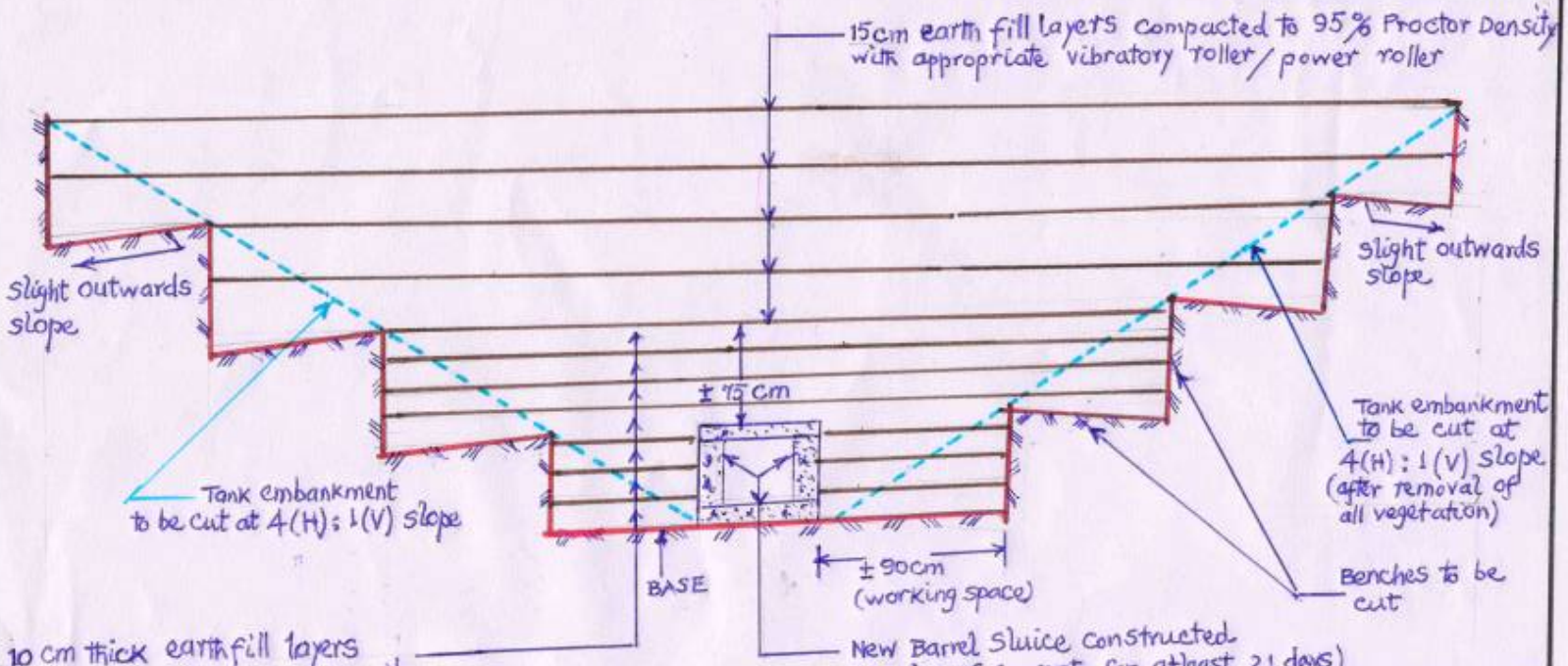

TOP OF BANK
0.30m
7.50cm
15.0cm
15.0cm
SIDE SLOPE 1:1
D
BED LEVEL
7.50cm
15.0cm
B
SIDE SLOPE 1:1
0.30m
TOP OF BANK
7.50cm
15.0cm.
15.0cm
P.c.c.(1:3:6) 7.50cm TK.
SECTION ALONG Y-Y
150m(or) 200m
Y
Y
15cm
30cm
15cm
15cm
30cm
15cm
FLOW DIRECTION.
FLOW DIRECTION.
X
X
PLAN VIEW
60cm
P.c.c.(1:3:6)
7.50cm
15cm.
15cm
30cm
15cm
SECTION ALONG X-X
TYPICAL SECTION OF BEDBAR/MODEL SECTION FOR SUPPLY CHANNEL.
DIMENSIONS TO SUIT SITE CONDITION.
DRAWING NOT TO SCALE

TYPICAL SKETCH

RAISING & STRENGTHENING OF TANK BUND



TYPICAL SKETCH



NOTES

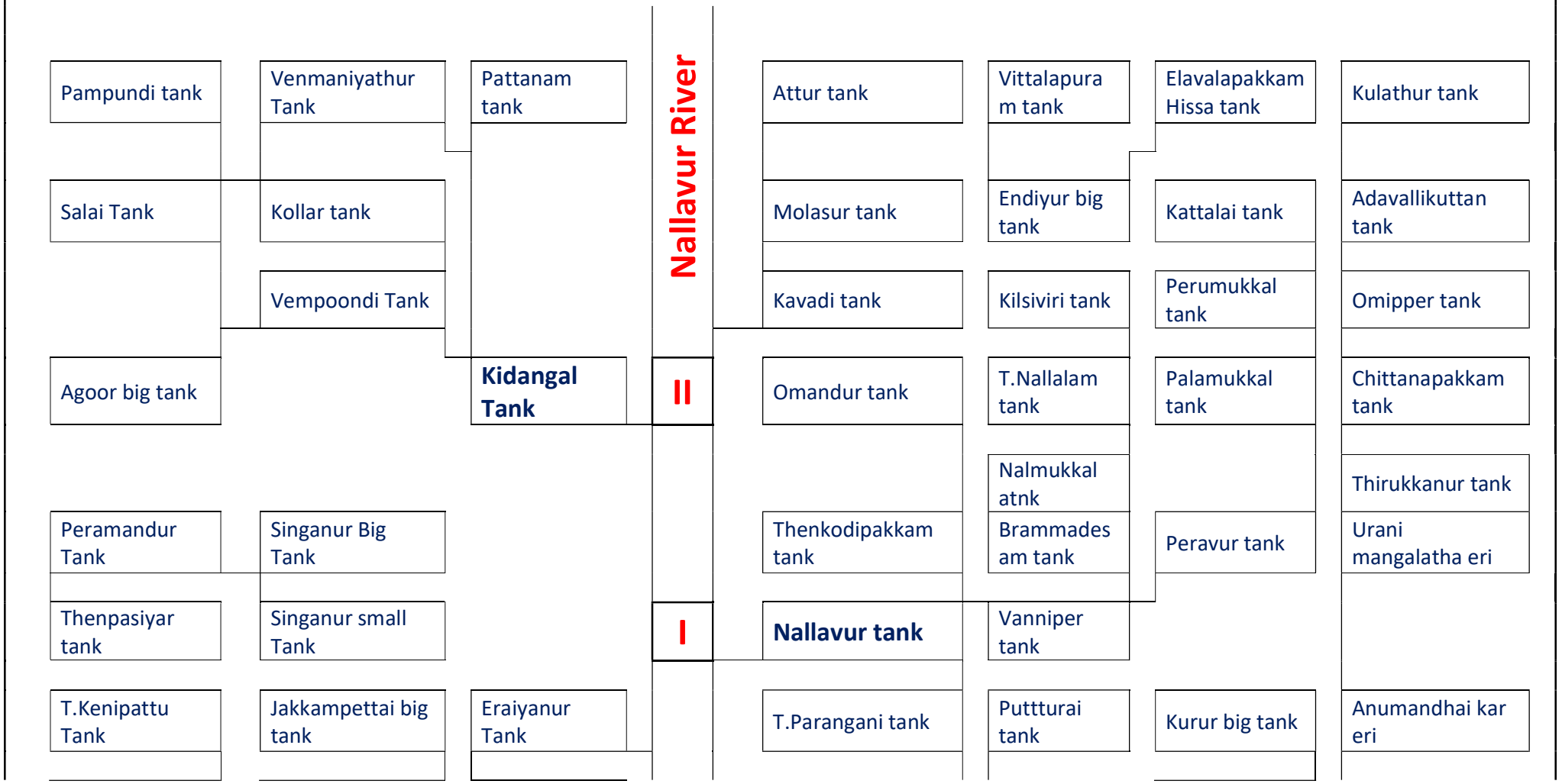
(i) The Base MUST be made smooth & hard, duly compacted with compactors / pneumatic tampers.

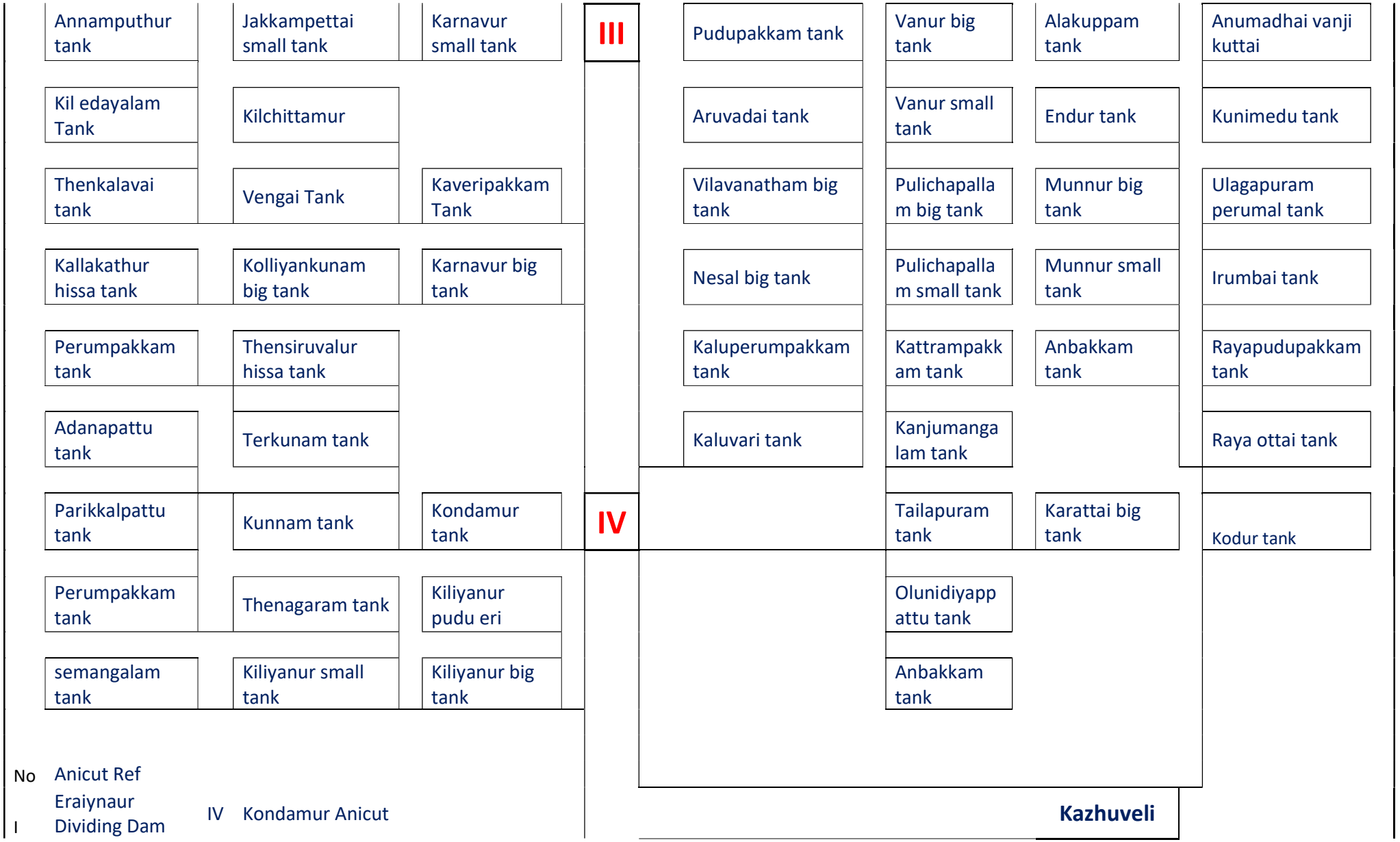
(ii) Earth fill compaction adjoining the Barrel and Benches should be compacted by mechanical / pneumatic tampers to ensure effective compaction.

(iii) Earth obtained from "benching" be reused (after removal of clods (bigger than 7.5 cm), vegetation etc) in earth fill layers.

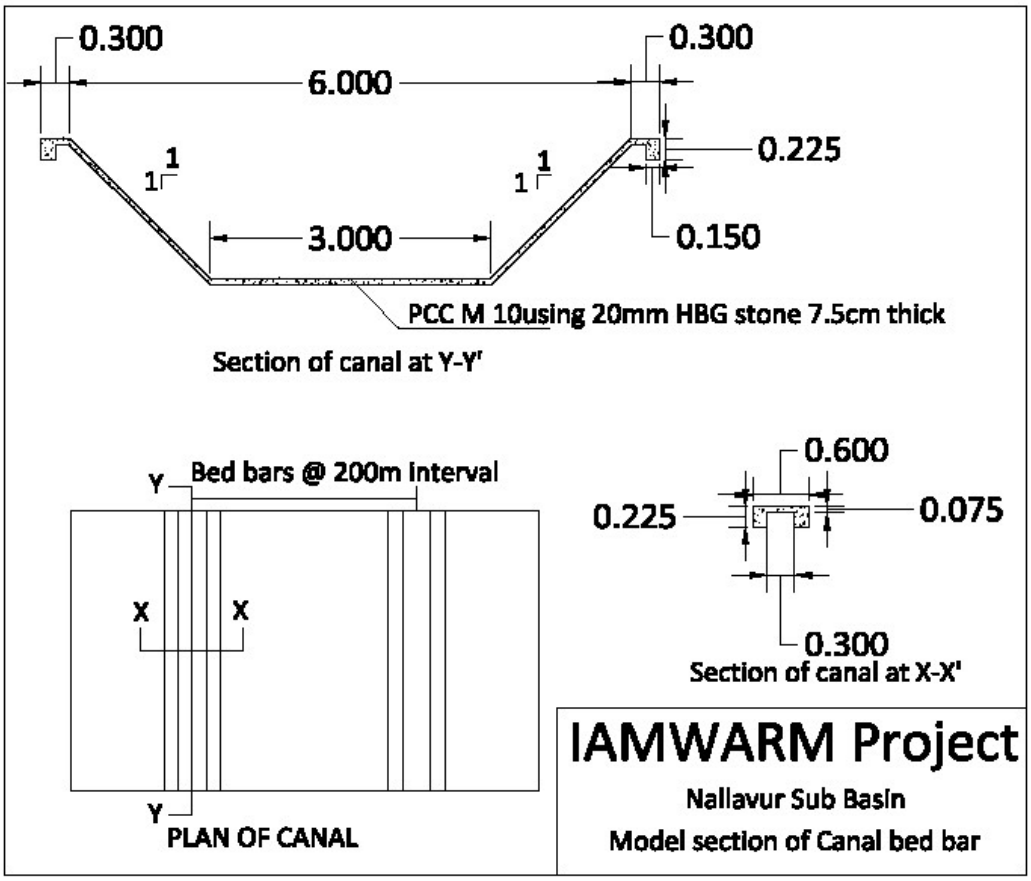
RECONSTRUCTION OF SLUICES

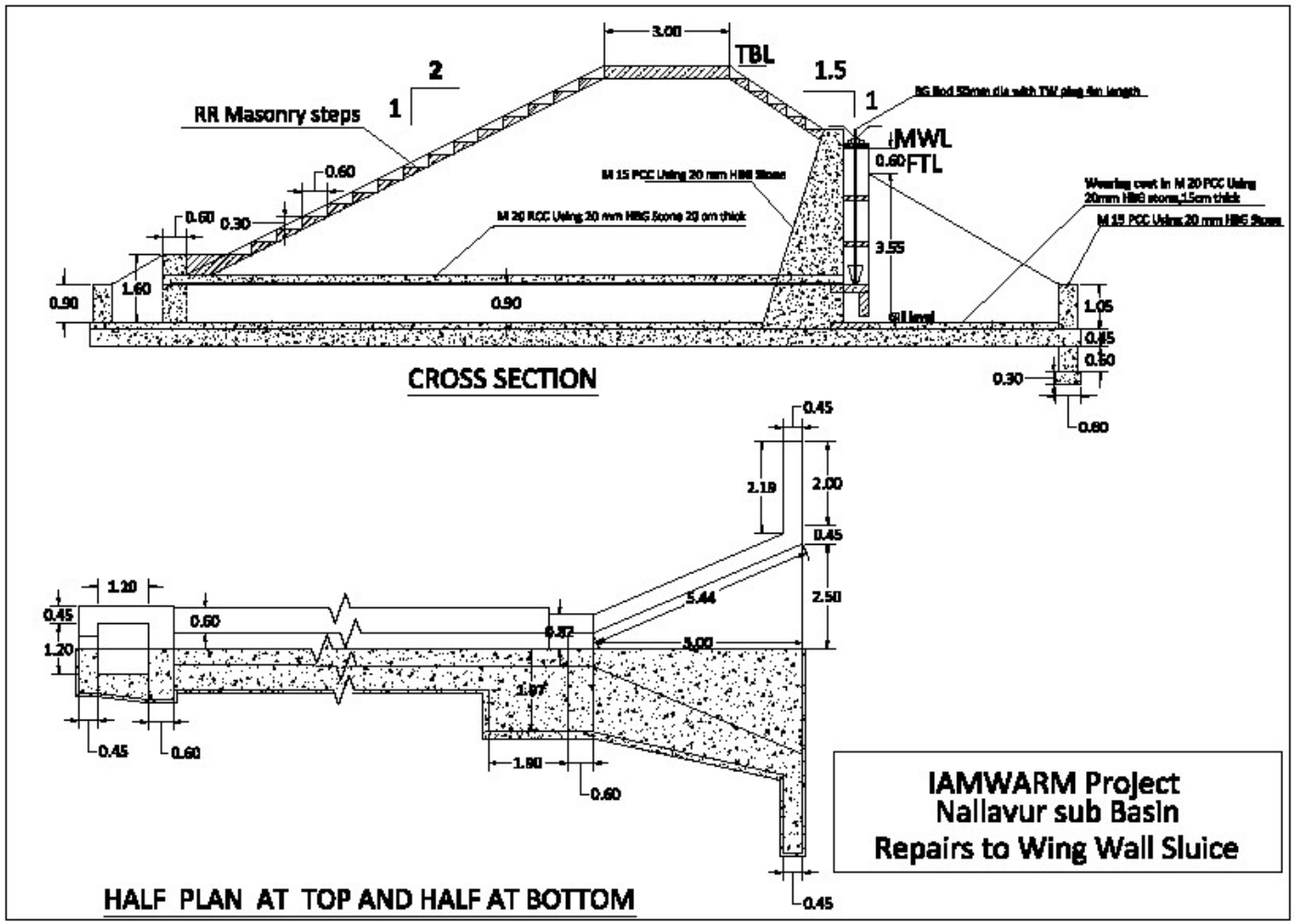
FLOW DIAGRAM OF NALLAVUR SUB BASIN

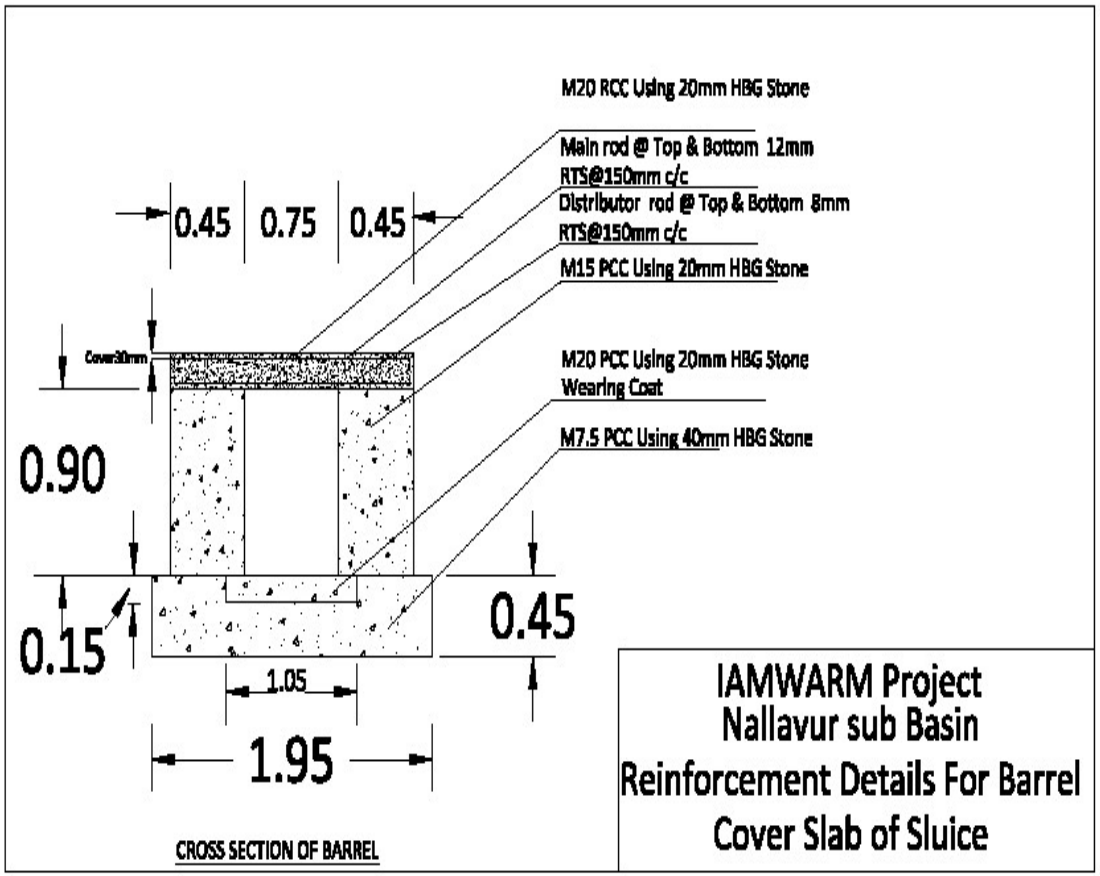


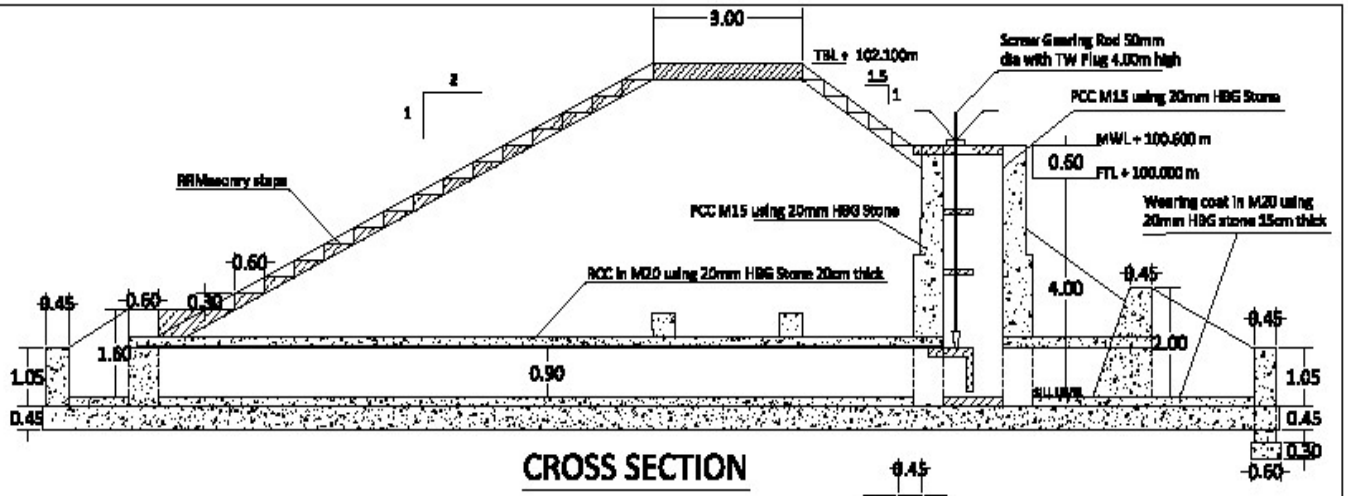

Annamputhur tank
Jakkampettai small tank
Karnavur small tank
III
Pudupakkam tank
Vanur big tank
Alakuppam tank
Anumadhai vanji kuttai
Kil edayalam Tank
Kilchittamur
Aruvadai tank
Vanur small tank
Endur tank
Kunimedu tank
Thenkalavai tank
Vengai Tank
Kaveripakkam Tank
Vilavanatham big tank
Pulichapallam big tank
Munnur big tank
Ulagapuram perumal tank
Kallakathur hissa tank
Kolliyankunam big tank
Karnavur big tank
Nesal big tank
Pulichapallam small tank
Munnur small tank
Irumbai tank
Perumpakkam tank
Thensiruvalur hissa tank
Kaluperumpakkam tank
Kattrampakkam tank
Anbakkam tank
Rayapudupakkam tank
Adanapattu tank
Terkunam tank
Kaluvari tank
Kanjumangalam tank
Raya ottai tank
Parikkalpattu tank
Kunnam tank
Kondamur tank
IV
Tailapuram tank
Karattai big tank
Kodur tank
Perumpakkam tank
Thenagaram tank
Kiliyanur pudu eri
Olunidiyappattu tank
semangalam tank
Kiliyanur small tank
Kiliyanur big tank
Anbakkam tank
No
I
Anicut Ref
Eraiynaur Dividing Dam
IV
Kondamur Anicut
Kazhuveli

	Omandur			**swamp**	
II	Anicut				
	Annamputhur				
III	Dividing Dam				

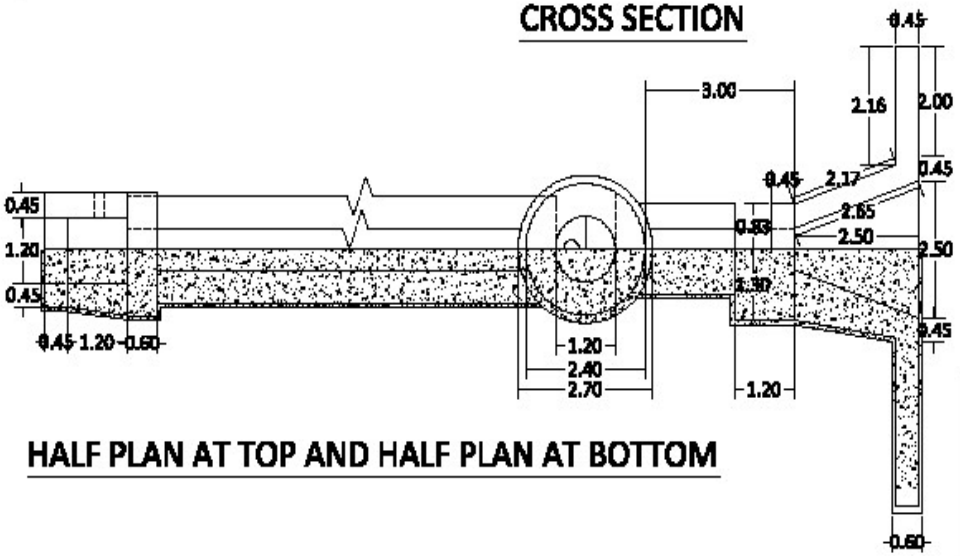

0.300
6.000
0.300
0.225
1
1
1
1
3.000
0.150
PCC M 10using 20mm HBG stone 7.5cm thick
Section of canal at Y-Y'
Y
Bed bars @ 200m Interval
X
X
Y
PLAN OF CANAL
0.600
0.225
0.075
0.300
Section of canal at X-X'
IAMWARM Project
Nallavur Sub Basin
Model section of Canal bed bar


3.00
TBL
2
1
1.5
1
RR Masonry steps
MWL
FTL
0.60
0.30
0.60
1.60
0.90
0.90
3.55
1.05
0.85
0.50
0.30
0.60
CROSS SECTION
0.45
2.19
2.00
0.45
2.50
5.44
1.20
0.45
1.20
0.60
0.87
5.00
1.97
0.45
0.60
1.80
0.60
0.45
HALF PLAN AT TOP AND HALF AT BOTTOM
IAMWARM Project
Nallavur sub Basin
Repairs to Wing Wall Sluice


M20 RCC Using 20mm HBG Stone
Main rod @ Top & Bottom 12mm RTS@150mm c/c
Distributor rod @ Top & Bottom 8mm RTS@150mm c/c
M15 PCC Using 20mm HBG Stone
M20 PCC Using 20mm HBG Stone Wearing Coat
M7.5 PCC Using 40mm HBG Stone
0.45
0.75
0.45
Cover30mm
0.90
0.15
0.45
1.05
1.95
CROSS SECTION OF BARREL
IAMWARM Project
Nallavur sub Basin
Reinforcement Details For Barrel Cover Slab of Sluice



CROSS SECTION

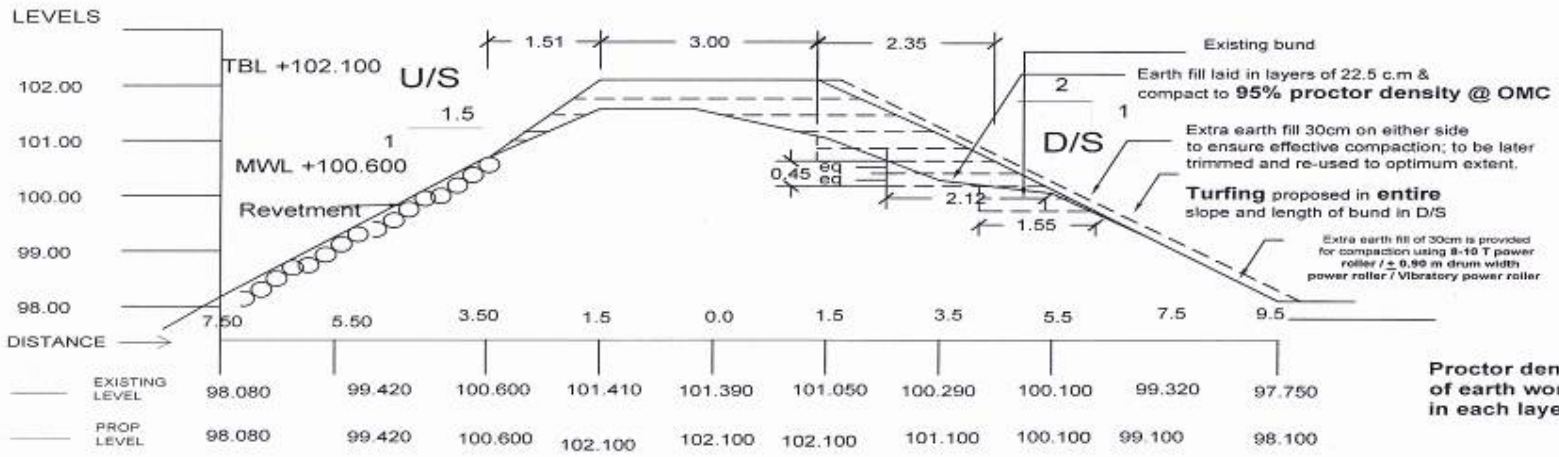


HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

IAMWARM PROJECT

Nallavur Sub Basin
Reconstruction of
Tower Head Sluice

METHODOLOGY OF RAISING & STRENGTHENING OF T.PARANGINI TANK BUND



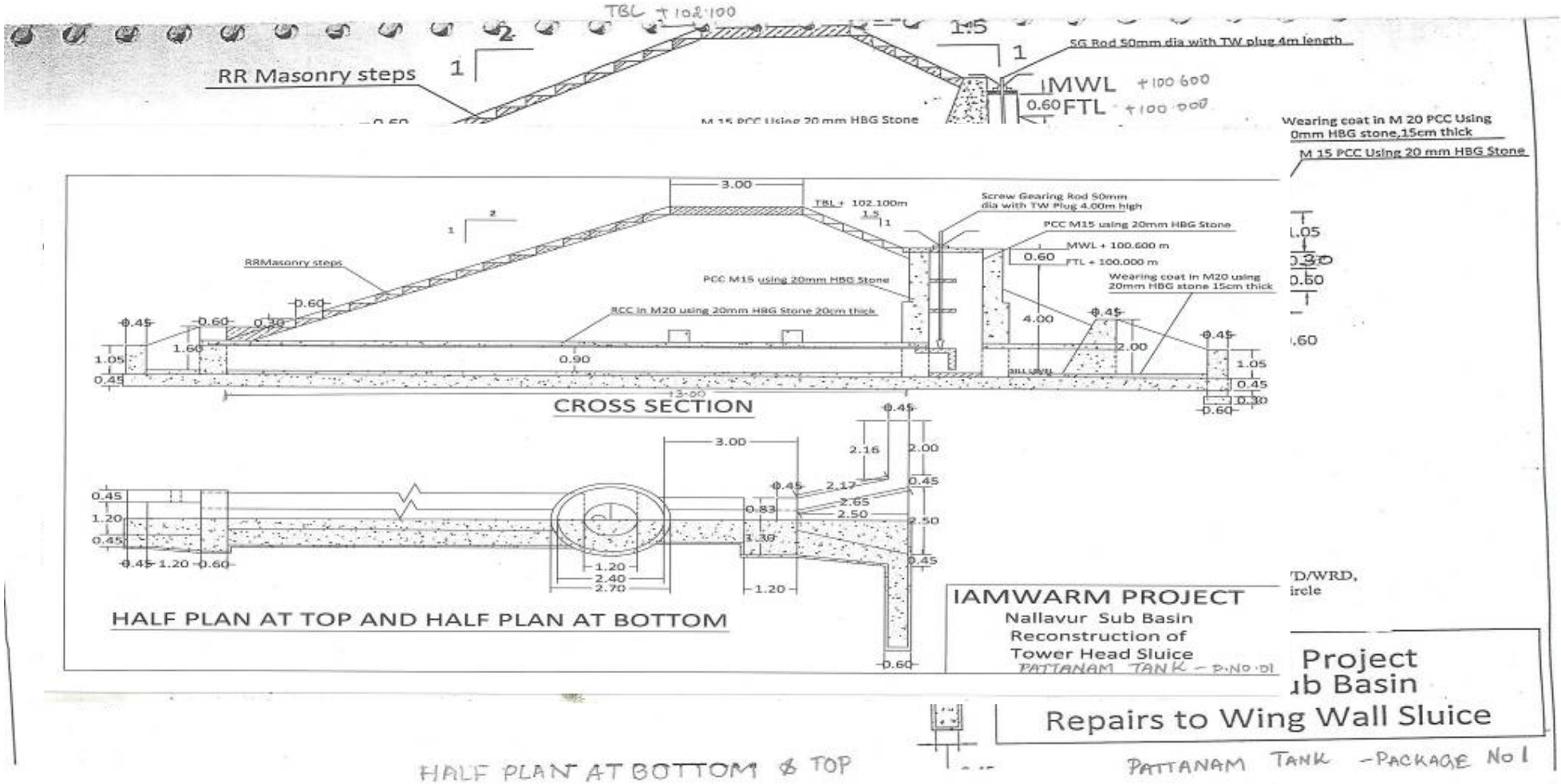
Proctor density test for every 300m3 of earth work and at least one test in each layer (IS 2720-1975(Part -XXIX))

C.S@L.S - 1000 M

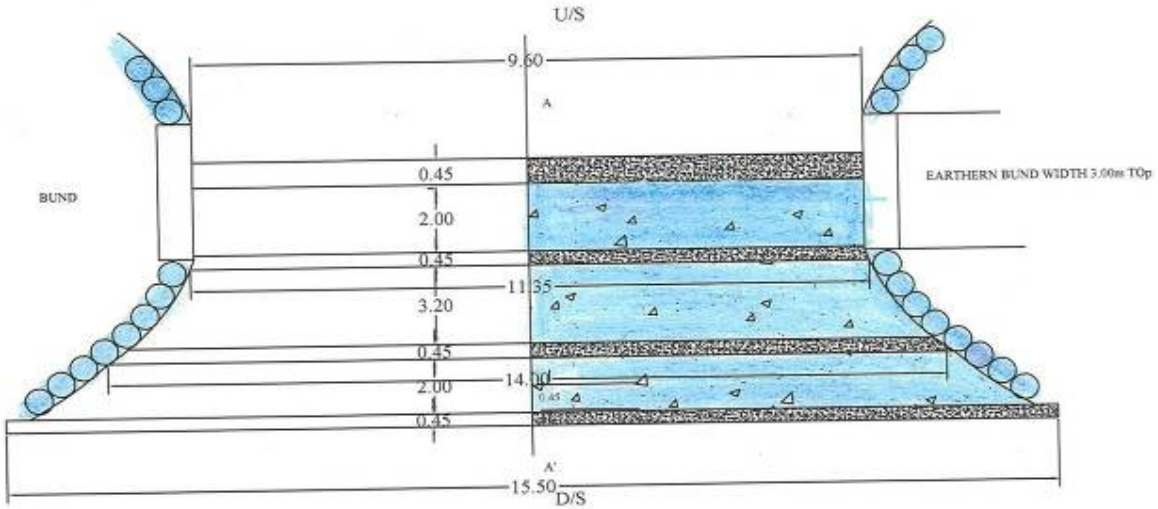
NALLAVUR SUB BASIN, PACKAGE NO.5

Note : All dimensions are in Meters

Scale 1 : 100


TBL + 102.100
RR Masonry steps
1
2
1.5
1
SG Rod 50mm dia with TW plug 4m length
MWL +100.600
0.60 FTL +100.000
M 15 PCC Using 20 mm HBG Stone
Wearing coat in M 20 PCC Using
0mm HBG stone,15cm thick
M 15 PCC Using 20 mm HBG Stone
3.00
TBL + 102.100m
Screw Gearing Rod 50mm
dia with TW Plug 4.00m high
PCC M15 using 20mm HBG Stone
MWL + 100.600 m
0.60 FTL + 100.000 m
RRMasonry steps
PCC M15 using 20mm HBG Stone
RCC in M20 using 20mm HBG Stone 20cm thick
Wearing coat in M20 using
20mm HBG stone 15cm thick
4.00
2.00
0.90
3.00
CROSS SECTION
2.16
2.00
2.17
2.65
2.50
0.83
1.30
1.20
2.40
2.70
HALF PLAN AT TOP AND HALF PLAN AT BOTTOM
IAMWARM PROJECT
Nallavur Sub Basin
Reconstruction of
Tower Head Sluice
PATTANAM TANK - P.NO.01
Project
ub Basin
Repairs to Wing Wall Sluice
HALF PLAN AT BOTTOM & TOP
PATTANAM TANK -PACKAGE No 1

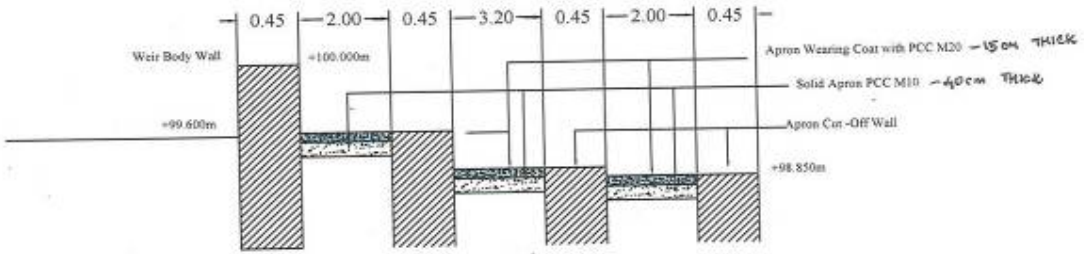
REPAIRS TO WEIR IN PATTANAM TANK



Weir Half Plan at Top and Bottom

HYDRAULIC PARTICULARS

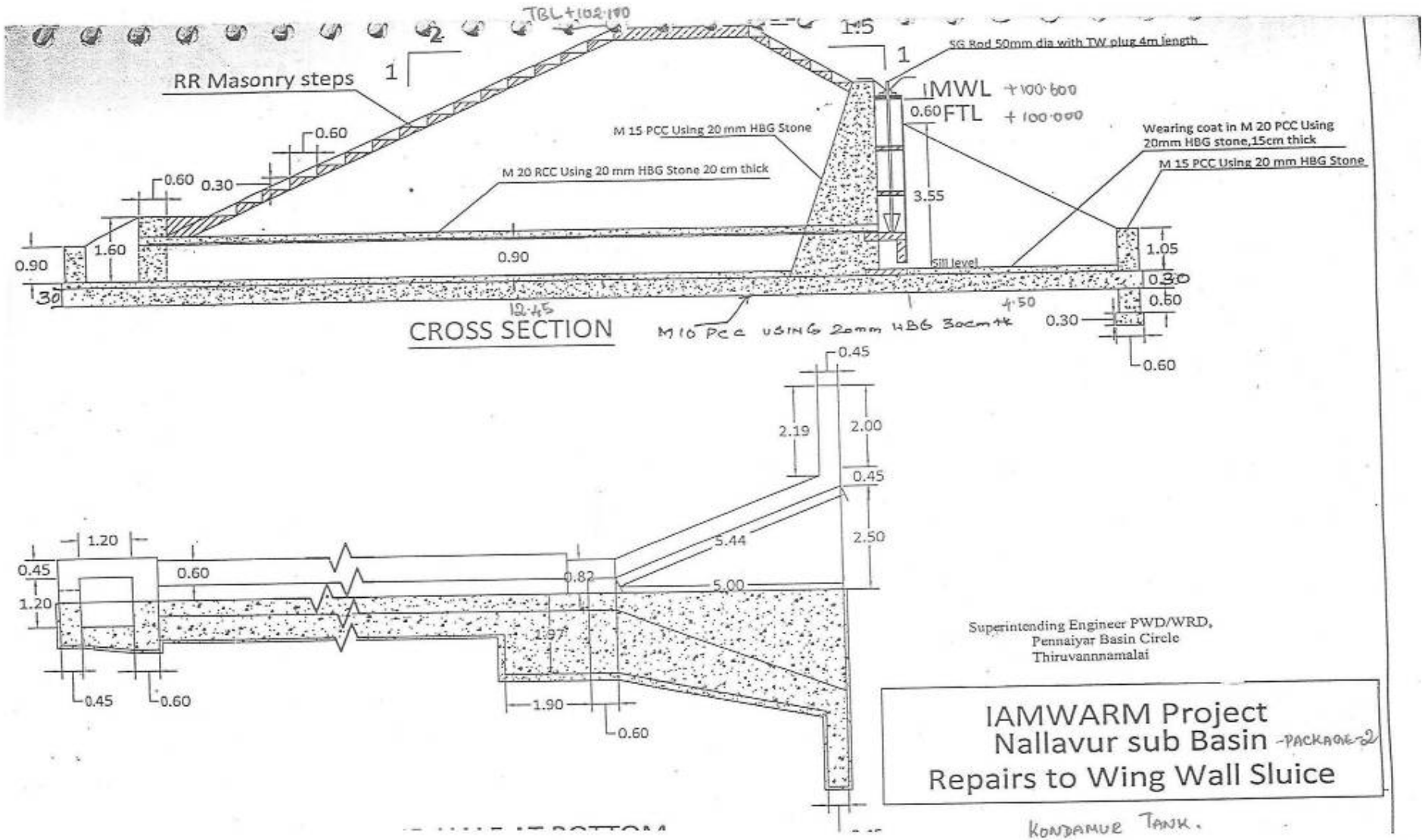
FTL	+100.000m
MWL	+100.600m
TBL	+102.100m
CAPACITY	28.40MCFT
WSA	1.79mm2
AYACUT	79.98Hec



□ - PROPOSALS

CROSS SECTION OF WEIR AT AA'

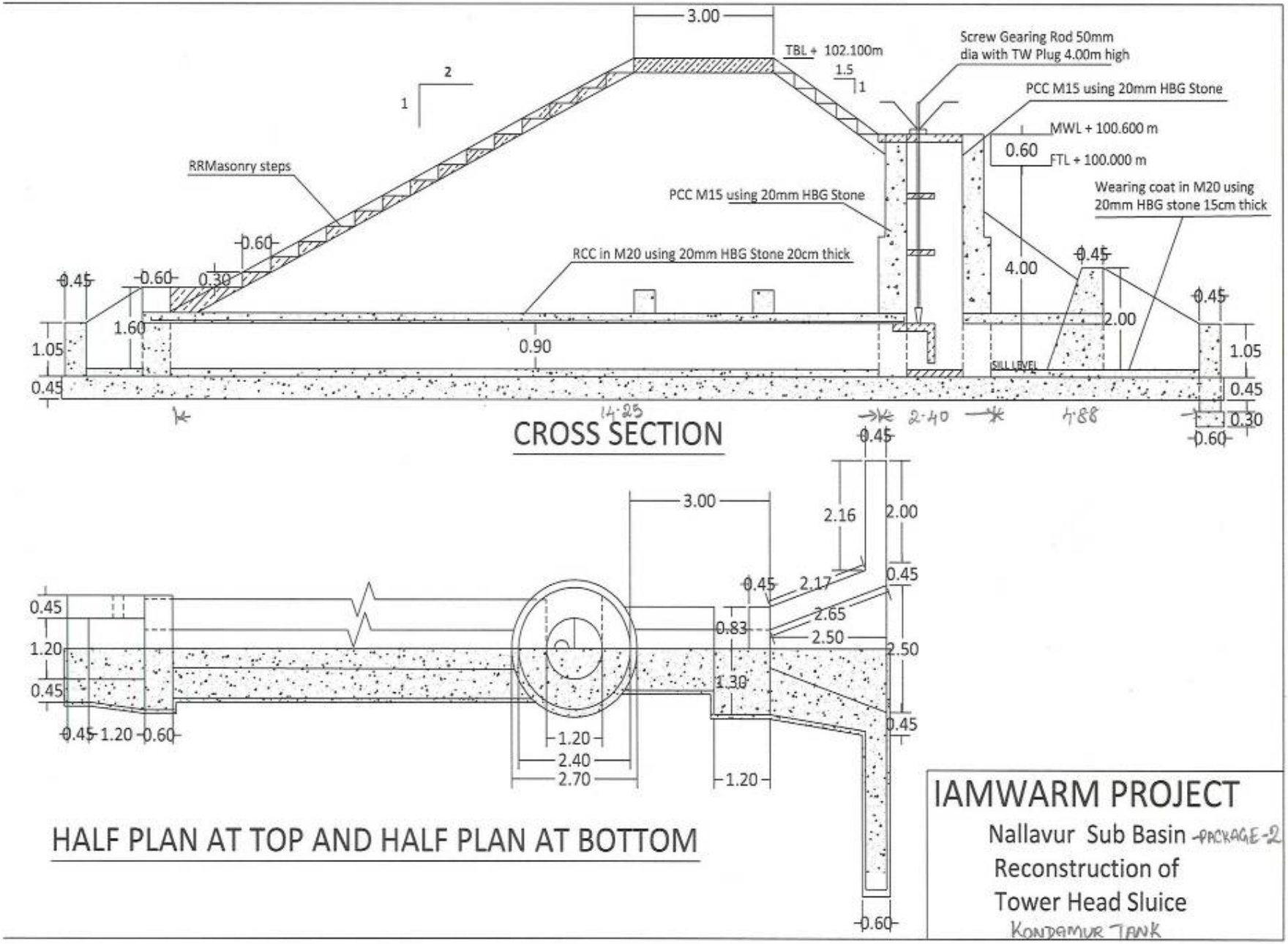
NALLAVUR SUB BASIN - PACKAGE NO 1
NAME OF TANK : PATTANAM TANK
ALL DIMENSIONS ARE IN METRE

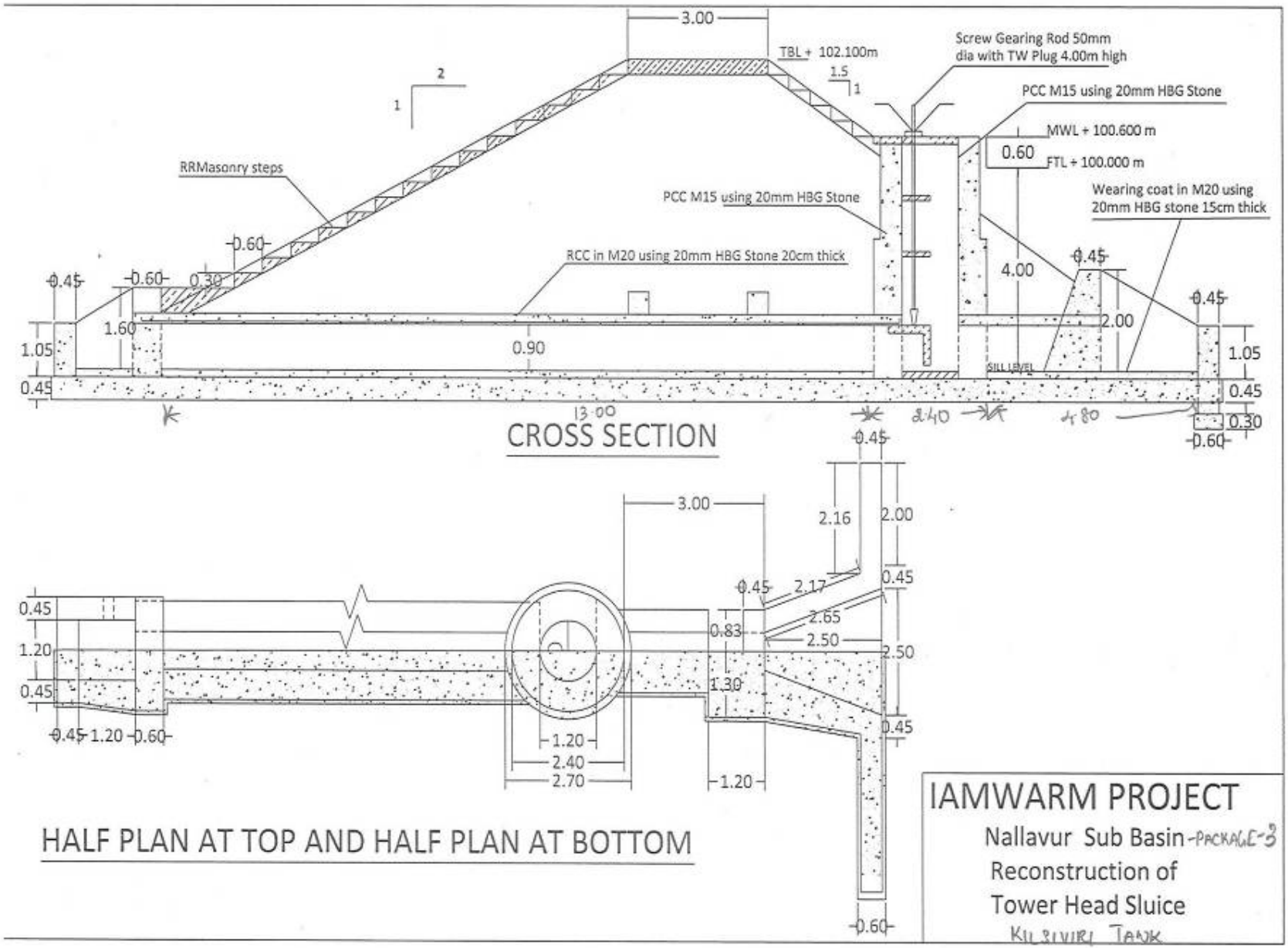


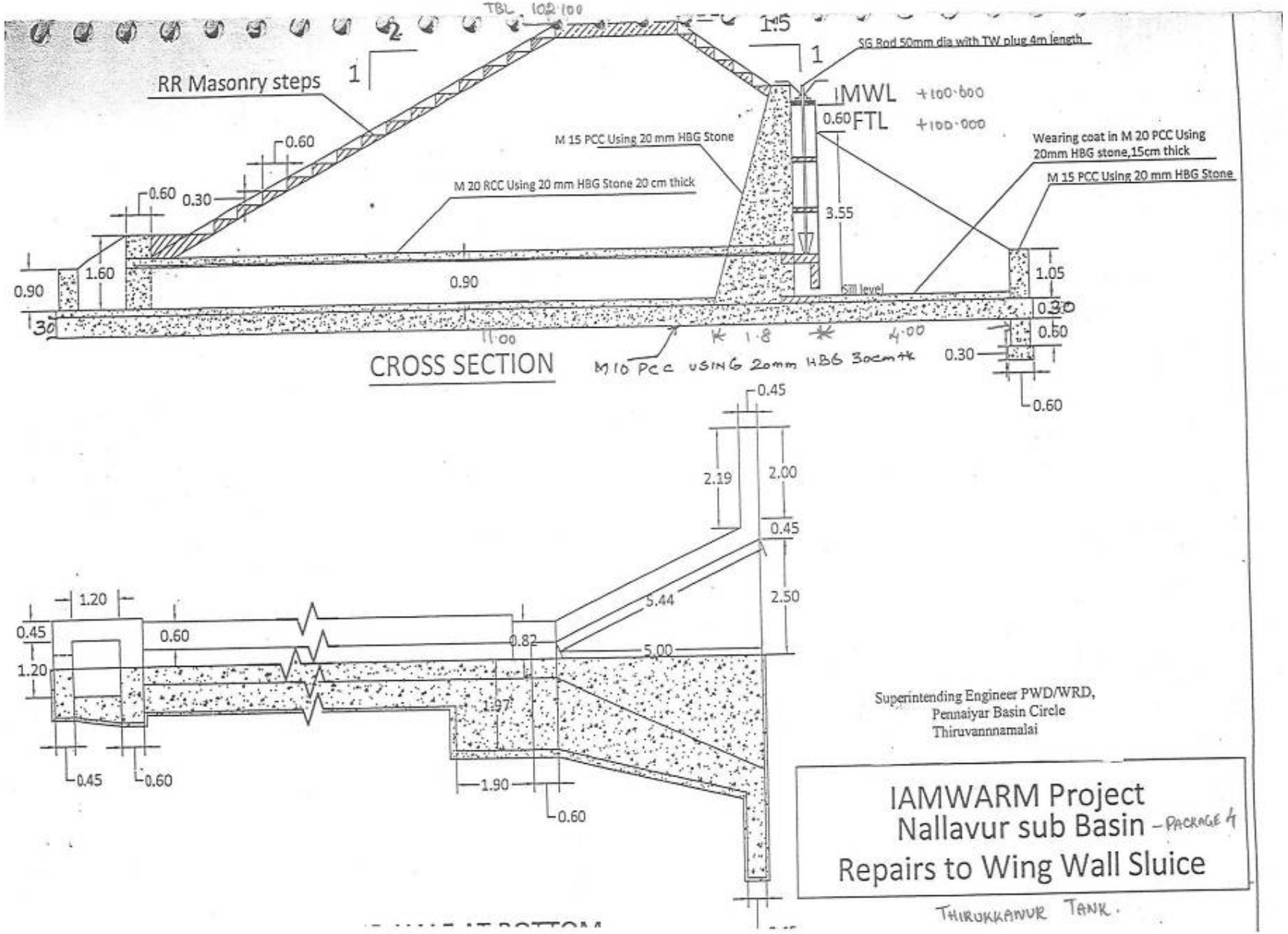
Superintending Engineer PWD/WRD,
Pennaiyar Basin Circle
Thiruvannamalai

IAMWARM Project
Nallavur sub Basin -PACKAGE-2
Repairs to Wing Wall Sluice

KONDAMUR TANK.


3.00
TBL + 102.100m
Screw Gearing Rod 50mm dia with TW Plug 4.00m high
PCC M15 using 20mm HBG Stone
MWL + 100.600 m
FTL + 100.000 m
0.60
Wearing coat in M20 using 20mm HBG stone 15cm thick
RRMasonry steps
PCC M15 using 20mm HBG Stone
RCC in M20 using 20mm HBG Stone 20cm thick
4.00
2.00
1.60
0.90
SILL LEVEL
1.05
0.45
0.30
14.25
2.40
4.88
CROSS SECTION
2.16
2.17
2.65
2.50
0.83
1.30
1.20
2.40
2.70
HALF PLAN AT TOP AND HALF PLAN AT BOTTOM
IAMWARM PROJECT
Nallavur Sub Basin -PACKAGE-2
Reconstruction of
Tower Head Sluice
KONDAMUR TANK


3.00
TBL + 102.100m
1.5
1
2
1
Screw Gearing Rod 50mm dia with TW Plug 4.00m high
PCC M15 using 20mm HBG Stone
MWL + 100.600 m
0.60
FTL + 100.000 m
RRMasonry steps
PCC M15 using 20mm HBG Stone
Wearing coat in M20 using 20mm HBG stone 15cm thick
RCC in M20 using 20mm HBG Stone 20cm thick
0.60
0.45
0.60
0.30
4.00
0.45
0.45
1.60
2.00
1.05
0.90
1.05
SILL LEVEL
0.45
0.45
13.00
2.40
2.80
0.30
0.60
CROSS SECTION
0.45
3.00
2.16
2.00
0.45
2.17
0.45
0.45
2.65
0.83
2.50
1.20
2.50
0.45
1.30
0.45
1.20
0.60
1.20
2.40
2.70
1.20
0.60
HALF PLAN AT TOP AND HALF PLAN AT BOTTOM
IAMWARM PROJECT
Nallavur Sub Basin - PACKAGE-3
Reconstruction of
Tower Head Sluice
KILSIVIRI TANK

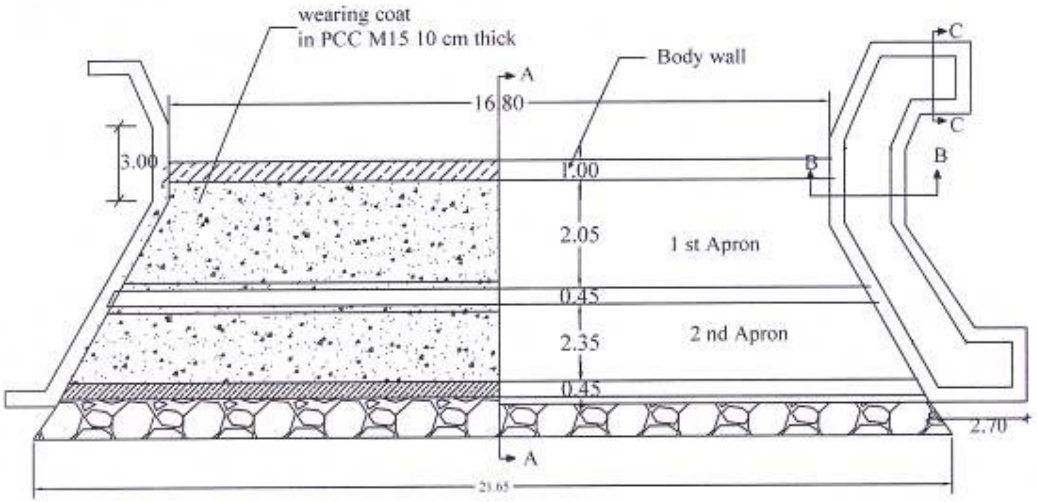


Superintending Engineer PWD/WRD,
Pennaiyar Basin Circle
Thiruvannnamalai

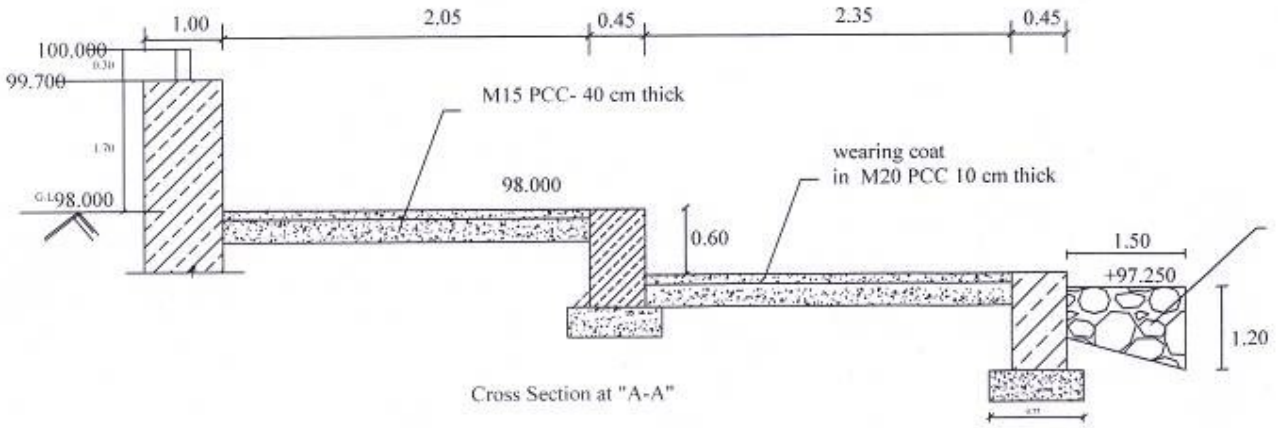
IAMWARM Project
Nallavur sub Basin – PACKAGE 4
Repairs to Wing Wall Sluice

THIRUKKANUR TANK.

REPAIRS TO WEIR NO 1 OF T.PARANGINI TANK



Weir Half Plan at Top and Bottom



Cross Section at "A-A"

HYDRAULIC PARTICULARS

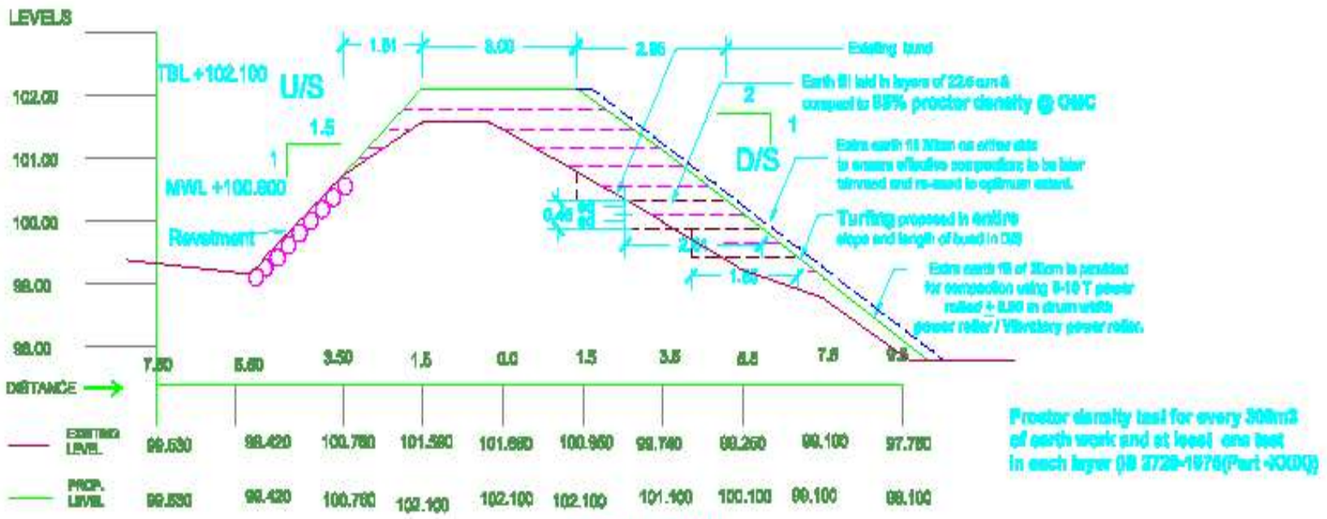
SILL LEVEL	+97.900m
FTL	+100.000m
MWL	+100.600m
TBL	+102.100m
AYACUT	67.42Hec

NALLAVUR SUB BASIN - PACKAGE NO 5

NAME OF TANK : T.PARANGINI TANK

ALL DIMENSIONS ARE IN METRE

METHODOLOGY OF RAISING & STRENGTHENING OF KONDAMUR TANK BUND



Proctor density test for every 300m3 of earth work and at least one test in each layer (IS 2720-1976(Part-XXXI))

C.S@L.S - 1600 M

NALLAVUR SUB BASIN, PACKAGE NO.2

Note : All dimensions are in Meters

Scale 1 : 100

HENING OF

ing bund

in layers of 22.5 cm &
95% proctor density @ OMC

earth fill 30cm on either side
sure effective compaction, to be later
ed and re-used to optimum extent.

ing proposed in entire
and length of bund in D/S

Extra earth fill of 30cm is provided
for compaction using 8-10 T power
roller / ± 0.00 m drum width
power roller / Vibratory power roller.

9.5

98.260

99.100

Proctor density test for every 300m3
of earth work and at least one test
in each layer (IS 2720-1976(Part-XXXI))

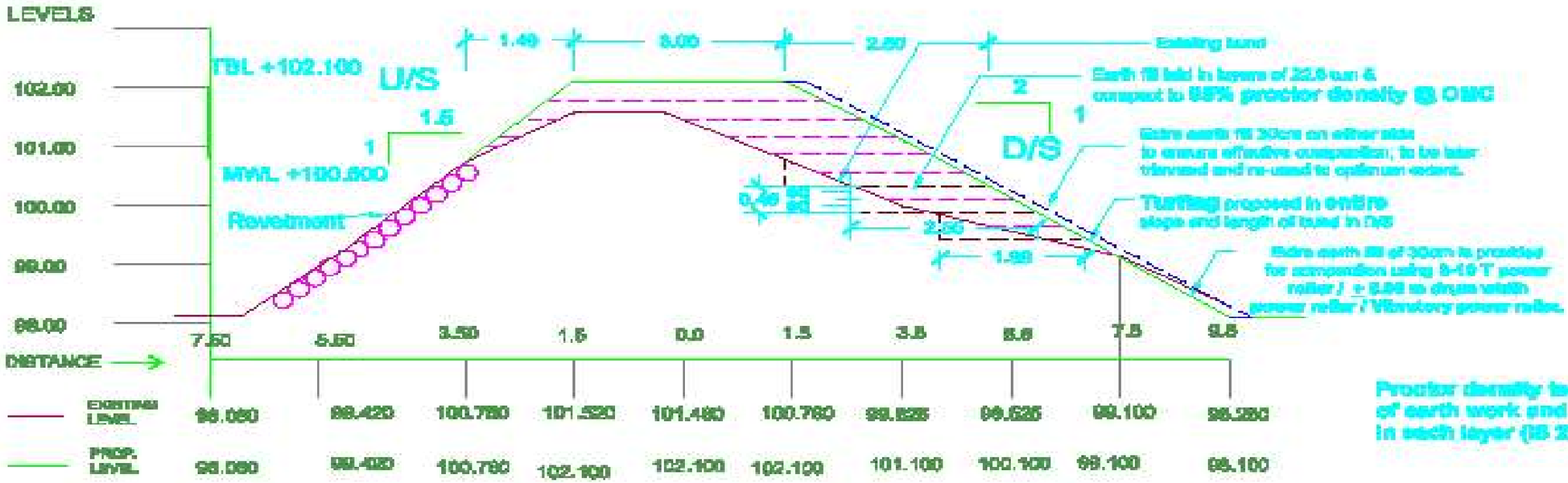
C.S@L.S - 600 M

NALLAVUR SUB BASIN, PACKAGE NO.4

Note : All dimensions are in Meters

Scale 1 : 100

METHODOLOGY OF RAISING & STRENGTHENING OF PATTANAM TANK BUND



Proctor density test for every 300m3 of earth work and at least one test in each layer (IS 2720-1970(Part -VIII))

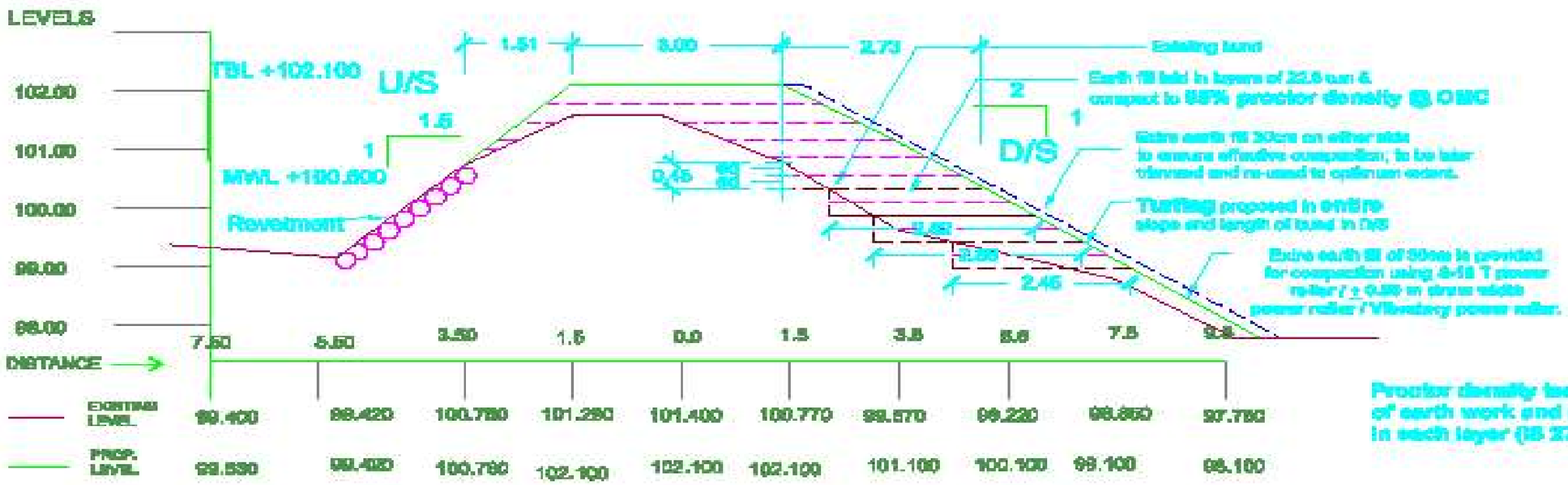
C.S@L.S - 200 M

NALLAVUR SUB BASIN, PACKAGE NO.1

Note : All dimensions are in Meters

Scale 1 : 100

METHODOLOGY OF RAISING & STRENGTHENING OF KILSIVIRI TANK BUND



Proctor density test for every 500m3 of earth work and at least one test in each layer (IS 2720-1970(Part -8)2003)

C.S@L.S - 1160 M

NALLAVUR SUB BASIN, PACKAGE NO.3

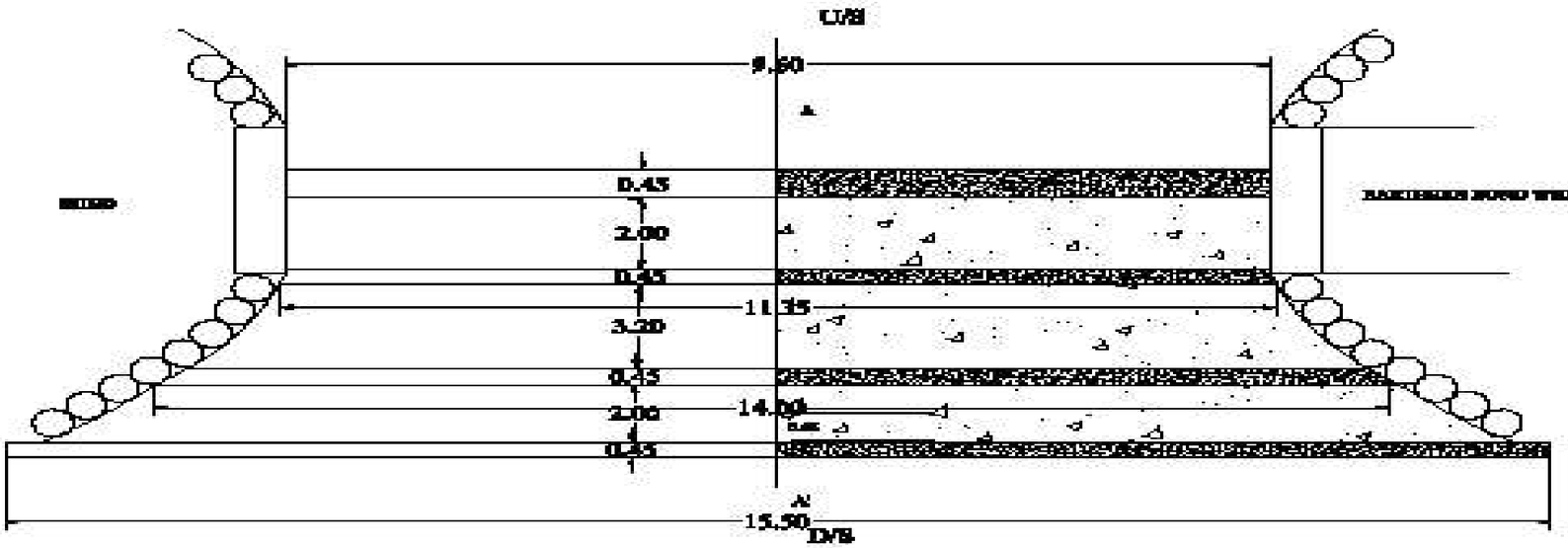
Note : All dimensions are in Meters

Scale 1 : 100

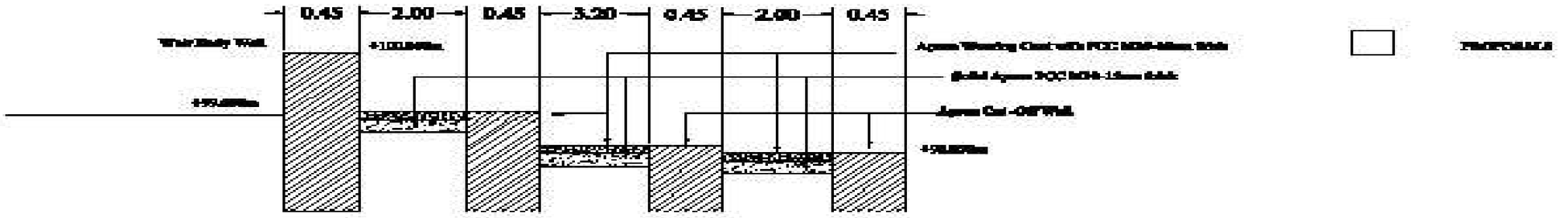
REPAIRS TO WEIR IN PATTANAM TANK

HYDRAULIC PARTICULARS

FSL	+[illegible]m
MWL	+[illegible]m
TBL	+[illegible]m
CAPACITY	[illegible]
WBL	[illegible]
ATAGHT	[illegible]



Weir Half Plan at Top and Bottom



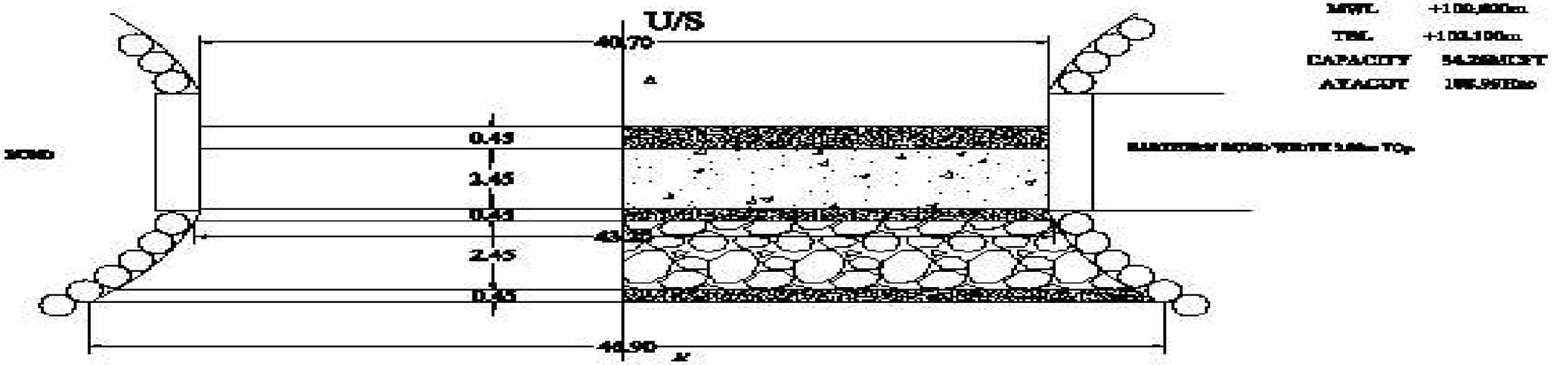
CROSS SECTION OF WEIR AT AA'

[illegible]

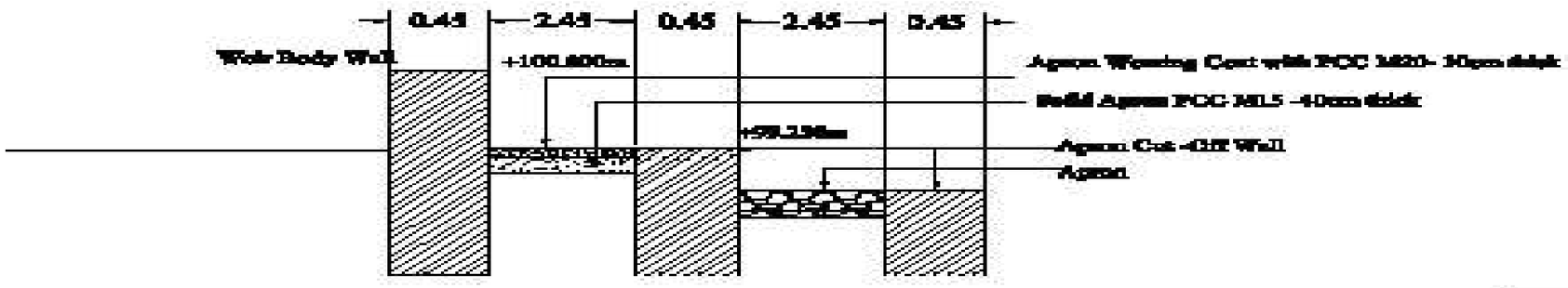
REPAIRS TO WEIR NO 1 IN KONDAMUR TANK

HYDRAULIC PARTICULARS

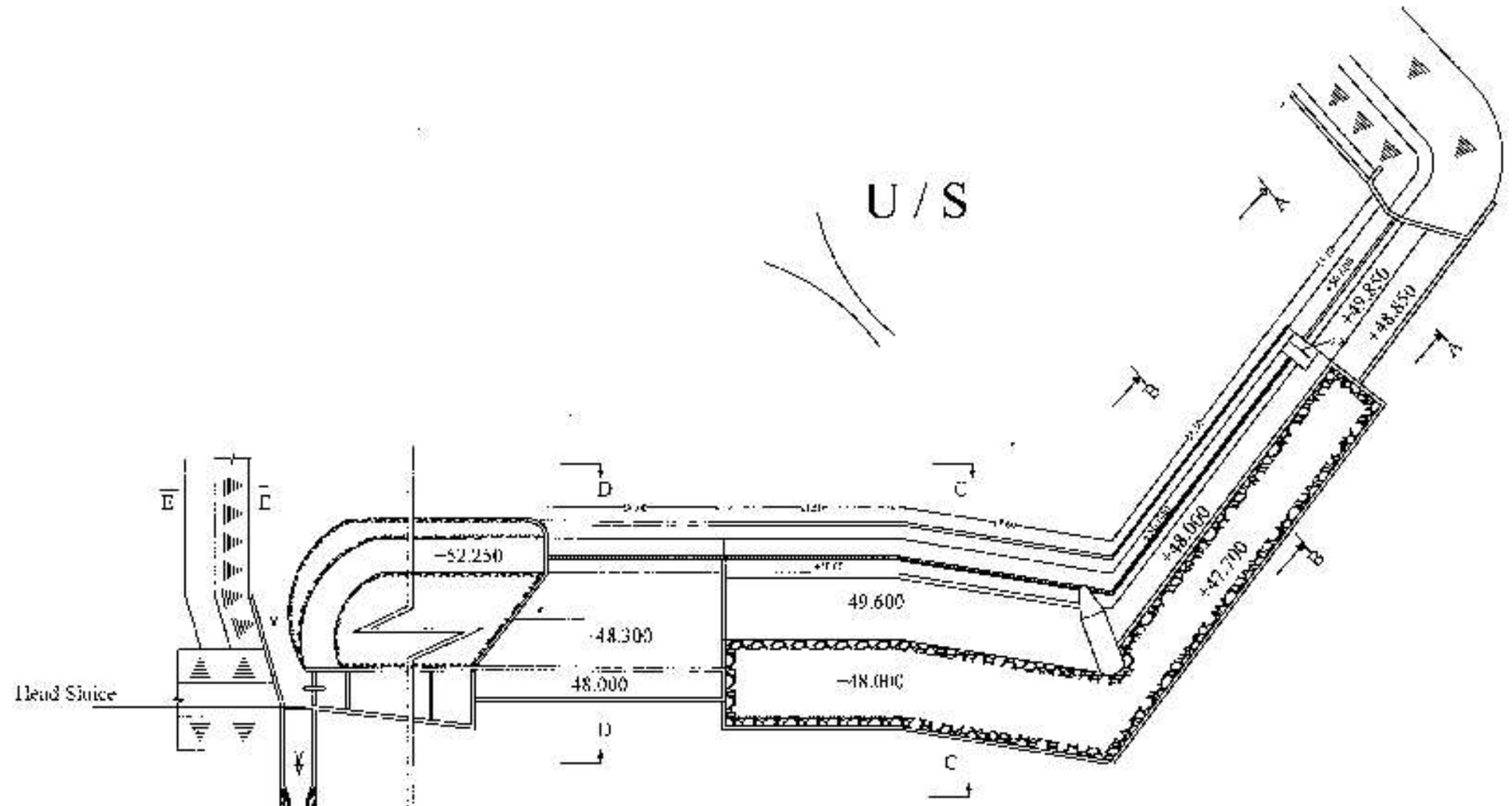
FTL	+[illegible]
MWL	+100.800m
TBL	+[illegible]
CAPACITY	[illegible]
AYACUT	[illegible]



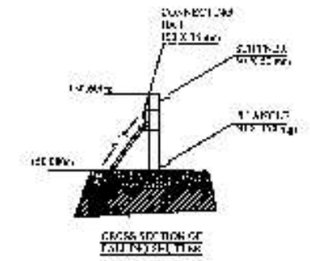
Weir Half Plan at Top and Bottom

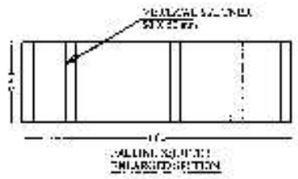


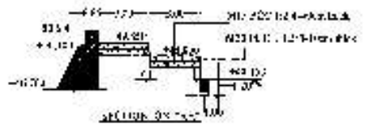
CROSS SECTION OF WEIR AT AA'

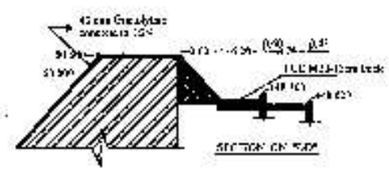


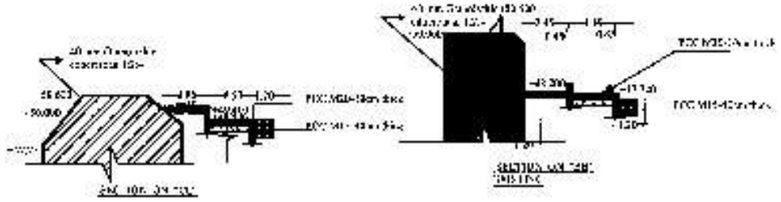
PLAN

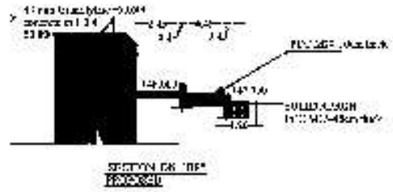




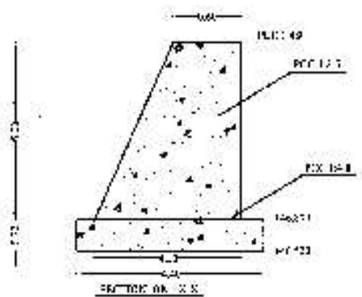


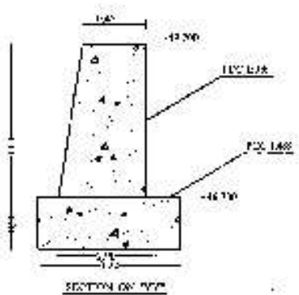


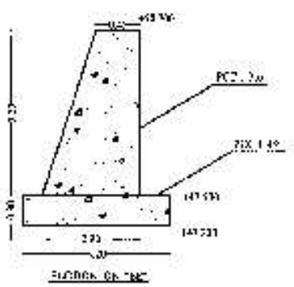




HYDRAULIC PROFILE







NALLAVUR SUB BASIN

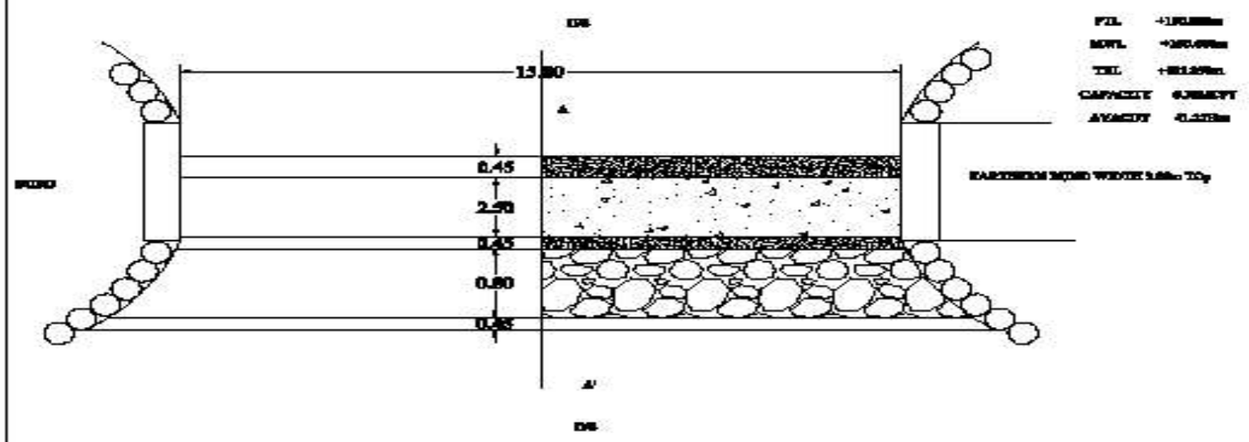
PLAN SHOWING THE IMPROVEMENTS TO

KONDAMUR ANICUT

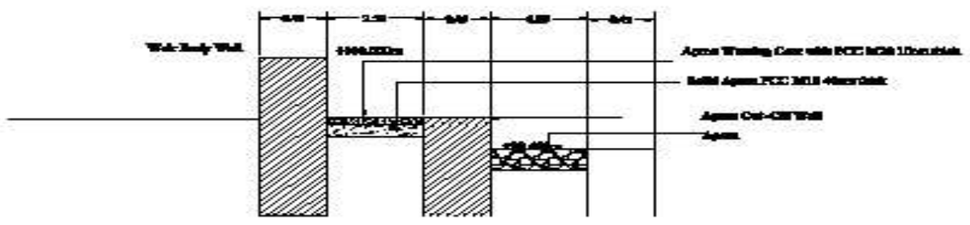
ALL DIMENSIONS ARE IN "M"

REPAIRS TO WEIR IN THIRUKKANUR TANK

HYDRAULIC PARTICULARS

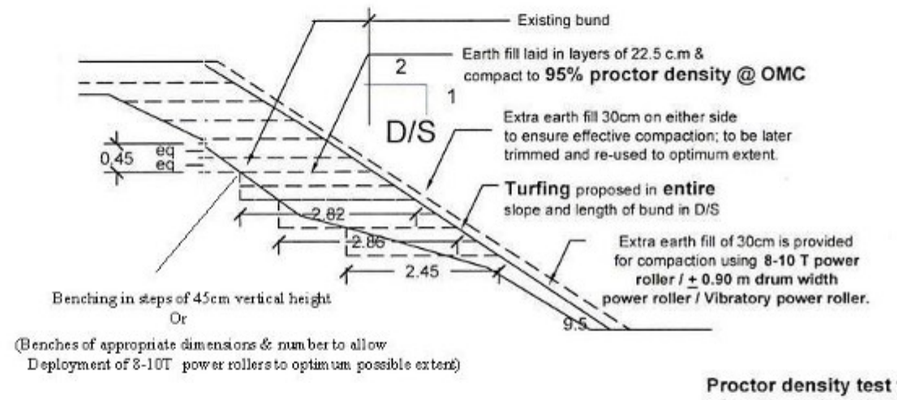


Weir Half Plan at Top and Bottom



CROSS SECTION OF WEIR AT AA'

METHODOLOGY OF RAISING & STRENGTHENING OF KILSIVIRI TANK BUND



Proctor density test for every 300m3 of earth work and at least one test in each layer (IS 2720-1975(Part -XXIX))

C.S@L.S - 1180 M

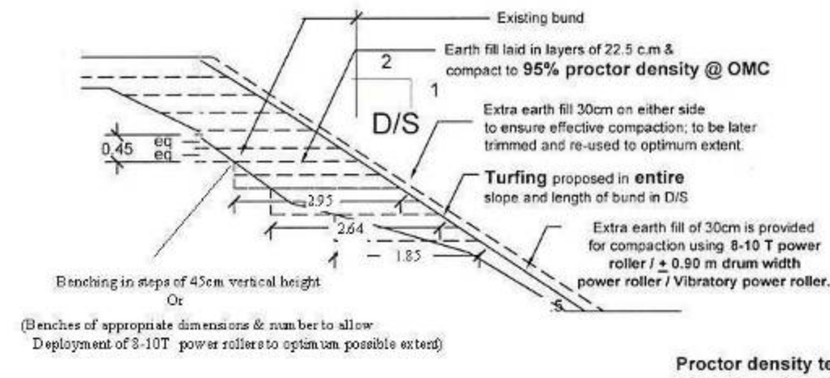
ENLARGED (PART SECTION)

NALLAVUR SUB BASIN, PACKAGE NO.3

Note : All dimensions are in Meters

Scale 1 :50

METHODOLOGY OF RAISING & STRENGTHENING OF KONDAMUR TANK BUND



Proctor density test for every 300m3 of earth work and at least one test in each layer (IS 2720-1975(Part -XXIX))

C.S@L.S - 1600M

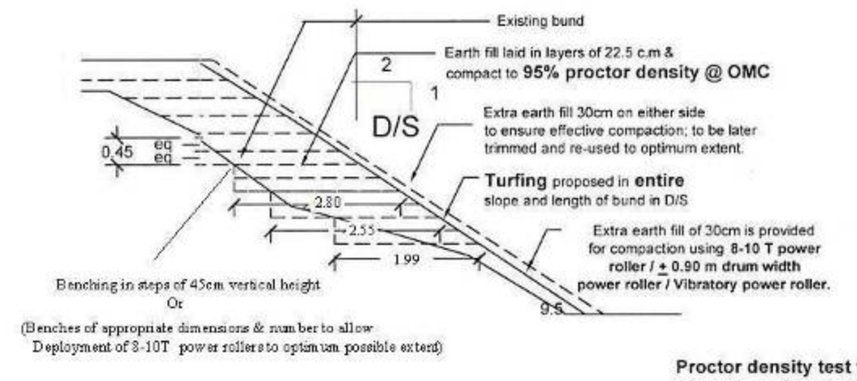
ENLARGED (PART SECTION)

NALLAVUR SUB BASIN, PACKAGE NO 02

Note : All dimensions are in Meters

Scale 1 :50

METHODOLOGY OF RAISING & STRENGTHENING OF PATTANAM TANK BUND



Proctor density test for every 300m3 of earth work and at least one test in each layer (IS 2720-1975(Part -XXIX))

C.S@L.S - 200M

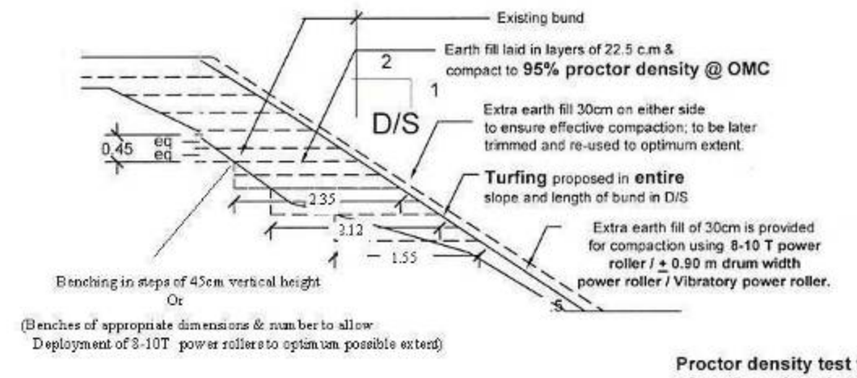
ENLARGED (PART SECTION)

NALLAVUR SUB BASIN, PACKAGE NO 01

Note : All dimensions are in Meters

Scale 1 :50

METHODOLOGY OF RAISING & STRENGTHENING OF T.PARANGINI TANK BUND



Proctor density test for every 300m3 of earth work and at least one test in each layer (IS 2720-1975(Part -XXIX))

C.S@L.S -1000M

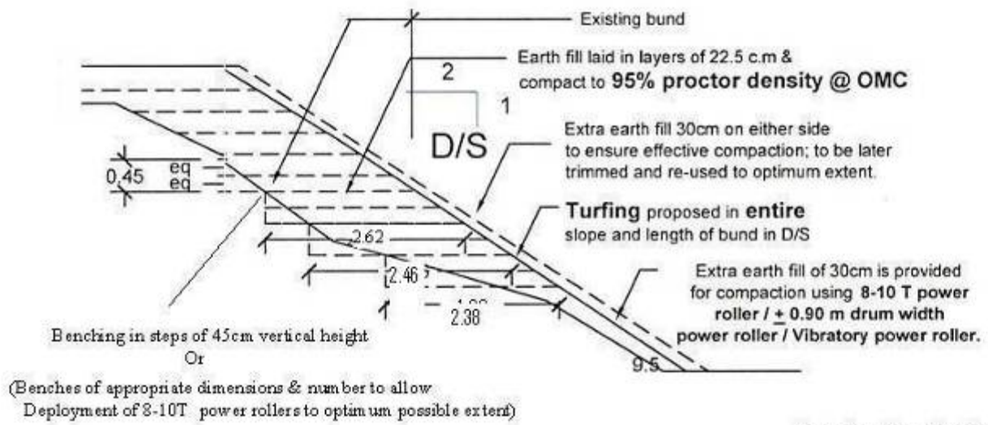
ENLARGED (PART SECTION)

NALLAVUR SUB BASIN, PACKAGE NO 05

Note : All dimensions are in Meters

Scale 1 :50

METHODOLOGY OF RAISING & STRENGTHENING OF THIRUKKANUR TANK BUND



Proctor density test for every 300m3 of earth work and at least one test in each layer (IS 2720-1975(Part -XXIX))

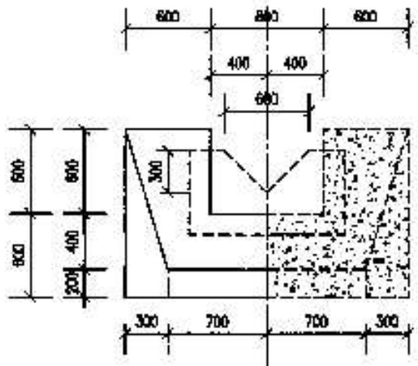
C.S@L.S -600M

ENLARGED (PART SECTION)

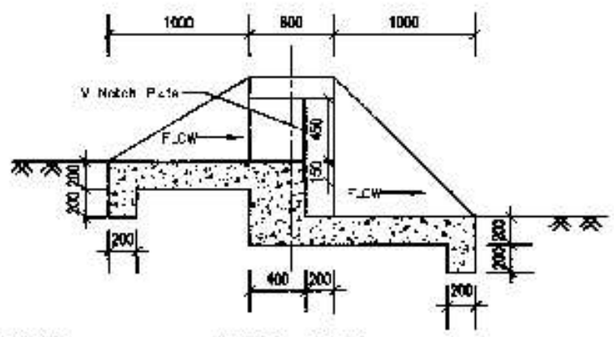
NALLAVUR SUB BASIN, PACKAGE NO 04

Note : All dimensions are in Meters

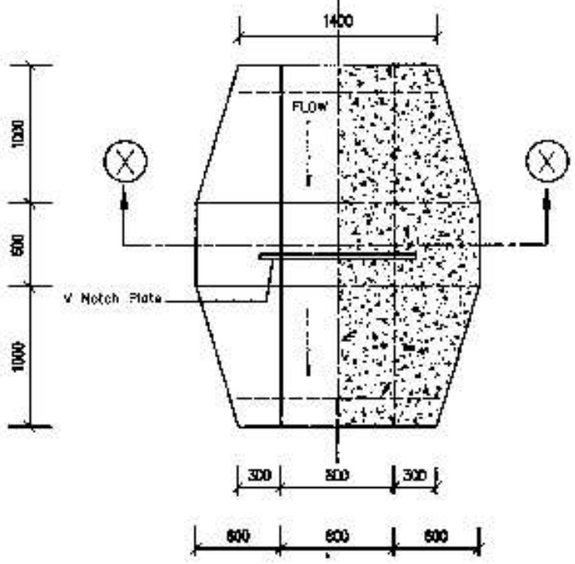
Scale 1 :50



HALF FRONT ELEVATION AND HALF SECTIONAL ELEVATION AT X–X



CROSS SECTION



HALF PLAN AT TOP AND HALF PLAN AT BOTTOM

V–NOTCH – SALIENT DETAILS (For 1 to 4 C/s)

Discharge		Head over Crest	V–Notch size	Overall size
Cusecs	Lit/Sec	in cm	in cm	in cm
1	28.30	20.50	25x25	50x65
2	56.60	27.00	30x60	50x75
3	85.00	32.00	35x70	55x90
4	113.27	36.00	42x84	60x100